

2020 Semi-Annual Groundwater Monitoring and Corrective Action Report

Georgia Power Company – Plant Mitchell Ash Ponds A, 1, and 2 Project No.: 6122160170

Prepared for:



Atlanta, Georgia 2/26/2021

CERTIFICATION STATEMENT

This 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report, Georgia Power Company Plant Mitchell - Ash Ponds A, 1, and 2 has been prepared in compliance with Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 under the supervision of a licensed professional engineer and a licensed professional geologist with Wood Environment & Infrastructure Solutions, Inc.

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SUMMARY

This summary of the 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program through the second half of 2020 at Georgia Power Company's (Georgia Power's) Plant Mitchell Ash Ponds A, 1 and 2 (the Site). This summary was prepared by Wood Environment & Infrastructure Solutions, Inc. (Wood) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the U.S. Environmental Protection Agency (US EPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Georgia Power Company'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 (Figure 1). There are three CCR surface impoundments (ash ponds) at the Site: Ash Pond



Figure 1. Plant Mitchell Ash Ponds A, 1, & 2

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 Application was submitted to Georgia EPD in November 2018 and is currently under review.

The groundwater monitoring program for the ash ponds is managed in accordance with the Georgia Environmental Protection Division (GA EPD) CCR Rules. A well network around each ash pond monitors the groundwater conditions at the Site. The current monitoring well network at Ash Ponds A, 1, and 2 consists of 14 wells (4 upgradient and 10 downgradient wells). Twenty-six piezometers are used for water level measurements only. The monitoring wells were installed from June 2014 through March 2020 and meet federal and state monitoring requirements. The piezometers were installed from February 1995 to July 2016. Groundwater monitoring has been initiated in order to meet GA EPD CCR 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



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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

monitoring event was in October 2019. Semi-annual assessment monitoring events were conducted in March 2020 and October 2020 and remains in assessment monitoring.

During the latter half 2020 reporting period, two groundwater sampling events were conducted in August and October. The August event was an assessment constituent screening event and samples were analyzed for only the full suite of Appendix IV² parameters including radium. The October event was a routine semi-annual assessment monitoring and samples were analyzed for the full suite of Appendix III³ parameters and those Appendix IV⁴ parameters detected in August. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for October 2020 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² parameters in wells provided in the table below. There are no confidence intervals of the individual well/constituent pairs above a Groundwater Protection Standard (GWPS), established according to Georgia EPD Rules 391-3-4-.10(6)(a). Therefore, no statistically significant levels (SSLs) were identified for the October 2020 sampling event.

Appendix III Parameter	October 2020
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, PZ-17, PZ-18, PZ-23A
Fluoride	None
рН	PZ-18, PZ-19, PZ-23A, PZ-25
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-15, PZ-17, 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 from August through December 2020, 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.

⁴ Antimony, barium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228



² Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228

³ Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)

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1.0 INTRODUCTION

In accordance with the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10(6)(a)-(c), this 2020 Semi-Annual Groundwater Monitoring and Corrective Action Report has been prepared to document groundwater monitoring activities conducted at Georgia Power Company's (GPC) 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.

Groundwater monitoring and reporting for Plant Mitchell are performed in accordance with the monitoring requirements of § 257.90 through § 257.95 and the Georgia EPD Rule 391-3-4-.10(6)(a)-(c). This semi-annual report documents the activities completed during the second half of 2020 in accordance with Georgia EPD Rule 391-3-4-.10(6)(c). Two monitoring events were conducted during this monitoring period: (1) an assessment monitoring constituent screening event was conducted in August 2020 as a result of statistical exceedances of Appendix III constituents during the monitoring event in March 2020, and (2) the subsequent semi-annual assessment monitoring event was conducted in October 2020.

1.1 Site Description and Background

Georgia Power Company'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 Plant Mitchell Site is generally composed of the former coal-fired electric generating facility to the north and Ash Ponds A, 1, and 2 to the south. The Site is partly bounded by the Flint River on the west, the Georgia and Florida Railway on the east, pecan orchards to the south. The northern boundary of the Site is a residential property with a mowed lot. 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 will be 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 Application was submitted to Georgia EPD in November 2018 and is currently under review. 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. Semi-annual assessment monitoring events were conducted in March 2020 and October 2020.

1.2 Regional Geology & 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. 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 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 ft/day to 30 ft/day with a median value of 0.002 ft/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 ft/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. 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 – Upper Bedrock – August 2020 and Figure 4: Potentiometric Surface – Upper Bedrock – October 2020.**

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.

Pursuant to § 257.91 and § 391-3-4-.10(6)(a), 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 based on groundwater flow direction. The monitoring well locations are shown in **Figure 2: Monitoring Network Well Location Map**. The current monitoring well network at Ash Ponds A, 1, and 2 consists of 14 wells (4 upgradient wells, and 10 downgradient wells). The upgradient wells used to monitor groundwater quality include wells PZ-1D, PZ-2D, PZ-31, and PZ-32. Downgradient wells used to monitor groundwater quality include wells PZ-7D, PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, and PZ-33 (**Table 1 Summary of Monitoring Network Well Construction and Groundwater Elevations**). Twenty-six piezometers are used for water level measurements only (**Table 2: Summary of Piezometer Construction and Groundwater Elevations**).

2.0 **GROUNDWATER MONITORING ACTIVITIES**

As required by § 391-3-4.10 (6) and 257.90(e), the following describes monitoring-related activities performed during the events during the second half of 2020. The groundwater sampling was performed August 2020 and October 2020 for assessment monitoring in accordance with § 257.93 and Georgia EPD Rule 391-3-4-.10(6). Samples were collected from each of the 14 wells in the monitoring system shown on Figure 2.

2.1 Monitoring Well Installation and Maintenance

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

- Visual inspection of well conditions prior to sampling, recording the Site conditions, and performing exterior maintenance to conduct sampling under safe and clean conditions. The August and October 2020 inspections indicated the monitoring wells were in good condition.
- The elevations of the top of well casings (TOC) for the CCR network monitoring wells and piezometers were re-surveyed in June 2020 to confirm the elevations were surveyed to 0.01 feet accuracy. The boring logs and well construction diagrams of the monitoring wells and piezometers were updated with the new TOC elevations and submitted to Georgia EPD as the September 2020 Well Installation Addendum.
- Piezometer PZ-03R was abandoned on December 18, 2020. The abandonment report is in **Appendix A: Well Abandonment**. The piezometer was abandoned to accommodate the on-going construction activities to remove CCR material and close the Ash Pond 2.

2.2 **Detection Monitoring Program**

In accordance with § 257.94(b) and Georgia EPD Rule 391-3-4.10 (6), the detection groundwater monitoring program was implemented by collecting 8 background groundwater samples beginning in August 2016. In addition, a 9th round of groundwater samples was collected from the 14 CCR monitoring wells as the initial detection monitoring event. Groundwater samples were collected from each monitoring well and analyzed for Appendix III constituents according to § 257.94(a) and Georgia EPD Rule 391-3-4-.10(6). The background study and the initial detection monitoring event were documented in the 2019 Annual Groundwater Monitoring & Corrective Action Report, dated August 5, 2019.

2.3 **Assessment Monitoring**

Statistically significant increases (SSI) of Appendix III constituents were identified in the initial detection monitoring event (March 2019). Pursuant to § 257.94(e)(1) and Georgia EPD Rule 391-3-4-.10(6), Georgia Power implemented assessment monitoring in accordance with § 257.95 and Georgia EPD Rule 391-3-4-.10(6). An assessment monitoring constituent screening event was conducted from August 25 to 27, 2020. Pursuant to § 257.95(b) and Georgia EPD Rule 391-3-4-.10(6), the CCR monitoring wells were sampled for the full suite of Appendix IV constituents during the August 2020 assessment monitoring screening event. Following receipt of the Appendix IV screening results, a semi-annual assessment monitoring event was conducted October 5 to 7, 2020. Pursuant to § 257.95(d)(1) and Georgia EPD Rule 391-3-4-.10(6), groundwater samples collected from the CCR monitoring network wells were analyzed for Appendix III constituents and those Appendix IV constituents detected during the August 2020 assessment monitoring screening event. Data reports for the August and October 2020 monitoring events are included in **Appendix B: Laboratory Analytical and Field Sampling Reports.**

3.0 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 were recorded from each well in the network for Plant Mitchell Ash Ponds A, 1, and 2. Groundwater elevations recorded during the August 2020 and October 2020 monitoring events are summarized in **Tables 1 and 2**. Groundwater elevation data from the two monitoring events were used to develop potentiometric surface elevation contour maps (Figure 3: Potentiometric Surface - Upper Bedrock – August 2020 and Figure 4: Potentiometric Surface – Upper Bedrock – October **2020**. The elevations of the top of well casings were re-surveyed in June 2020. The August and October 2020 groundwater elevations were calculated using the top of casing elevations from the June 2020 resurvey. Groundwater flow in the carbonate upper bedrock (Figures 3 and 4) is to the west-southwest. The June 2020 re-surveyed elevations did not affect the direction of groundwater flow. The groundwater flow pattern observed during the August 2020 and October 2020 monitoring events is consistent with conditions observed during previous monitoring events.

3.2 **Groundwater Gradient and Flow Velocity**

The groundwater flow velocity at Plant Mitchell Ash Ponds A, 1, and 2 was calculated using a derivation of Darcy's Law. Specifically,

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

Where:

 $V = Groundwater flow velocity \left(rac{feet}{day}
ight)$

 $K = Average \ hydraulic \ conductivity \ of the \ aquifer \ \left(rac{feet}{day}
ight)$ $i = Horizontal \ hydraulic \ gradient \ \left(rac{feet}{feet}
ight)$

 $n_a = Effective porosity$

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 aguifer. 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 aguifer, 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." While the presence of

interpreted karst features is documented on the surface at the Plant Mitchell Site, little evidence exists for the presence of well interconnected karst features within the upper bedrock aquifer. Groundwater flow in the shallow Ocala Limestone at Plant Mitchell likely is diffuse based on the above evidence. 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% (Hayes, et al., 1983). **Table 3: Groundwater Flow Velocity Calculations** summarize the groundwater flow velocities. Results for groundwater flow velocities ranged from 0.01 to 0.03 feet/day (3.7 to 11.0 feet/year).

3.3 Groundwater Sampling

Groundwater samples were collected for the August 2020 and the October 2020 monitoring events in accordance with § 257.95(b) and (d) and Georgia EPD Rule 391-3-4-.10(6). Each of the monitoring wells at the Site is equipped with a dedicated QED bladder pump. The 14 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 (mL/min). A SmarTroll (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, dissolved oxygen, temperature, and ORP) and a Hach 2100Q 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%;
- 10% for DO > 0.5 mg/l. No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 10 NTU
- Temperature Record only, not used for stabilization criteria
- ORP Record only, not used for stabilization criteria

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.

3.4 Laboratory Analyses

Groundwater samples collected in August 2020 for the assessment monitoring constituent screening event were analyzed for the full suite of Appendix IV constituents only.

Groundwater samples collected in October 2020 semi-annual monitoring event were analyzed for the full suite of Appendix III constituents and the Appendix IV constituents detected in the August 2020 assessment constituent screening event. Arsenic, beryllium, and cadmium were not detected in the groundwater samples collected during the August 2020 assessment constituent screening event and were, therefore, not analyzed during the subsequent semi-annual event in accordance with § 257.95(d)(1) and Georgia EPD Rule 391-3-4-.10(6). Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix B**.

Laboratory analyses were performed by Pace Analytical Services, LLC, of Peachtree Corners, Georgia, and Greensburg, Pennsylvania. Both 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.

3.5 Groundwater Analytical Results

Table 4: Analytical Data Summary Appendix III - October 2020, summarizes the analytical data for the Appendix III constituents for the semi-annual monitoring event. The complete laboratory and field data sheets are included in **Appendix B**.

Table 5: Analytical Data Summary Appendix IV – August and October 2020 summarizes the analytical data for the Appendix IV assessment constituent screening event and the detected Appendix IV constituents for the October 2020 semi-annual monitoring event. The complete laboratory and field data sheets are included in **Appendix B**.

3.6 Quality Assurance & Quality Control

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. Those few concentrations higher than the historical range were identified as statistical exceedances. The data quality evaluations are included in **Appendix B**. The data quality evaluation showed the data is valid and appropriate to use for monitoring the Site's groundwater quality.

The analytical results provided in **Tables 4** and **5** provide concentrations from the August 2020 and October 2020 sampling events 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 (MDL) and the laboratory reporting limit (RL). 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 (MDC). The relative percent difference for the parent and duplicate sample data for anion and metals data was less than 20% indicating good sampling precision. The relative percent difference for total radium in one October 2020 sample set was at 20%.

4.0 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 Georgia Rule 391-3-4.-10(6) and following the 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) and Georgia Rule 391-3-4.-10(6) 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) and Georgia Rule 391-3-4.-10(6), 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 October 2020 semi-annual assessment monitoring event 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 parameters 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 October 2020. The Interwell method was used for the analysis of the Appendix III constituents. Confidence intervals were calculated for each of the detected Appendix IV parameters in each downgradient well. The following table provides a summary of the statistical methodology used at Ash Ponds A, 1, and 2 for the semi-annual monitoring event conducted in October 2020 and will be used for routine monitoring in the future. Specific methodology information is described in the following paragraphs.

Table 6: Statistical Method Summary

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.							
	Nonparametric 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 reportin limit is utilized in the statistical analysis. The reporting lir 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 Resample Plan	Optional 1-of-2 with minimum of 8 samples per well for interwell testing.							
Optional	 Initial statistical exceedance warrants optional independent resampling within 90 days. If resample passes, well/parameter is not a confirmed statistically significant increase (SSI). If resample exceeds, well/parameter has a confirmed SSI. If no resample is collected, the original result is deemed verified. 							
	Statistical Limits Prediction Limits Management of Non-Detects Confidence Intervals No Statistical Testing Verification Resample Plan							

4.1.1 Appendix III Statistical Method

When using the interwell method, upgradient well data are pooled to establish a background statistical limit for each constituent. Appendix III data from the October 2020 monitoring event was compared to the statistical limit to determine whether downgradient well concentrations exceed background statistical limits. The interwell statistical method uses an optional 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine if the result was an outlier. Interwell prediction limits were used for the following locations and constituents:

 Ash Ponds A, 1, and 2: Interwell statistical methods were used for boron, calcium, chloride, fluoride, sulfate, Total Dissolved Solids (TDS), and pH.

Data from groundwater samples from downgradient wells collected in the October 2020 assessment monitoring event was compared to the statistical limits to evaluate whether concentrations exceed background statistical limits.

If data from a sampling event initially exceeds the prediction limit (PL), an optional resampling strategy can be used to verify the result. In 1-of-2 resampling, one independent resample is collected and evaluated within 90 days to determine whether the initial exceedance is verified. If the resample exceeds the PL, the initial exceedance is verified, and an SSI is identified. When a resample result does not verify the initial result, and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance. If the initial finding is not verified by a resampling result, the resampled value will replace the initial finding. When the resample confirms the initial finding, the exceedance will be reported.

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 limits 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% nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR § 257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a).

As described in 40 CFR § 257.95(h) (1-3), the 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 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

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR § 257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the October 2020 sample event. **Table 7: Summary of Groundwater Protection Standards** summarizes the background limits established for each Appendix IV constituent for each event and the GWPS established under Georgia EPD Rules for each event.

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 Georgia 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, a statistically significant level (SSL) exceedance is identified.

4.2 Statistical Analyses Results – Appendix III

Analytical data for Appendix III constituents from the October 2020 semi-annual monitoring event were analyzed in accordance with the statistical analysis plan. The statistical analysis and comparison to prediction limits are included as **Appendix C: Statistical Analyses**. **Table 8: Statistical Analysis Summary October 2020** summarizes the SSIs identified for the Appendix III parameters during the October 2020 event.

Table 8 Statistical Analysis Summary October 2020

Appendix III	Wells with Concentrations Above Prediction
<u>Parameters</u>	<u>Limits</u>
<u>Boron</u>	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, PZ-17, PZ-18, PZ-23A
рН	PZ-18, PZ-19, PZ-23A, PZ-25
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-15, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-33

4.3 Statistical Analyses Results- Appendix IV

Appendix C: Statistical Analyses 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 Georgia EPD Rules 391-3-4-.10(6)(a). Therefore, no SSLs were identified for the October 2020 sampling event.

5.0 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 October 2020 semi-annual event. No SSLs were identified for the Appendix IV constituents during the October 2020 event. Pursuant to § 257.94(e)(1) and Georgia EPD Rules 391-3-4-.10(6), Georgia Power will continue assessment monitoring.

6.0 CONCLUSIONS & FUTURE ACTIONS

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 and Georgia EPD Rule 391-3-4-.10(6). During the next semi-annual reporting period of 2021, Georgia Power will update the groundwater protection standards for Appendix IV constituents and conduct statistical analysis according to the regulations. The next semi-annual sampling event is planned for March 2021.

7.0 REFERENCES

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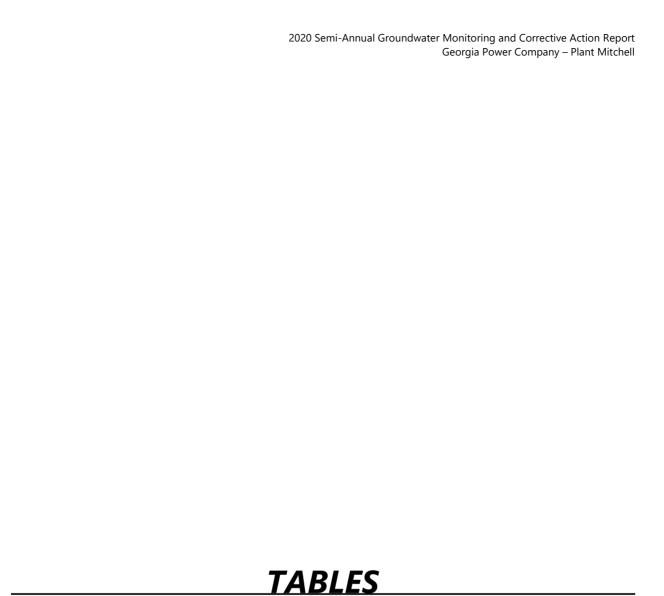


TABLE 1 SUMMARY OF MONITORING NETWORK WELL CONSTRUCTION AND GROUNDWATER ELEVATIONS

Well Name	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (feet NAVD88) ⁽²⁾ (Prior to June 2020 Resurvey)	Ground Surface Elevation (feet NAVD88) ⁽²⁾ (June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88) ⁽²⁾ (Prior to June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88) ⁽²⁾ (June 2020 Resurvey)	Top of Screen Elevation (feet NAVD88) ⁽²⁾	Bottom of Screen Elevation (feet NAVD88) ⁽²⁾	Measured	Total Well Depth on Construction Log (feet below land surface)	Groundwater Zone Screened	Location	Depth to Water (feet below TOC) 8/25/2020	Groundwater Elevation (feet NAVD88) ⁽²⁾ 8/25/2020	Depth to Water (feet below TOC) 10/05/2020	Groundwater Elevation (feet NAVD88) ⁽²⁾ 10/05/2020
PZ-1D	6/11/2014	526353.9	2307362.8	192.7	193.4	196.21	196.44	125.8	115.8	74.4*	78.0	Bedrock	Upgradient	52.98	143.46	50.46	145.98
PZ-2D	6/10/2014	526067.3	2308155.4	175.1	175.6	178.39	178.51	108.0	98.0	80.4	78.0	Bedrock	Upgradient	36.10	142.41	33.85	144.66
PZ-31	10/13/2016	526996.3	2306857.6	180.1	180.3	182.86	182.96	133.3	123.3	61.6	57.0	Bedrock	Upgradient	39.83	143.13	37.15	145.81
PZ-32	10/12/2016	526078.7	2307723.7	178.0	178.2	180.72	180.75	126.2	116.2	65.3	62.0	Bedrock	Upgradient	38.48	142.27	35.83	144.92
PZ-7D	6/3/2014	521425.1	2305995.3	170.0	170.3	173.13	173.08	123.9	113.9	60.4	57.0	Bedrock	Downgradient	33.28	139.80	32.28	140.80
PZ-14	7/25/2016	521473.1	2306804.8	180.4	180.9	183.62	183.46	140.9	130.9	53.2	50.0	Bedrock	Downgradient	44.23	139.23	42.00	141.46
PZ-15	7/23/2016	521600.2	2305357.3	166.9	167.4	170.10	170.37	97.4	87.4	83.2	80.0	Bedrock	Downgradient	30.52	139.85	30.17	140.20
PZ-16	7/25/2016	522125.0	2305359.9	170.7	171.2	173.71	173.92	131.2	121.2	53.2	50.0	Bedrock	Downgradient	35.02	138.90	32.98	140.94
PZ-17	7/22/2016	522587.9	2305886.7	169.5	170.1	172.66	172.91	120.1	110.1	62.7	60.0	Bedrock	Downgradient	32.07	140.84	31.52	141.39
PZ-18	7/23/2016	523145.7	2306142.3	166.6	167.3	169.78	170.11	117.3	107.3	63.2	60.0	Bedrock	Downgradient	30.04	140.07	28.78	141.33
PZ-19	7/13/2016	523582.1	2306153.6	169.1	169.4	171.96	172.05	120.4	110.4	62.6	59.0	Bedrock	Downgradient	32.56	139.49	30.92	141.13
PZ-23A	3/10/2020	523831.5	2307743.4	188.9	189.1	191.91	191.85	134.6	124.6	67.4	64.5	Bedrock	Downgradient	50.27	141.58	48.23	143.62
PZ-25	7/20/2016	524492.6	2306152.0	167.9	168.2	171.12	171.14	118.2	108.2	108.2	60.0	Bedrock	Downgradient	30.57	140.57	29.74	141.40
PZ-33	10/1/2016	522212.6	2307233.9	186.9	187.1	189.52	189.61	126.7	116.7	73.6	70.4	Bedrock	Downgradient	49.63	139.98	47.67	141.94

Notes:

- 1. Horizontal locations referenced to the North American Datum of 1983 (NAD 83) (2011).
- 2. Vertical elevations are feet above mean sea level referenced to North American Vertical Datum of 1988 (NAVD88)
- 3. TOC indicates top of casing.
- 4. Groundwater elevations calculated using June 2020 TOC elevations
- * Depth to top of pump

Top and bottom screen elevations based on June 2020 resurveyed ground surface elevations.

TABLE 2
SUMMARY OF PIEZOMETER CONSTRUCTION AND GROUNDWATER ELEVATIONS

Well Name	Installation Date	Northing ⁽¹⁾	Easting ⁽¹⁾	Ground Surface Elevation (feet NAVD88) ⁽²⁾ (Prior to June 2020 Resurvey)	Ground Surface Elevation (feet NAVD88) ⁽²⁾ (June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88) ⁽²⁾ (Prior to June 2020 Resurvey)	Top of Casing Elevation (feet NAVD88) ⁽²⁾ (June 2020 Resurvey)	Top of Screen Elevation (feet NAVD88) ⁽²⁾	Bottom of Screen Elevation (feet NAVD88) ⁽²⁾	Total Well Depth Measured October 2020 (feet below TOC)	Total Well Depth on Construction Log (feet below land surface)	Lithology Screened	Depth to Water (feet below TOC) 8/25/2020	Groundwater Elevation (feet NAVD88) ⁽²⁾ 8/25/2020	Depth to Water (feet below TOC) 10/05/2020	Groundwater Elevation (feet NAVD88) ⁽²⁾ 10/05/2020
PZ-01R	2/10/2016	not sur	veyed ⁽⁴⁾	188.0	not surveyed ⁽⁴⁾	191.87	not surveyed ⁽⁴⁾	132.0	122.0	71.5	66.7	Overburden (Clay)/Bedrock	51.17	140.70	50.18	141.69
PZ-02R	2/3/2016	not surveyed ⁽⁴⁾		188.5	not surveyed ⁽⁴⁾	191.66	not surveyed ⁽⁴⁾	131.6	121.6	70.9	67.2	Overburden (Clay)/Bedrock	51.69	139.97	50.04	141.62
PZ-2S	6/10/2014	526066.7	2308163.4	175.0	175.6	178.60	178.61	131.6	121.6	50.2*	54.4	Overburden (Clay)	36.21	142.40	33.90	144.71
PZ-03R	2/9/2016	not sur	veyed ⁽⁴⁾	189.7	not surveyed ⁽⁴⁾	192.35	not surveyed ⁽⁴⁾	143.5	133.5	60.7	56.4	Overburden (Clay)/Bedrock	53.03	139.32	51.36	140.99
PZ-3D	5/28/2014	525373.2	2307918.1	187.7	188.1	190.82	190.98	110.5	100.5	91.2	88.0	Bedrock	48.89	142.09	46.66	144.32
PZ-4D	5/29/2014	524198.2	2308009.5	187.7	188.3	190.84	191.10	142.7	132.7	57.8	56.0	Bedrock	50.41	140.69	47.47	143.63
PZ-6S	6/13/2014	522254.0	2307207.5	186.2	186.5	189.34	189.47	148.9	138.9	42.5	48.0	Overburden (Clay)	18.96	170.51	16.17	173.30
PZ-8D	6/5/2014	521442.1	2305207.9	166.7	167.2	170.27	170.35	100.6	90.6	80.6	77.0	Bedrock	30.32	140.03	30.22	140.13
PZ-9D	6/4/2014	521770.9	2305127.5	162.6	163.2	166.08	166.16	126.6	116.6	49.5	47.0	Bedrock	26.67	139.49	26.01	140.15
PZ-10S	6/3/2014	522465.8	2305401.6	172.3	172.6	175.51	175.63	137.0	127.0	47.8	46.0	Bedrock	36.61	139.02	34.33	141.30
PZ-11S	6/12/2014	523112.9	2305532.1	188.2	188.7	191.57	191.69	141.1	131.1	61.5	58.0	Bedrock	52.61	139.08	50.78	140.91
PZ-12S	6/4/2014	523794.9	2305676.8	169.8	170.9	173.19	173.92	133.3	123.3	51.6	48.0	Bedrock	34.05	139.87	33.58	140.34
PZ-20	7/14/2016	524025.0	2306152.6	170.4	170.6	173.43	173.44	121.1	111.1	63.0	60.0	Bedrock	33.74	139.70	32.35	141.09
PZ-21	7/29/2016	524639.5	2306932.0	176.7	177.1	179.83	179.84	117.1	107.1	72.6	70.0	Bedrock	39.09	140.75	37.20	142.64
PZ-22	7/28/2016	524622.4	2307749.0	184.5	184.8	187.68	187.69	134.8	124.8	62.8	60.0	Bedrock	46.78	140.91	44.06	143.63
PZ-24A	3/6/2020	523151.8	2307445.9	192.2	192.3	195.07	194.97	142.3	132.3	63.3	61.0	Bedrock	54.74	140.23	52.42	142.55
PZ-26	10/1/2016	521463.1	2305040.7	163.7	163.9	166.60	166.70	125.4	115.4	52.3	48.5	Bedrock	27.03	139.67	26.68	140.02
PZ-27	10/4/2016	522440.4	2305235.1	161.5	161.9	164.40	164.58	123.6	113.6	52.3	48.3	Bedrock	25.68	138.90	23.81	140.77
PZ-28	10/13/2016	522953.9	2305347.3	163.0	163.5	165.67	165.96	126.5	116.5	50.8	47.0	Bedrock	26.98	138.98	24.97	140.99
PZ-29	10/4/2016	523857.8	2305593.0	170.0	170.4	172.95	173.18	123.9	113.9	60.5	56.5	Bedrock	33.04	140.14	33.01	140.17
MW-102	2/22/1995	524508.2	2306153.6	168.0	168.1	170.75	170.93	132.0	122.8	49.2	45.9	Bedrock	30.31	140.62	29.50	141.43
MW-108	2/16/1995	521561.7	2306874.5	183.0	182.8	185.59	185.47	145.1	136.0	54.4	47.4	Bedrock	46.35	139.12	43.91	141.56
MW-111	2/21/1995	521618.2	2305308.8	165.3	165.3	168.00	168.06	127.8	118.8	48.9	47.1	Bedrock	28.23	139.83	28.18	139.88
MW-113	2/21/1995	522357.4	2305578.4	172.1	171.9	174.76	174.61	129.6	120.1	52.0	52.4	Bedrock	35.66	138.95	33.37	141.24
MW-115	2/21/1995	522837.4	2306080.2	166.2	166.2	168.97	169.05	88.6	79.5	90.3	87.3	Bedrock	28.92	140.13	31.28	137.77
MW-116	2/23/1995	523649.9	2306082.5	169.0	168.9	171.86	171.69	100.7	94.3	55.2*	75.2	Bedrock	32.13	139.56	30.87	140.82

- 1. Horizontal locations referenced to the North American Datum of 1983 (NAD 83) (2011).
- 2. Vertical elevations are feet above mean sea level referenced to North American Vertical Datum of 1988 (NAVD88)
- 3. TOC indicates top of casing.
- 4. Wells PZ-01R, PZ-02R, PZ-03R were not accessible due to construction activities and were not resurveyed in June 2020.
- * total depth to top of pump or depth of monitoring instruments

Piezometer PZ-03R was abandoned on 12/18/2020

TABLE 3
GROUNDWATER FLOW VELOCITY CALCULATIONS

Potentiometric Map Date	Water-Bearing Zone	Location	Groundwate in Wel (h ₁ ,	l Pairs h ₂)	Change in Elevation (Δh) (feet)	Distance Measured (L) (feet)	asured (L) Gradient (i)		Estimated Effective Porosity (n _e)	Calculated Groundwater Flow Velocity (V) (feet/day)	Calculated Groundwater Flow Velocity (V) (feet/year)
August 2020	Limestone	PZ-1D to PZ-21	143.46	140.75	2.71	1740	0.002	3.04	0.2	0.02	7.3
August 2020	Limestone	PZ-23A to PZ-19	141.58	139.49	2.09	1620	0.001	3.04	0.2	0.02	7.3
October 2020	Limestone	PZ-1D to PZ-102	145.98	141.43	4.55	2190	0.002	3.04	0.2	0.03	11.0
October 2020	Limestone	PZ-23A to PZ-19	143.62	141.13	2.49	1620	0.002	3.04	0.2	0.02	7.3
October 2020	Limestone	PZ-33 to PZ-7D	141.94	140.80	1.14	1470	0.001	3.04	0.2	0.01	3.7

- 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)

TABLE 4
ANALYTICAL DATA SUMMARY
APPENDIX III
OCTOBER 2020

Well Name	Sample Date	Boron	Calcium	Chloride	Fluoride	рН	Sulfate	TDS
PZ-1D	10/6/2020	0.015 (J)	50.5	3.0	< 0.050	7.35	2.4	153
PZ-2D	10/6/2020	0.018 (J)	22.7	2.3	0.073 (J)	8.72	3.1	81.0
PZ-7D	10/7/2020	0.20	109	3.9	< 0.050	6.98	48.9	334
PZ-14	10/6/2020	0.026 (J)	111	4.4	< 0.050	7.01	11.0	241
PZ-15	10/7/2020	0.19	93.5	6.6	< 0.050	7.11	80.7	336
PZ-16	10/6/2020	0.19	84.0	6.4	< 0.050	7.24	42.4	261
PZ-17	10/7/2020	0.30	112	5.7	< 0.050	7.04	89.1	392
PZ-18	10/7/2020	0.39	129	5.0	< 0.050	6.91	87.3	425
PZ-19	10/7/2020	0.52	144	4.5	0.064 (J)	6.78	83.3	492
PZ-19 (FD-01)	10/7/2020	0.55	138	4.5	0.062 (J)	6.78	84.0	496
PZ-23A	10/6/2020	0.16	144	7.0	0.052 (J)	6.78	71.2	462
PZ-25	10/7/2020	0.18	84.2	1.8	0.13	6.95	38.1	280
PZ-25 (FD-02)	10/7/2020	0.19	85.7	1.8	0.14	6.95	38.3	288
PZ-31	10/6/2020	0.011 (J)	98.8	3.4	< 0.050	7.01	0.98 (J)	254
PZ-32	10/6/2020	0.015 (J)	62.8	2.3	< 0.050	7.27	1.9	169
PZ-33	10/7/2020	0.35	94.7	2.0	< 0.050	7.04	54.6	337

- 1. Results for metals and anions are reported in milligrams per liter (mg/L). Results for pH are reported in standard units.
- 2. < indicates the constituent was not detected above the analytical method detection limit (MDL).
- 3. (J) indicates the constituent was detected between the analytical method detection limit and laboratory reporting limit. The value followed by (J) is qualified by the laboratory as estimated.
- 4. TDS indicates total dissolved solids.

TABLE 5 ANALYTICAL DATA SUMMARY APPENDIX IV AUGUST AND OCTOBER 2020

Well Name	Sample Date	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Fluoride	Lead	Lithium	Mercury	Molybdenum	Radium	Selenium	Thallium
PZ-1D	8/25/2020	0.0012 (J)	< 0.00078	0.014	< 0.000046	< 0.00012	0.0030 (J)	< 0.00038	< 0.050	0.000065 (J)	< 0.00081	0.000099 (J)	0.0010 (J)	0.777 (U)	< 0.0016	< 0.00014
PZ-1D	10/6/2020	0.0021 (J)	NA	0.015	NA	NA	0.0021 (J)	< 0.00038	< 0.050	0.000066 (J)	< 0.00081	< 0.000078	0.00090 (J)	0.996 (U)	< 0.0016	< 0.00014
PZ-2D	8/26/2020	0.00080 (J)	< 0.00078	0.0051 (J)	< 0.000046	< 0.00012	0.0040 (J)	< 0.00038	0.057 (J)	< 0.000036	0.0015 (J)	< 0.000078	< 0.00069	0.605 (U)	< 0.0016	< 0.00014
PZ-2D	10/6/2020	0.0013 (J)	NA	0.0039 (J)	NA	NA	0.0065 (J)	< 0.00038	0.073 (J)	< 0.000036	0.00099 (J)	< 0.000078	0.00069 (J)	0.929 (U)	< 0.0016	< 0.00014
PZ-7D	8/26/2020	0.00031 (J)	< 0.00078	0.0070 (J)	< 0.000046	< 0.00012	0.0011 (J)	< 0.00038	< 0.050	< 0.000036	0.0023 (J)	< 0.000078	< 0.00069	0.572 (U)	0.0018 (J)	< 0.00014
PZ-7D	10/7/2020	< 0.00028	NA	0.0061 (J)	NA	NA	0.0014 (J)	< 0.00038	< 0.050	< 0.000036	0.0023 (J)	< 0.000078	< 0.00069	0.232 (U)	< 0.0016	< 0.00014
PZ-14	8/26/2020	< 0.00028	< 0.00078	0.016	< 0.000046	< 0.00012	0.0011 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	0.00015 (J)	< 0.00069	0.115 (U)	< 0.0016	< 0.00014
PZ-14	10/6/2020	< 0.00028	NA	0.016	NA	NA	0.00098 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	0.265 (U)	< 0.0016	< 0.00014
PZ-15	8/26/2020	0.00062 (J)	< 0.00078	0.053	< 0.000046	< 0.00012	< 0.00055	< 0.00038	< 0.050	< 0.000036	0.0013 (J)	< 0.000078	< 0.00069	0.681 (U)	0.0018 (J)	0.00027 (J)
PZ-15	10/7/2020	< 0.00028	NA	0.049	NA	NA	< 0.00055	< 0.00038	< 0.050	< 0.000036	0.0013 (J)	< 0.000078	< 0.00069	1.22 (U)	< 0.0016	0.00022 (J)
PZ-16	8/26/2020	0.00037 (J)	< 0.00078	0.036	< 0.000046	< 0.00012	0.00087 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	0.499 (U)	< 0.0016	< 0.00014
PZ-16	10/6/2020	< 0.00028	NA	0.034	NA	NA	0.0011 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	1.12 (U)	< 0.0016	< 0.00014
PZ-17	8/26/2020	0.00061 (J)	< 0.00078	0.077	< 0.000046	< 0.00012	< 0.00055	< 0.00038	< 0.050	< 0.000036	0.0028 (J)	< 0.000078	< 0.00069	1.62	< 0.0016	0.00025 (J)
PZ-17	10/7/2020	< 0.00028	NA	0.074	NA	NA	< 0.00055	< 0.00038	< 0.050	< 0.000036	0.0029 (J)	< 0.000078	< 0.00069	0.432 (U)	< 0.0016	0.00022 (J)
PZ-18	8/27/2020	< 0.00028	< 0.00078	0.023	< 0.000046	< 0.00012	< 0.00055	< 0.00038	< 0.050	< 0.000036	0.0025 (J)	< 0.000078	< 0.00069	0.0939 (U)	< 0.0016	< 0.00014
PZ-18	10/7/2020	0.0014 (J)	NA	0.023	NA	NA	< 0.00055	< 0.00038	< 0.050	0.000042 (J)	0.0030 (J)	< 0.000078	< 0.00069	0.365 (U)	< 0.0016	< 0.00014
PZ-19	8/26/2020	< 0.00028	< 0.00078	0.049	< 0.000046	< 0.00012	< 0.00055	< 0.00038	0.062 (J)	< 0.000036	0.011 (J)	0.00010 (J)	0.0020 (J)	0.703 (U)	0.0031 (J)	0.00056 (J)
PZ-19	10/7/2020	< 0.00028	NA	0.054	NA	NA	< 0.00055	< 0.00038	0.064 (J)	0.000042 (J)	0.013 (J)	< 0.000078	0.0019 (J)	0.893	0.0035 (J)	0.00070 (J)
PZ-19 (FD-01)	10/7/2020	< 0.00028	NA	0.053	NA	NA	< 0.00055	< 0.00038	0.062 (J)	< 0.000036	0.014 (J)	< 0.000078	0.0019 (J)	1.09	0.0029 (J)	0.00068 (J)
PZ-23A	8/26/2020	0.00038 (J)	< 0.00078	0.039	< 0.000046	< 0.00012	0.0014 (J)	0.00058 (J)	0.057 (J)	< 0.000036	0.0011 (J)	0.00017 (J)	< 0.00069	0.774 (U)	0.0026 (J)	0.00016 (J)
PZ-23A (DUP-02)	8/26/2020	0.0016 (J)	< 0.00078	0.037	< 0.000046	< 0.00012	0.0013 (J)	0.00055 (J)	< 0.050	< 0.000036	0.0011 (J)	0.00017 (J)	< 0.00069	0.552 (U)	0.0033 (J)	< 0.00014
PZ-23A	10/6/2020	< 0.00028	NA	0.037	NA	NA	0.0015 (J)	0.00067 (J)	0.052 (J)	0.000047 (J)	0.00097 (J)	< 0.000078	< 0.00069	1.24 (U)	0.0027 (J)	< 0.00014
PZ-25	8/26/2020	< 0.00028	< 0.00078	0.10	< 0.000046	< 0.00012	< 0.00055	0.0016 (J)	0.14	< 0.000036	0.0065 (J)	< 0.000078	< 0.00069	0.950 (U)	< 0.0016	0.00037 (J)
PZ-25 (DUP-01)	8/26/2020	< 0.00028	< 0.00078	0.10	< 0.000046	< 0.00012	< 0.00055	0.0015 (J)	0.14	< 0.000036	0.0062 (J)	< 0.000078	< 0.00069	1.13 (U)	< 0.0016	0.00036 (J)
PZ-25	10/7/2020	< 0.00028	NA	0.11	NA	NA	< 0.00055	0.0014 (J)	0.13	< 0.000036	0.0063 (J)	< 0.000078	< 0.00069	1.01 (U)	< 0.0016	0.00027 (J)
PZ-25 (FD-02)	10/7/2020	< 0.00028	NA	0.11	NA	NA	< 0.00055	0.0014 (J)	0.14	< 0.000036	0.0062 (J)	< 0.000078	< 0.00069	0.960 (U)	< 0.0016	0.00027 (J)
PZ-31	8/25/2020	< 0.00028	< 0.00078	0.0071 (J)	< 0.000046	< 0.00012	0.0011 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	0.00010 (J)	< 0.00069	0.405 (U)	< 0.0016	< 0.00014
PZ-31	10/6/2020	0.00045 (J)	NA	0.0075 (J)	NA	NA	0.0013 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	0.276 (U)	< 0.0016	< 0.00014
PZ-32	8/25/2020	< 0.00028	< 0.00078	0.015	< 0.000046	< 0.00012	0.0010 (J)	< 0.00038	< 0.050	0.000063 (J)	< 0.00081	< 0.000078	< 0.00069	0.340 (U)	< 0.0016	< 0.00014
PZ-32	10/6/2020	< 0.00028	NA	0.015	NA	NA	0.00072 (J)	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	0.371 (U)	< 0.0016	< 0.00014
PZ-33	8/26/2020	< 0.00028	< 0.00078	0.051	< 0.000046	< 0.00012	< 0.00055	< 0.00038	< 0.050	< 0.000036	< 0.00081	0.00011 (J)	< 0.00069	0.782 (U)	< 0.0016	< 0.00014
PZ-33	10/7/2020	0.00037 (J)	NA	0.048	NA	NA	< 0.00055	< 0.00038	< 0.050	< 0.000036	< 0.00081	< 0.000078	< 0.00069	0.442 (U)	< 0.0016	< 0.00014

Notes

- 1. mg/L indicates metals analyses units of milligrams per liter.
- 2. NA indicates a constituent was not analyzed in October semi-annual event because it was not detected during the August 2020 assessment constituent screening.
- 3. < indicates the constituent was not detected above the analytical method detection limit.
- 4. J indicates the constituent was detected between the analytical method detection limit and laboratory reporting limit.
- 5. Radium units are pci/L (picocuries per liter)
- 6. U indicates the substance 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.

TABLE 7
SUMMARY OF GROUNDWATER PROTECTION STANDARDS

Constituent	Units	MCL	Federal CCR Rule Specified Limit	Site-Specific Background October 2020	State Derived Site GWPS ⁽²⁾ October 2020
Antimony	mg/L	0.006		0.0035	0.006
Arsenic	mg/L	0.01		0.005	0.01
Barium	mg/L	2.0		0.0587	2.0
Beryllium	mg/L	0.004		0.003	0.004
Cadmium	mg/L	0.005		0.0025	0.005
Chromium	mg/L	0.1		0.011	0.1
Cobalt (1)	mg/L		0.006	0.005	0.005
Fluoride	mg/L	4.0		0.29	4.0
Lead ^{(1) (3)}	mg/L		0.015	0.005	0.005
Lithium ^{(1) (4)}	mg/L		0.04	0.03	0.03
Mercury	mg/L	0.002		0.0005	0.002
Molybdenum ⁽¹⁾	mg/L		0.1	0.01	0.01
Combined Radium	piC/L	5.0		1.783	5.0
Selenium	mg/L	0.05		0.01	0.05
Thallium	mg/L	0.002		0.001	0.002

mg/L - milligrams per liter

piC/L - picoCuries per liter

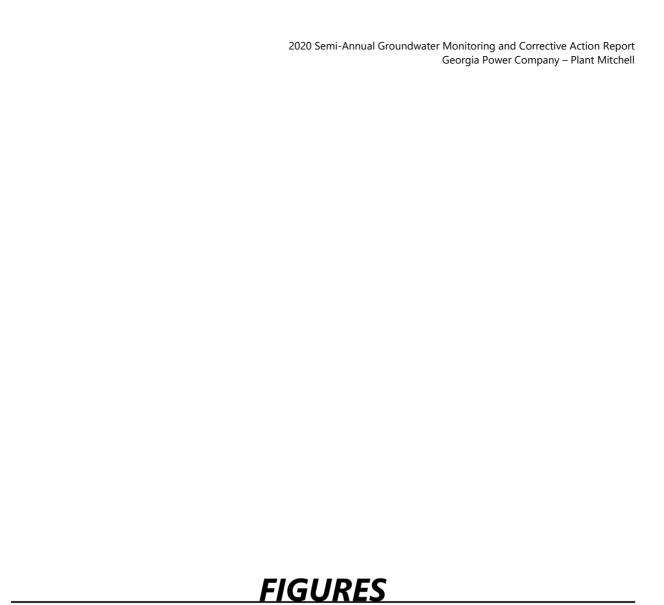
MCL - Maximum Contaminant Level

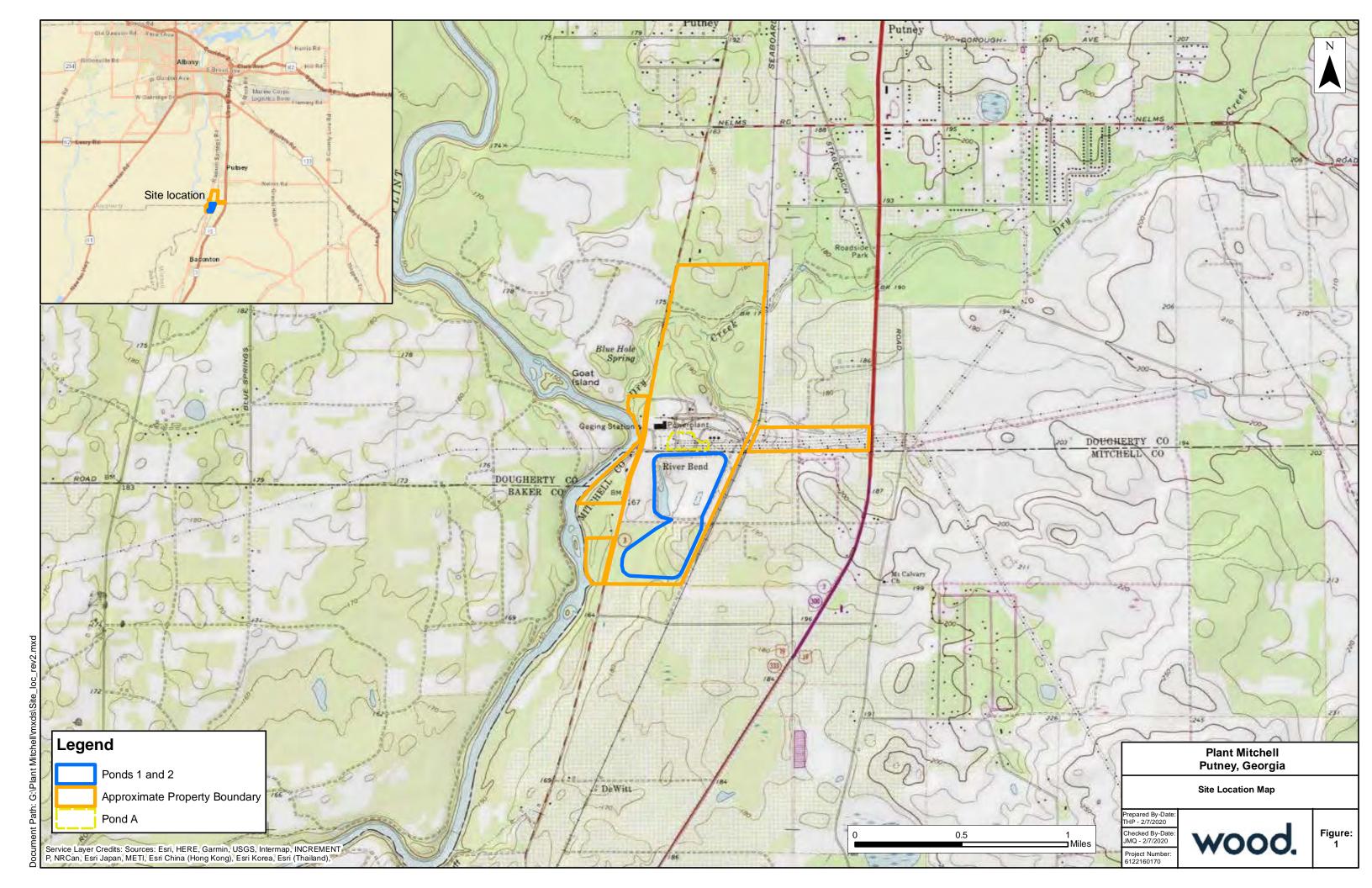
Federal CCR Rule 40 CFR § 257.95 (h) Amendment July 30, 2018 lists levels for cobalt, lead, lithium, and molybdenum.

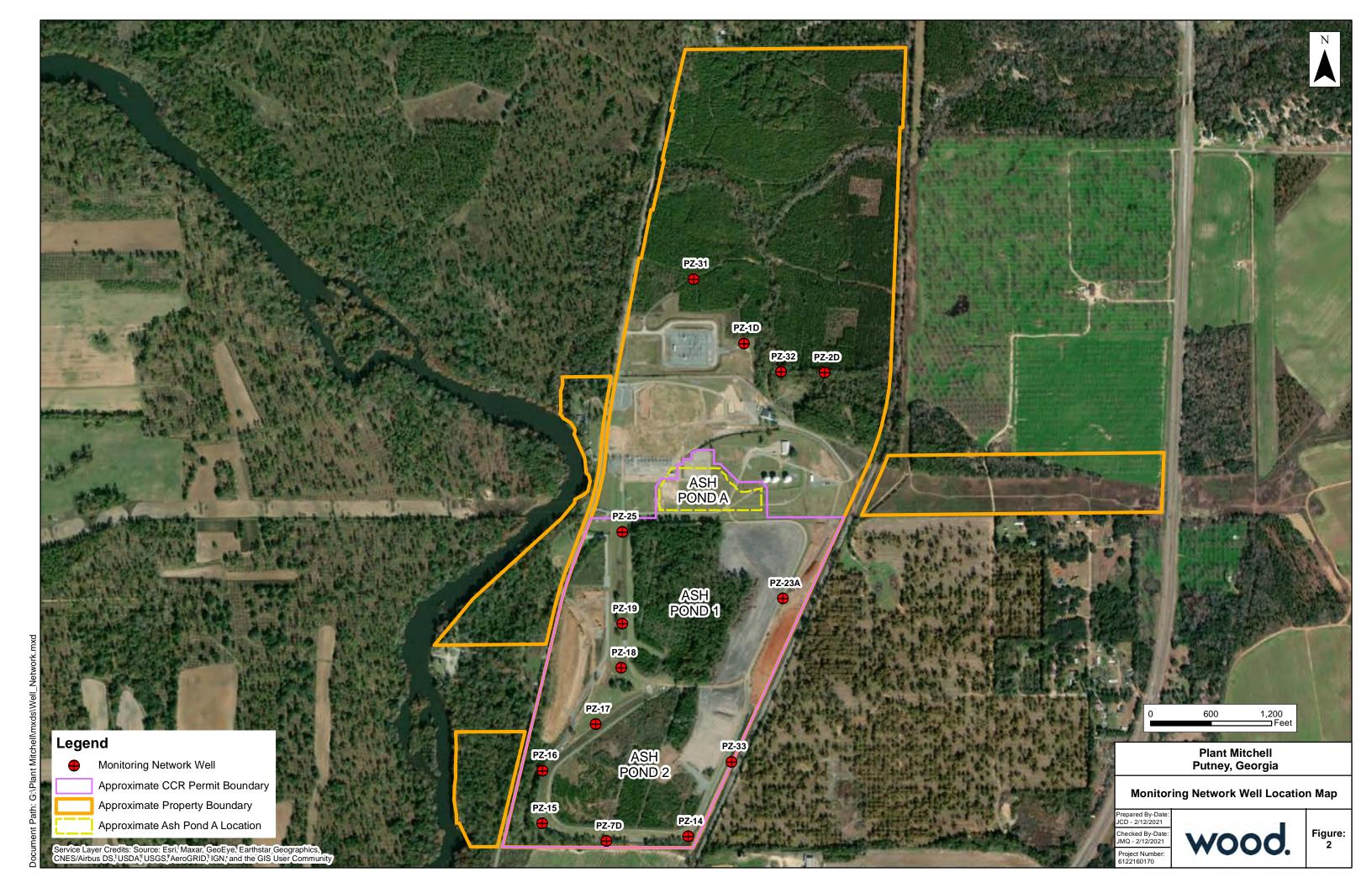
GWPS - Groundwater Protection Standard

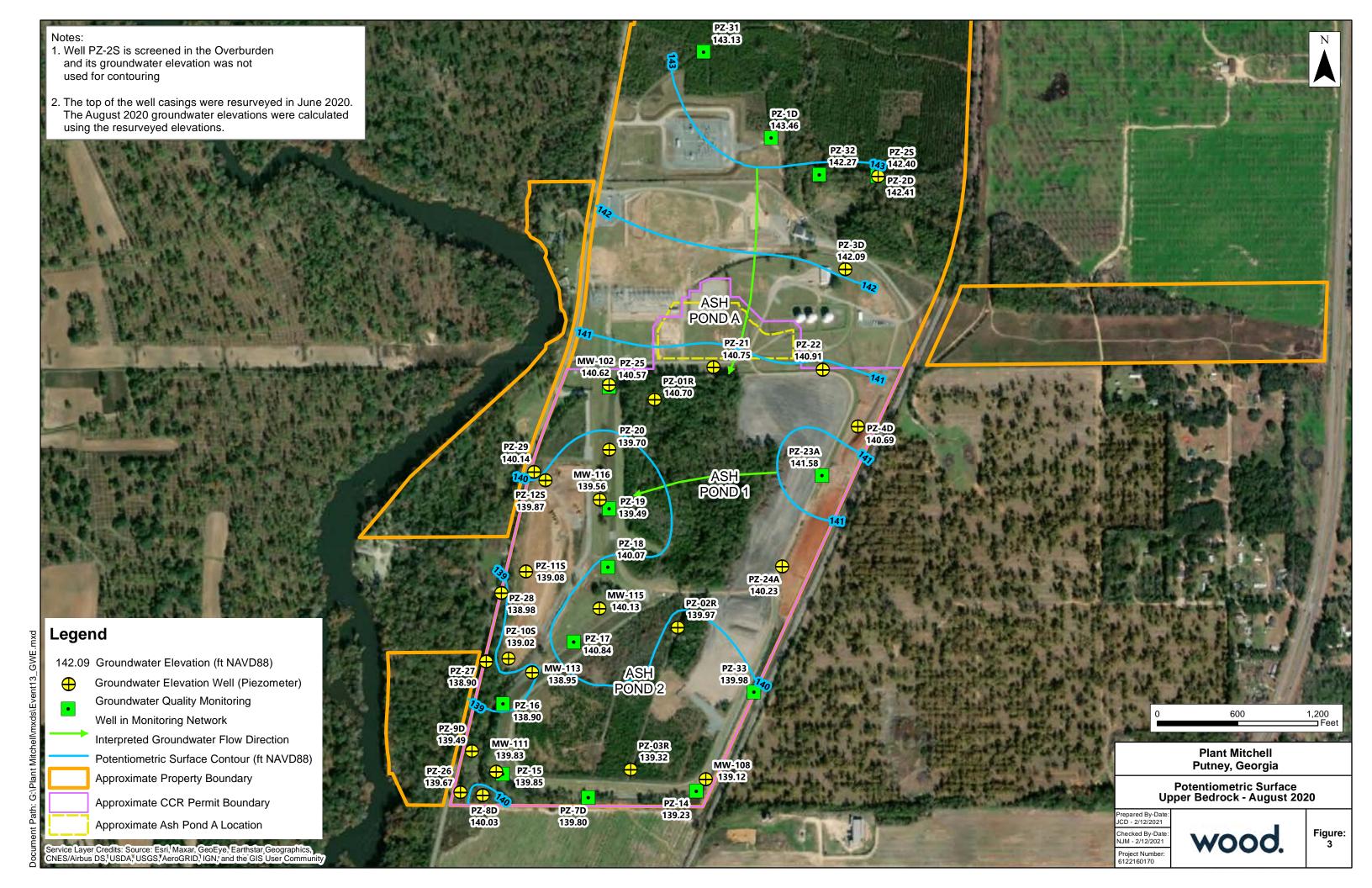
- (1) Constituent without an established MCL. The background limits were used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia Environmental Protection Division (EPD) Rule 391-3-4-.10(6)(a).
- (2) Under the existing Georgia EPD Rules, the GWPS is: (i) the MCL, (ii) where the MCL is not established, the background concentration, or (iii) background concentrations for constituents where the background level is higher than the MCL.
- (3) Currently, there is no MCL established for lead. The value listed is the established USEPA Action Level for drinking water.
- (4) The background tolerance limit (TL) used to evaluate GWPS for lithium is equal to the most recent laboratory specified reporting limit (RL).

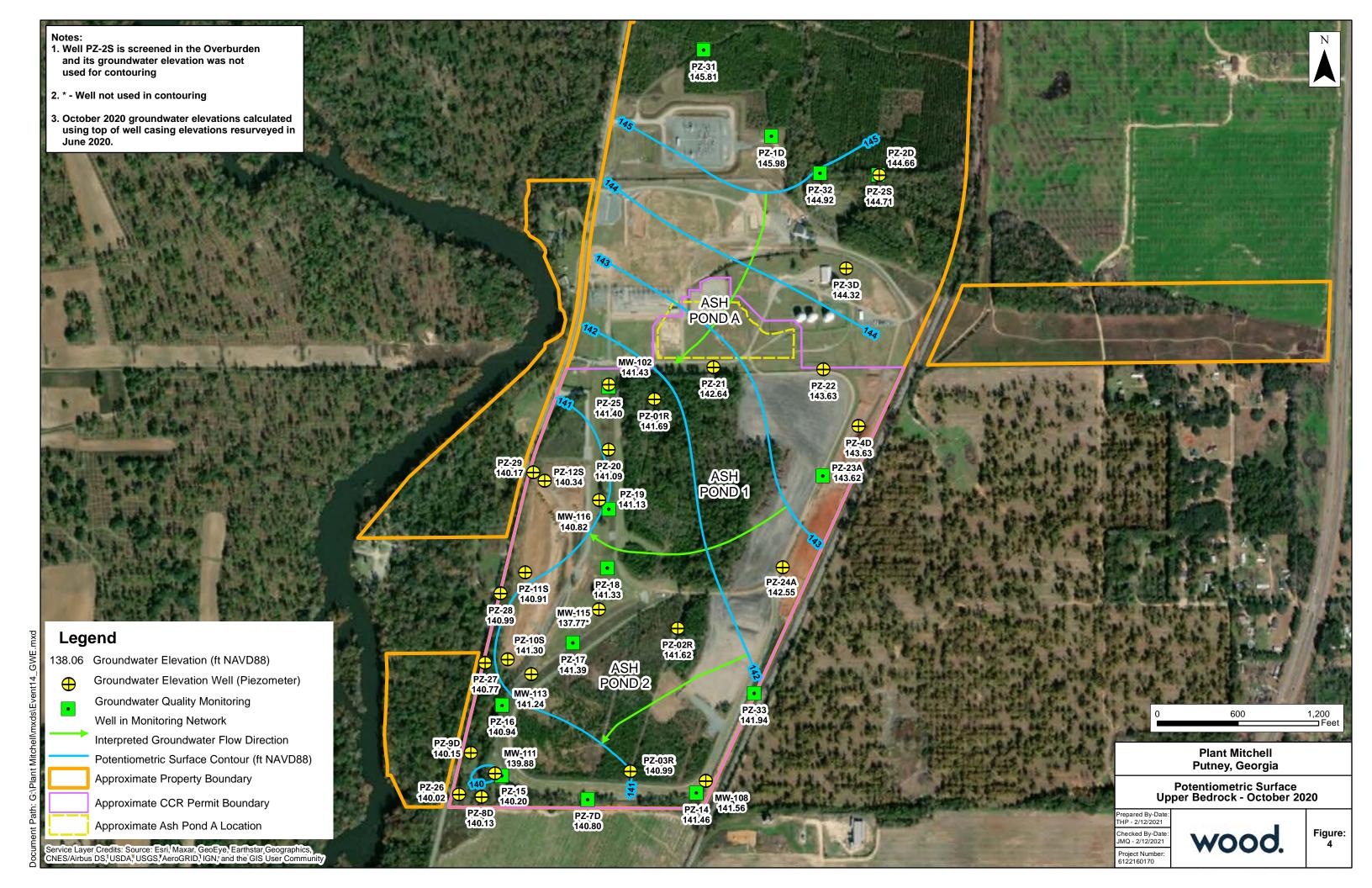
 Per the Statistical Analysis Plan, and in accordance with the Unified Guidance, a non-parametric limit approach was used since the data set contains greater than 50% non-detect results for this analyte. Under this approach, the TL equals the highest value reported, for which is the laboratory RL. However, the highest laboratory RL used was 0.05 mg/L. As a result, we have modified the GWPS to be equal to the most recently used RL (0.03 mg/L).













APPENDIX A

WELL ABANDONMENT



February 15, 2021

Mr. Jeremy Kerly Charah Solutions, Inc 12601 Plantside Drive Louisville, KY 40299 Environment & Infrastructure Solutions 1075 Big Shanty Road, Suite 100 Kennesaw, Georgia 30144 USA

T: +1 770-421-3400

www.woodplc.com

Subject: Ash Pond 2 Piezometer Abandonment Report

Plant Mitchell Albany, Dougherty and Mitchell County, Georgia

Wood Project No. 6123201586

Dear Mr. Kerly:

Wood Environment & Infrastructure Solutions, Inc. (Wood) is pleased to submit this letter summarizing the abandonment of piezometer PZ-03R at Plant Mitchell in Albany, Dougherty County, Georgia (Site). The closure of the piezometer was conducted in preparation for construction activities relating to ash removal that would impact the current locations of select monitoring wells in the Coal Combustion Residuals (CCR) monitoring and gauging program.

Summary of Abandonment Activities

Piezometer PZ-03R, located along the southern end of Ash Pond 2, was abandoned by removal. The well abandonment record is included as Attachment A and the piezometer location is shown on the figure included as Attachment B.

A Wood representative provided oversight and documentation of the abandonment activities, which were conducted by Cascade Drilling personnel. Well abandonment activities were conducted from December 17-18, 2020. Abandonment activities were conducted in accordance with the guidance outlined in the 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-R1, Design and Installation of Monitoring Wells, dated January 29, 2013). A summary of the abandoned wells, including construction details, are provided in Table 1.

The well was abandoned under the direction of a Georgia Professional Engineer. The depth to groundwater and total depth of the well was measured prior to its abandonment. The well was abandoned by overdrilling inside the six-inch outer casing down to the bottom of the well to remove the two-inch well casing. The borehole was backfilled with 5 to 10 percent bentonite cement grout mix placed into the borehole from the bottom to the top by pressure grouting via positive displacement to approximately 25 ft below ground surface which was the approximate bottom of the ash material. The grout was allowed to settle and cure overnight so that the grout would not be displaced when the upper outer casing was over drilled and backfilled with sand.

Mr. Jeremy Kerly Well Abandonment at Plant Mitchell Albany, Dougherty and Mitchell County, Georgia



The following day the top 25 ft of the boring, which was the six-inch outer casing, was over drilled and backfilled by removing one section of the augers at a time and backfilling with sand to the top of the ash pond surface. The two-inch and the six-inch outer casing were removed from the borehole and disposed of. Attachment C provides photographs of the abandonment activities.

Thank you for the opportunity to be of service on this project. Please call us with any questions regarding the information presented herein.

Sincerely,

Wood Environment & Infrastructure Solutions, Inc.

Daniel L. Howard Senior Professional

Baniel & Howard

Gregory J. Wrenn, PE Project Manager

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Attachments:

Table 1 – Well Construction Table
Attachment A – Well Abandonment Record
Attachment B –Location of Abandoned Piezometer and Photographs
Attachment C - Photos of Well Abandonment

Table 1 - Well Construction Table

Ash Pond 2 Well Abandonment Report Plant Mitchell

Project No. 6123-20-1586 January 22, 2021

	Well ID	Date of Construction	Latitude*	Longitude*	Water- Bearing Zone Monitoring Interval	Location	Well Diameter (inches)	Boring Depth (ft bgs)	Depth	Well Depth (ft btoc)	Field Measured Depth (ft bgs)	Field Measured Depth (ft btoc)	Well Screen Length (ft)	Stick-up Height (ft ags)	Depth to Water (ft btoc)	Date Decom- missioned	Decommission Method	Grout Volume Used (gallons)	Sand Used (pounds)
ı	PZ-03R	2/9/2016	31.43427	-84.13547	Bedrock	AP-2	2.0	56.4	56.4	61.0	56.4	61.0	10.0	4.6	51.36	12/18/2020	Overdrill	26.5	1250

Notes:

ft Feet bgs Below ground surface

bgs Below ground surface
btoc Below top of casing
ags Above ground surface

* Horizontal locations referenced to the North American Datum of 1983

Prepare by: D.H. 1/14/2021 Checked by: N.J.M 1/22/2021

ATTACHMENT A WELL ABANDONMENT RECORD

MONITORING WELL ABANDONMENT RECORD

WELL NO .: PZ-03R

PROJECT NAME: GPC-Plant Mitchell

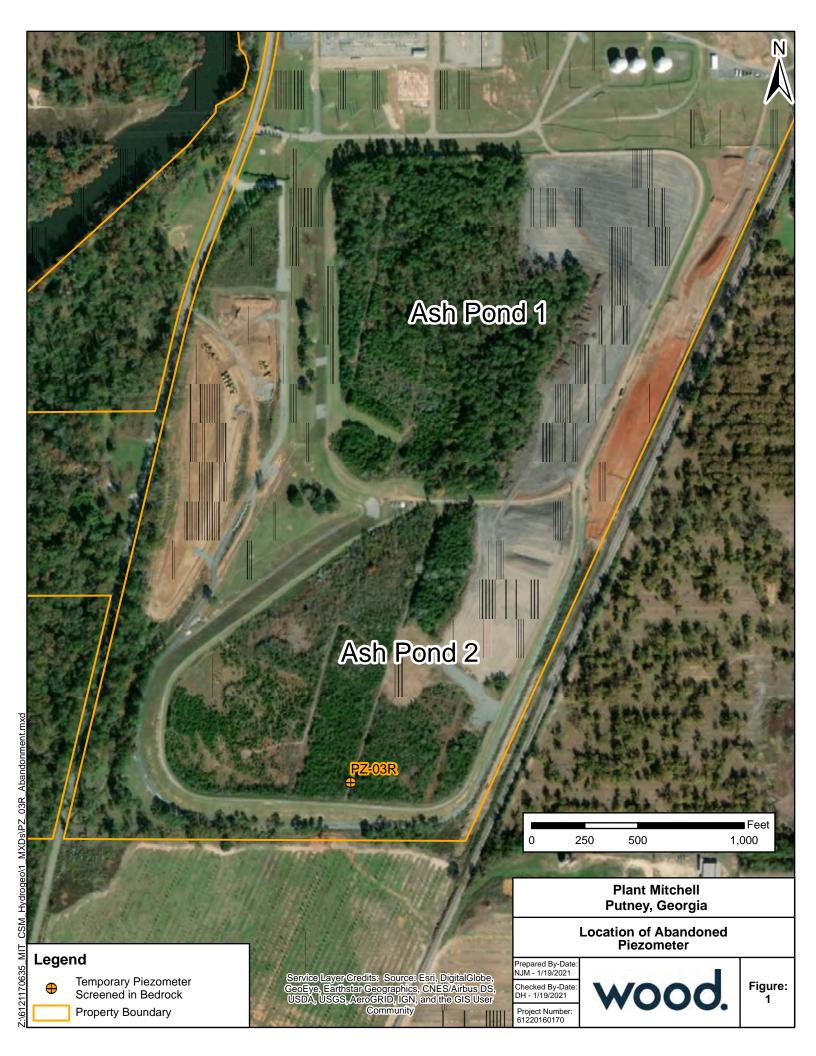
PROJECT NO.: 6123~20-1586

DATE: 12/17/20-12/18/20

wood.

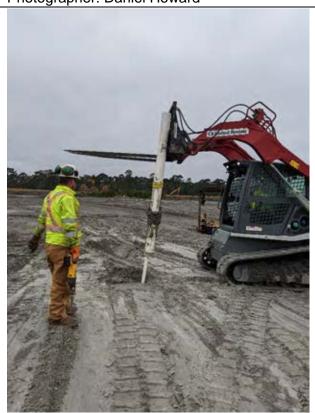
Name of Property Owner GPC-Plant Mitchell
Address of Property 5200 Radium Springs Rd, Albany, GA 31075
Original Purpose of Well Installation ground-water quality monitoring
Total Depth of Well (Measured from Top of Riser) 6 ft btoc total well depth 56.4 ft bgs total boring depth
Well Diameter inches
Screen Slot Size inch
Length of Screen 10 ft (46,4 to 56,4 ft bgs)
Depth to Water/Date (Measure from Top of Riser) $51.36/10/5/20$
Description of Well Abandonment Method <u>Overdrilling</u> and grouting up to bottom of ash and backfilling with sand to the surface Type and Volume of Materials Used to Plug Well/Borehole 226.5 <u>Gallons of Holcim Type I</u> Riser and Screen Removed or Left in Place <u>Removed</u>
Drilling Contractor Cascade Drilling Driller's Name Timmy Hall
Additional Notes - Well has 6" outer casing down to 225". From 31.4 down to 56.4 was assume estimated to be 2" well through natural soil. Material above 35 + to surface was assumed to be ash. Top 25 + was overdrilled with 9" auger and backfilled with sand after 25+t down to 56.4+ was overdrilled with 6" auger and backfilled with 6" auger and backfilled with grout.
Wood Environment & Infrastructure Solutions Field Representative Daniel Howard
Wood Environment & Infrastructure Solutions Field Representative Daniel Howard Date Well Abandonment Completed 12/18/20
Date Well Abandonment Completed 12/16/20

ATTACHMENT B LOCATION OF ABANDONED PIEZOMETER



ATTACHMENT C PHOTOS OF WELL ABANDMENT

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany Georgia	1
Photographer: Daniel Howard	Date: 12/17/20



Removal of riser pipe and outer casing above ground surface, 6 ft 9 inches.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	2
Photographer: Daniel Howard	Date: 12/17/20



Casing above ground surface has been removed.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	3
Photographer: Daniel Howard	Date: 12/17/20



Setup drill rig on well to begin overdrilling well to abandon well.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	4
Photographer: Daniel Howard	Date: 12/17/20



Two-inch inner casing of well overdrilled with 6 inch auger down to 53 ft.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	5
Photographer: Daniel Howard	Date: 12/17/20



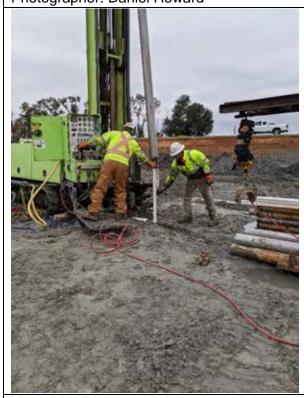
Mixing grout to backfill borehole to bottom of ash pond. Approximately 26.5 gallons

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	6
Photographer: Daniel Howard	Date: 12/17/20



Removing augers and well casing after backfilling with grout.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	7
Photographer: Daniel Howard	Date: 12/17/20



Removing final auger and 2-inch casing from overdrilled well.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	8
Photographer: Daniel Howard	Date: 12/17/20



PVC pipe removed from well.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	9
Photographer: Daniel Howard	Date: 12/18/20



Overdrilling outer casing with 9-inch augers in upper 25 ft of the well down to bottom of ash pond.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	10
Photographer: Daniel Howard	Date: 12/18/20



Drilled down to 25 ft. to bottom of ash pond.

Wood Photographic Log	PZ-03R
Plant Mitchell, Albany, Georgia	11
Photographer: Daniel Howard	Date: 12/18/20

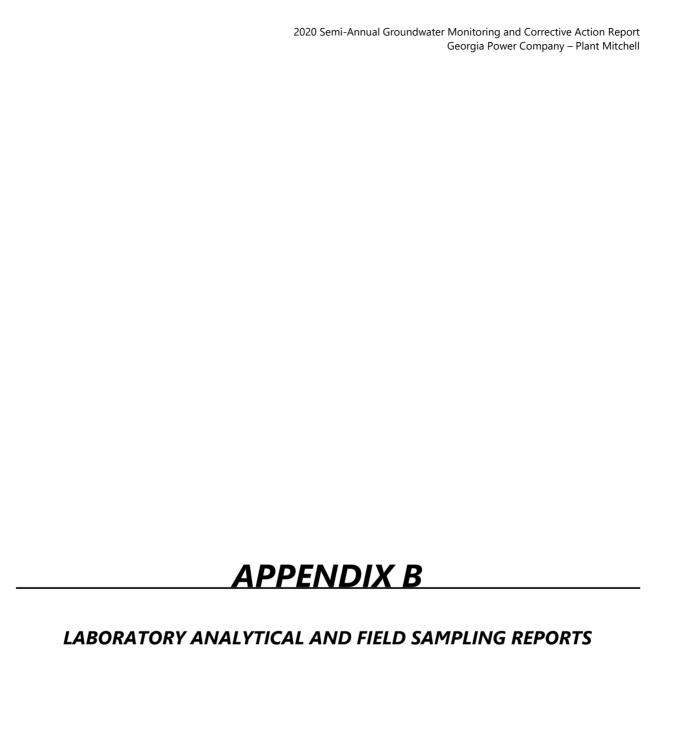


Backfilling 25 ft., 9-inch borehole through ash with sand.

Wood Photographic Log	PZ-03R
Site: Plant Mitchell, Albany, Georgia	12
Photographer: Daniel Howard	Date: 12/18/20



Finished backfilling 25 ft, 9-inch borehole from bottom of ash pond to ground surface.







September 10, 2020

Michelle Barker WOOD E&I 1075 Big Shanty Rd Suite 100 Kennesaw, GA 30144

RE: Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between August 27, 2020 and August 28, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com

Ken Herry

1(704)875-9092

HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR Kristen Jurinko Ms. Lauren Petty, Southern Co. Services Rhonda Quinn, WOOD E&I Greg Wrenn, WOOD E&I





CERTIFICATIONS

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Pace Analytical Services Charlotte

9800 Kincey Ave. Ste 100, Huntersville, NC 28078 Louisiana/NELAP Certification # LA170028

North Carolina Drinking Water Certification #: 37706 North Carolina Field Services Certification #: 5342

North Carolina Wastewater Certification #: 12

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804 Florida/NELAP Certification #: E87648 Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

Pace Analytical Services Peachtree Corners

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

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

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

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

Virginia Certification #: 460204



SAMPLE SUMMARY

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92492821001	PZ-23A	Water	08/26/20 10:10	08/27/20 09:47
92492821002	DUP-02	Water	08/26/20 00:00	08/27/20 09:47
92492821003	PZ-15	Water	08/26/20 12:25	08/27/20 09:47
92492821004	PZ-16	Water	08/26/20 14:10	08/27/20 09:47
92492821005	PZ-17	Water	08/26/20 15:45	08/27/20 09:47
92492821006	PZ-19	Water	08/26/20 15:35	08/27/20 09:47
92492821007	PZ-33	Water	08/26/20 10:20	08/27/20 09:47
92492821008	PZ-14	Water	08/26/20 14:10	08/27/20 09:47
92492821009	PZ-7D	Water	08/26/20 15:35	08/27/20 09:47
92492821010	EB-01	Water	08/25/20 14:45	08/27/20 09:47
92492821011	PZ-32	Water	08/25/20 14:55	08/27/20 09:47
92492821012	PZ-31	Water	08/25/20 16:15	08/27/20 09:47
92492821013	PZ-1D	Water	08/25/20 16:05	08/27/20 09:47
92492821014	FB-01	Water	08/26/20 08:40	08/27/20 09:47
92492821015	PZ-2D + QC	Water	08/26/20 10:52	08/27/20 09:47
92492821016	PZ-25	Water	08/26/20 13:50	08/27/20 09:47
92492821017	DUP-01	Water	08/26/20 00:00	08/27/20 09:47
92492821018	PZ-18 + QC	Water	08/27/20 10:05	08/28/20 11:08



SAMPLE ANALYTE COUNT

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92492821001	PZ-23A	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821002	DUP-02	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821003	PZ-15	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821004	PZ-16	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821005	PZ-17	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821006	PZ-19	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821007	PZ-33	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821008	PZ-14	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821009	PZ-7D	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821010	EB-01	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821011	PZ-32	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821012	PZ-31	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821013	PZ-1D	EPA 6020B	CW1	12

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Lab ID	Sample ID	Method	Analysts	Analytes Reported
	-	– ————————————————————————————————————		1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821014	FB-01	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821015	PZ-2D + QC	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821016	PZ-25	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821017	DUP-01	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92492821018	PZ-18 + QC	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	BRJ	1

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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



SUMMARY OF DETECTION

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result	Units	Report Limit	Analyzed	Qualifiers
2492821001	PZ-23A					
	рН	6.64	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.00038J	mg/L	0.0030	09/01/20 16:40	В
EPA 6020B	Barium	0.039	mg/L	0.010	09/01/20 16:40	
PA 6020B	Chromium	0.0014J	mg/L	0.010	09/01/20 16:40	
PA 6020B	Cobalt	0.00058J	mg/L	0.0050	09/01/20 16:40	
PA 6020B	Lithium	0.0011J	mg/L	0.030	09/01/20 16:40	
PA 6020B	Selenium	0.0026J	mg/L	0.010	09/01/20 16:40	
PA 6020B	Thallium	0.00016J	mg/L	0.0010	09/01/20 16:40	
PA 7470A	Mercury	0.00017J	mg/L	0.00050	09/01/20 10:37	
PA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L		08/28/20 18:40	
2492821002	DUP-02					
	рН	6.64	Std. Units		09/10/20 09:33	
PA 6020B	Antimony	0.0016J	mg/L	0.0030	09/01/20 17:03	В
PA 6020B	Barium	0.037	mg/L	0.010	09/01/20 17:03	
PA 6020B	Chromium	0.0013J	mg/L	0.010	09/01/20 17:03	
PA 6020B	Cobalt	0.00055J	mg/L	0.0050		
PA 6020B	Lithium	0.0011J	mg/L	0.030	09/01/20 17:03	
PA 6020B	Selenium	0.0033J	mg/L	0.010		
PA 7470A	Mercury	0.00017J	mg/L	0.00050	09/01/20 10:46	
2492821003	PZ-15		J			
	рН	7.08	Std. Units		09/10/20 09:33	
PA 6020B	Antimony	0.00062J	mg/L	0.0030		В
PA 6020B	Barium	0.053	mg/L	0.010	09/01/20 17:08	
PA 6020B	Lithium	0.0013J	mg/L	0.030	09/01/20 17:08	
PA 6020B	Selenium	0.0018J	mg/L	0.010	09/01/20 17:08	
PA 6020B	Thallium	0.00027J	mg/L	0.0010		
492821004	PZ-16		9. =			
1402021004	pH	7.18	Std. Units		09/10/20 09:33	
PA 6020B	Antimony	0.00037J	mg/L	0.0030	09/01/20 17:14	R
PA 6020B	Barium	0.036	mg/L	0.010	09/01/20 17:14	Ь
PA 6020B	Chromium	0.00087J	mg/L		09/01/20 17:14	
		0.000073	mg/L	0.010	03/01/20 17:14	
492821005	PZ-17	6.00	Ctd Unito		00/40/20 00:22	
DA 0000D	pH	6.98	Std. Units	0.0000	09/10/20 09:33	Б
PA 6020B	Antimony	0.00061J	mg/L		09/01/20 17:20	В
PA 6020B	Barium	0.077	mg/L		09/01/20 17:20	
PA 6020B	Lithium	0.0028J	mg/L		09/01/20 17:20	
PA 6020B	Thallium	0.00025J	mg/L	0.0010	09/01/20 17:20	
2492821006	PZ-19					
	рH	6.68	Std. Units		09/10/20 09:33	
PA 6020B	Barium	0.049	mg/L	0.010	09/01/20 17:46	
PA 6020B	Lithium	0.011J	mg/L	0.030	09/01/20 17:46	
PA 6020B	Molybdenum	0.0020J	mg/L	0.010	09/01/20 17:46	
PA 6020B	Selenium	0.0031J	mg/L	0.010	09/01/20 17:46	
PA 6020B	Thallium	0.00056J	mg/L	0.0010	09/01/20 17:46	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
- Inclined			Office	- Troport Limit	- Thaiyzou	Quamore
92492821006	PZ-19					
EPA 7470A	Mercury	0.00010J	mg/L	0.00050	09/01/20 11:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	08/28/20 20:25	
92492821007	PZ-33					
	рН	6.99	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.051	mg/L	0.010	09/01/20 17:52	
EPA 7470A	Mercury	0.00011J	mg/L	0.00050	09/01/20 11:03	
92492821008	PZ-14					
	рН	6.98	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.016	mg/L	0.010		
EPA 6020B	Chromium	0.0011J	mg/L	0.010	09/01/20 17:57	
EPA 7470A	Mercury	0.00015J	mg/L	0.00050	09/01/20 11:05	
2492821009	PZ-7D					
	рН	7.01	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.00031J	mg/L	0.0030	09/01/20 18:03	В
EPA 6020B	Barium	0.0070J	mg/L	0.010	09/01/20 18:03	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	09/01/20 18:03	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	09/01/20 18:03	
EPA 6020B	Selenium	0.0018J	mg/L	0.010	09/01/20 18:03	
92492821011	PZ-32					
	рН	7.53	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.015	mg/L	0.010		
EPA 6020B	Chromium	0.0010J	mg/L	0.010	09/01/20 18:14	
EPA 6020B	Lead	0.000063J	mg/L	0.0050	09/01/20 18:14	
2492821012	PZ-31					
	рН	7.14	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.0071J	mg/L	0.010	09/01/20 18:20	
EPA 6020B	Chromium	0.0011J	mg/L	0.010	09/01/20 18:20	
EPA 7470A	Mercury	0.00010J	mg/L	0.00050	09/01/20 11:15	
2492821013	PZ-1D					
	рН	7.49	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.0012J	mg/L	0.0030	09/01/20 18:26	В
EPA 6020B	Barium	0.014	mg/L	0.010		
EPA 6020B	Chromium	0.0030J	mg/L		09/01/20 18:26	
EPA 6020B	Lead	0.000065J	mg/L	0.0050		
EPA 6020B EPA 7470A	Molybdenum Mercury	0.0010J 0.000099J	mg/L mg/L	0.010	09/01/20 18:26 09/01/20 11:17	
	•	0.0000333	mg/L	0.00030	55/01/20 11.17	
92492821014	FB-01		_			
EPA 7470A	Mercury	0.000099J	mg/L	0.00050	09/01/20 11:19	
92492821015	PZ-2D + QC					
	рН	7.97	Std. Units		09/10/20 09:33	
EPA 6020B	Antimony	0.00080J	mg/L	0.0030	09/01/20 18:37	В
EPA 6020B	Barium	0.0051J	mg/L	0.010	09/01/20 18:37	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492821015	PZ-2D + QC					
EPA 6020B	Chromium	0.0040J	mg/L	0.010	09/01/20 18:37	
EPA 6020B	Lithium	0.0015J	mg/L	0.030	09/01/20 18:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	08/28/20 23:38	
2492821016	PZ-25					
	рН	7.09	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.10	mg/L	0.010	09/01/20 18:54	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	09/01/20 18:54	
EPA 6020B	Lithium	0.0065J	mg/L	0.030	09/01/20 18:54	
EPA 6020B	Thallium	0.00037J	mg/L	0.0010	09/01/20 18:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	08/29/20 00:23	
2492821017	DUP-01					
	рН	7.09	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.10	mg/L	0.010	09/01/20 19:00	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	09/01/20 19:00	
EPA 6020B	Lithium	0.0062J	mg/L	0.030	09/01/20 19:00	
EPA 6020B	Thallium	0.00036J	mg/L	0.0010	09/01/20 19:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	08/29/20 01:08	
2492821018	PZ-18 + QC					
	рН	6.88	Std. Units		09/10/20 09:33	
EPA 6020B	Barium	0.023	mg/L	0.010	09/01/20 20:39	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	09/01/20 20:39	



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-23A	Lab ID:	92492821001	Collecte	ed: 08/26/20	10:10	Received: 08/	/27/20 09:47 Ma	atrix: Water	
	Report								
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	s - Charlotte)					
рН	6.64	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, C	βA				
Antimony	0.00038J	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 16:40	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 16:40	7440-38-2	
Barium	0.039	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 16:40	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 16:40	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 16:40	7440-43-9	
Chromium	0.0014J	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 16:40	7440-47-3	
Cobalt	0.00058J	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 16:40	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 16:40	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 16:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 16:40	7439-98-7	
Selenium	0.0026J	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 16:40	7782-49-2	
Thallium	0.00016J	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 16:40	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	s - Peachtre	e Corners, C	βA				
Mercury	0.00017J	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 10:37	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	s - Asheville						
Fluoride	0.057J	mg/L	0.10	0.050	1		08/28/20 18:40	16984-48-8	



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: DUP-02	Lab ID:	92492821002	Collecte	ed: 08/26/20	00:00	Received: 08/	/27/20 09:47 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Analy	ytical Services	- Charlotte						
рН	6.64	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A				
Antimony	0.0016J	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:03	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:03	7440-38-2	
Barium	0.037	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:03	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:03	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:03	7440-43-9	
Chromium	0.0013J	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:03	7440-47-3	
Cobalt	0.00055J	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:03	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:03	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:03	7439-98-7	
Selenium	0.0033J	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:03	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A				
Mercury	0.00017J	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 10:46	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Analy	ytical Services	- Asheville						
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 18:55	16984-48-8	



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-15	Lab ID:	92492821003	Collecte	ed: 08/26/20	12:25	Received: 08/	/27/20 09:47 Ma	atrix: Water	
	Report								
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	s - Charlotte	;					
рН	7.08	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	hod: El	PA 3005A			
	Pace Ana	lytical Services	s - Peachtre	e Corners, G	SA .				
Antimony	0.00062J	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:08	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:08	7440-38-2	
Barium	0.053	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:08	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:08	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:08	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:08	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:08	7439-98-7	
Selenium	0.0018J	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:08	7782-49-2	
Thallium	0.00027J	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:08	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	hod: EF	PA 7470A			
	Pace Ana	lytical Services	s - Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 10:48	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	s - Asheville						
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 19:10	16984-48-8	



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-16	Lab ID:	92492821004	Collecte	ed: 08/26/20	14:10	Received: 08	/27/20 09:47 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte	;					
ЭН	7.18	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: Ef	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA				
Antimony	0.00037J	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:14	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:14	7440-38-2	
Barium	0.036	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:14	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:14	7440-43-9	
Chromium	0.00087J	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:14	7440-48-4	
_ead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:14	7439-92-1	
_ithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:14	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:14	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:14	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	'470A Pre _l	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 10:51	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
•	Pace Anal	ytical Services	- Asheville						
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 19:25	16984-48-8	
		-							



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-17	Lab ID:	92492821005	Collecte	ed: 08/26/20	15:45	Received: 08/	/27/20 09:47 Ma	atrix: Water				
	Report											
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual			
Field Data	Analytical	Method:										
	Pace Analytical Services - Charlotte											
рН	6.98	Std. Units			1		09/10/20 09:33					
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: El	PA 3005A						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA							
Antimony	0.00061J	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:20	7440-36-0	В			
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:20	7440-38-2				
Barium	0.077	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:20	7440-39-3				
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:20	7440-41-7				
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:20	7440-43-9				
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:20	7440-47-3				
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:20	7440-48-4				
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:20	7439-92-1				
Lithium	0.0028J	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:20	7439-93-2				
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:20	7439-98-7				
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:20	7782-49-2				
Thallium	0.00025J	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:20	7440-28-0				
7470 Mercury	Analytical	Method: EPA 7	7470A Prej	paration Met	hod: EF	PA 7470A						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA							
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 10:53	7439-97-6				
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993								
	Pace Anal	ytical Services	- Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 19:40	16984-48-8				
		-										



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-19	Lab ID:	92492821006	Collecte	ed: 08/26/20	15:35	Received: 08/	/27/20 09:47 Ma	atrix: Water				
	Report											
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua			
Field Data	Analytical	Method:										
	Pace Analytical Services - Charlotte											
Н	6.68	Std. Units			1		09/10/20 09:33					
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A						
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA							
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:46	7440-36-0				
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:46	7440-38-2				
Barium	0.049	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:46	7440-39-3				
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:46	7440-41-7				
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:46	7440-43-9				
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:46	7440-47-3				
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:46	7440-48-4				
_ead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:46	7439-92-1				
_ithium	0.011J	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:46	7439-93-2				
Molybdenum	0.0020J	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:46	7439-98-7				
Selenium	0.0031J	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:46	7782-49-2				
Thallium Thallium	0.00056J	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:46	7440-28-0				
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	nod: EF	PA 7470A						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA							
Mercury	0.00010J	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:00	7439-97-6				
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993								
•	Pace Anal	ytical Services	- Asheville									
Fluoride	0.062J	mg/L	0.10	0.050	1		08/28/20 20:25	16984-48-8				
		-										



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-33	Lab ID:	92492821007	Collecte	ed: 08/26/20	10:20	Received: 08	/27/20 09:47 Ma	atrix: Water				
	Report											
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua			
Field Data	Analytical	Method:										
	Pace Analytical Services - Charlotte											
рН	6.99	Std. Units			1		09/10/20 09:33					
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: EF	PA 3005A						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA							
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:52	7440-36-0				
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:52	7440-38-2				
Barium	0.051	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:52	7440-39-3				
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:52	7440-41-7				
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:52	7440-43-9				
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:52	7440-47-3				
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:52	7440-48-4				
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:52	7439-92-1				
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:52	7439-93-2				
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:52	7439-98-7				
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:52	7782-49-2				
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:52	7440-28-0				
7470 Mercury	Analytical	Method: EPA 7	7470A Prej	paration Met	hod: EF	PA 7470A						
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA							
Mercury	0.00011J	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:03	7439-97-6				
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993								
-	Pace Anal	ytical Services	- Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 21:39	16984-48-8				



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-14	Lab ID:	92492821008	Collecte	ed: 08/26/20	14:10	Received: 08/	/27/20 09:47 Ma	atrix: Water				
	Report											
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua			
Field Data	Analytical	Method:										
	Pace Analytical Services - Charlotte											
Н	6.98	Std. Units			1		09/10/20 09:33					
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	€A							
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 17:57	7440-36-0				
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 17:57	7440-38-2				
Barium	0.016	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 17:57	7440-39-3				
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 17:57	7440-41-7				
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 17:57	7440-43-9				
Chromium	0.0011J	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 17:57	7440-47-3				
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 17:57	7440-48-4				
_ead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 17:57	7439-92-1				
_ithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 17:57	7439-93-2				
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 17:57	7439-98-7				
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 17:57	7782-49-2				
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 17:57	7440-28-0				
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	A 7470A						
	Pace Ana	lytical Services	- Peachtre	e Corners, C	βA							
Mercury	0.00015J	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:05	7439-97-6				
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993								
	Pace Ana	lytical Services	- Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 21:54	16094 49 9				



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-7D	Lab ID:	92492821009	Collecte	ed: 08/26/20	15:35	Received: 08	/27/20 09:47 Ma	atrix: Water	
	Report								
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte)					
ЭΗ	7.01	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA				
Antimony	0.00031J	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:03	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:03	7440-38-2	
Barium	0.0070J	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:03	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:03	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:03	7440-43-9	
Chromium	0.0011J	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:03	7440-48-4	
_ead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:03	7439-92-1	
_ithium	0.0023J	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:03	7439-98-7	
Selenium	0.0018J	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:03	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:03	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	nod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:07	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	- Asheville						
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 22:09	16984-48-8	



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: EB-01	Lab ID:	92492821010	Collecte	ed: 08/25/20	14:45	Received: 08/	27/20 09:47 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:09	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:09	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:09	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:09	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:09	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:09	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:09	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	'470A Pre	paration Met	hod: EF	PA 7470A			
-	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:10	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
•	Pace Anal	ytical Services	- Asheville	:					
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 22:24	16984-48-8	



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-32	Lab ID:	92492821011	Collecte	ed: 08/25/20	14:55	Received: 08	/27/20 09:47 Ma	atrix: Water				
	Report											
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua			
Field Data	Analytical	Method:										
	Pace Analytical Services - Charlotte											
Н	7.53	Std. Units			1		09/10/20 09:33					
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: EF	PA 3005A						
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA							
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:14	7440-36-0				
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:14	7440-38-2				
Barium	0.015	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:14	7440-39-3				
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:14	7440-41-7				
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:14	7440-43-9				
Chromium	0.0010J	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:14	7440-47-3				
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:14	7440-48-4				
_ead	0.000063J	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:14	7439-92-1				
ithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:14	7439-93-2				
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:14	7439-98-7				
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:14	7782-49-2				
⁻ hallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:14	7440-28-0				
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	nod: EF	PA 7470A						
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA							
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:12	7439-97-6				
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993								
-	Pace Anal	ytical Services	- Asheville									
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 22:39	16984-48-8				
		=										



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-31	Lab ID:	92492821012	Collecte	ed: 08/25/20	16:15	Received: 08/	/27/20 09:47 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical I	Method:							
	Pace Analy	tical Services	- Charlotte)					
рН	7.14	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical I	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, G	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:20	7440-38-2	
Barium	0.0071J	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:20	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:20	7440-43-9	
Chromium	0.0011J	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:20	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:20	7440-28-0	
7470 Mercury	Analytical I	Method: EPA 7	470A Prej	paration Met	nod: EF	PA 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	βA				
Mercury	0.00010J	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:15	7439-97-6	
300.0 IC Anions 28 Days	Analytical I	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Analy	tical Services	- Asheville						
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 22:54	16984-48-8	



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-1D	Lab ID:	92492821013	Collecte	ed: 08/25/20	16:05	Received: 08/	/27/20 09:47 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Analy	ytical Services	- Charlotte						
рН	7.49	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A				
Antimony	0.0012J	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:26	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:26	7440-38-2	
Barium	0.014	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:26	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:26	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:26	7440-43-9	
Chromium	0.0030J	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:26	7440-48-4	
Lead	0.000065J	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:26	7439-93-2	
Molybdenum	0.0010J	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:26	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:26	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prep	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A				
Mercury	0.000099J	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:17	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
	Pace Analy	ytical Services	- Asheville						
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 23:09	16984-48-8	



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: FB-01	Lab ID:	92492821014	Collecte	ed: 08/26/20	08:40	Received: 08/	27/20 09:47 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical I	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Analy	tical Services	- Peachtre	ee Corners, G	S A				
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:32	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:32	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:32	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:32	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:32	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:32	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:32	7440-28-0	
7470 Mercury	Analytical I	Method: EPA 7	'470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, G	SA.				
Mercury	0.000099J	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:19	7439-97-6	
300.0 IC Anions 28 Days	Analytical I	Method: EPA 3	300.0 Rev 2	2.1 1993					
•		tical Services							
Fluoride	ND	mg/L	0.10	0.050	1		08/28/20 23:23	16984-48-8	



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-2D + QC	Lab ID:	92492821015	Collecte	ed: 08/26/20	10:52	Received: 08	/27/20 09:47 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte)					
ЭН	7.97	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Antimony	0.00080J	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:37	7440-36-0	В
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:37	7440-38-2	
Barium	0.0051J	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:37	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:37	7440-43-9	
Chromium	0.0040J	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:37	7440-48-4	
₋ead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:37	7439-92-1	
_ithium	0.0015J	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:37	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:37	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:37	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	'470A Pre _l	paration Met	nod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:26	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	- Asheville						
Fluoride	0.057J	mg/L	0.10	0.050	1		08/28/20 23:38	16984-48-8	



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-25	Lab ID:	92492821016	Collecte	ed: 08/26/20	13:50	Received: 08	/27/20 09:47 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte)					
Н	7.09	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 18:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 18:54	7440-38-2	
Barium	0.10	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 18:54	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 18:54	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 18:54	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 18:54	7440-47-3	
Cobalt	0.0016J	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 18:54	7440-48-4	
₋ead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 18:54	7439-92-1	
_ithium	0.0065J	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 18:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 18:54	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 18:54	7782-49-2	
Γhallium	0.00037J	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 18:54	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Prej	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	SA.				
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:29	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Anal	ytical Services	- Asheville						
Fluoride	0.14	mg/L	0.10	0.050	1		08/29/20 00:23	16984-48-8	
		-							



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: DUP-01	Lab ID:	92492821017	Collecte	ed: 08/26/20	00:00	Received: 08	/27/20 09:47 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL .	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte	;					
Н	7.09	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA				
Antimony	ND	mg/L	0.0030	0.00028	1	08/28/20 11:31	09/01/20 19:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	08/28/20 11:31	09/01/20 19:00	7440-38-2	
Barium	0.10	mg/L	0.010	0.00071	1	08/28/20 11:31	09/01/20 19:00	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	08/28/20 11:31	09/01/20 19:00	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	08/28/20 11:31	09/01/20 19:00	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	08/28/20 11:31	09/01/20 19:00	7440-47-3	
Cobalt	0.0015J	mg/L	0.0050	0.00038	1	08/28/20 11:31	09/01/20 19:00	7440-48-4	
₋ead	ND	mg/L	0.0050	0.000036	1	08/28/20 11:31	09/01/20 19:00	7439-92-1	
_ithium	0.0062J	mg/L	0.030	0.00081	1	08/28/20 11:31	09/01/20 19:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	08/28/20 11:31	09/01/20 19:00	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	08/28/20 11:31	09/01/20 19:00	7782-49-2	
Thallium Thallium	0.00036J	mg/L	0.0010	0.00014	1	08/28/20 11:31	09/01/20 19:00	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prej	paration Met	nod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, G	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:31	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	2.1 1993					
·	Pace Anal	ytical Services	- Asheville						
Fluoride	0.14	mg/L	0.10	0.050	1		08/29/20 01:08	16984-48-8	
		-							



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Sample: PZ-18 + QC	Lab ID:	92492821018	Collecte	ed: 08/27/20	10:05	Received: 08/	/28/20 11:08 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Anal	ytical Services	- Charlotte)					
ЭΗ	6.88	Std. Units			1		09/10/20 09:33		
6020 MET ICPMS	Analytical	Method: EPA 6	020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	€A				
Antimony	ND	mg/L	0.0030	0.00028	1	09/01/20 14:03	09/01/20 20:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/01/20 14:03	09/01/20 20:39	7440-38-2	
Barium	0.023	mg/L	0.010	0.00071	1	09/01/20 14:03	09/01/20 20:39	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/01/20 14:03	09/02/20 17:27	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/01/20 14:03	09/01/20 20:39	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/01/20 14:03	09/01/20 20:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/01/20 14:03	09/01/20 20:39	7440-48-4	
₋ead	ND	mg/L	0.0050	0.000036	1	09/01/20 14:03	09/01/20 20:39	7439-92-1	
_ithium	0.0025J	mg/L	0.030	0.00081	1	09/01/20 14:03	09/01/20 20:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/01/20 14:03	09/01/20 20:39	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/01/20 14:03	09/01/20 20:39	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00014	1	09/01/20 14:03	09/01/20 20:39	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Anal	ytical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	08/31/20 11:00	09/01/20 11:34	7439-97-6	
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	2.1 1993					
•	Pace Anal	ytical Services	- Asheville						
Fluoride	ND	mg/L	0.10	0.050	1		08/29/20 19:27	16984-48-8	
		-							



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

QC Batch: 563083 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005, 92492821006, 92492821007,

 $92492821008, \, 92492821009, \, 92492821010, \, 92492821011, \, 92492821012, \, 92492821013, \, 92492821014, \, 9249$

92492821015, 92492821016, 92492821017

METHOD BLANK: 2985842 Matrix: Water

Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005, 92492821006, 92492821007,

92492821008, 92492821009, 92492821010, 92492821011, 92492821012, 92492821013, 92492821014,

92492821015, 92492821016, 92492821017

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00043J	0.0030	0.00028	09/01/20 16:28	
Arsenic	mg/L	ND	0.0050	0.00078	09/01/20 16:28	
Barium	mg/L	ND	0.010	0.00071	09/01/20 16:28	
Beryllium	mg/L	ND	0.0030	0.000046	09/01/20 16:28	
Cadmium	mg/L	ND	0.0025	0.00012	09/01/20 16:28	
Chromium	mg/L	ND	0.010	0.00055	09/01/20 16:28	
Cobalt	mg/L	ND	0.0050	0.00038	09/01/20 16:28	
Lead	mg/L	ND	0.0050	0.000036	09/01/20 16:28	
Lithium	mg/L	ND	0.030	0.00081	09/01/20 16:28	
Molybdenum	mg/L	ND	0.010	0.00069	09/01/20 16:28	
Selenium	mg/L	ND	0.010	0.0016	09/01/20 16:28	
Thallium	mg/L	ND	0.0010	0.00014	09/01/20 16:28	

LABORATORY CONTROL SAMPLE:	2985843					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.090	90	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Cadmium	mg/L	0.1	0.094	94	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.092	92	80-120	
Lead	mg/L	0.1	0.093	93	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Selenium	mg/L	0.1	0.089	89	80-120	
Thallium	mg/L	0.1	0.093	93	80-120	

MATRIX SPIKE & MATRIX SF	PIKE DUPL	ICATE: 2985	844		2985845							
			MS	MSD								
		92492821001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	0.00038J	0.1	0.1	0.096	0.095	96	95	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.



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

MATRIX SPIKE & MATRIX	SPIKE DUPLI	ICATE: 2985	844		2985845							
Parameter	Units	92492821001 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	0.092	0.095	92	95	75-125	3	20	
Barium	mg/L	0.039	0.1	0.1	0.13	0.13	90	89	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.087	0.086	87	86	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	
Chromium	mg/L	0.0014J	0.1	0.1	0.093	0.094	92	93	75-125	1	20	
Cobalt	mg/L	0.00058J	0.1	0.1	0.090	0.092	89	92	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.087	0.089	87	89	75-125	2	20	
Lithium	mg/L	0.0011J	0.1	0.1	0.089	0.088	87	87	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.096	96	95	75-125	1	20	
Selenium	mg/L	0.0026J	0.1	0.1	0.097	0.099	95	96	75-125	2	20	
Thallium	mg/L	0.00016J	0.1	0.1	0.088	0.090	88	90	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.



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

QC Batch: 563747 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92492821018

METHOD BLANK: 2988642 Matrix: Water

Associated Lab Samples: 92492821018

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	09/01/20 19:19	
Arsenic	mg/L	ND	0.0050	0.00078	09/01/20 19:19	
Barium	mg/L	ND	0.010	0.00071	09/01/20 19:19	
Beryllium	mg/L	ND	0.0030	0.000046	09/02/20 16:41	
Cadmium	mg/L	ND	0.0025	0.00012	09/01/20 19:19	
Chromium	mg/L	ND	0.010	0.00055	09/01/20 19:19	
Cobalt	mg/L	ND	0.0050	0.00038	09/01/20 19:19	
Lead	mg/L	ND	0.0050	0.000036	09/01/20 19:19	
Lithium	mg/L	ND	0.030	0.00081	09/01/20 19:19	
Molybdenum	mg/L	ND	0.010	0.00069	09/01/20 19:19	
Selenium	mg/L	ND	0.010	0.0016	09/01/20 19:19	
Thallium	mg/L	ND	0.0010	0.00014	09/01/20 19:19	

LABORATORY CONTROL SAMPLE:	2988643					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.10	101	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.092	92	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	0.097	97	80-120	
.ead	mg/L	0.1	0.098	98	80-120	
ithium	mg/L	0.1	0.092	92	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Гhallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SP	PIKE DUPLI	CATE: 2988	644		2988645							
		92492563004	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.095	100	95	75-125	5	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.093	99	92	75-125	7	20	
Barium	mg/L	0.056	0.1	0.1	0.15	0.15	93	90	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.091	0.089	91	89	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.



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

MATRIX SPIKE & MATRIX	SPIKE DUPI	LICATE: 2988	•	MOD	2988645							
Parameter	Units	92492563004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	ND	0.1	0.1	0.097	0.094	97	94	75-125	3	20	
Chromium	mg/L	0.00098J	0.1	0.1	0.098	0.10	97	100	75-125	3	20	
Cobalt	mg/L	0.00061J	0.1	0.1	0.097	0.098	97	97	75-125	1	20	
Lead	mg/L	0.00036J	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Lithium	mg/L	0.0028J	0.1	0.1	0.092	0.091	89	88	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.093	98	92	75-125	7	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	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.



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

QC Batch: 563371 Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005, 92492821006, 92492821007,

92492821008, 92492821009, 92492821010, 92492821011, 92492821012, 92492821013, 92492821014,

92492821015, 92492821016, 92492821017, 92492821018

METHOD BLANK: 2987108 Matrix: Water

Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005, 92492821006, 92492821007,

92492821008, 92492821009, 92492821010, 92492821011, 92492821012, 92492821013, 92492821014,

92492821015, 92492821016, 92492821017, 92492821018

 Parameter
 Units
 Blank Reporting Result
 Reporting Limit
 MDL
 Analyzed
 Qualifiers

 Mercury
 mg/L
 ND
 0.00050
 0.000078
 09/01/20 10:32

LABORATORY CONTROL SAMPLE: 2987109

Date: 09/10/2020 09:34 AM

Spike LCS LCS % Rec % Rec Parameter Units Conc. Result Limits Qualifiers Mercury mg/L 0.0025 0.0023 93 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2987110 2987111

MS MSD 92492821001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits **RPD** RPD Qual Mercury 0.00017J 0.0025 0.0025 0.0026 0.0025 95 75-125 20 mg/L 95

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.

Qualifiers



QUALITY CONTROL DATA

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

QC Batch: 563041 Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005

METHOD BLANK: 2985598 Matrix: Water

Associated Lab Samples: 92492821001, 92492821002, 92492821003, 92492821004, 92492821005

Blank Reporting
Parameter Units Result Limit MDL Analyzed

Fluoride mg/L ND 0.10 0.050 08/28/20 12:28

LABORATORY CONTROL SAMPLE: 2985599

Spike LCS LCS % Rec Conc. Limits Qualifiers Parameter Units Result % Rec Fluoride 2.5 2.6 104 90-110 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985600 2985601

MSD MS 92492850001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Result **RPD** RPD Result Conc. Conc. % Rec % Rec Limits Qual Fluoride mg/L 0.95 2.5 2.5 3.7 3.7 109 109 90-110 0 10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985602 2985603

MS MSD 92492705011 MS MSD MS MSD % Rec Spike Spike Max RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD Qual Fluoride 2.5 2.7 ND 2.5 2.8 108 109 10 mg/L 90-110

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.



Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

QC Batch: 563042 Analysis Method: EPA 300.0 Rev 2.1 1993

QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions

Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92492821006, 92492821007, 92492821008, 92492821009, 92492821010, 92492821011, 92492821012,

92492821013, 92492821014, 92492821015, 92492821016, 92492821017

METHOD BLANK: 2985604 Matrix: Water

Associated Lab Samples: 92492821006, 92492821007, 92492821008, 92492821009, 92492821010, 92492821011, 92492821012,

92492821013, 92492821014, 92492821015, 92492821016, 92492821017

ParameterUnitsBlank Reporting ResultReporting LimitMDLAnalyzedQualifiersFluoridemg/LND0.100.05008/28/20 19:55

LABORATORY CONTROL SAMPLE: 2985605

LCS LCS % Rec Spike Result Limits Parameter Units Conc. % Rec Qualifiers Fluoride mg/L 2.5 2.7 107 90-110

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985606 2985607 MSD MS 92492821006 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits RPD RPD Qual Fluoride 0.062J 2.5 2.5 2.7 2.7 105 106 90-110 10 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2985608 2985609 MS MSD MSD MSD 92492821016 Spike Spike MS MS % Rec Max Parameter Conc. Conc. Result % Rec % Rec **RPD** RPD Units Result Result Limits Qual Fluoride 0.14 2.5 2.5 2.8 2.8 106 106 90-110 0 10 mg/L

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.

Qualifiers



QUALITY CONTROL DATA

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

QC Batch: 563290

QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Method:

EPA 300.0 Rev 2.1 1993

MDL

300.0 IC Anions

Analysis Description: Laboratory:

Pace Analytical Services - Asheville

Analyzed

Associated Lab Samples: 92492821018

METHOD BLANK:

Date: 09/10/2020 09:34 AM

Matrix: Water

Associated Lab Samples: 92492821018

Blank

Reporting Parameter Units Result Limit

Fluoride ND 0.10 0.050 08/29/20 14:28 mg/L

LABORATORY CONTROL SAMPLE: 2986802

> Spike LCS LCS % Rec Conc. Result % Rec Limits Qualifiers Parameter Units

Fluoride 2.5 2.6 105 90-110 mg/L

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986803 2986804

> MSD MS

92493054001 Spike Spike MS MSD MS MSD % Rec Max Parameter Units Conc. Conc. Result Result % Rec **RPD** RPD Result % Rec Limits Qual Fluoride mg/L 0.14 2.5 2.5 2.8 2.8 105 106 90-110 10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2986805 2986806

MS MSD 92492705017 MS MSD MS MSD % Rec Spike Spike Max RPD RPD Parameter Units Result Conc. Conc. Result Result % Rec % Rec Limits Qual Fluoride 2.5 0.15 2.5 2.8 2.8 105 107 10 mg/L 90-110

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.



QUALIFIERS

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 09/10/2020 09:34 AM

B Analyte was detected in the associated method blank.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
2492821001	PZ-23A			_	
2492821002	DUP-02				
2492821003	PZ-15				
2492821004	PZ-16				
2492821005	PZ-17				
492821006	PZ-19				
492821007	PZ-33				
492821008	PZ-14				
492821009	PZ-7D				
492821011	PZ-32				
492821012	PZ-31				
492821013	PZ-1D				
492821015	PZ-2D + QC				
492821016	PZ-25				
492821017	DUP-01				
492821018	PZ-18 + QC				
2492821001	PZ-23A	EPA 3005A	563083	EPA 6020B	563099
492821002	DUP-02	EPA 3005A	563083	EPA 6020B	563099
492821003	PZ-15	EPA 3005A	563083	EPA 6020B	563099
492821004	PZ-16	EPA 3005A	563083	EPA 6020B	563099
492821005	PZ-17	EPA 3005A	563083	EPA 6020B	563099
492821006	PZ-19	EPA 3005A	563083	EPA 6020B	563099
492821007	PZ-33	EPA 3005A	563083	EPA 6020B	563099
492821008	PZ-14	EPA 3005A	563083	EPA 6020B	563099
492821009	PZ-7D	EPA 3005A	563083	EPA 6020B	563099
492821010	EB-01	EPA 3005A	563083	EPA 6020B	563099
492821011	PZ-32	EPA 3005A	563083	EPA 6020B	563099
492821012	PZ-31	EPA 3005A	563083	EPA 6020B	563099
492821013	PZ-1D	EPA 3005A	563083	EPA 6020B	563099
492821014	FB-01	EPA 3005A	563083	EPA 6020B	563099
492821015	PZ-2D + QC	EPA 3005A	563083	EPA 6020B	563099
492821016	PZ-25	EPA 3005A	563083	EPA 6020B	563099
492821017	DUP-01	EPA 3005A	563083	EPA 6020B	563099
2492821018	PZ-18 + QC	EPA 3005A	563747	EPA 6020B	563831
492821001	PZ-23A	EPA 7470A	563371	EPA 7470A	563653
492821002	DUP-02	EPA 7470A	563371	EPA 7470A	563653
492821003	PZ-15	EPA 7470A	563371	EPA 7470A	563653
492821004	PZ-16	EPA 7470A	563371	EPA 7470A	563653
492821005	PZ-17	EPA 7470A	563371	EPA 7470A	563653
492821006	PZ-19	EPA 7470A	563371	EPA 7470A	563653
492821007	PZ-33	EPA 7470A	563371	EPA 7470A	563653
492821008	PZ-14	EPA 7470A	563371	EPA 7470A	563653
492821009	PZ-7D	EPA 7470A	563371	EPA 7470A	563653
492821010	EB-01	EPA 7470A	563371	EPA 7470A	563653
492821011	PZ-32	EPA 7470A	563371	EPA 7470A	563653
492821012	PZ-31	EPA 7470A	563371	EPA 7470A	563653
492821013	PZ-1D	EPA 7470A	563371	EPA 7470A	563653



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL APP IV SCAN

Pace Project No.: 92492821

Date: 09/10/2020 09:34 AM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92492821014	FB-01	EPA 7470A	563371	EPA 7470A	563653
92492821015	PZ-2D + QC	EPA 7470A	563371	EPA 7470A	563653
92492821016	PZ-25	EPA 7470A	563371	EPA 7470A	563653
92492821017	DUP-01	EPA 7470A	563371	EPA 7470A	563653
92492821018	PZ-18 + QC	EPA 7470A	563371	EPA 7470A	563653
92492821001	PZ-23A	EPA 300.0 Rev 2.1 1993	563041		
92492821002	DUP-02	EPA 300.0 Rev 2.1 1993	563041		
92492821003	PZ-15	EPA 300.0 Rev 2.1 1993	563041		
92492821004	PZ-16	EPA 300.0 Rev 2.1 1993	563041		
92492821005	PZ-17	EPA 300.0 Rev 2.1 1993	563041		
92492821006	PZ-19	EPA 300.0 Rev 2.1 1993	563042		
92492821007	PZ-33	EPA 300.0 Rev 2.1 1993	563042		
92492821008	PZ-14	EPA 300.0 Rev 2.1 1993	563042		
92492821009	PZ-7D	EPA 300.0 Rev 2.1 1993	563042		
92492821010	EB-01	EPA 300.0 Rev 2.1 1993	563042		
92492821011	PZ-32	EPA 300.0 Rev 2.1 1993	563042		
92492821012	PZ-31	EPA 300.0 Rev 2.1 1993	563042		
92492821013	PZ-1D	EPA 300.0 Rev 2.1 1993	563042		
92492821014	FB-01	EPA 300.0 Rev 2.1 1993	563042		
92492821015	PZ-2D + QC	EPA 300.0 Rev 2.1 1993	563042		
92492821016	PZ-25	EPA 300.0 Rev 2.1 1993	563042		
92492821017	DUP-01	EPA 300.0 Rev 2.1 1993	563042		
92492821018	PZ-18 + QC	EPA 300.0 Rev 2.1 1993	563290		

. Pace Analytical Client Nar	111)	MO# . 92492821
1	ne:	ower	
	· . □-		92492821
Courler: Ted Ex UPS USPS USPS (Facking #: 8) 1 5 34 1 1915		1 Pro 1	Proj. Due Date:
The state of the s	2 - "	1890 § 2 s intact: □ ye	Proj. Name:
	/	_	872193944904
	oble Bags De None	Other _	
hermometer Used	Type of Ice: Wel		Date and Initials of person examinin
cooler Temperature \(\frac{1}{2}\) \(\frac{5}{6}\) \(\frac{3}{2}\) \(\frac{1}{2}\) \(\frac{1}{	21) Biological Tissue	Comments:	No contents: 2/2 7/20(8)
hain of Custody Present:	☐Yes ☐No ☐N/A		
Chain of Custody Filled Out:	PYes ONO ONIA		
Chain of Custody Relinquished:	Dres DNo DNA		
Sampler Name & Signature on COC:	Dres DNo DNA		
Samples Arrived within Hold Time:	Byes DNo DN/A	5.	
Short Hold Time Analysis (<72hr):	□Yes ĐNO □N/A		
Rush Turn Around Time Requested:	DYes CAO ONIA		
sufficient Volume:	EYES ONO ON/A		
forrect Containers Used:	Gres Ono ON/A		
-Pace Containers Used:	Dyes DNO DNIA		
ontainers Intact:	Dyes DNo DNIA	10.	
iltered volume received for Dissolved tests	□Yes □No □MA	7	
ample Labels match COC:	ETES DNO DNIA	12.	-
-Includes date/time/ID/Analysis Matrix:_	11/		
containers needing preservation have been checked.	ØYes □No □N/A	13.	
Il containers needing preservation are found to be in	Yes DNo DN/A	628	
ompliance with EPA recommendation.	PYES LING LINIA		
cceptions: VOA, colliform, TOC, O&G, WI-DRO (water)	□Yes QNo	Initial when completed	Lot # of added preservative
amples checked for dechlorination:	□Yes □No ⊠NÃ	14.	
	□Yes □No □NIA	15.	
leadspace in VOA Vials (>6mm):	□Yes □No □N/A	16.	
leadspace in VOA Vials (>6mm): rip Blank Present:		16.	
leadspace in VOA Vials (>6mm): rip Blank Present: rip Blank Custody Seals Present	OYES ONO ONIA	16.	
leadspace in VOA Vials (>6mm): rip Blank Present: rip Blank Custody Seals Present ace Trip Blank Lot # (if purchased):		16.	Sield Date County 12
leadspace in VOA Vials (>6mm): rip Blank Present: rip Blank Custody Seals Present race Trip Blank Lot # (if purchased): Ellent Notification/ Resolution: Person Contacted:	□Yes □No ☑N/A		Field Data Required? Y / N

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

ace Analytical

Document Name: Bottle Identification Form (BIF)

Document No.: F-CAR-CS-043-Rev.00 Document Issued: March 14, 2019 Page 1 of 1

Issuing Authority:

*Check mark top half of box if pH and/or dechlorination is

verified and within the acceptance range for preservation

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

Project #

Due Date: 09/11/20

CLIENT: GA-GA Power

	ttem#	BP4U-125 mL Plastic Unpreserved (1974)	8P3U-250 ml. Plastic Unpreserved (N/A)	REZU-S00 mL Plaide Unpreserved (N/A)	BPIU-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H25O4 (pH < 2) (G-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plestic NaOH (pH > 12) (G-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (G-)	AG1H-1 luer Amber HCI (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Ci-)	AG15-1 liter Amber H2SO4 (pH < 2)	. AG35-250 mL Amber H2504 (pH < 2)	AG3A[DG3A]-250 mL Amber NH4CI (N/A)(CI-)	DG9H-40 mL YOA HGI (N/A)	VG9T-40 mL VOA Na25203 (N/A)	VG9U-40 mt VOA Unp (N/A)	DG9P-40.mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Stenle Plastic (N/A - lab)	Sp2T-250 mL Sterile Plagic, (N/A - lab)	+	1	AGOU-100 mt. Amber Unpreserved viais (ry cy	(N/A) view view (N/A)
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pH Adjustment Log for Preserved Samples Amount of Preservative Time preservation Date preservation adjusted added pH upon receipt Type of Preservative adjusted Sample ID Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification C Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace Analytical .

Document Name:

Bottle Identification Form (BIF)

Document No.: F-CAR-CS-043-Rev.00 Document Issued: March 14, 2019 Page 1 of 1

Issuing Authority: Pace Carolinas Quality Office

Project #

Due Date: 09/11/20

CLIENT: GA-GA Power

*Checkgnark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation

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

Items	BP4U-125 mL Plastic Unpreserved (N/A) (G-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2504 (pH < 2) (G-)	893N-250 mt plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (G-)	wiGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (G-)	AG1H-1 liter Amber HCI (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Ci-)	AG15-1 liter Amber H2SO4 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	AGSA[DG3A]-250 mL Amber NH4G (N/A)(C)	DESH40 mt YOA HCI (N/A)	V69T-40 mL VOA N225203 (N/A)	VG9U-40 mt VOA Unp (N/A)	069P-40 mt VOA H3PO4 (N/A)	VOAK (6 visis per ldt)-5035 kit (N/A)	V/GK (3 viels per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	cp27-250 mt Sterile Plastic, (N/A - lab)	SPIN	BPSA-250 ML Plastic (NH2)2504 (9.3-9.7)	AGDU-100 mL Amber Unpreserved vials (N/A)
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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be complete

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quired Client Information: "Poarly: Georgia Power Iress. 1075 8 g Shanity Road Tresaw, GA 30144 fronds quinn@amec.com (770H21-3516 Fax SAMPLE ID Sample ids must be unique 61-Zd PZ-33 PZ-14 PZ-7D MARTRACE WARRY Required Project Information: Report To: Rhonda Oulin Copy To: Purchase Order #: Project Name: RELINOURISED BY I AFFILM THOM 0000 0000 MATRIX CCDE (see velid codes to left) How Wwall SAMPLE TYPE (G-GRAS C+COMP) Milianell App IV Scan START SAMPLER NAME AND BIGHATURE COLLECTED SIGNATURE OF SAMPLES PRINT Name of SAMPLER: 8/24/1535 CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT, All relevant fields must be completed accurately. END 3/24/20 1535 14014 10204 DATE + 4 SAMPLE TEVP AT COLLECTION Altention: Altention: Company Name Address: Page Quote. # OF CONTANERS Pace Project Manager: Pace Profile #: 1083 1800 Section C H ania Unpreserved H2SO4 www HNO3 HCI Aur D 10834 Howard NaOH ACCEPTED BY / AFFELATION Na25203 kevin.heming@pacelabs.com Metriance Other shirt -Analyses Test Y/N XXX X X X 303.0 - F DATE Signed: 8)26 App IV Metals RAD 9315/9320 81218 3LYO 120 716 Page: TEMP In C Regulatory Agency Residual Chlorine (Y/N) 9 86.9=Ho Received on SAMPLE CONDITIONS 04:6.68 pH=7,01 いめいちょう Ceol (VIN) Custody Sealed D Cooler D (Y/N) Q Samples IntactC (Y/N)

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed.

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September 16, 2020

Michelle Barker WOOD E&I 1075 Big Shanty Rd Suite 100 Kennesaw, GA 30144

RE: Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between August 27, 2020 and August 28, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

• Pace Analytical Services - Greensburg

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

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com

Ken Lung

1(704)875-9092

HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR Kristen Jurinko Ms. Lauren Petty, Southern Co. Services Rhonda Quinn, WOOD E&I Greg Wrenn, WOOD E&I





CERTIFICATIONS

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590 Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA Colorado Certification #: PA01547 Connecticut Certification #: PH-0694

Delaware Certification EPA Region 4 DW Rad

Florida/TNI Certification #: E87683 Georgia Certification #: C040 Florida: Cert E871149 SEKS WET

Guam Certification Hawaii Certification Idaho Certification Illinois Certification Indiana Certification Iowa Certification #: 391

Kansas/TNI Certification #: E-10358 Kentucky Certification #: KY90133 KY WW Permit #: KY0098221 KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012 Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020 Maryland Certification #: 308

Massachusetts Certification #: M-PA1457 Michigan/PADEP Certification #: 9991 Montana Certification #: Cert0082 Nebraska Certification #: NE-OS-29-14 Nevada Certification #: PA014572018-1 New Hampshire/TNI Certification #: 297617 New Jersey/TNI Certification #: PA051

New Jersey/TNI Certification #: PA05 New Mexico Certification #: PA01457 New York/TNI Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: R-190 Ohio EPA Rad Approval: #41249

Missouri Certification #: 235

Oregon/TNI Certification #: PA200002-010 Pennsylvania/TNI Certification #: 65-00282 Puerto Rico Certification #: PA01457 Rhode Island Certification #: 65-00282

Texas/TNI Certification #: T104704188-17-3

South Dakota Certification
Tennessee Certification #: 02867

Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad Wyoming Certification #: 8TMS-L



SAMPLE SUMMARY

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92492815001	PZ-23A	Water	08/26/20 10:10	08/27/20 09:47
92492815002	DUP-02	Water	08/26/20 00:00	08/27/20 09:47
92492815003	PZ-15	Water	08/26/20 12:25	08/27/20 09:47
92492815004	PZ-16	Water	08/26/20 14:10	08/27/20 09:47
92492815005	PZ-17	Water	08/26/20 15:45	08/27/20 09:47
92492815006	PZ-19	Water	08/26/20 15:35	08/27/20 09:47
92492815007	PZ-33	Water	08/26/20 10:20	08/27/20 09:47
92492815008	PZ-14	Water	08/26/20 14:10	08/27/20 09:47
92492815009	PZ-7D	Water	08/26/20 15:35	08/27/20 09:47
92492815010	EB-01	Water	08/25/20 14:45	08/27/20 09:47
92492815011	PZ-32	Water	08/25/20 14:55	08/27/20 09:47
92492815012	PZ-31	Water	08/25/20 16:15	08/27/20 09:47
92492815013	PZ-1D	Water	08/25/20 16:05	08/27/20 09:47
92492815014	FB-01	Water	08/26/20 08:40	08/27/20 09:47
92492815015	PZ-2D + QC	Water	08/26/20 10:52	08/27/20 09:47
92492815016	PZ-25	Water	08/26/20 13:50	08/27/20 09:47
92492815017	DUP-01	Water	08/26/20 00:00	08/27/20 09:47
92492815018	PZ-18 + QC	Water	08/27/20 10:05	08/28/20 11:08



SAMPLE ANALYTE COUNT

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92492815001	PZ-23A	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815002	DUP-02	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815003	PZ-15	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815004	PZ-16	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815005	PZ-17	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815006	PZ-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815007	PZ-33	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815008	PZ-14	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815009	PZ-7D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815010	EB-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815011	PZ-32	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815012	PZ-31	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815013	PZ-1D	EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815014	FB-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815015	PZ-2D + QC	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815016	PZ-25	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815017	DUP-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92492815018	PZ-18 + QC	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result	Units	Report Limit	Analyzed	Qualifiers
2492815001	PZ-23A					
EPA 9315	Radium-226	0.365 ± 0.257 (0.392)	pCi/L	C	09/10/20 07:38	
EPA 9320	Radium-228	C:83% T:NA 0.409 ± 0.387 (0.789) C:71%	pCi/L	C	09/11/20 14:48	
Total Radium Calculation	Total Radium	T:80% 0.774 ± 0.644 (1.18)	pCi/L	C	09/14/20 14:03	
2492815002	DUP-02					
EPA 9315	Radium-226	0.214 ± 0.222 (0.423) C:83% T:NA	pCi/L	(09/10/20 07:38	
EPA 9320	Radium-228	0.338 ± 0.350 (0.722) C:71%	pCi/L	C	09/11/20 14:48	
Total Radium Calculation	Total Radium	T:86% 0.552 ± 0.572 (1.15)	pCi/L	C	09/14/20 14:03	
2492815003	PZ-15	,				
EPA 9315	Radium-226	0.161 ± 0.250 (0.554) C:91% T:NA	pCi/L	C	09/10/20 07:38	
EPA 9320	Radium-228	0.520 ± 0.384 (0.740) C:69% T:85%	pCi/L	C	09/11/20 14:49	
Total Radium Calculation	Total Radium	0.681 ± 0.634 (1.29)	pCi/L	C	09/14/20 14:03	
2492815004	PZ-16					
EPA 9315	Radium-226	0.0680 ± 0.181 (0.439) C:88% T:NA	pCi/L	C	09/10/20 07:38	
EPA 9320	Radium-228	0.431 ± 0.407 (0.834) C:74% T:82%	pCi/L	C	09/11/20 14:49	
Total Radium Calculation	Total Radium	0.499 ± 0.588 (1.27)	pCi/L	C	09/14/20 14:03	

REPORT OF LABORATORY ANALYSIS



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492815005	PZ-17					
EPA 9315	Radium-226	0.411 ± 0.274 (0.410)	pCi/L		09/10/20 07:38	
		(0.410) C:82% T:NA				
EPA 9320	Radium-228	1.21 ± 0.537 (0.885) C:72%	pCi/L		09/11/20 14:49	
Total Radium Calculation	Total Radium	T:77% 1.62 ± 0.811 (1.30)	pCi/L		09/14/20 14:03	
2492815006	PZ-19	(1.00)				
EPA 9315	Radium-226	0.324 ±	pCi/L		09/10/20 07:38	
		0.236	F = " =			
		(0.365) C:87% T:NA				
EPA 9320	Radium-228	0.379 ±	pCi/L		09/11/20 14:49	
		0.409 (0.854) C:70% T:88%				
Total Radium Calculation	Total Radium	0.703 ± 0.645 (1.22)	pCi/L		09/14/20 14:03	
2492815007	PZ-33	()				
EPA 9315	Radium-226	0.400 ±	pCi/L		09/10/20 07:32	
		0.285 (0.445) C:81% T:NA	F = " =			
EPA 9320	Radium-228	0.382 ± 0.411 (0.856) C:69% T:80%	pCi/L		09/11/20 14:49	
Total Radium Calculation	Total Radium	0.782 ± 0.696 (1.30)	pCi/L		09/14/20 14:18	
2492815008	PZ-14	,				
EPA 9315	Radium-226	0.0725 ±	pCi/L		09/10/20 07:32	
		0.261 (0.641) C:83% T:NA	•			
EPA 9320	Radium-228	0.0427 ± 0.363 (0.835) C:69% T:91%	pCi/L		09/11/20 14:49	
Total Radium Calculation	Total Radium	0.115 ± 0.624 (1.48)	pCi/L		09/14/20 14:18	

REPORT OF LABORATORY ANALYSIS



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492815009	PZ-7D					
EPA 9315	Radium-226	0.200 ±	pCi/L		09/10/20 07:32	
		0.221 (0.432)				
		C:88% T:NA				
EPA 9320	Radium-228	0.372 ±	pCi/L		09/11/20 14:49	
		0.394 (0.817)				
		C:72%				
		T:80%				
Total Radium Calculation	Total Radium	0.572 ± 0.615	pCi/L		09/14/20 14:18	
		(1.25)				
2492815010	EB-01					
EPA 9315	Radium-226	0.191 ±	pCi/L		09/10/20 07:32	
		0.241	•			
		(0.505) C:91% T:NA				
EPA 9320	Radium-228	0.495 ±	pCi/L		09/11/20 11:49	
		0.443	·			
		(0.899) C:72%				
		T:74%				
Total Radium Calculation	Total Radium	0.686 ±	pCi/L		09/14/20 14:18	
		0.684 (1.40)				
92492815011	PZ-32	(1.40)				
EPA 9315	Radium-226	0.0922 ±	pCi/L		09/10/20 07:32	
LI A 9313	Nadidili-220	0.224	poi/L		09/10/20 07:32	
		(0.533)				
EPA 9320	Radium-228	C:92% T:NA 0.248 ±	pCi/L		09/11/20 11:49	
LFA 9320	Naululli-220	0.367	pCI/L		09/11/20 11.49	
		(0.791)				
		C:74% T:85%				
Total Radium Calculation	Total Radium	0.340 ±	pCi/L		09/14/20 14:18	
		0.591	·			
2012015010	77 04	(1.32)				
92492815012	PZ-31	0.0040	.			
EPA 9315	Radium-226	0.0240 ± 0.142	pCi/L		09/10/20 07:32	
		(0.383)				
		C:92% T:NA				
EPA 9320	Radium-228	0.381 ± 0.378	pCi/L		09/11/20 11:49	
		(0.780)				
		C:74%				
Total Radium Calaulatics	Total Padium	T:85% 0.405 ±	nC:/I		00/14/20 14:10	
Total Radium Calculation	Total Radium	0.405 ± 0.520	pCi/L		09/14/20 14:18	
		(1.16)				

REPORT OF LABORATORY ANALYSIS



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2492815013	PZ-1D					
EPA 9315	Radium-226	0.384 ±	pCi/L	09	9/10/20 07:33	
		0.294				
		(0.526) C:92% T:NA				
EPA 9320	Radium-228	0.393 ±	pCi/L	09	9/11/20 11:50	
		0.391 (0.805)				
		C:77%				
		T:81%				
Total Radium Calculation	Total Radium	0.777 ± 0.685	pCi/L	09	9/14/20 14:18	
		(1.33)				
2492815014	FB-01					
EPA 9315	Radium-226	0.235 ±	pCi/L	09	9/10/20 07:33	
		0.231				
		(0.440) C:92% T:NA				
EPA 9320	Radium-228	0.381 ±	pCi/L	09	9/11/20 11:50	
		0.433	•			
		(0.910) C:72%				
		T:78%				
Total Radium Calculation	Total Radium	0.616 ±	pCi/L	09	9/14/20 14:18	
		0.664 (1.35)				
2492815015	PZ-2D + QC	(1.00)				
EPA 9315	Radium-226	0.244 ±	pCi/L	00	9/10/20 07:33	
-FA 9313	Naulum-220	0.227	pC//L	08	7/10/20 07.33	
		(0.409)				
EDA 0220	Radium-228	C:88% T:NA 0.361 ±	pCi/L	00	0/11/20 11:49	
EPA 9320	Radium-228	0.361	pCI/L	Us	9/11/20 11:49	
		(0.745)				
		C:74% T:82%				
Total Radium Calculation	Total Radium	0.605 ±	pCi/L	09	9/14/20 14:18	
		0.588	·			
0.40004.504.0	D7 05	(1.15)				
2492815016	PZ-25	0.440	·· O://	20	N/40/00 07 0 t	
EPA 9315	Radium-226	0.412 ± 0.325	pCi/L	09	9/10/20 07:34	
		(0.580)				
-DA 0000	D " 000	C:81% T:NA	0:"		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
EPA 9320	Radium-228	0.538 ± 0.440	pCi/L	09	9/11/20 11:50	
		(0.884)				
		C:72%				
Total Radium Calculation	Total Radium	T:81% 0.950 ±	pCi/L	00	9/14/20 14:18	
otal Nadidili GalculatiOII	iotai Nautuili	0.765	PO//L	US	,, 1-1/20 14.10	
		(1.46)				

REPORT OF LABORATORY ANALYSIS



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92492815017	DUP-01					
EPA 9315	Radium-226	0.490 ± 0.285 (0.386) C:91% T:NA	pCi/L		09/10/20 07:34	
EPA 9320	Radium-228	0.636 ± 0.437 (0.844) C:70% T:82%	pCi/L		09/11/20 11:50	
Total Radium Calculation	Total Radium	1.13 ± 0.722 (1.23)	pCi/L		09/14/20 14:18	
92492815018	PZ-18 + QC					
EPA 9315	Radium-226	0.00989 ± 0.0860 (0.182) C:91% T:NA	pCi/L		09/10/20 18:19	
EPA 9320	Radium-228	0.0840 ± 0.502 (1.14) C:58% T:85%	pCi/L		09/15/20 15:03	
Total Radium Calculation	Total Radium	0.0939 ± 0.588 (1.32)	pCi/L		09/16/20 10:12	



ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-23A PWS:	Lab ID: 9249 2 Site ID:	2815001 Collected: 08/26/20 10:10 Sample Type:	Received:	08/27/20 09:47 N	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.365 ± 0.257 (0.392) C:83% T:NA	pCi/L	09/10/20 07:38	13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.409 ± 0.387 (0.789) C:71% T:80%	pCi/L	09/11/20 14:48	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.774 ± 0.644 (1.18)	pCi/L	09/14/20 14:03	7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: DUP-02 PWS:	Lab ID: 9249 Site ID:	2815002 Collected: 08/26/20 00:00 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.214 ± 0.222 (0.423) C:83% T:NA	pCi/L	09/10/20 07:38	8 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.338 ± 0.350 (0.722) C:71% T:86%	pCi/L	09/11/20 14:48	3 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.552 ± 0.572 (1.15)	pCi/L	09/14/20 14:03	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-15 PWS:	Lab ID: 924928 Site ID:	15003 Collected: 08/26/20 12:25 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.161 ± 0.250 (0.554) C:91% T:NA	pCi/L	09/10/20 07:38	3 13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.520 ± 0.384 (0.740) C:69% T:85%	pCi/L	09/11/20 14:49	9 15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.681 ± 0.634 (1.29)	pCi/L	09/14/20 14:03	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-16 PWS:	Lab ID: 92492 Site ID:	2815004 Collected: 08/26/20 14:10 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0680 ± 0.181 (0.439) C:88% T:NA	pCi/L	09/10/20 07:38	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.431 ± 0.407 (0.834) C:74% T:82%	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.499 ± 0.588 (1.27)	pCi/L	09/14/20 14:03	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-17 PWS:	Lab ID: 9249 2 Site ID:	2815005 Collected: 08/26/20 15:45 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.411 ± 0.274 (0.410) C:82% T:NA	pCi/L	09/10/20 07:38	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	1.21 ± 0.537 (0.885) C:72% T:77%	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.62 ± 0.811 (1.30)	pCi/L	09/14/20 14:03	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-19 PWS:	Lab ID: 9249281 Site ID:	5006 Collected: 08/26/20 15:35 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.324 ± 0.236 (0.365) C:87% T:NA	pCi/L	09/10/20 07:38	3 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.379 ± 0.409 (0.854) C:70% T:88%	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.703 ± 0.645 (1.22)	pCi/L	09/14/20 14:03	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-33 PWS:	Lab ID: 924928 ^o Site ID:	15007 Collected: 08/26/20 10:20 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				, ,
Radium-226	EPA 9315	0.400 ± 0.285 (0.445) C:81% T:NA	pCi/L	09/10/20 07:32	2 13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	0.382 ± 0.411 (0.856) C:69% T:80%	pCi/L	09/11/20 14:49	9 15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.782 ± 0.696 (1.30)	pCi/L	09/14/20 14:18	8 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-14 PWS:	Lab ID: 9249281 Site ID:	5008 Collected: 08/26/20 14:10 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.0725 ± 0.261 (0.641) C:83% T:NA	pCi/L	09/10/20 07:32	2 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.0427 ± 0.363 (0.835) C:69% T:91%	pCi/L	09/11/20 14:49	9 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.115 ± 0.624 (1.48)	pCi/L	09/14/20 14:18	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-7D PWS:	Lab ID: 9249 Site ID:	2815009 Collected: 08/26/20 15:35 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.200 ± 0.221 (0.432) C:88% T:NA	pCi/L	09/10/20 07:32	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.372 ± 0.394 (0.817) C:72% T:80%	pCi/L	09/11/20 14:49	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.572 ± 0.615 (1.25)	pCi/L	09/14/20 14:18	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: EB-01 PWS:	Lab ID: 924928 Site ID:	315010 Collected: 08/25/20 14:45 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.191 ± 0.241 (0.505) C:91% T:NA	pCi/L	09/10/20 07:32	2 13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.495 ± 0.443 (0.899) C:72% T:74%	pCi/L	09/11/20 11:49	9 15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.686 ± 0.684 (1.40)	pCi/L	09/14/20 14:18	8 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-32 PWS:	Lab ID: 92492 6 Site ID:	815011 Collected: 08/25/20 14:55 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.0922 ± 0.224 (0.533) C:92% T:NA	pCi/L	09/10/20 07:32	2 13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.248 ± 0.367 (0.791) C:74% T:85%	pCi/L	09/11/20 11:49	15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.340 ± 0.591 (1.32)	pCi/L	09/14/20 14:18	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-31 PWS:	Lab ID: 924928 Site ID:	15012 Collected: 08/25/20 16:15 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.0240 ± 0.142 (0.383) C:92% T:NA	pCi/L	09/10/20 07:32	2 13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.381 ± 0.378 (0.780) C:74% T:85%	pCi/L	09/11/20 11:49	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.405 ± 0.520 (1.16)	pCi/L	09/14/20 14:18	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-1D PWS:	Lab ID: 92492 Site ID:	2815013 Collected: 08/25/20 16:05 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	Services - Greensburg				
Radium-226	EPA 9315	0.384 ± 0.294 (0.526) C:92% T:NA	pCi/L	09/10/20 07:33	3 13982-63-3	
	Pace Analytical S	Services - Greensburg				
Radium-228	EPA 9320	0.393 ± 0.391 (0.805) C:77% T:81%	pCi/L	09/11/20 11:50	15262-20-1	
	Pace Analytical S	Services - Greensburg				
Total Radium	Total Radium Calculation	0.777 ± 0.685 (1.33)	pCi/L	09/14/20 14:18	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: FB-01 PWS:	Lab ID: 924928 Site ID:	15014 Collected: 08/26/20 08:40 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.235 ± 0.231 (0.440) C:92% T:NA	pCi/L	09/10/20 07:33	3 13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.381 ± 0.433 (0.910) C:72% T:78%	pCi/L	09/11/20 11:50	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.616 ± 0.664 (1.35)	pCi/L	09/14/20 14:18	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-2D + QC PWS:	Lab ID: 92492 Site ID:	2815015 Collected: 08/26/20 10:52 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.244 ± 0.227 (0.409) C:88% T:NA	pCi/L	09/10/20 07:33	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.361 ± 0.361 (0.745) C:74% T:82%	pCi/L	09/11/20 11:49	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.605 ± 0.588 (1.15)	pCi/L	09/14/20 14:18	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-25 PWS:	Lab ID: 924928 Site ID:	Collected: 08/26/20 13:50 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	ervices - Greensburg				
Radium-226	EPA 9315	0.412 ± 0.325 (0.580) C:81% T:NA	pCi/L	09/10/20 07:34	4 13982-63-3	
	Pace Analytical Se	ervices - Greensburg				
Radium-228	EPA 9320	0.538 ± 0.440 (0.884) C:72% T:81%	pCi/L	09/11/20 11:50	15262-20-1	
	Pace Analytical Se	ervices - Greensburg				
Total Radium	Total Radium Calculation	$0.950 \pm 0.765 (1.46)$	pCi/L	09/14/20 14:18	3 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: DUP-01 PWS:	Lab ID: 9249 Site ID:	2815017 Collected: 08/26/20 00:00 Sample Type:	Received:	08/27/20 09:47	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				-
Radium-226	EPA 9315	0.490 ± 0.285 (0.386) C:91% T:NA	pCi/L	09/10/20 07:34	4 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.636 ± 0.437 (0.844) C:70% T:82%	pCi/L	09/11/20 11:50	15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.13 ± 0.722 (1.23)	pCi/L	09/14/20 14:18	8 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Sample: PZ-18 + QC PWS:	Lab ID: 9249281 Site ID:	5018 Collected: 08/27/20 10:05 Sample Type:	Received:	08/28/20 11:08	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.00989 ± 0.0860 (0.182) C:91% T:NA	pCi/L	09/10/20 18:19	9 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.0840 ± 0.502 (1.14) C:58% T:85%	pCi/L	09/15/20 15:03	3 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.0939 ± 0.588 (1.32)	pCi/L	09/16/20 10:12	2 7440-14-4	



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

QC Batch: 412345 Analysis Method: EPA 9320

QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92492815018

METHOD BLANK: 1994499 Matrix: Water

Associated Lab Samples: 92492815018

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.357 ± 0.355 (0.727) C:71% T:84%
 pCi/L
 09/15/20 15:02

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.



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

QC Batch: 412352

Analysis Method: EPA 9315 QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

> Pace Analytical Services - Greensburg Laboratory:

Associated Lab Samples: 92492815018

METHOD BLANK: 1994514 Matrix: Water

Associated Lab Samples: 92492815018

Act ± Unc (MDC) Carr Trac Units Analyzed Qualifiers Parameter Radium-226 0.206 ± 0.102 (0.149) C:95% T:NA pCi/L 09/10/20 19:37

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.



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

QC Batch: 412340 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92492815001, 92492815002, 92492815003, 92492815004, 92492815005, 92492815006, 92492815007,

92492815008, 92492815009, 92492815010, 92492815011, 92492815012, 92492815013, 92492815014,

92492815015, 92492815016, 92492815017

METHOD BLANK: 1994497 Matrix: Water

Associated Lab Samples: 92492815001, 92492815002, 92492815003, 92492815004, 92492815005, 92492815006, 92492815007,

92492815008, 92492815009, 92492815010, 92492815011, 92492815012, 92492815013, 92492815014,

92492815015, 92492815016, 92492815017

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.722 ± 0.388 (0.683) C:77% T:80%
 pCi/L
 09/11/20 11:49

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.



Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

QC Batch: 412349 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92492815001, 92492815002, 92492815003, 92492815004, 92492815005, 92492815006, 92492815007, 92492815008, 92492815009, 92492815010, 92492815011, 92492815012, 92492815013, 92492815014,

92492815015, 92492815016, 92492815017

METHOD BLANK: 1994508 Matrix: Water

Associated Lab Samples: 92492815001, 92492815002, 92492815003, 92492815004, 92492815005, 92492815006, 92492815007,

92492815008, 92492815009, 92492815010, 92492815011, 92492815012, 92492815013, 92492815014,

92492815015, 92492815016, 92492815017

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.124 ± 0.171 (0.355) C:94% T:NA
 pCi/L
 09/10/20 07:38

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.



QUALIFIERS

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Act - Activity

Date: 09/16/2020 02:51 PM

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Date: 09/16/2020 02:51 PM

_ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92492815001	PZ-23A	EPA 9315	412349	_	
2492815002	DUP-02	EPA 9315	412349		
2492815003	PZ-15	EPA 9315	412349		
2492815004	PZ-16	EPA 9315	412349		
2492815005	PZ-17	EPA 9315	412349		
2492815006	PZ-19	EPA 9315	412349		
2492815007	PZ-33	EPA 9315	412349		
2492815008	PZ-14	EPA 9315	412349		
2492815009	PZ-7D	EPA 9315	412349		
2492815010	EB-01	EPA 9315	412349		
2492815011	PZ-32	EPA 9315	412349		
2492815012	PZ-31	EPA 9315	412349		
2492815013	PZ-1D	EPA 9315	412349		
2492815014	FB-01	EPA 9315	412349		
2492815015	PZ-2D + QC	EPA 9315	412349		
2492815016	PZ-25	EPA 9315	412349		
2492815017	DUP-01	EPA 9315	412349		
2492815018	PZ-18 + QC	EPA 9315	412352		
2492815001	PZ-23A	EPA 9320	412340		
2492815002	DUP-02	EPA 9320	412340		
2492815003	PZ-15	EPA 9320	412340		
2492815004	PZ-16	EPA 9320	412340		
2492815005	PZ-17	EPA 9320	412340		
2492815006	PZ-19	EPA 9320	412340		
2492815007	PZ-33	EPA 9320	412340		
2492815008	PZ-14	EPA 9320	412340		
2492815009	PZ-7D	EPA 9320	412340		
2492815010	EB-01	EPA 9320	412340		
2492815011	PZ-32	EPA 9320	412340		
2492815012	PZ-31	EPA 9320	412340		
2492815013	PZ-1D	EPA 9320	412340		
2492815014	FB-01	EPA 9320	412340		
2492815015	PZ-2D + QC	EPA 9320	412340		
2492815016	PZ-25	EPA 9320	412340		
2492815017	DUP-01	EPA 9320	412340		
2492815018	PZ-18 + QC	EPA 9320	412345		
2492815001	PZ-23A	Total Radium Calculation	413734		
2492815002	DUP-02	Total Radium Calculation	413734		
2492815003	PZ-15	Total Radium Calculation	413734		
2492815004	PZ-16	Total Radium Calculation	413734		
2492815005	PZ-17	Total Radium Calculation	413734		
2492815006	PZ-19	Total Radium Calculation	413734		
2492815007	PZ-33	Total Radium Calculation	413735		
2492815008	PZ-14	Total Radium Calculation	413735		
2492815009	PZ-7D	Total Radium Calculation	413735		
2492815010	EB-01	Total Radium Calculation	413735		



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL APP IV SCAN RADS

Pace Project No.: 92492815

Date: 09/16/2020 02:51 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92492815011	PZ-32	Total Radium Calculation	413735		
92492815012	PZ-31	Total Radium Calculation	413735		
92492815013	PZ-1D	Total Radium Calculation	413735		
92492815014	FB-01	Total Radium Calculation	413735		
92492815015	PZ-2D + QC	Total Radium Calculation	413735		
92492815016	PZ-25	Total Radium Calculation	413735		
92492815017	DUP-01	Total Radium Calculation	413735		
92492815018	PZ-18 + QC	Total Radium Calculation	414090		

	Sample Con	dition	Upon Receip	0#:92492815
. Pace Analytical C	lient Name: 6	40	111	01102432015
	illent Name	1110	wer	
1000	USPS Client Communication Comm	9474	□ Pace Other	92815 Proj. Due Dow. Proj. Name:
Packing Material: D Bubble W	rap Bubble Bags	None	□ Other8/	2193944109
Thermometer Used 21	Type of Ic	e: Wer	Blue None	Samples on ice, cooling process has begun
Cooler Temperature 4/1/5 Temp shou'd be above freezing to 6'0	10/1/2/	Tissue	is Frozen: Yes No Comments:	Date and Initials of person examining contents:
Chain of Custody Present:	CYes ON	o DN/A	1.	
Chain of Custody Filled Out:	PYes ON	o DNA	2.	
Chain of Custody Relinquished:	Dres DN	o DN/A	3.	
Sampler Name & Signature on CO	OC: DYES DN	o DNA	4.	
Samples Arrived within Hold Time	/	o DN/A	5.	
Short Hold Time Analysis (<72h	nr): 🗆 🗆 Yes 🗗 🕅	o □N/A	6.	
Rush Turn Around Time Reque	sted: DYes DK	€ □N/A	7.	
Sufficient Volume:	DY68, ON	o DN/A	8.	
Correct Containers Used:	Gyes DN	o DN/A	9.	
-Pace Containers Used:	Dy6s DN	o ON/A		
Containers Intact:	Dy6s DN	o DN/A	10.	
Filtered volume received for Disso	olved tests	O DAVÍA	11.	
Sample Labels match COC:	eres On	o ONA	12.	
-Includes date/time/ID/Analysis				
All containers needing preservation have	re been checked.	o □N/A	13.	
All containers needing preservation a compliance with EPA recommendation		o ON/A		
exceptions: VOA, coliform, TOC, O&G, W	nu no		Initial when completed	Lot # of added preservative
Samples checked for dechlorination	ion: 🗆 Yes 🗆 N	· DAVA	14.	
Headspace in VOA Vials (>6mm)): DYes DN	o Cania	15.	
Trip Blank Present:	□Yes □N	o UN/A	16.	
Trip Blank Custody Seals Present	t Dyes DN	o DN/A		
Pace Trip Blank Lot # (if purchase	ed):			
		Date/	Time:	Field Data Required? Y / N
Person Contacted: Comments/ Resolution;		_ Date/	Time:	
Project Manager Review		-		Date:

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

Project Manager Review:

Pace Analytical .

Document Name: Bottle Identification Form (BIF)

Document No.: F-CAR-CS-043-Rev.00 Document Issued: March 14, 2019

Page 1 of 1 Issuing Authority:

Pace Carolinas Quality Office

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

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

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

Project #

PM: KLH1

Due Date: 09/11/20

CLIENT: GA-GA Power

	hend	(N/A) (G-)	apqu-125 ml Ptstlc Unpresented 1-1-1-1	6P3U-250 mt Plastic Unpreserved (N/A)	sezet.500 mL Plastic Unpreserved (N/A)	(N/A)	BPIU-1 IKer resource:	BP45-125 mL Plastic H25O4 (pH < 2) (CF)	BP3N-250 mL plastic HNO3 (pH < 2)	BP42-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (G-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (G-)	server liver Amber HCI (pH < 2)	ACELL-250 mL Amber Unpreserved (N/A) (CI-)	ACS S.3 liter Amber H2504 (pH < 2)	AC35.750 mL Amber H2504 (pH < 2)	ACCESTOGRAPISO ML Amber NH4CI (N/A)(CI-)	SCORT 40 ML VOA HCI (N/A)	USST-40 ML VOA N#25203 (N/A)	UCSULAD ML VOA Unp (N/A)	ACSP 40 mt VOA H3PO4 (N/A)	war 16 vials per kit)-5035 kit (N/A)	VICK (3 vlats per kit)-VPH/Gas kit (N/A)	cpsT-125 ml Sterile Plastic (N/A - lab)	copy-250 mt Sterile Plagtic (N/A - lab)	BPIN	BPSA-250 mL Plastk (NH2)2504 (9.3-9.7)	AGOU-100 ml. Amber Unpreserved vials (N/A)
3 4 5 6 7 7 8 8 9 10 10	-	-	-	1	1	1	-	Z	1	1	1	1	1	1	1	1	1	1	4	+	+	+	+	+	+	+	13	1	-
	2	1	1			1			1	1	1	4	+	+	4		X	X	+	+	+	+	+	+	+	1	3	1	1
	3		1			1		1	1	1	1	4	+	+	4	3	4	4	+	+	+	+	1	1	1	1	5	1	1
	4		1	1	1			1	1	M	1	4	+	-	-4	4	1	1	7	1	-					1	-	2	1
	5	5	1	1				1	1	M	Y	X	+	-	7		7	1	7	-						1		X	J
	1	6	1	1			L	1	7	M	4	1	-		1	-	/	1	7									X	J
10 1		7	1	1			1	1	7	K,	7	7			1	-	1	1	1	-	-	-		1				K	V
		8	1	1	1		1		7	4	7	7	-	-	4	+	1	1	K	+	-	-	1	1			1	X	1
		9		1	1	1	1	1	1	1	1	1	+	-	1	+	20	X	1	+	+	+	+	1	1	1		V	1
1"VIII WY H H H H D		10	0	1	1		1		1	1	17	1	4	1	1	+	1	1	X	+	+	+	+	1.	+	1		X	7
		1	1	/	1		1		7	1	1	1	1	+	+	4	+	X	X	+	+	+	+	+	+	+	+	X	1

			justment Log for Pres Date preservation adjusted	Time preservation	Amount of Preservative	1
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjustes	adjusted	added	+
						1
						1
				1		1

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

ace Analytical .

Document Name: Bottle Identification Form (BIF)

Document No.: F-CAR-CS-043-Rev.00 Document Issued: March 14, 2019 Page 1 of 1

Issuing Authority: Pace Carolinas Quality Office

Project # |

PM: KLH1

Due Date: 09/11/20

CLIENT: GA-GA Power

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

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

	tterns	BP4U-125 mt Plastic Unpresent	BP3U-250 mL Plastic Unpreserved (N/A)	892U-500 ml. Plastic Unpreserved (N/A)	8P1U-1 liter Plastic Unpreserved (N/A)	8945-125 mL Plastic H2504 (pH < 2) (G-)	ASSO OF PLASTIC HNO3 (pH < 2)	meer-125 mL Plastic ZN Acetate & NaOH (>9)	and -125 mt Plastic NaOH (pH > 12) (G-)	wees 1-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (G-)	Mary Amber HCI (pH < 2)	Adulti-	ACSC.1 liter Amber H2504 (pH < 2)	AG35-250 mL Amber H2504 (pH < 2)	AGSA[DG3A]-250 mL Amber NHACI (N/A)(CI-)	PACENTAG ML YOA HCI (N/A)	MEST-40 ML VOA NA25203 (N/A)	West 40 mt VOA Unp (N/A)	VOS HISPON (N/A)	DGSF-14. III.	CONTRACTOR OF KIT-VPH/Gas kit (N/A)	cocr. 125 mt Sterile Plastic (N/A - lab)	State of mi Sterile Plastic, (N/A - lab)	FOIN	+	AGOU-100 mL Amber Unpreserved vizis (N/N)
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pH Adjustment Log for Preserved Samples Amount of Preservative Time preservation Date preservation adjusted added pH upon receipt adjusted Type of Preservative Sample ID Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification (

Out of hold, incorrect preservative, out of temp, incorrect containers

CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

				Ĭ,	12	1	6	9	8	7	6	5	4	3	2	-	ITEM#		11	possed (De me	wesam (Hess	quired C
				ADDITIONAL COMMENTS								PZ-17	PZ-16	PZ-15	DWP-02	PZ-23A	SAMPLE ID One Character per box. (AZ, 0.8/1. Sample ids must be unique			tuested Due Date: ATTACK	rhonda quinn@amec.com	Inesaw GA 30144	1075 Big Shanty Road	quired Client Information:
			T.	AND SECTION													water wast wwo word water wast wo wo co	COOC DIMENSION OF THE COOK CO		Project at	Purchase Order #:		Copy To:	1 3
			1	8													MATRIX CODE (see valid co		11		-	П	Rhonda Quinn	ojecta
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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed a

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			David Rom	PHENOMETER								70	E 4:	10	N G		# 9 5 1 MATRIX CODE SAMPLE TYPE		odes to wift		Project #: Mild	12		Copy To:	-12	Section B
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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

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			David	NET BEA									37	12	-12	37	MATRIX CODE (see valid co	des lo left)	11	- 10	1.591		Rho	roject
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Quality Control Sample Performance Assessment

411 Fields Highlighted in Yellow.

MS/MSD 1 Sample Matrix Spike Control Assessment LAL 9/9/2020 55957 DW 1994508 0.124 0.170 0.355 1.43 N/A Pass MB concentration:
M/B Counting Uncertainty:
MB MDC:
MB Numerical Performance Indicator:
MB Status vs Numerical Indicator:
MB Status vs. MDC: Test Analyst: Date: Worklist Matrix MB Sample ID Pace Analytical Method Blank Assessment

	Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
	Sample Collection Date:		
	Sample 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.(pCl/L, g, F):		
	MSD Aliquot (L, g, F):		
	MSD Target Conc. (pCi/l., g, F):		
	MS Spike Uncertainty (calculated):		
	MSD Spike Uncertainty (catculated):		
	Sample Result:		
-	Sample Result Counting Uncertainty (pCM, g, F):		
	Sample Matrix Spike Result:		
	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
	Sample Matrix Spike Duplicate Result:		
	Matrix Spike Duplicate Result Counting Uncertainty (pCif., 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:		

Laboratory Control Sample Assessment

	. (2)		Company Company
	LCS55957	LCSD55957	Sample Result:
Count Date:	9/10/2020		Sample Result Counting Uncertainty (PCif., g, F):
Operav Corrected Spike Concentration (ACM) 1:	24 045		Matrix Snike Result Counting Uncertainty (nCt/l n F)
Votume Used (mL):	0.10		Sample Matrix Spike Duplicate Result:
Aliquot Volume (L, g, F):	0.506		Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
Target Conc. (pCi/L, g, F):	4.751		MS Numerical Performance Indicator:
Uncertainty (Calculated):	0.057		MSD Numerical Performance Indicator:
Result (pCi/L, g, F):	3.947		MS Percent Recovery:
LCS/LCSD Counting Uncertainty (pCi/t, g, F):	0.714		MSD Percent Recovery:
Numerical Performance Indicator:	-2.20		MS Status vs Numerical Indicator;
Percent Recovery:	83.08%		MSD Status vs Numerical Indicator:
Status vs Numerical Indicator	N/A		MS Status vs Recovery:
Status vs Recovery:	Pass		MSD Status vs Recovery:
Under % Recovery Limits	125%		MSMSD Linner & Recovery Limits:
Lower % Recovery Limits:	75%		MS/MSD Lower % Recovery Limits:
Duplicate Sample Assessment			Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D.:	92492844001	Enter Duplicate	Sample I.D.
Duplicate Sample I.D. 92492844001DUP	32492844001DUP	sample IDs if	Sample MS I.D.
Sample Result (pCi/L, g, F):	0.135	other than	Sample MSD I.D.
Sample Result Counting Uncertainty (pCi/L, g, F):	0.203	LCS/LCSD in	Sample Matrix Spike Result:
Sample Duplicate Result (pCi/L, g, F):	0.052	the space below.	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
Sample Duplicate Result Counting Uncertainty (pCi/t, g, F):	0.177		Sample Matrix Spike Dupitcate Result;
Are sample and/or duplicate results below RL?	See Below 排		Matrix Spike Duplicate Result Counting Uncertainty (pC//L, g, F):
Duplicate Numerical Performance Indicator:	0.603	92492844001	Duplicate Numerical Performance indicator:
Duplicate RPD:	88.26%	32492844001DUP	(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:
Duplicate Status vs Numerical Indicator:	A/N		MS/ MSD Duplicate Status vs Numerical Indicator:
Duplicete Status vs RPD:	Fail**		MS/ MSD Duplicate Status vs RPD:
% RPD Limit:	25%		% RPD Limit.

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

Comments:

CANALISCON Pocoptable-precision, 10 "3Betelmust be

sandlo pos

Ju 9.10-20 TAR_55957_W.xls Total Alpha Radium (R104-3 11Feb2019).xls

1 of 1

TAR DW QC Printed: 9/10/2020 9:37 AM

Pace Analytical

Quality Control Sample Performance Assessment

LAL 9/9/2020 55957 DW Test Analyst: Date: Worklist: Matrix:

1994508 0.124

MB Sample ID

Method Blank Assessment

MB concentration:

M/B Counting Uncertainty: MB MDC:

0.170 0.355 1.43 N/A Pass

MB Numerical Performance Indicator: MB Status vs Numerical Indicator: MB Status vs. MDC:

Laboratory Control Sample Assessmen

Analyst Must Manually Enter All Fields Highlighted in Yellow.

MS/MSD 2 MS/MSD 1 MS Aliquot (L, g, F):
MS Target Conc. (pCi/L, g, F):
MSD Aliquot (L, g, F):
MSD Target Conc. (pCi/L, g, F): Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Collection Date: Spike I.D.: MS Spike Uncertainty (calculated): MS/MSD Decay Corrected Spike Concentration (pCi/ml.); Spike Volume Used in MSD (mL): Spike Volume Used in MS (mL) Sample Matrix Spike Control Assessment TCSD5595

MSD Spike Uncertainty (calculated):	Sample Result:	Sample Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Result:	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	MS Numerical Performance Indicator:	MSD Numerical Performance Indicator:	MS Percent Recovery:	MSD Percent Recovery:	MS Status vs Numerical Indicator:	MSD Status vs Numerical Indicator:	MS Status vs Recovery;	MSD Status vs Recovery:	MS/MSD Upper % Recovery Limits:	MS/MSD Lower % Recovery Limits:
	57															

19-033 19-033 19-033 24.045 0.10 0.506 4.751

Spike I.D.

Decay Corrected Spike Concentration (pCi/mL):

Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample I.D.	Sample MS I.D.	Sample MSD I.D.	Sample Matrix Spike Result:	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Dupiicate Result:	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Duplicate Numerical Performance Indicator:	6 (Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	MS/ MSD Duplicate Status vs Numerical Indicator:	MS/ MSD Duplicate Status vs RPD:	ini l Caa %
	Enter Duplicate	sample IDs if	other than	LCS/LCSD in	the space below.			92492815015	92492815015DUP			

92492815015DUP

92492815015

Sample I.D.: Duplicate Sample I.D.

-2.20 83.08% N/A

Percent Recovery:

Status vs Numerical Indicator Status vs Recovery

Upper % Recovery Limits: Lower % Recovery Limits:

Duplicate Sample Assessment

3.947

Aliquot Volume (L, g, F): Target Conc. (pCirl., g, F):

Uncertainty (Calculated): Result (pCI/L, g, F):

LCS/LCSD Counting Uncertainty (pCi/L, g, F): Numerical Performance Indicator:

Volume Used (mL):

0.244 0.224 -0.050 0.203 See Below ## 1.904 303.91%

Sample Result (Dolfu, g, F):
Sample Result Counting Uncertainty (DCML, g, F):
Sample Duplicate Result (pCML, g, F):
Sample Duplicate Result Counting Uncertainty (pCML, g, F):
Are Sample and/or duplicate results below RL?

Duplicate Numerical Performance Indicator:

Duplicate RPD;

Duplicate Status vs Numerical Indicator:

Duplicate Status vs RPD: % RPD Limit:

٨

Sample MS LD.	Sample MSD I.U. Sample Matrix Spike Result:	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Duplicate Numerical Performance Indicator:	(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	MS/ MSD Duplicate Status vs Numerical Indicator:	MS/ MSD Duplicate Status vs RPD:	% RPD Limit

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

Comments:

we Batch most be re-prepared due to unacceptable precision $|\phi
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and of pmp

20,00 TAR_55957_W.xls Total Alpha Raditym (R104-3 11Feb2019).xls

1 of 1

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test

Face Analytical"

Worklist: Matrix: Analyst: Date:

MB concentration: M/B Counting Uncertainty: MB MDC:

MB Sample ID

Method Blank Assessment

MB Numerical Performanca Indicator:

MB Status vs Numerical Indicator: MB Status vs. MDC:

•	

	MS/MSD 2																												
renow.	MS/MSD 1																												
Aliaiysi musi maliualiy Elitel Ali Cielus filqiliqileti il Telion.	Sample Matrix Spike Control Assessment	Sample Collection Date:	Sample I.D. Sample MS I.D.	Sample MSD I.D.	Spike I.D.:	MS/MSD Decay Corrected Spike Concentration (pCi/mL):	Spike Volume Used in MS (ml.):	Spike Volume Used in MSD (mL):	MS Aliquot (L, g, F):	MS Target Conc.(pCi/L, g, F):	MSD Aliquot (L, g, F):	MSD Target Conc. (pCi/l., g, F):	MS Spike Uncertainty (calculated):	MSD Spike Uncertainty (calculated):	Sample Result:	Sample Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Result:	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	MS Numerical Performance Indicator:	MSD Numerical Performance Indicator:	MS Percent Recovery:	MSD Percent Recovery:	MS Status vs Numerical Indicator:	MSD Status vs Numerical Indicator.	MS Status vs Recovery:	MSD Status vs Recovery:	MS/MSD Upper % Recovery Limits:
														z	LCSD55959														
000	ка-226 ГАГ	9/10/2020	55959 DW	:		1994514	0.206	950'0	0,149	4.13	N/A	See Comment*		LCSD (Y or N)?	LCS55959	9/11/2020	19-033	24.045	0,10	0,507	4.740	0.057	4.372	0,792	15.0-	92,23%	N/A	Pass	125%

rapolatory control cample Assessment	191 10 13 0000	2	
	LCS55959	LCSD55859	
Count Date:	9/11/2020		
Spike I.D.:	19-033		
Decay Corrected Spike Concentration (pCi/mL):	24.045		
Volume Used (mL):	0,10		
Aliquot Volume (L, g, F):	0,507		Matrix S
Target Conc. (pCi/L, g, F):	4.740		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	4.372		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0,792		
Numerical Performance Indicator:	-0.91		
Percent Recovery:	92,23%		
Status vs Numerical Indicator:	Ν		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	75%		
Duplicate Sample Assessment			Matrix Spi

Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample I.D.	Sample MS I.D.	Sample MSD I,D,	Sample Matrix Spike Result:	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Duplicate Numerical Performance Indicator:	(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	MS/ MSD Duplicate Status vs Numerical Indicator;	MS/ MSD Duplicate Status vs RPD:	****** COO %
Matr							Σ	_				
	Enter Duplicate	sample IDs if	other than	LCS/LCSD in	the space below.			92492559006	92492559006DUP			

Sample Result (DCI/L, g, F):
Sample Result Counting Uncertainty (pCI/L, g, F):
Sample Duplicate Result (pCI/L, g, F):
Sample Duplicate Result Counting Uncertainty (pCI/L, g, F):
Are sample and/or duplicate results below RL?

0.063 bb 0.063 bb 0.063 bb 0.063 bb 0.063 bc 0.063 bb 0.07 co.07 co.063 bb 0.07 co.07 co.0

Duplicate Numerical Performance Indicator: Duplicate RPD: Duplicate Status vs Numerical Indicator. Duplicate Status vs RPD:

92492559006DUF

Sample I.D.: Duplicate Sample I.D.

92492559006

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

% RPD Limit:

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

WAN AIII WAS unaccentable,pracision: N

0000/11/pwy

TAR_55959_W.xls Total Alpha Radium (R104-3 11Feb2019).xls

TAR DW QC Printed: 9/11/2020 12:18 PM

1 of 1

Quality Control Sample Performance Assessment Pace Analytical

Analyst Must Manually Enter All Fields Highlighted in Yellow.

MS/MSD 2

MS/MSD 1

Sample MS I.D. Sample MSD I.D.

Spike 1.D.

Sample I.D.

Sample Collection Date

Sample Matrix Spike Control Assessment

MS/MSD Decay Corrected Spike Concentration (pCi/mt.);

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): Sample Result:

LAL 9/10/2020 55959 DW Test Date: Worklist: Matrix: Analyst

N/A See Comment* 0.206 0.098 0.149 4.13 MB Numerical Performance Indicator; MB Status vs Numerical Indicator: MB Status vs. MDC: MB Sample iD MB concentration: M/B Counting Uncertainty: MB-MDC:

Method Blank Assessment

CSD (Y or N)? Laboratory Control Sample Assessmen

MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Spike Uncertainty (calculated): Sample Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator: MS Percent Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits: MS Spike Uncertainty (calculated) Sample Matrix Spike Duplicate Result MSD Numerical Performance Indicator MSD Percent Recovery MSD Status vs Recovery LCSD55959 v/1/2020 19-033 24.045 0.10 0.507 4.740 0.057 0.792 0.792 -0.31 N/A N/A Pass 75%

Volume Used (mL): Aliquot Volume (L, g, F): Target Conc. (pCi/L, g, F):

Decay Corrected Spike Concentration (pCi/mL):

Spike I.D.

Uncertainty (Calculated): Result (pCI/L, g, F):

LCS/LCSD Counting Uncertainty (pCi/L, g, F):

Numerical Performance Indicator:

Percent Recovery,

Status vs Numerical Indicator Status vs Recovery

Upper % Recovery Limits: Lower % Recovery Limits:

Duplicate Sample Assessment

Matrix Spike/Matrix Spike Duplicate Sample Assessment ž Enter Duplicate the space below LCS/LCSD in sample IDs if other than 0.234 | thv 0.204 | thv See Below ## 0.291 13.77% 92492559007DUP 92492559007 N/A Pass 25% Sample Result (pCi/L, g, F):
Sample Result Counting Uncertainty (pCi/L, g, F):
Sample Duplicate Result (pCi/L, g, F):
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):
Are sample and/or duplicate results below RL? Sample I.D.: Duplicate Numerical Performance Indicator: Duplicate RPD; Duplicate Sample I.D. Duplicate Status vs Numerical Indicator: Duplicate Status vs RPD:

 4.47	-										
 Sample I.D.	Sample MS I.D.	Sample MSD I.D.	Sample Matrix Spike Result:	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	Duplicate Numerical Performance Indicator.	(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	MS/ MSD Duplicate Status vs Numerical Indicator.	MS/ MSD Duplicate Status vs RPD:	% RPD Limit:

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

% RPD Limit:

Comments:

"The method biank result is below the reporting limit for this analysis and is acceptable.

amaliilamen

TAR_55959_W.xis Total Alpha Radium (R104-3 11Feb2019).xis

Pace Analytical

Analyst Must Manually Enter All Fields Highlighted in Yellow.

MS/MSD 2

MS/MSD 1

Sample I.D. Sample MS I.D.

Sample Collection Date:

Sample Matrix Spike Control Assessment

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 Target Conc. (pCiA, g, F):

Count Date:

Laboratory Control Sample Assessmen

Spike I.D.

MB Numerical Performance Indicator. MB Status vs Numerical Indicator: MB Status vs. MDC:

Ra-228 Test

9/9/2020 55952 WT	1994497 0.722 0.388 0.683 3.65 Fall* See Comment*
Analyst Date: Worklist Matrix:	MB Sample ID MB concentration: MB 2 Sigma CSU: MB MDC: Cal Performance Indicator: tus vs Numerical Indicator: MB Status vs. MDC:

Method Blank Assessmen

		,
		MS Spike Uncertainty (calculated);
SD (Y or N)?	Z	MSD Spike Uncertainty (calculated):
LCS55952	LCSD55952	Sample Result:
9/11/2020		Sample Result 2 Sigma CSU (pCi/L, g, F):
20-030		Sample Matrix Spike Result:
38.447		Matrix Spike Result 2 Sigma CSU (pCi/l., g, F):
0.10	-	Sample Matrix Spike Duplicate Result:
0.820		Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
4.686		MS Numerical Performance Indicator:
0.230		MSD Numerical Performance Indicator:
4.304		MS Percent Recovery:
1.066		MSD Percent Recovery:
69:0-		MS Status vs Numerical Indicator:
91.85%	•	MSD Status vs Numerical Indicator:
ΑX		MS Status vs Recovery:
Pass		MSD Status vs Recovery:
135%		MS/MSD Upper % Recovery Limits:
%09		MS/MSD Lower % Recovery Limits:

Aliquot Volume (L, g, F): Target Conc. (pCi/L, g, F):

Uncertainty (Calculated) Result (pCi/L, g, F);

LCS/LCSD 2 Sigma CSU (pCi/L, g, F): Numerical Performance Indicator

Volume Used (mL):

Decay Corrected Spike Concentration (pCl/mL)

Status vs Numerical Indicator: Status vs Recovery: Upper % Recovery Limits: Lower % Recovery Limits:

Percent Recovery

						***************************************	1844- 1		***************************************		:
Matrix Spike/Matrix Spike Duplicate Sample Assessment	Sample LD. Sample MS LD.	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 (pCl/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

sample IDs if other than LCS/LCSD in Enter Duplicate

92492815015DUP

Sample I.D.: Duplicate Sample I.D.

Duplicate Sample Assessment

Sample Result (pC/I/L, g, F): Sample Result 2 Sigma CSU (pC/I/L, g, F): Sample Duplicate Result (pC/I/L, g, F);

Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): Are sample and/or duplicate results below RL?

Duplicate Numerical Performance Indicator:

Duplicate RPD:

92492815015

he space below.

0.361 0.361 0.093 0.307 See Below ## 1.107

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Pass Fall*** 36%

Duplicate Status vs RPD: % RPD Limit:

Duplicate Status vs Numerical Indicator:

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.



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Ra-228 NELAC DW2 Printed: 9/14/2020 8:47 AM

Pace Analytical

Quality Control Sample Performance Assessment

VAL 9/9/2020 Ra-228 55954 WT Analyst: Date: Worklist: Matrix: Test

MS/MSD 2

MS/MSD 1

Sample I.D. Sample MS I.D. Sample MSD I.D.

Spike I.D.

MS/MSD Decay Corrected Spike Concentration (pCl/mL)

Spike Volume Used in MS (mL) Spike Volume Used in MSD (mil.)

MS Aliquot (L, g, F); MS Target Conc.(pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F):

Sample Collection Date:

Sample Matrix Spike Control Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

0.357 0.355 0.727 1.97 Pass Pass MB concentration: M/B 2 Sigma CSU: MB Sample ID MB MDC: MB Numerical Performance indicator: MB Status vs Numerical Indicator. MB Status vs. MDC Method Blank Assessment

Laboratory Control Sample Assessmen

9/15/202(20-030 Count Date: Spike I.D.

38.394 0.10 0.808 4.752 0.233 5.042 1.200 Aliquot Volume (L, g, F): Target Conc. (pCi/L, g, F): Result (pCi/L, g, F): LCS/LCSD 2 Sigma CSU (pCi/L, g, F): Decay Corrected Spike Concentration (pCi/mL): Volume Used (mL): Uncertainty (Calculated):

Matrix Spike Duplicate Result 2 Sigma CSU (pCt/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

Sample Matrix Spike Duplicate Result:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F)

Semple Result 2 Sigma CSU (pCi/L, g, F) Sample Matrix Spike Result

MSD Spike Uncertainty (calculated)

MS Spike Uncertainty (calculated)

Sample Result

20-030 38.394 0.10 0.829 4.632 0.227 4.838 1.149 0.144% N/A Pass 135% 60% 106.10% ۲ Numerical Performance Indicator; Percent Recovery. Status vs Recovery. Upper % Recovery Limits: Lower % Recovery Limits: Status vs Numerical Indicator

Matrix Spike/Matrix Spike Duplicate Sample Assessment Enter Duplicate sample IDs if other than LCS/LCSD in the space below. LCS55954 LCSD55954 5.042 1.200 4.838 1.149 NO 0.241 1.57% Sample I.D.: Duplicate Sample I.D. Sample Resuft (pCi/L, g, F);

Duplicate Sample Assessmen

Sample I.D. Sample MS I.D.

Sample Matrix Spike Result:

Matrix Spike Result 2 Sigma CSU (pCi/L, g, F)

Sample MSD I.D.

MS/MSD Lower % Recovery Limits: MS/MSD Lower % Recovery Limits

Sample Result 2 Sigma CSU (pC/L, g, F): Sample Duplicate Result (pC/L, g, F): Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F): Are sample and/or duplicate results below RL? Duplicate Numerical Performance Indicator: (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: Duplicate Status vs Numerical Indicator. Duplicate Status vs RPD; % RPD Limit:

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

% RPD Limit

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

Comments:



Ra-228 NELAC DW2 Primed: 9/16/2020 8:15 AM

Ra-228 (R086-8 04Sep2019).xls

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October 22, 2020

Michelle Barker WOOD E&I 1075 Big Shanty Rd Suite 100 Kennesaw, GA 30144

RE: Project: MITCHELL CCR Pace Project No.: 92499073

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between October 07, 2020 and October 08, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Kevin Herring

kevin.herring@pacelabs.com

Ken Herry

1(704)875-9092

HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR Kristen Jurinko Ms. Lauren Petty, Southern Co. Services Rhonda Quinn, WOOD E&I Greg Wrenn, WOOD E&I





CERTIFICATIONS

Project: MITCHELL CCR
Pace Project No.: 92499073

Pace Analytical Services Charlotte

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

North Carolina Wastewater Certification #: 12

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804 Florida/NELAP Certification #: E87648 Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

Pace Analytical Services Peachtree Corners

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

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

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

North Carolina Certification #: 381 South Carolina Certification #: 98011001 Virginia Certification #: 460204



SAMPLE SUMMARY

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92499073001	EB-01	Water	10/06/20 10:45	10/07/20 09:37
92499073002	PZ-2D	Water	10/06/20 12:20	10/07/20 09:37
92499073003	FB-01	Water	10/06/20 12:55	10/07/20 09:37
92499073004	PZ-32	Water	10/06/20 15:00	10/07/20 09:37
92499073005	PZ-1D	Water	10/06/20 12:00	10/07/20 09:37
92499073006	PZ-31	Water	10/06/20 14:55	10/07/20 09:37
92499073007	PZ-14	Water	10/06/20 11:30	10/07/20 09:37
92499073008	PZ-23A	Water	10/06/20 14:25	10/07/20 09:37
92499073009	PZ-16	Water	10/06/20 16:15	10/07/20 09:37
92499073010	PZ-25	Water	10/07/20 09:50	10/08/20 09:40
92499073011	FD-02	Water	10/07/20 00:00	10/08/20 09:40
92499073012	PZ-7D	Water	10/07/20 12:30	10/08/20 09:40
92499073013	PZ-15	Water	10/07/20 14:45	10/08/20 09:40
92499073014	PZ-19	Water	10/07/20 15:58	10/08/20 09:40
92499073015	FD-01	Water	10/07/20 00:00	10/08/20 09:40
92499073016	PZ-17	Water	10/07/20 10:35	10/08/20 09:40
92499073017	PZ-18	Water	10/07/20 12:05	10/08/20 09:40
92499073018	PZ-33	Water	10/07/20 14:25	10/08/20 09:40



SAMPLE ANALYTE COUNT

Project: MITCHELL CCR
Pace Project No.: 92499073

Parameter Para	Lab ID	Sample ID	Method	Analysts	Analytes Reported
Part	92499073001	EB-01	EPA 6010D	 КН	1
SM 2450C-2011 AW1 1 1 1 1 1 1 1 1 1			EPA 6020B	CW1	10
PZ-2D			EPA 7470A	VB	1
92499073002 PZ-2D EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 7470CA VB 1 SM 2450C-2011 MVI 1 EPA 300.0 Rev 2.1 1993 CDC 3 92499073003 FB-01 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 300.0 Rev 2.1 1993 CDC 3 CDC 3 92499073004 PZ-32 EPA 6010D KH 1 EPA 300.0 Rev 2.1 1993 CDC 3 CDC 3 92499073005 PZ-1D EPA 6010D KH 1 EPA 300.0 Rev 2.1 1993 CDC 3 CDC 3 92499073005 PZ-1D EPA 6010D KH 1 EPA 6020B CW1 10 EPA 6020B CW1 1 92499073006 PZ-31 EPA 6010D KH 1 EPA 6020B CW1			SM 2450C-2011	AW1	1
PA 6020B CW1 10 10 10 10 10 10 10			EPA 300.0 Rev 2.1 1993	CDC	3
Part	92499073002	PZ-2D	EPA 6010D	KH	1
SM 2450C-2011			EPA 6020B	CW1	10
P2499073003 P349073004 P34 P44 P			EPA 7470A	VB	1
92499073003 FB-01 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 300.0 Rev 2.1 1993 CDC 3 92499073004 PZ-32 EPA 6010D KH 1 EPA 7470A VB 1 1 EPA 6020B CW1 10 1 EPA 7470A VB 1 1 EPA 6020B CW1 1 1 SM 2450C-2011 AW1 1 1 EPA 6010D KH 1 1 EPA 6010D KH 1 1 EPA 6020B CW1 10 1 EPA 6020B CW1 1 1 EPA 500-2011 AW1 1 1 EPA 6020B CW1 1 1 EPA 6020B CW1 1 1 EPA 7470A VB 1 1 EPA 7470A VB 1 1 EPA 7			SM 2450C-2011	AW1	1
PZ-32			EPA 300.0 Rev 2.1 1993	CDC	3
P2-499073004 P2-32 P2-32	92499073003	FB-01	EPA 6010D	KH	1
SM 2450C-2011 AW1 1 1 1 1 1 1 1 1 1			EPA 6020B	CW1	10
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92499073004 PZ-32 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 PZ-4D EPA 6020B CW1 10 EPA 7470A VB 1 EPA 300.0 Rev 2.1 1993 CDC 3 PZ-499073006 PZ-31 EPA 6010D KH 1 EPA 6020B CW1 1 1 EPA 7470A VB 1 1 SM 2450C-2011 AW1 1 1 EPA 6020B CW1 1			SM 2450C-2011	AW1	1
PA 6020B CW1 10 10 10 10 10 10 10			EPA 300.0 Rev 2.1 1993	CDC	3
P2499073005 P2-1D P2-1D	92499073004	PZ-32	EPA 6010D	KH	1
SM 2450C-2011			EPA 6020B	CW1	10
92499073005 PZ-1D EPA 300.0 Rev 2.1 1993 CDC 3 92499073005 PZ-1D EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 PZ-31 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 PZ-14 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 7470A V			EPA 7470A	VB	1
92499073005 PZ-1D EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 PZ-31 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 PZ-14 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 6020B CW1 1 EPA 6020B CW1 1 EPA 6020B CW1 10 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A			SM 2450C-2011	AW1	1
PA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 P2-31 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 P2-499073007 P2-14 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 6020B CW1 10 EPA 6020B CW1 10 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A CDC 3 EPA 300.0 Rev 2.1 1993 CDC 3 SM 2499073008 P2-23A EPA 6010D KH 1			EPA 300.0 Rev 2.1 1993	CDC	3
PA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 P2-31 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 P2-14 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A VB 1 EPA 7470A CDC 3 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 300.0 Rev 2.1 1993 CDC 3 EPA 6010D KH 1	92499073005	PZ-1D	EPA 6010D	KH	1
SM 2450C-2011 AW1 1			EPA 6020B	CW1	10
PZ-31 EPA 300.0 Rev 2.1 1993 CDC 3 PZ499073006 PZ-31 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 PZ499073007 PZ-14 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 6020B CW1 10 EPA 6020B CW1 10 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 7470A KH 1			EPA 7470A	VB	1
92499073006 PZ-31 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 PZ-14 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 92499073008 PZ-23A EPA 6010D KH 1			SM 2450C-2011	AW1	1
BEPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 PZ-14 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 PZ-23A EPA 6010D KH 1			EPA 300.0 Rev 2.1 1993	CDC	3
BEPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 PZ-14 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 PZ-23A EPA 6010D KH 1 KH 1	92499073006	PZ-31	EPA 6010D	KH	1
SM 2450C-2011 AW1 1			EPA 6020B	CW1	10
EPA 300.0 Rev 2.1 1993 CDC 3 92499073007 PZ-14 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 92499073008 PZ-23A EPA 6010D KH 1			EPA 7470A	VB	1
92499073007 PZ-14 EPA 6010D KH 1 EPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 92499073008 PZ-23A EPA 6010D KH 1			SM 2450C-2011	AW1	1
EPA 6020B CW1 10 EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 92499073008 PZ-23A EPA 6010D KH 1			EPA 300.0 Rev 2.1 1993	CDC	3
EPA 7470A VB 1 SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 92499073008 PZ-23A EPA 6010D KH 1	92499073007	PZ-14	EPA 6010D	KH	1
SM 2450C-2011 AW1 1 EPA 300.0 Rev 2.1 1993 CDC 3 92499073008 PZ-23A EPA 6010D KH 1			EPA 6020B	CW1	10
EPA 300.0 Rev 2.1 1993 CDC 3 92499073008 PZ-23A EPA 6010D KH 1			EPA 7470A	VB	1
92499073008 PZ-23A EPA 6010D KH 1			SM 2450C-2011	AW1	1
			EPA 300.0 Rev 2.1 1993	CDC	3
EPA 6020B CW1 10	92499073008	PZ-23A	EPA 6010D	KH	1
			EPA 6020B	CW1	10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A		1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073009	PZ-16	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073010	PZ-25	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073011	FD-02	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073012	PZ-7D	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073013	PZ-15	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073014	PZ-19	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92499073015	FD-01	EPA 6010D	KH	1
		EPA 6020B	CW1	10
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab ID	Sample ID	Method	Analysts	Analytes Reported	
		EPA 300.0 Rev 2.1 1993	CDC	3	
92499073016	PZ-17	EPA 6010D	KH	1	
		EPA 6020B	CW1	10	
		EPA 7470A	VB	1	
		SM 2450C-2011	AW1	1	
		EPA 300.0 Rev 2.1 1993	BRJ	3	
92499073017	PZ-18	EPA 6010D	KH	1	
		EPA 6020B	CW1	10	
		EPA 7470A	VB	1	
		SM 2450C-2011	AW1	1	
		EPA 300.0 Rev 2.1 1993	BRJ	3	
92499073018	PZ-33	EPA 6010D	KH	1	
		EPA 6020B	CW1	10	
		EPA 7470A	VB	1	
		SM 2450C-2011	AW1	1	
		EPA 300.0 Rev 2.1 1993	BRJ	3	

PASI-A = Pace Analytical Services - Asheville PASI-C = Pace Analytical Services - Charlotte

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



Project: MITCHELL CCR
Pace Project No.: 92499073

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result	Units	Report Limit	Analyzed	Qualifiers
2499073001	EB-01					
EPA 6020B	Antimony	0.00048J	mg/L	0.0030	10/07/20 20:46	
EPA 6020B	Barium	0.00079J	mg/L	0.010	10/07/20 20:46	
EPA 6020B	Boron	0.0087J	mg/L	0.10	10/07/20 20:46	
2499073002	PZ-2D					
	Performed by	CUSTOME			10/08/20 16:12	
	рН	R 8.72	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	22.7	mg/L	1.0	10/08/20 21:57	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	10/07/20 20:52	
EPA 6020B	Barium	0.0039J	mg/L	0.010	10/07/20 20:52	
EPA 6020B	Boron	0.018J	mg/L	0.10	10/07/20 20:52	
EPA 6020B	Chromium	0.0065J	mg/L	0.010	10/07/20 20:52	
EPA 6020B	Lithium	0.00099J			10/07/20 20:52	
			mg/L	0.030		
EPA 6020B	Molybdenum	0.00069J	mg/L	0.010	10/07/20 20:52	
SM 2450C-2011	Total Dissolved Solids	81.0	mg/L	10.0	10/07/20 14:57	
PA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	10/09/20 18:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.073J	mg/L	0.10	10/09/20 18:14	
EPA 300.0 Rev 2.1 1993	Sulfate	3.1	mg/L	1.0	10/09/20 18:14	
2499073004	PZ-32					
	Performed by	CUSTOME R			10/08/20 16:12	
	pН	7.27	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	62.8	mg/L	1.0	10/08/20 22:14	
PA 6020B	Barium	0.015	mg/L	0.010	10/12/20 16:50	
PA 6020B	Boron	0.015J	mg/L	0.10	10/12/20 16:50	
PA 6020B	Chromium	0.00072J	mg/L	0.010	10/12/20 16:50	
SM 2450C-2011	Total Dissolved Solids	169	mg/L	10.0	10/07/20 14:57	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	10/09/20 20:13	
EPA 300.0 Rev 2.1 1993	Sulfate	1.9	mg/L	1.0	10/09/20 20:13	
2499073005	PZ-1D					
	Performed by	CUSTOME			10/08/20 16:12	
	nΗ	R 7.35	Std. Units		10/08/20 16:12	
-DA 6040D	pH Coloium			4.0		
EPA 6010D	Calcium	50.5	mg/L	1.0	10/08/20 22:19	Б
EPA 6020B	Antimony	0.0021J	mg/L		10/12/20 17:39	В
PA 6020B	Barium	0.015	mg/L		10/12/20 17:39	
PA 6020B	Boron	0.015J	mg/L		10/12/20 17:39	
PA 6020B	Chromium	0.0021J	mg/L		10/12/20 17:39	
PA 6020B	Lead	0.000066J	mg/L	0.0050	10/12/20 17:39	
PA 6020B	Molybdenum	0.00090J	mg/L	0.010	10/12/20 17:39	
SM 2450C-2011	Total Dissolved Solids	153	mg/L	10.0	10/07/20 14:57	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	10/09/20 20:29	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	10/09/20 20:29	
2499073006	PZ-31					
	Performed by	CUSTOME			10/08/20 16:12	
	•	R				



Project: MITCHELL CCR
Pace Project No.: 92499073

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifier
2499073006	PZ-31					
	рН	7.01	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	98.8	mg/L	1.0	10/08/20 22:23	
PA 6020B	Antimony	0.00045J	mg/L	0.0030	10/12/20 17:45	В
PA 6020B	Barium	0.0075J	mg/L	0.010	10/12/20 17:45	
EPA 6020B	Boron	0.011J	mg/L	0.10	10/12/20 17:45	
EPA 6020B	Chromium	0.0013J	mg/L	0.010	10/12/20 17:45	
SM 2450C-2011	Total Dissolved Solids	254	mg/L	10.0	10/07/20 14:58	
PA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	10/09/20 20:44	
PA 300.0 Rev 2.1 1993	Sulfate	0.98J	mg/L	1.0	10/09/20 20:44	
2499073007	PZ-14					
	Performed by	CUSTOME R			10/08/20 16:12	
	рН	7.01	Std. Units		10/08/20 16:12	
PA 6010D	Calcium	111	mg/L	1.0	10/08/20 22:27	
PA 6020B	Barium	0.016	mg/L	0.010	10/12/20 17:51	
PA 6020B	Boron	0.026J	mg/L	0.10	10/12/20 17:51	
EPA 6020B	Chromium	0.00098J	mg/L	0.010	10/12/20 17:51	
SM 2450C-2011	Total Dissolved Solids	241	mg/L	10.0	10/07/20 14:58	
PA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	10/09/20 20:59	
PA 300.0 Rev 2.1 1993	Sulfate	11.0	mg/L	1.0	10/09/20 20:59	
2499073008	PZ-23A					
	Performed by	CUSTOME R			10/08/20 16:12	
	pН	6.78	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	144	mg/L	1.0	10/08/20 22:32	
PA 6020B	Barium	0.037	mg/L	0.010	10/12/20 17:56	
PA 6020B	Boron	0.16	mg/L	0.10	10/12/20 17:56	
PA 6020B	Chromium	0.0015J	mg/L	0.010	10/12/20 17:56	
PA 6020B	Cobalt	0.00067J	mg/L	0.0050	10/12/20 17:56	
PA 6020B	Lead	0.000047J	mg/L	0.0050	10/12/20 17:56	
PA 6020B	Lithium	0.00097J	mg/L	0.030	10/12/20 17:56	
PA 6020B	Selenium	0.0027J	mg/L	0.010	10/12/20 17:56	
M 2450C-2011	Total Dissolved Solids	462	mg/L	10.0	10/07/20 14:58	
PA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	10/09/20 21:15	
PA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	10/09/20 21:15	
PA 300.0 Rev 2.1 1993	Sulfate	71.2	mg/L	1.0	10/09/20 21:15	
2499073009	PZ-16					
	Performed by	CUSTOME R			10/08/20 16:12	
	рН	7.24	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	84.0	mg/L	1.0	10/08/20 22:36	
PA 6020B	Barium	0.034	mg/L	0.010	10/12/20 18:02	
PA 6020B	Boron	0.19	mg/L	0.10	10/12/20 18:02	
PA 6020B	Chromium	0.0011J	mg/L	0.010	10/12/20 18:02	
SM 2450C-2011	Total Dissolved Solids	261	mg/L	10.0	10/07/20 14:58	
EPA 300.0 Rev 2.1 1993	Chloride	6.4	mg/L	1.0	10/09/20 22:32	

REPORT OF LABORATORY ANALYSIS

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Project: MITCHELL CCR
Pace Project No.: 92499073

Lab Sample ID	Client Sample ID	.	11.5	Daniel III II	A I	0 !!!!
Method	Parameters —	Result _	Units	Report Limit	Analyzed .	Qualifiers
92499073009	PZ-16					
EPA 300.0 Rev 2.1 1993	Sulfate	42.4	mg/L	1.0	10/09/20 22:32	
2499073010	PZ-25					
	Performed by	CUSTOME R			10/08/20 16:12	
	рH	6.95	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	84.2	mg/L		10/09/20 19:48	
EPA 6020B	Barium	0.11	mg/L	0.010	10/12/20 18:44	
EPA 6020B	Boron	0.18	mg/L	0.10	10/12/20 18:44	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	10/12/20 18:44	
EPA 6020B	Lithium	0.0063J	mg/L	0.030	10/12/20 18:44	
EPA 6020B	Thallium	0.00027J	mg/L	0.0010	10/12/20 18:44	
SM 2450C-2011	Total Dissolved Solids	280	mg/L	10.0	10/08/20 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	10/10/20 03:41	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	10/10/20 03:41	
EPA 300.0 Rev 2.1 1993	Sulfate	38.1	mg/L	1.0	10/10/20 03:41	
2499073011	FD-02					
EPA 6010D	Calcium	85.7	mg/L	1.0	10/09/20 19:52	
EPA 6020B	Barium	0.11	mg/L	0.010	10/12/20 18:50	
EPA 6020B	Boron	0.19	mg/L	0.10	10/12/20 18:50	
PA 6020B	Cobalt	0.0014J	mg/L	0.0050	10/12/20 18:50	
EPA 6020B	Lithium	0.0062J	mg/L	0.030	10/12/20 18:50	
EPA 6020B	Thallium	0.00027J	mg/L	0.0010	10/12/20 18:50	
SM 2450C-2011	Total Dissolved Solids	288	mg/L	10.0	10/08/20 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	10/10/20 04:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	10/10/20 04:27	
EPA 300.0 Rev 2.1 1993	Sulfate	38.3	mg/L	1.0	10/10/20 04:27	
2499073012	PZ-7D					
	Performed by	CUSTOME R			10/08/20 16:12	
	рН	6.98	Std. Units		10/08/20 16:12	
PA 6010D	Calcium	109	mg/L	1.0	10/09/20 19:57	
PA 6020B	Barium	0.0061J	mg/L	0.010	10/12/20 18:55	
PA 6020B	Boron	0.20	mg/L	0.10	10/12/20 18:55	
PA 6020B	Chromium	0.0014J	mg/L	0.010	10/12/20 18:55	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	10/12/20 18:55	
SM 2450C-2011	Total Dissolved Solids	334	mg/L	10.0	10/08/20 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	3.9	mg/L	1.0	10/10/20 04:43	
EPA 300.0 Rev 2.1 1993	Sulfate	48.9	mg/L	1.0	10/10/20 04:43	
2499073013	PZ-15					
	Performed by	CUSTOME R			10/08/20 16:12	
	рH	7.11	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	93.5	mg/L	1.0	10/09/20 20:01	
EPA 6020B	Barium	0.049	mg/L		10/12/20 19:01	
PA 6020B	Boron	0.19	mg/L		10/12/20 19:01	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	10/12/20 19:01	



Project: MITCHELL CCR
Pace Project No.: 92499073

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499073013	PZ-15					
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	10/12/20 19:01	
SM 2450C-2011	Total Dissolved Solids	336	mg/L	10.0	10/08/20 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	6.6	mg/L	1.0	10/10/20 04:58	
EPA 300.0 Rev 2.1 1993	Sulfate	80.7	mg/L	1.0	10/10/20 04:58	
2499073014	PZ-19					
	Performed by	CUSTOME R			10/08/20 16:12	
	рН	6.78	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	144	mg/L	1.0	10/09/20 20:06	
EPA 6020B	Barium	0.054	mg/L	0.010	10/12/20 19:07	
EPA 6020B	Boron	0.52	mg/L	0.10	10/12/20 19:07	
EPA 6020B	Lead	0.000042J	mg/L	0.0050	10/12/20 19:07	
EPA 6020B	Lithium	0.013J	mg/L	0.030	10/12/20 19:07	
EPA 6020B	Molybdenum	0.0019J	mg/L	0.010	10/12/20 19:07	
EPA 6020B	Selenium	0.0035J	mg/L		10/12/20 19:07	
EPA 6020B	Thallium	0.00070J	mg/L		10/12/20 19:07	
SM 2450C-2011	Total Dissolved Solids	492	mg/L	10.0	10/08/20 16:06	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	10/10/20 05:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	10/10/20 05:13	
EPA 300.0 Rev 2.1 1993	Sulfate	83.3	mg/L	1.0	10/10/20 05:13	
2499073015	FD-01					
EPA 6010D	Calcium	138	mg/L	1.0	10/09/20 20:19	
EPA 6020B	Barium	0.053	mg/L	0.010	10/13/20 17:15	
EPA 6020B	Boron	0.55	mg/L	0.10	10/13/20 17:15	
EPA 6020B	Lithium	0.014J	mg/L	0.030	10/13/20 17:15	
EPA 6020B	Molybdenum	0.0019J	mg/L	0.010	10/13/20 17:15	
EPA 6020B	Selenium	0.0029J	mg/L	0.010	10/13/20 17:15	
EPA 6020B	Thallium	0.00068J	mg/L	0.0010	10/13/20 17:15	
SM 2450C-2011	Total Dissolved Solids	496	mg/L	10.0	10/08/20 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	10/10/20 05:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	10/10/20 05:29	
EPA 300.0 Rev 2.1 1993	Sulfate	84.0	mg/L	1.0	10/10/20 05:29	
2499073016	PZ-17					
	Performed by	CUSTOME R			10/08/20 16:12	
	рН	7.04	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	112	mg/L	1.0	10/09/20 20:24	
EPA 6020B	Barium	0.074	mg/L	0.010	10/13/20 17:21	
EPA 6020B	Boron	0.30	mg/L	0.10	10/13/20 17:21	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	10/13/20 17:21	
EPA 6020B	Thallium	0.00022J	mg/L	0.0010	10/13/20 17:21	
SM 2450C-2011	Total Dissolved Solids	392	mg/L	10.0	10/08/20 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	10/13/20 22:47	
EPA 300.0 Rev 2.1 1993	Sulfate	89.1	mg/L	1.0	10/13/20 22:47	



Project: MITCHELL CCR
Pace Project No.: 92499073

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499073017	PZ-18			-		
	Performed by	CUSTOME R			10/08/20 16:12	
	рН	6.91	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	129	mg/L	1.0	10/09/20 20:28	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	10/13/20 17:44	
EPA 6020B	Barium	0.023	mg/L	0.010	10/13/20 17:44	
EPA 6020B	Boron	0.39	mg/L	0.10	10/13/20 17:44	
EPA 6020B	Lead	0.000042J	mg/L	0.0050	10/13/20 17:44	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	10/13/20 17:44	
SM 2450C-2011	Total Dissolved Solids	425	mg/L	10.0	10/08/20 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	10/13/20 23:01	
EPA 300.0 Rev 2.1 1993	Sulfate	87.3	mg/L	1.0	10/13/20 23:01	
92499073018	PZ-33					
	Performed by	CUSTOME R			10/08/20 16:12	
	рН	7.04	Std. Units		10/08/20 16:12	
EPA 6010D	Calcium	94.7	mg/L	1.0	10/09/20 20:33	
EPA 6020B	Antimony	0.00037J	mg/L	0.0030	10/13/20 17:49	
EPA 6020B	Barium	0.048	mg/L	0.010	10/13/20 17:49	
EPA 6020B	Boron	0.35	mg/L	0.10	10/13/20 17:49	
SM 2450C-2011	Total Dissolved Solids	337	mg/L	10.0	10/08/20 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	2.0	mg/L	1.0	10/13/20 23:15	
EPA 300.0 Rev 2.1 1993	Sulfate	54.6	mg/L	1.0	10/13/20 23:15	



ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: EB-01	Lab ID:	92499073001	Collecte	ed: 10/06/20	0 10:45	Received: 10/	07/20 09:37 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical I	Method: EPA 6	6010D Pre	paration Met	thod: Ef	PA 3010A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	βA				
Calcium	ND	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 21:52	7440-70-2	
6020 MET ICPMS	Analytical I	Method: EPA 6	6020B Pre	paration Met	hod: EF	PA 3005A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	βA				
Antimony	0.00048J	mg/L	0.0030	0.00028	1	10/07/20 15:28	10/07/20 20:46	7440-36-0	
Barium	0.00079J	mg/L	0.010	0.00071	1	10/07/20 15:28	10/07/20 20:46	7440-39-3	
Boron	0.0087J	mg/L	0.10	0.0052	1	10/07/20 15:28	10/07/20 20:46	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/07/20 15:28	10/07/20 20:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/07/20 15:28	10/07/20 20:46	7440-48-4	
₋ead	ND	mg/L	0.0050	0.000036	1	10/07/20 15:28	10/07/20 20:46	7439-92-1	
_ithium	ND	mg/L	0.030	0.00081	1	10/07/20 15:28	10/07/20 20:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/07/20 15:28	10/07/20 20:46	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/07/20 15:28	10/07/20 20:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/07/20 15:28	10/07/20 20:46	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	7470A Pre	paration Met	hod: EF	PA 7470A			
	Pace Analy	tical Services	- Peachtre	e Corners, C	βA				
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:42	7439-97-6	
2540C Total Dissolved Solids	Analytical I	Method: SM 24	450C-2011						
	Pace Analy	tical Services	- Peachtre	e Corners, C	βA				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/07/20 14:57		
300.0 IC Anions 28 Days	Analytical I	Method: EPA 3	300.0 Rev 2	2.1 1993					
	Pace Analy	tical Services	- Asheville						
Chloride	ND	mg/L	1.0	0.60	1		10/09/20 18:00	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 18:00	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/09/20 18:00		



ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-2D	Lab ID:	92499073002	Collecte	ed: 10/06/20	12:20	Received: 10/	/07/20 09:37 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Pace Ana	Method: lytical Services	- Charlotte	:					
Performed by	CUSTOME R				1		10/08/20 16:12		
рН	8.72	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	-	Method: EPA 6 ytical Services				PA 3010A			
Calcium	22.7	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 21:57	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 ytical Services		•		PA 3005A			
Antimony	0.0013J	mg/L	0.0030	0.00028	1	10/07/20 15:28	10/07/20 20:52	7440-36-0	
Barium	0.0039J	mg/L	0.010	0.00071	1	10/07/20 15:28	10/07/20 20:52	7440-39-3	
Boron	0.018J	mg/L	0.10	0.0052	1	10/07/20 15:28	10/07/20 20:52	7440-42-8	
Chromium	0.0065J	mg/L	0.010	0.00055	1	10/07/20 15:28	10/07/20 20:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/07/20 15:28	10/07/20 20:52	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/07/20 15:28	10/07/20 20:52	7439-92-1	
Lithium	0.00099J	mg/L	0.030	0.00081	1	10/07/20 15:28	10/07/20 20:52	7439-93-2	
Molybdenum	0.00069J	mg/L	0.010	0.00069	1	10/07/20 15:28	10/07/20 20:52	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/07/20 15:28	10/07/20 20:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/07/20 15:28	10/07/20 20:52	7440-28-0	
7470 Mercury		Method: EPA 7 ytical Services				² A 7470A			
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:44	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 24 ytical Services		e Corners, C	ΘA				
Total Dissolved Solids	81.0	mg/L	10.0	10.0	1		10/07/20 14:57		
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services							
Chloride	2.3	mg/L	1.0	0.60	1		10/09/20 18:14	16887-00-6	
Fluoride	0.073J	mg/L	0.10	0.050	1		10/09/20 18:14	16984-48-8	
Sulfate	3.1	mg/L	1.0	0.50	1		10/09/20 18:14		



ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: FB-01	Lab ID:	92499073003	Collecte	d: 10/06/20	12:55	Received: 10/	07/20 09:37 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA 6	6010D Prep	aration Met	thod: EF	PA 3010A			
	Pace Anal	ytical Services	- Peachtree	e Corners, C	ЭΑ				
Calcium	ND	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:10	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prep	aration Met	thod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtree	e Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 16:44	7440-36-0	
Barium	ND	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 16:44	7440-39-3	
Boron	ND	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 16:44	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 16:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 16:44	7440-48-4	
_ead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 16:44	7439-92-1	
_ithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 16:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 16:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 16:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 16:44	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prep	aration Met	hod: EF	PA 7470A			
-	Pace Anal	ytical Services	- Peachtree	e Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:46	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Anal	ytical Services	- Peachtree	e Corners, C	ЭΑ				
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/07/20 14:57		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2	.1 1993					
•	•	ytical Services							
Chloride	ND	mg/L	1.0	0.60	1		10/09/20 18:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 18:29		
Sulfate	ND	mg/L	1.0	0.50	1		10/09/20 18:29		



Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

Sample: PZ-32	Lab ID:	92499073004	Collecte	d: 10/06/20	15:00	Received: 10/	07/20 09:37 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical I Pace Analy	Method: /tical Services	- Charlotte						
Performed by	CUSTOME R				1		10/08/20 16:12		
рН		Std. Units			1		10/08/20 16:12		
6010D ATL ICP	•	Method: EPA 6 /tical Services				PA 3010A			
Calcium	62.8	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:14	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 tical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 16:50	7440-36-0	
Barium	0.015	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 16:50	7440-39-3	
Boron	0.015J	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 16:50	7440-42-8	
Chromium	0.00072J	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 16:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 16:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 16:50	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 16:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 16:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 16:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 16:50	7440-28-0	
7470 Mercury		Method: EPA 7 /tical Services				A 7470A			
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:53	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 24 /tical Services		e Corners, C	GΑ				
Total Dissolved Solids	169	mg/L	10.0	10.0	1		10/07/20 14:57		
300.0 IC Anions 28 Days	•	Method: EPA 3 /tical Services		.1 1993					
Chloride	2.3	mg/L	1.0	0.60	1		10/09/20 20:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 20:13		
Sulfate	1.9	mg/L	1.0	0.50	1		10/09/20 20:13		



Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

Sample: PZ-1D	Lab ID:	92499073005	Collecte	ed: 10/06/20	12:00	Received: 10/	07/20 09:37 M	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Pace Anal	Method: ytical Services	- Charlotte	;					
Performed by	CUSTOME R				1		10/08/20 16:12		
рН	7.35	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	-	Method: EPA 6 ytical Services				PA 3010A			
Calcium	50.5	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:19	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 ytical Services		•		² A 3005A			
Antimony	0.0021J	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 17:39	7440-36-0	В
Barium	0.015	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 17:39	7440-39-3	
Boron	0.015J	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:39	7440-42-8	
Chromium	0.0021J	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 17:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 17:39	7440-48-4	
Lead	0.000066J	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 17:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 17:39	7439-93-2	
Molybdenum	0.00090J	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 17:39	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 17:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 17:39	7440-28-0	
7470 Mercury	-	Method: EPA 7 ytical Services				A 7470A			
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:56	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 24 ytical Services		e Corners, C	ΘA				
Total Dissolved Solids	153	mg/L	10.0	10.0	1		10/07/20 14:57		
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services							
Chloride	3.0	mg/L	1.0	0.60	1		10/09/20 20:29	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 20:29	16984-48-8	
Sulfate	2.4	mg/L	1.0	0.50	1		10/09/20 20:29		



Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

Sample: PZ-31	Lab ID:	92499073006	Collecte	d: 10/06/20	0 14:55	Received: 10/	07/20 09:37 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical Pace Ana	Method: lytical Services	- Charlotte						
Performed by	CUSTOME R				1		10/08/20 16:12		
рН	7.01	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	98.8	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:23	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	0.00045J	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 17:45	7440-36-0	В
Barium	0.0075J	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 17:45	7440-39-3	
Boron	0.011J	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:45	7440-42-8	
Chromium	0.0013J	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 17:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 17:45	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 17:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 17:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 17:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 17:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 17:45	7440-28-0	
7470 Mercury	•	Method: EPA 7 lytical Services				PA 7470A			
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 19:58	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 24 lytical Services		Corners, C	GΑ				
Total Dissolved Solids	254	mg/L	10.0	10.0	1		10/07/20 14:58		
300.0 IC Anions 28 Days	•	Method: EPA 3 lytical Services		.1 1993					
Chloride	3.4	mg/L	1.0	0.60	1		10/09/20 20:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 20:44		
Sulfate	0.98J	mg/L	1.0	0.50	1		10/09/20 20:44		



Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

Sample: PZ-14	Lab ID:	92499073007	Collecte	d: 10/06/20	0 11:30	Received: 10/	07/20 09:37 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical Pace Anal	Method: ytical Services	- Charlotte						
Performed by	CUSTOME R				1		10/08/20 16:12		
рН	7.01	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	•	Method: EPA 6 ytical Services				PA 3010A			
Calcium	111	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:27	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 ytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 17:51	7440-36-0	В
Barium	0.016	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 17:51	7440-39-3	
Boron	0.026J	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:51	7440-42-8	
Chromium	0.00098J	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 17:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 17:51	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 17:51	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 17:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 17:51	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 17:51	7440-28-0	
7470 Mercury		Method: EPA 7 ytical Services				PA 7470A			
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 20:01	7439-97-6	
2540C Total Dissolved Solids	,	Method: SM 24 lytical Services		e Corners, 0	GΑ				
Total Dissolved Solids	241	mg/L	10.0	10.0	1		10/07/20 14:58		
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		.1 1993					
Chloride	4.4	mg/L	1.0	0.60	1		10/09/20 20:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 20:59		
Sulfate	11.0	mg/L	1.0	0.50	1		10/09/20 20:59		



Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

Sample: PZ-23A	Lab ID:	92499073008	Collecte	ed: 10/06/20	0 14:25	Received: 10/	07/20 09:37 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
r didilieleis		- Office				- ———	- Analyzeu		— Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte						
Performed by	CUSTOME				1		10/08/20 16:12		
рН	R 6.78	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Me	thod: El	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (GΑ				
Calcium	144	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:32	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Me	thod: El	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (GΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 17:56	7440-36-0	
Barium	0.037	mg/L	0.010	0.00071	1	10/09/20 14:00			
Boron	0.16	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 17:56	7440-42-8	
Chromium	0.0015J	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 17:56	7440-47-3	
Cobalt	0.00067J	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 17:56	7440-48-4	
_ead	0.000047J	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 17:56	7439-92-1	
_ithium	0.00097J	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 17:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 17:56	7439-98-7	
Selenium	0.0027J	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 17:56	7782-49-2	
Γhallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00			
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	thod: Ef	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, (GΑ				
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 20:03	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, (GΑ				
Total Dissolved Solids	462	mg/L	10.0	10.0	1		10/07/20 14:58		
300.0 IC Anions 28 Days	Analytical	Method: EPA	300.0 Rev 2	2.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	7.0	mg/L	1.0	0.60	1		10/09/20 21:15	16887-00-6	
Fluoride	0.052J	mg/L	0.10	0.050	1		10/09/20 21:15	16984-48-8	
Sulfate	71.2	mg/L	1.0	0.50	1		10/09/20 21:15		



ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-16	Lab ID:	92499073009	Collecte	d: 10/06/20	0 16:15	Received: 10/	07/20 09:37 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical Pace Ana	Method: lytical Services	- Charlotte						
Performed by	CUSTOME R				1		10/08/20 16:12		
рΗ	7.24	Std. Units			1		10/08/20 16:12		
6010D ATL ICP		Method: EPA 6 lytical Services				PA 3010A			
Calcium	84.0	mg/L	1.0	0.070	1	10/08/20 14:00	10/08/20 22:36	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 18:02	7440-36-0	
Barium	0.034	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:02	7440-39-3	
Boron	0.19	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 18:02	7440-42-8	
Chromium	0.0011J	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 18:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 18:02	7440-48-4	
.ead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 18:02	7439-92-1	
_ithium	ND	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 18:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 18:02	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 18:02	7782-49-2	
⁻ hallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 18:02	7440-28-0	
7470 Mercury	-	Method: EPA 7 lytical Services				PA 7470A			
Mercury	ND	mg/L	0.00050	0.000078	1	10/07/20 13:30	10/07/20 20:05	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 24 lytical Services		e Corners, 0	ЭA				
Total Dissolved Solids	261	mg/L	10.0	10.0	1		10/07/20 14:58		
300.0 IC Anions 28 Days	•	Method: EPA 3 lytical Services		.1 1993					
Chloride	6.4	mg/L	1.0	0.60	1		10/09/20 22:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/09/20 22:32		
Sulfate	42.4	mg/L	1.0	0.50	1		10/09/20 22:32		



Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

Sample: PZ-25	Lab ID:	92499073010	Collecte	ed: 10/07/20	0 09:50	Received: 10/	08/20 09:40 Ma	atrix: Water	
			Report						
Parameters	Results -	Units	Limit	MDL_	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	;					
Performed by	CUSTOME				1		10/08/20 16:12		
рН	R 6.95	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Me	thod: El	PA 3010A			
00.007.112.10.	•	lytical Services		•		7.00.07.			
Calcium	84.2	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 19:48	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	thod: El	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 18:44	7440-36-0	
Barium	0.11	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:44		
Boron	0.18	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 18:44		
Chromium	ND	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 18:44		
Cobalt	0.0014J	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 18:44		
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 18:44		
Lithium	0.0063J	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 18:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 18:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 18:44	7782-49-2	
Thallium	0.00027J	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 18:44	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Pre	paration Met	thod: Ef	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ				
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 11:51	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ				
Total Dissolved Solids	280	mg/L	10.0	10.0	1		10/08/20 16:06		
300.0 IC Anions 28 Days	•	Method: EPA							
Chloride	1.8	mg/L	1.0	0.60	1		10/10/20 03:41	16887-00-6	
Fluoride	0.13	mg/L	0.10	0.050	1		10/10/20 03:41	16984-48-8	
Sulfate	38.1	mg/L	1.0	0.50	1		10/10/20 03:41	14808-79-8	



ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: FD-02	Lab ID:	92499073011	Collecte	d: 10/07/20	00:00	Received: 10/	08/20 09:40 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA 6	6010D Prep	aration Met	thod: EF	PA 3010A			
	Pace Analy	tical Services	- Peachtree	Corners, C	ЭΑ				
Calcium	85.7	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 19:52	7440-70-2	
6020 MET ICPMS	Analytical I	Method: EPA 6	6020B Prep	aration Met	thod: EF	PA 3005A			
	Pace Analy	tical Services	- Peachtree	Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 18:50	7440-36-0	
Barium	0.11	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:50	7440-39-3	
Boron	0.19	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 18:50	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 18:50	7440-47-3	
Cobalt	0.0014J	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 18:50	7440-48-4	
_ead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 18:50	7439-92-1	
Lithium	0.0062J	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 18:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 18:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 18:50	7782-49-2	
Thallium	0.00027J	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 18:50	7440-28-0	
7470 Mercury	Analytical I	Method: EPA 7	7470A Prep	aration Met	hod: EF	PA 7470A			
	Pace Analy	tical Services	- Peachtree	Corners, C	GΑ				
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 11:53	7439-97-6	
2540C Total Dissolved Solids	Analytical I	Method: SM 24	450C-2011						
	Pace Analy	tical Services	- Peachtree	Corners, C	ЭΑ				
Total Dissolved Solids	288	mg/L	10.0	10.0	1		10/08/20 16:06		
300.0 IC Anions 28 Days	Analytical I	Method: EPA 3	300.0 Rev 2	.1 1993					
•	•	tical Services							
Chloride	1.8	mg/L	1.0	0.60	1		10/10/20 04:27	16887-00-6	
Fluoride	0.14	mg/L	0.10	0.050	1		10/10/20 04:27		
Sulfate	38.3	mg/L	1.0	0.50	1		10/10/20 04:27	14808-79-8	



Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

Sample: PZ-7D	Lab ID:	92499073012	Collecte	d: 10/07/20	12:30	Received: 10/	08/20 09:40 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical		Charlotto						
		ytical Services	- Charlotte						
Performed by	CUSTOME				1		10/08/20 16:12		
рН	R 6.98	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	•	Method: EPA 6 ytical Services				PA 3010A			
Calcium	109	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 19:57	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 ytical Services				² A 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 18:55	7440-36-0	
Barium	0.0061J	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 18:55	7440-39-3	
Boron	0.20	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 18:55	7440-42-8	
Chromium	0.0014J	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 18:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 18:55	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 18:55	7439-92-1	
Lithium	0.0023J	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 18:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 18:55	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 18:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 18:55	7440-28-0	
7470 Mercury	-	Method: EPA 7 ytical Services				A 7470A			
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 11:55	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 24 ytical Services		e Corners, C	ЭΑ				
Total Dissolved Solids	334	mg/L	10.0	10.0	1		10/08/20 16:06		
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		.1 1993					
Chloride	3.9	mg/L	1.0	0.60	1		10/10/20 04:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/10/20 04:43		
Sulfate	48.9	mg/L	1.0	0.50	1		10/10/20 04:43		



Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

Sample: PZ-15	Lab ID:	92499073013	Collecte	d: 10/07/20	0 14:45	Received: 10/	08/20 09:40 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical Pace Ana	Method: lytical Services	- Charlotte						
Performed by	CUSTOME R				1		10/08/20 16:12		
рΗ	7.11	Std. Units			1		10/08/20 16:12		
6010D ATL ICP		Method: EPA 6 lytical Services				PA 3010A			
Calcium	93.5	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:01	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 19:01	7440-36-0	
arium	0.049	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 19:01	7440-39-3	
Boron	0.19	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 19:01	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 19:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 19:01	7440-48-4	
.ead	ND	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 19:01	7439-92-1	
ithium	0.0013J	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 19:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 19:01		
Selenium	ND	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 19:01	7782-49-2	
-hallium	0.00022J	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 19:01		
7470 Mercury	-	Method: EPA 7				PA 7470A			
Mercury	ND	mg/L		0.000078	1	10/12/20 14:30	10/13/20 11:58	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 24 lytical Services		e Corners, (GA				
Total Dissolved Solids	336	mg/L	10.0	10.0	1		10/08/20 16:06		
300.0 IC Anions 28 Days	•	Method: EPA 3 lytical Services		.1 1993					
Chloride	6.6	mg/L	1.0	0.60	1		10/10/20 04:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/10/20 04:58		
Sulfate	80.7	mg/L	1.0	0.50	1		10/10/20 04:58		



ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: PZ-19	Lab ID:	92499073014	Collecte	ed: 10/07/20	0 15:58	Received: 10/	08/20 09:40 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL_	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical	Method:							
	Pace Ana	lytical Services	- Charlotte	;					
Performed by	CUSTOME R				1		10/08/20 16:12		
рН	6.78	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	Analytical	Method: EPA	6010D Pre	paration Me	thod: E	PA 3010A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ				
Calcium	144	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:06	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA	6020B Pre	paration Met	thod: El	PA 3005A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GA				
Antimony	ND	mg/L	0.0030	0.00028	1	10/09/20 14:00	10/12/20 19:07	7440-36-0	
Barium	0.054	mg/L	0.010	0.00071	1	10/09/20 14:00	10/12/20 19:07		
Boron	0.52	mg/L	0.10	0.0052	1	10/09/20 14:00	10/12/20 19:07		
Chromium	ND	mg/L	0.010	0.00055	1	10/09/20 14:00	10/12/20 19:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/09/20 14:00	10/12/20 19:07	7440-48-4	
Lead	0.000042J	mg/L	0.0050	0.000036	1	10/09/20 14:00	10/12/20 19:07	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00081	1	10/09/20 14:00	10/12/20 19:07	7439-93-2	
Molybdenum	0.0019J	mg/L	0.010	0.00069	1	10/09/20 14:00	10/12/20 19:07	7439-98-7	
Selenium	0.0035J	mg/L	0.010	0.0016	1	10/09/20 14:00	10/12/20 19:07	7782-49-2	
Thallium	0.00070J	mg/L	0.0010	0.00014	1	10/09/20 14:00	10/12/20 19:07	7440-28-0	
7470 Mercury	Analytical	Method: EPA	7470A Prej	paration Met	thod: El	PA 7470A			
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GA				
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 12:05	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 2	450C-2011						
	Pace Ana	lytical Services	- Peachtre	e Corners, 0	GΑ				
Total Dissolved Solids	492	mg/L	10.0	10.0	1		10/08/20 16:06		
300.0 IC Anions 28 Days	•	Method: EPA							
Chloride	4.5	mg/L	1.0	0.60	1		10/10/20 05:13	16887-00-6	
Fluoride	0.064J	mg/L	0.10	0.050	1		10/10/20 05:13	16984-48-8	
Sulfate	83.3	mg/L	1.0	0.50	1		10/10/20 05:13	14808-79-8	



ANALYTICAL RESULTS

Project: MITCHELL CCR
Pace Project No.: 92499073

Sample: FD-01	Lab ID:	92499073015	Collected	d: 10/07/20	00:00	Received: 10/	08/20 09:40 Ma	atrix: Water	
			Report						
Parameters	Results	Units	Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
6010D ATL ICP	Analytical	Method: EPA 6	010D Prep	aration Met	thod: EF	PA 3010A			
	Pace Anal	ytical Services	- Peachtree	Corners, C	ЭΑ				
Calcium	138	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:19	7440-70-2	
6020 MET ICPMS	Analytical	Method: EPA 6	6020B Prepa	aration Met	thod: EF	PA 3005A			
	Pace Anal	ytical Services	- Peachtree	Corners, C	ЭΑ				
Antimony	ND	mg/L	0.0030	0.00028	1	10/12/20 15:15	10/13/20 17:15	7440-36-0	
Barium	0.053	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:15	7440-39-3	
Boron	0.55	mg/L	0.10	0.0052	1	10/12/20 15:15	10/13/20 17:15	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/12/20 15:15	10/13/20 17:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/12/20 15:15	10/13/20 17:15	7440-48-4	
₋ead	ND	mg/L	0.0050	0.000036	1	10/12/20 15:15	10/13/20 17:15	7439-92-1	
_ithium	0.014J	mg/L	0.030	0.00081	1	10/12/20 15:15	10/13/20 17:15	7439-93-2	
Molybdenum	0.0019J	mg/L	0.010	0.00069	1	10/12/20 15:15	10/13/20 17:15	7439-98-7	
Selenium	0.0029J	mg/L	0.010	0.0016	1	10/12/20 15:15	10/13/20 17:15	7782-49-2	
Γhallium	0.00068J	mg/L	0.0010	0.00014	1	10/12/20 15:15	10/13/20 17:15	7440-28-0	
7470 Mercury	Analytical	Method: EPA 7	470A Prepa	aration Met	hod: EP	A 7470A			
	Pace Anal	ytical Services	- Peachtree	Corners, C	ЭΑ				
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 12:07	7439-97-6	
2540C Total Dissolved Solids	Analytical	Method: SM 24	450C-2011						
	Pace Anal	ytical Services	- Peachtree	Corners, C	ЭΑ				
Total Dissolved Solids	496	mg/L	10.0	10.0	1		10/08/20 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	300.0 Rev 2.	1 1993					
•	Pace Anal	ytical Services	- Asheville						
Chloride	4.5	mg/L	1.0	0.60	1		10/10/20 05:29	16887-00-6	
Fluoride	0.062J	mg/L	0.10	0.050	1		10/10/20 05:29	16984-48-8	
Sulfate	84.0	mg/L	1.0	0.50	1		10/10/20 05:29	14808-79-8	



Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

Sample: PZ-17	Lab ID:	92499073016	Collecte	d: 10/07/20	0 10:35	Received: 10/	08/20 09:40 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical Pace Ana	Method: lytical Services	- Charlotte						
Performed by	CUSTOME R				1		10/08/20 16:12		
Н	7.04	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	-	Method: EPA 6 lytical Services				PA 3010A			
Calcium	112	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:24	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	ND	mg/L	0.0030	0.00028	1	10/12/20 15:15	10/13/20 17:21	7440-36-0	
arium	0.074	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:21	7440-39-3	
Boron	0.30	mg/L	0.10	0.0052	1	10/12/20 15:15	10/13/20 17:21	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/12/20 15:15	10/13/20 17:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/12/20 15:15	10/13/20 17:21	7440-48-4	
.ead	ND	mg/L	0.0050	0.000036	1	10/12/20 15:15	10/13/20 17:21	7439-92-1	
ithium	0.0029J	mg/L	0.030	0.00081	1	10/12/20 15:15	10/13/20 17:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/12/20 15:15	10/13/20 17:21	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/12/20 15:15	10/13/20 17:21	7782-49-2	
- Thallium	0.00022J	mg/L	0.0010	0.00014	1		10/13/20 17:21		
7470 Mercury	-	Method: EPA 7				PA 7470A			
Mercury	ND	mg/L		0.000078	1	10/12/20 14:30	10/13/20 12:10	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 24 lytical Services		e Corners, (GA				
Total Dissolved Solids	392	mg/L	10.0	10.0	1		10/08/20 16:07		
300.0 IC Anions 28 Days	•	Method: EPA 3 lytical Services		.1 1993					
Chloride	5.7	mg/L	1.0	0.60	1		10/13/20 22:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/13/20 22:47		
Sulfate	89.1	mg/L	1.0	0.50	1		10/13/20 22:47		



Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

Sample: PZ-18	Lab ID:	92499073017	Collecte	d: 10/07/20	12:05	Received: 10/	08/20 09:40 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Pace Anal	Method: ytical Services	- Charlotte						
Performed by	CUSTOME R				1		10/08/20 16:12		
рН	6.91	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	•	Method: EPA 6 ytical Services				PA 3010A			
Calcium	129	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:28	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 ytical Services				PA 3005A			
Antimony	0.0014J	mg/L	0.0030	0.00028	1	10/12/20 15:15	10/13/20 17:44	7440-36-0	
Barium	0.023	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:44	7440-39-3	
Boron	0.39	mg/L	0.10	0.0052	1	10/12/20 15:15	10/13/20 17:44	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/12/20 15:15	10/13/20 17:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/12/20 15:15	10/13/20 17:44	7440-48-4	
Lead	0.000042J	mg/L	0.0050	0.000036	1	10/12/20 15:15	10/13/20 17:44	7439-92-1	
Lithium	0.0030J	mg/L	0.030	0.00081	1	10/12/20 15:15	10/13/20 17:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/12/20 15:15	10/13/20 17:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/12/20 15:15	10/13/20 17:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/12/20 15:15	10/13/20 17:44	7440-28-0	
7470 Mercury		Method: EPA 7 ytical Services				PA 7470A			
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 12:12	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 24 ytical Services		e Corners, C	ΘA				
Total Dissolved Solids	425	mg/L	10.0	10.0	1		10/08/20 16:07		
300.0 IC Anions 28 Days	•	Method: EPA 3 ytical Services		.1 1993					
Chloride	5.0	mg/L	1.0	0.60	1		10/13/20 23:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/13/20 23:01		
Sulfate	87.3	mg/L	1.0	0.50	1		10/13/20 23:01		



Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

Sample: PZ-33	Lab ID:	92499073018	Collecte	d: 10/07/20	0 14:25	Received: 10/	/08/20 09:40 Ma	atrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qua
Field Data	Analytical Pace Ana	Method: lytical Services	- Charlotte						
Performed by	CUSTOME R				1		10/08/20 16:12		
рН	7.04	Std. Units			1		10/08/20 16:12		
6010D ATL ICP	•	Method: EPA 6 lytical Services				PA 3010A			
Calcium	94.7	mg/L	1.0	0.070	1	10/09/20 11:20	10/09/20 20:33	7440-70-2	
6020 MET ICPMS	•	Method: EPA 6 lytical Services				PA 3005A			
Antimony	0.00037J	mg/L	0.0030	0.00028	1	10/12/20 15:15	10/13/20 17:49	7440-36-0	
Barium	0.048	mg/L	0.010	0.00071	1	10/12/20 15:15	10/13/20 17:49	7440-39-3	
Boron	0.35	mg/L	0.10	0.0052	1	10/12/20 15:15	10/13/20 17:49	7440-42-8	
Chromium	ND	mg/L	0.010	0.00055	1	10/12/20 15:15	10/13/20 17:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/12/20 15:15	10/13/20 17:49	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/12/20 15:15	10/13/20 17:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/12/20 15:15	10/13/20 17:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/12/20 15:15	10/13/20 17:49	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/12/20 15:15	10/13/20 17:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/12/20 15:15	10/13/20 17:49	7440-28-0	
7470 Mercury	•	Method: EPA 7 lytical Services				PA 7470A			
Mercury	ND	mg/L	0.00050	0.000078	1	10/12/20 14:30	10/13/20 12:14	7439-97-6	
2540C Total Dissolved Solids	•	Method: SM 24 lytical Services		e Corners, C	ЭΑ				
Total Dissolved Solids	337	mg/L	10.0	10.0	1		10/08/20 16:07		
300.0 IC Anions 28 Days	Analytical	Method: EPA 3	00.0 Rev 2	.1 1993					
	Pace Ana	lytical Services	- Asheville						
Chloride	2.0	mg/L	1.0	0.60	1		10/13/20 23:15	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		10/13/20 23:15		
Sulfate	54.6	mg/L	1.0	0.50	1		10/13/20 23:15		



Project:

MITCHELL CCR

Pace Project No.:

92499073

QC Batch: QC Batch Method: 571861

EPA 3010A

Analysis Method:

EPA 6010D

Analysis Description:

6010D ATL

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples:

92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007,

92499073008, 92499073009

METHOD BLANK: 3028970

Matrix: Water

Units

mg/L

Units

Associated Lab Samples:

92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007,

92499073008, 92499073009

Blank Result Reporting Limit

MDL

Analyzed

Qualifiers

Calcium

ND

1.0

0.070

10/08/20 20:33

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

Parameter

3028971

Spike Conc.

LCS Result

LCS % Rec

MSD

% Rec Limits

Qualifiers

Calcium

Calcium

mg/L

Units

mg/L

3028973

1

92498416020 Result

MS Spike Conc.

MSD

MS Result

0.99J

MS Result

99

MSD

80-120

% Rec Limits

Max RPD

RPD Qual 20 0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3028972

ND

Spike Conc.

1.6

% Rec 1.6

% Rec

76

76

75-125

Date: 10/22/2020 01:11 PM

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.



Project:

MITCHELL CCR

Pace Project No.:

92499073

QC Batch: QC Batch Method: 572126

EPA 3010A

Analysis Method:

EPA 6010D

Analysis Description:

6010D ATL

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples:

92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016,

92499073017, 92499073018

METHOD BLANK: 3030150

Matrix: Water

Associated Lab Samples:

92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016,

92499073017, 92499073018

Blank

Reporting Limit

MDL Analyzed

Qualifiers

Calcium

Units mg/L

ND

1.0

0.070 10/09/20 18:09

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

3030151

Spike Conc.

Result

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Calcium

Units mg/L

0.96J

3030153

3030155

10.4

96 80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3030152

MSD

92499650004 Parameter Units Result

mg/L

Units

mg/L

MS Spike Conc.

Spike MS Conc. Result

1

MSD Result 2.2

2.3

10.3

MS MSD % Rec % Rec

90

MS

% Rec

875

% Rec Limits

75-125

75-125

96

860

Max RPD RPD

3

Calcium

Parameter

Date: 10/22/2020 01:11 PM

Calcium

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030154

92499466005

Result

1660 ug/L

1330 ug/L

MS Spike Conc.

MSD Spike MS Conc.

MSD Result Result

MSD % Rec

% Rec Max **RPD** RPD Limits

Qual 2 20 M1

20

Qual

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.



Project: MITCHELL CCR

Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

QC Batch: 571587 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92499073001, 92499073002

METHOD BLANK: 3027387 Matrix: Water

Associated Lab Samples: 92499073001, 92499073002

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND ND	0.0030	0.00028	10/07/20 18:28	
Barium	mg/L	ND	0.010	0.00071	10/07/20 18:28	
Boron	mg/L	ND	0.10	0.0052	10/07/20 18:28	
Chromium	mg/L	ND	0.010	0.00055	10/07/20 18:28	
Cobalt	mg/L	ND	0.0050	0.00038	10/07/20 18:28	
Lead	mg/L	ND	0.0050	0.000036	10/07/20 18:28	
Lithium	mg/L	ND	0.030	0.00081	10/07/20 18:28	
Molybdenum	mg/L	ND	0.010	0.00069	10/07/20 18:28	
Selenium	mg/L	ND	0.010	0.0016	10/07/20 18:28	
Thallium	mg/L	ND	0.0010	0.00014	10/07/20 18:28	

		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	100	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	ATE: 3027	587		3027588							
	_	2499073002	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	0.0013J	0.1	0.1	0.11	0.11	111	111	75-125	0	20	
Barium	mg/L	0.0039J	0.1	0.1	0.10	0.10	99	98	75-125	2	20	
Boron	mg/L	0.018J	1	1	0.95	0.94	93	93	75-125	0	20	
Chromium	mg/L	0.0065J	0.1	0.1	0.10	0.11	98	99	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	2	20	
Lithium	mg/L	0.00099J	0.1	0.1	0.097	0.095	96	94	75-125	2	20	
Molybdenum	mg/L	0.00069J	0.1	0.1	0.10	0.10	103	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.



QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

MATRIX SPIKE & MATRIX	SPIKE DUPL	ICATE: 3027	587		3027588							
			MS	MSD								
		92499073002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Selenium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.099	0.098	99	98	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.



Project: MITCHELL CCR

LABORATORY CONTROL CAMPLE

Date: 10/22/2020 01:11 PM

Pace Project No.: 92499073

QC Batch: 572214 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92499073003, 92499073004, 92499073005, 92499073006, 92499073007, 92499073008, 92499073009,

92499073010, 92499073011, 92499073012, 92499073013, 92499073014

METHOD BLANK: 3030726 Matrix: Water

Associated Lab Samples: 92499073003, 92499073004, 92499073005, 92499073006, 92499073007, 92499073008, 92499073009,

92499073010, 92499073011, 92499073012, 92499073013, 92499073014

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00040J	0.0030	0.00028	10/12/20 16:10	
Barium	mg/L	ND	0.010	0.00071	10/12/20 16:10	
Boron	mg/L	ND	0.10	0.0052	10/12/20 16:10	
Chromium	mg/L	ND	0.010	0.00055	10/12/20 16:10	
Cobalt	mg/L	ND	0.0050	0.00038	10/12/20 16:10	
Lead	mg/L	ND	0.0050	0.000036	10/12/20 16:10	
Lithium	mg/L	ND	0.030	0.00081	10/12/20 16:10	
Molybdenum	mg/L	ND	0.010	0.00069	10/12/20 16:10	
Selenium	mg/L	ND	0.010	0.0016	10/12/20 16:10	
Thallium	mg/L	ND	0.0010	0.00014	10/12/20 16:10	

LABORATORY CONTROL SAMPLE:	3030727	Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	1.0	102	80-120	
Chromium	mg/L	0.1	0.095	95	80-120	
Cobalt	mg/L	0.1	0.093	93	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.093	93	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX	SPIKE DUPI	LICATE: 3030	728 MS	MSD	3030729							
		92499073004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	110	75-125	2	20	
Barium	mg/L	0.015	0.1	0.1	0.11	0.11	96	98	75-125	1	20	
Boron	mg/L	0.015J	1	1	0.94	0.94	92	92	75-125	0	20	
Chromium	mg/L	0.00072J	0.1	0.1	0.095	0.097	94	96	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.091	0.091	91	91	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.



QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

MATRIX SPIKE & MATRIX S	SPIKE DUPLI	CATE: 3030	728		3030729							
Parameter	Units	92499073004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.098	95	98	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.



Project: MITCHELL CCR

Pace Project No.: 92499073

Selenium

Thallium

Date: 10/22/2020 01:11 PM

QC Batch: 572544 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Peachtree Corners, GA

80-120

80-120

96

93

Associated Lab Samples: 92499073015, 92499073016, 92499073017, 92499073018

METHOD BLANK: 3032350 Matrix: Water

Associated Lab Samples: 92499073015, 92499073016, 92499073017, 92499073018

mg/L

mg/L

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/13/20 16:57	
Barium	mg/L	ND	0.010	0.00071	10/13/20 16:57	
Boron	mg/L	ND	0.10	0.0052	10/13/20 16:57	
Chromium	mg/L	ND	0.010	0.00055	10/13/20 16:57	
Cobalt	mg/L	ND	0.0050	0.00038	10/13/20 16:57	
Lead	mg/L	ND	0.0050	0.000036	10/13/20 16:57	
Lithium	mg/L	ND	0.030	0.00081	10/13/20 16:57	
Molybdenum	mg/L	ND	0.010	0.00069	10/13/20 16:57	
Selenium	mg/L	ND	0.010	0.0016	10/13/20 16:57	
Thallium	mg/L	ND	0.0010	0.00014	10/13/20 16:57	

LABORATORY CONTROL SAMPLE:	3032351					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Antimony	mg/L	0.1	0.10	105	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.99	99	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.094	94	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	

0.1

0.1

MATRIX SPIKE & MATRIX	SPIKE DUPLIC	ATE: 3032	352		3032353							
			MS	MSD								
	9.	2499073016	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	102	75-125	0	20	
Barium	mg/L	0.074	0.1	0.1	0.17	0.17	93	97	75-125	2	20	
Boron	mg/L	0.30	1	1	1.2	1.2	95	95	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.095	0.094	95	94	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	
Lithium	mg/L	0.0029J	0.1	0.1	0.098	0.099	95	96	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.099	96	98	75-125	2	20	

0.096

0.093

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.



Date: 10/22/2020 01:11 PM

QUALITY CONTROL DATA

Project: MITCHELL CCR
Pace Project No.: 92499073

MATRIX SPIKE & MATRIX	SPIKE DUPL	ICATE: 3032		3032353								
		92499073016	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Selenium	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Thallium	mg/L	0.00022J	0.1	0.1	0.092	0.091	92	91	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.



Project:

MITCHELL CCR

Pace Project No.:

92499073

QC Batch: QC Batch Method: 571445

EPA 7470A

Analysis Method:

EPA 7470A

Analysis Description:

7470 Mercury

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples:

92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007, 92499073008, 92499073009

METHOD BLANK: 3026513

Matrix: Water

Associated Lab Samples:

92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007,

92499073008, 92499073009

Blank Result Reporting Limit

MDL

Analyzed

Qualifiers

Mercury

Units mg/L

ND

0.00050

0.000078

10/07/20 19:25

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

Date: 10/22/2020 01:11 PM

Parameter

3026514

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Mercury

Mercury

Units mg/L

92498944001

Result

1.3 ug/L

Units

mg/L

0.0025

0.0026

103

80-120

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3026515

0.0025

MSD Result

0.0035

MS

MSD % Rec % Rec Limits

Max RPD RPD

Qual

MS

0.0025

MSD

Spike Spike Conc. Conc.

Result 0.0036

MS

3026516

% Rec 93

90 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.



Project:

MITCHELL CCR

Pace Project No.:

92499073

QC Batch: QC Batch Method: 572203

EPA 7470A

Analysis Method:

EPA 7470A

Analysis Description:

7470 Mercury

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples:

92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016, 92499073017, 92499073018

METHOD BLANK: 3030665

Matrix: Water

Associated Lab Samples:

92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016,

92499073017, 92499073018

Blank Result Reporting Limit

MDL

Analyzed

Qualifiers

Mercury

Units mg/L

ND

0.00050

0.000078

10/13/20 11:08

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

3030666

Spike Conc.

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Mercury

mg/L

Units

0.0025

0.0025

99

97

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:

3030667

MSD

92499650004 Parameter Units Result

MS Spike Conc.

Spike Conc.

MS Result

3030668

MS % Rec

MSD % Rec

80-120

% Rec Limits RPD

Max RPD

Mercury

Date: 10/22/2020 01:11 PM

0.32 ug/L mg/L

0.0025

0.0028 0.0025

Result 0.0028

MSD

99

75-125

2 20 Qual

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.



Project:

MITCHELL CCR

Pace Project No.:

92499073

QC Batch:

571195

Analysis Method:

SM 2450C-2011

QC Batch Method: SM 2450C-2011 Analysis Description:

2540C Total Dissolved Solids

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples:

92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007,

92499073008, 92499073009

METHOD BLANK: 3025332

Matrix: Water

Associated Lab Samples:

92499073001, 92499073002, 92499073003, 92499073004, 92499073005, 92499073006, 92499073007,

92499073008, 92499073009

Blank

Reporting Limit

MDL

Analyzed

Qualifiers

Total Dissolved Solids

Units mg/L

Units

Result ND

10.0

10.0 10/07/20 14:56

LABORATORY CONTROL SAMPLE:

Parameter

Parameter

Parameter

Parameter

3025333

Spike

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Total Dissolved Solids

mg/L

Conc. 400

339

85

20

10 D6

SAMPLE DUPLICATE: 3025334

92498617001 Units Result

18.0

Dup

22.0

Max **RPD**

84-108

Qualifiers

SAMPLE DUPLICATE:

Total Dissolved Solids

3026975

92499073007

Dup Result

Result

RPD

RPD

Max RPD

Qualifiers

Date: 10/22/2020 01:11 PM

Total Dissolved Solids

Units mg/L

mg/L

Result 241

243

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.



Project:

MITCHELL CCR

Pace Project No.:

92499073

QC Batch: QC Batch Method: 571887

SM 2450C-2011

Analysis Method:

SM 2450C-2011

Analysis Description:

2540C Total Dissolved Solids

Laboratory:

Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples:

92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016, 92499073017, 92499073018

METHOD BLANK: 3029110 Associated Lab Samples:

92499073010, 92499073011, 92499073012, 92499073013, 92499073014, 92499073015, 92499073016,

92499073017, 92499073018

Blank

Reporting Limit

MDL

Analyzed

Qualifiers

Total Dissolved Solids

Units mg/L

Units

Units

mg/L

mg/L

ND

Matrix: Water

10.0

10.0 10/08/20 16:05

LABORATORY CONTROL SAMPLE:

Parameter

SAMPLE DUPLICATE: 3029112

Parameter

Parameter

Parameter

3029111

Spike Conc.

Result

LCS Result

LCS % Rec % Rec Limits

Qualifiers

Total Dissolved Solids

mg/L

400

422

Dup

Result

438

495

RPD

9

1

106

Max

RPD

10

10

84-108

Qualifiers

Total Dissolved Solids

SAMPLE DUPLICATE:

Total Dissolved Solids

3029113

Units

92499073014 Result

92499390001

Result

402

492

Dup Result

RPD

Max RPD

Qualifiers

Date: 10/22/2020 01:11 PM

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.



Project:

MITCHELL CCR

Pace Project No.:

92499073

QC Batch:

571784

3/1/04

Analysis Method:

EPA 300.0 Rev 2.1 1993

QC Batch Method:

EPA 300.0 Rev 2.1 1993

Analysis Description:

300.0 IC Anions

Laboratory:

Pace Analytical Services - Asheville

Associated Lab Samples:

92499073001, 92499073002, 92499073003

METHOD BLANK: 3028427

Matrix: Water

Associated Lab Samples:

Date: 10/22/2020 01:11 PM

92499073001, 92499073002, 92499073003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/09/20 11:29	
Fluoride	mg/L	ND	0.10	0.050	10/09/20 11:29	
Sulfate	mg/L	ND	1.0	0.50	10/09/20 11:29	

LABORATORY CONTROL SAMPLE: 3028428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	48.5	97	90-110	

MATRIX SPIKE & MATRIX SP	3028432											
			MS	MSD								
		92499192001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	38.6	50	50	87.6	87.9	98	99	90-110	0	10	
Fluoride	mg/L	0.57	2.5	2.5	3.0	3.0	98	99	90-110	1	10	
Sulfate	mg/L	309	50	50	353	353	87	87	90-110	0	10	M6

MATRIX SPIKE & MATRIX SF		3028440										
			MS	MSD								
		92499349001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	8.6	50	50	57.4	57.1	98	97	90-110	1	10	
Fluoride	mg/L	0.34	2.5	2.5	2.7	2.7	96	96	90-110	0	10	
Sulfate	mg/L	18.9	50	50	67.9	67.5	98	97	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.



Project:

MITCHELL CCR

Pace Project No.:

92499073

QC Batch: QC Batch Method:

572104

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:

92499073004, 92499073005, 92499073006, 92499073007, 92499073008

METHOD BLANK: 3030077

Matrix: Water

Associated Lab Samples:

Date: 10/22/2020 01:11 PM

 $92499073004,\,92499073005,\,92499073006,\,92499073007,\,92499073008$

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/09/20 12:59	
Fluoride	mg/L	ND	0.10	0.050	10/09/20 12:59	
Sulfate	mg/L	ND	1.0	0.50	10/09/20 12:59	

LABORATORY CONTROL SAMPLE:	3030078					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	51.3	103	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	51.5	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030079					3030080							
		92499205001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
		3243320300 I	Spike	Spike	IVIO	IVISD	IVIO	IVISD	70 NEC		IVIAX	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	3.7	50	50	55.7	58.2	104	109	90-110	4	10	
Fluoride	mg/L	0.34	2.5	2.5	3.0	3.1	106	111	90-110	4	10	M1
Sulfate	mg/L	1080	50	50	1120	1110	76	50	90-110	1	10	M6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3030081 3030082												
			MS	MSD								
		92498983001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	125	50	50	180	174	110	98	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.1	2.1	83	84	90-110	2	10	M1
Sulfate	mg/L	21.6	50	50	74.6	75.1	106	107	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.



Project:

MITCHELL CCR

Pace Project No.:

92499073

QC Batch:

572105

Analysis Method:

EPA 300.0 Rev 2.1 1993

QC Batch Method:

EPA 300.0 Rev 2.1 1993

Analysis Description:

300.0 IC Anions

Laboratory:

Pace Analytical Services - Asheville

Associated Lab Samples:

 $92499073009, \, 92499073010, \, 92499073011, \, 92499073012, \, 92499073013, \, 92499073014, \, 92499073015$

METHOD BLANK: 3030083

LABORATORY CONTROL SAMPLE: 2020004

Matrix: Water

Associated Lab Samples:

Date: 10/22/2020 01:11 PM

		Blank	Reporting			
Parameter	Units	Result	Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/09/20 21:30	
Fluoride	mg/L	ND	0.10	0.050	10/09/20 21:30	
Sulfate	mg/L	ND	1.0	0.50	10/09/20 21:30	

LABORATORY CONTROL SAMPLE.	3030064					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	52.8	106	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	53.0	106	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3030	085		3030086							
			MS	MSD								
		92499073009	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	6.4	50	50	60.6	61.0	108	109	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	109	110	90-110	1	10	
Sulfate	mg/L	42.4	50	50	96.3	96.7	108	109	90-110	0	10	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3030	087		3030088							
			MS	MSD								
		92499354001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD Qua	al
Chloride	mg/L	58.4	50	50	103	103	89	90	90-110	1	10 M1	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.8	107	109	90-110	2	10	
Sulfate	mg/L	39.1	50	50	92.8	93.5	107	109	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.



Project:

MITCHELL CCR

Pace Project No.:

92499073

QC Batch:

572380

5/2360

Analysis Method:

EPA 300.0 Rev 2.1 1993

QC Batch Method:

EPA 300.0 Rev 2.1 1993

Analysis Description:

300.0 IC Anions

Laboratory:

Pace Analytical Services - Asheville

Associated Lab Samples:

92499073016, 92499073017, 92499073018

METHOD BLANK: 3031544

Matrix: Water

Associated Lab Samples:

Date: 10/22/2020 01:11 PM

92499073016, 92499073017, 92499073018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND ND	1.0	0.60	10/11/20 00:03	
Fluoride	mg/L	ND	0.10	0.050	10/11/20 00:03	
Sulfate	mg/L	ND	1.0	0.50	10/11/20 00:03	

LABORATORI CONTROL SAMI LL. 30313	ABORATORY	RY CONTROL SAMPLE:	3031545
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		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	_
Fluoride	mg/L	2.5	2.5	99	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3031	546		3031547							
			MS	MSD								
		92499810001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	10.2	50	50	62.9	62.6	105	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	103	90-110	2	10	
Sulfate	mg/L	5.4	50	50	56.9	57.3	103	104	90-110	1	10	

MATRIX SPIKE & MATRIX SP	IKE DUPL	ICATE: 3031	548		3031549							
			MS	MSD								
		92499831001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Chloride	mg/L	6.6	50	50	58.5	59.1	104	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	100	102	90-110	2	10	
Sulfate	mg/L	9.7	50	50	61.1	61.6	103	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.



QUALIFIERS

Project: MITCHELL CCR
Pace Project No.: 92499073

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

Date: 10/22/2020 01:11 PM

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.

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.



Date: 10/22/2020 01:11 PM

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL CCR
Pace Project No.: 92499073

_ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
2499073002	PZ-2D				
2499073004	PZ-32				
2499073005	PZ-1D				
2499073006	PZ-31				
2499073007	PZ-14				
2499073008	PZ-23A				
2499073009	PZ-16				
2499073010	PZ-25				
2499073012	PZ-7D				
2499073013	PZ-15				
2499073014	PZ-19				
2499073016	PZ-17				
2499073017	PZ-18				
2499073018	PZ-33				
2499073001	EB-01	EPA 3010A	571861	EPA 6010D	571912
2499073002	PZ-2D	EPA 3010A	571861	EPA 6010D	571912
2499073003	FB-01	EPA 3010A	571861	EPA 6010D	571912
2499073004	PZ-32	EPA 3010A	571861	EPA 6010D	571912
2499073005	PZ-1D	EPA 3010A	571861	EPA 6010D	571912
2499073006	PZ-31	EPA 3010A	571861	EPA 6010D	571912
2499073007	PZ-14	EPA 3010A	571861	EPA 6010D	571912
2499073008	PZ-23A	EPA 3010A	571861	EPA 6010D	571912
499073009	PZ-16	EPA 3010A	571861	EPA 6010D	571912
2499073010	PZ-25	EPA 3010A	572126	EPA 6010D	572182
2499073011	FD-02	EPA 3010A	572126	EPA 6010D	572182
2499073012	PZ-7D	EPA 3010A	572126	EPA 6010D	572182
499073013	PZ-15	EPA 3010A	572126	EPA 6010D	572182
499073014	PZ-19	EPA 3010A	572126	EPA 6010D	572182
2499073015	FD-01	EPA 3010A	572126	EPA 6010D	572182
499073016	PZ-17	EPA 3010A	572126	EPA 6010D	572182
2499073017	PZ-18	EPA 3010A	572126	EPA 6010D	572182
2499073018	PZ-33	EPA 3010A	572126	EPA 6010D	572182
2499073001	EB-01	EPA 3005A	571587	EPA 6020B	571622
2499073002	PZ-2D	EPA 3005A	571587	EPA 6020B	571622
2499073003	FB-01	EPA 3005A	572214	EPA 6020B	572248
2499073004	PZ-32	EPA 3005A	572214	EPA 6020B	572248
2499073005	PZ-1D	EPA 3005A	572214	EPA 6020B	572248
499073006	PZ-31	EPA 3005A	572214	EPA 6020B	572248
499073007	PZ-14	EPA 3005A	572214	EPA 6020B	572248
499073008	PZ-23A	EPA 3005A	572214	EPA 6020B	572248
499073009	PZ-16	EPA 3005A	572214	EPA 6020B	572248
499073010	PZ-25	EPA 3005A	572214	EPA 6020B	572248
499073011	FD-02	EPA 3005A	572214	EPA 6020B	572248
2499073012	PZ-7D	EPA 3005A	572214	EPA 6020B	572248
2499073013	PZ-15	EPA 3005A	572214	EPA 6020B	572248
2499073014	PZ-19	EPA 3005A	572214	EPA 6020B	572248



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL CCR
Pace Project No.: 92499073

Date: 10/22/2020 01:11 PM

₋ab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytic Batch
2499073015	FD-01	EPA 3005A	572544	EPA 6020B	572619
2499073016	PZ-17	EPA 3005A	572544	EPA 6020B	572619
2499073017	PZ-18	EPA 3005A	572544	EPA 6020B	572619
2499073018	PZ-33	EPA 3005A	572544	EPA 6020B	572619
2499073001	EB-01	EPA 7470A	571445	EPA 7470A	571630
2499073002	PZ-2D	EPA 7470A	571445	EPA 7470A	571630
2499073003	FB-01	EPA 7470A	571445	EPA 7470A	571630
2499073004	PZ-32	EPA 7470A	571445	EPA 7470A	571630
2499073005	PZ-1D	EPA 7470A	571445	EPA 7470A	571630
2499073006	PZ-31	EPA 7470A	571445	EPA 7470A	571630
2499073007	PZ-14	EPA 7470A	571445	EPA 7470A	571630
2499073008	PZ-23A	EPA 7470A	571445	EPA 7470A	571630
499073009	PZ-16	EPA 7470A	571445	EPA 7470A	571630
2499073010	PZ-25	EPA 7470A	572203	EPA 7470A	572641
2499073011	FD-02	EPA 7470A	572203	EPA 7470A	572641
2499073012	PZ-7D	EPA 7470A	572203	EPA 7470A	572641
2499073013	PZ-15	EPA 7470A	572203	EPA 7470A	572641
2499073014	PZ-19	EPA 7470A	572203	EPA 7470A	572641
499073015	FD-01	EPA 7470A	572203	EPA 7470A	572641
499073016	PZ-17	EPA 7470A	572203	EPA 7470A	572641
499073017	PZ-18	EPA 7470A	572203	EPA 7470A	572641
499073018	PZ-33	EPA 7470A	572203	EPA 7470A	572641
2499073001	EB-01	SM 2450C-2011	571195		
2499073002	PZ-2D	SM 2450C-2011	571195		
2499073003	FB-01	SM 2450C-2011	571195		
2499073004	PZ-32	SM 2450C-2011	571195		
2499073005	PZ-1D	SM 2450C-2011	571195		
2499073006	PZ-31	SM 2450C-2011	571195		
2499073007	PZ-14	SM 2450C-2011	571195		
2499073008	PZ-23A	SM 2450C-2011	571195		
2499073009	PZ-16	SM 2450C-2011	571195		
2499073010	PZ-25	SM 2450C-2011	571887		
2499073011	FD-02	SM 2450C-2011	571887		
2499073012	PZ-7D	SM 2450C-2011	571887		
2499073013	PZ-15	SM 2450C-2011	571887		
2499073014	PZ-19	SM 2450C-2011	571887		
2499073015	FD-01	SM 2450C-2011	571887		
2499073016	PZ-17	SM 2450C-2011	571887		
2499073017	PZ-18	SM 2450C-2011	571887		
499073018	PZ-33	SM 2450C-2011	571887		
499073001	EB-01	EPA 300.0 Rev 2.1 1993	571784		
2499073002	PZ-2D	EPA 300.0 Rev 2.1 1993	571784		
2499073003	FB-01	EPA 300.0 Rev 2.1 1993	571784		
2499073004	PZ-32	EPA 300.0 Rev 2.1 1993	572104		
2499073005	PZ-1D	EPA 300.0 Rev 2.1 1993	572104		
2499073006	PZ-31	EPA 300.0 Rev 2.1 1993	572104		

REPORT OF LABORATORY ANALYSIS



Date: 10/22/2020 01:11 PM

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL CCR
Pace Project No.: 92499073

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92499073007	PZ-14	EPA 300.0 Rev 2.1 1993	572104	_	
92499073008	PZ-23A	EPA 300.0 Rev 2.1 1993	572104		
92499073009	PZ-16	EPA 300.0 Rev 2.1 1993	572105		
92499073010	PZ-25	EPA 300.0 Rev 2.1 1993	572105		
92499073011	FD-02	EPA 300.0 Rev 2.1 1993	572105		
92499073012	PZ-7D	EPA 300.0 Rev 2.1 1993	572105		
92499073013	PZ-15	EPA 300.0 Rev 2.1 1993	572105		
92499073014	PZ-19	EPA 300.0 Rev 2.1 1993	572105		
92499073015	FD-01	EPA 300.0 Rev 2.1 1993	572105		
92499073016	PZ-17	EPA 300.0 Rev 2.1 1993	572380		
92499073017	PZ-18	EPA 300.0 Rev 2.1 1993	572380		
92499073018	PZ-33	EPA 300.0 Rev 2.1 1993	572380		

Pace Analytical Client Name:	BA Power WO#: 92499073
Client Name.	ON POWER MAIN WILLIAM
ourier: Fed Ex UPS USPS Clien	Commercial Pace Oth 92499073
ustody Seal on Cooler/Box Present:	and the seas made. If yes a season we have
acking Material: Bubble Wrep Bubble	Bags None Other Ziplock
hermometer Used 230	Type of Ice: Wet Blue None Samples on ice cooling process has begun
emp should be above freezing to 6°C	Biological Tissue is Frozen: Yes No Comments: Date and Initials of person examining contents: Contents: Comments:
Chain of Custody Present:	Øyes □No □N:A 1.
Chain of Custody Filled Out:	Øyes Ono Onia 2.
Chain of Custody Relinquished:	Gres Ono On/A 3.
Sampler Name & Signature on COC:	ØYes □No □N/A 4.
Samples Arrived within Hold Time:	r Yes □No □N/A 5.
Short Hold Time Analysis (<72hr):	□Yes \$\textstyle \textstyle \tex
Rush Turn Around Time Requested:	DYES DNO DNA 7.
Sufficient Volume:	AYes ONO ONIA 8.
Correct Containers Used: -Pace Containers Used:	⊈yes □No □N/A 9.
Containers Intact:	⊈Yes □No □N/A 10.
Filtered volume received for Dissolved tests	Dyes DNo QN/A 11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix:	WIGHT 12.
All containers needing preservation have been checked. All containers needing preservation are found to be in	TYES ONO ON/A 13.
compliance with EPA recommendation. exceptions: VOA, colform, TOC, O&G, WI-DRO (water)	□Yes □No Initial when CD Lot # of added preservative
Samples checked for dechlorination:	□Yes □No ŪN/A 14.
Headspace in VOA Vials (>6mm):	□Yes □No ØN/A 15.
Trip Blank Present:	Oves MNO DNIA 16.
Trip Blank Custody Seals Present	□Yes □No ØNIA

Client Notification/ Resolution:

Person Contacted:

Comments/ Resolution:

Project Manager Review:

Field Data Required?

Y / N

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date:

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

ice Analytical

Document Name. Bottle Identification Form (BIF)

Document No.: F-CAR-CS-043-Rev.00 Document Issued: March 14, 2019

Page 1 of 1 Issuing Authority Pace Carolinas Quality Office

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

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

Bottom half of box is to list number of bottle

PM: KLH1

Project #

Due Date: 10/21/20

CLIENT: GA-GA Power

	Remail	8P4U-125 mt Pipstic unpresent	BP3U-250 mt Plastic Unpreserved (N/A)	BP2U-S00 mL Plastic Unpreserved (N/A)	marril-1 liter Plastic Unpreserved (N/A)	anec. 125 ml Plastic H2504 (pH < 2) (Cl-)	annew 250 ml, plastic HNO3 (pH < 2)	DE STATE OF STATE OF NACOTATO & NaOH (>9)	DP-4C-125 mt Plastic NeOH (pH > 12) (G-)	undermouthed Glass Jer Unpreserved	Warding March Marc	Security litter Amber HCI (pH < 2)	Autrice Amber Unpreserved (N/A) (Ci-)	AG30-230	AG35-250 mL Amber H2504 (pH < 2)	AGSA(DG3A)-250 mt Amber NH4CI (N/A)(C)	SCHOOL YOUNG (N/A)	MG9T-40 mL VOA Na25203 (N/A)	"CONTAO ML VOA UNP (N/A)	COOR AD ML VOA H3PO4 (N/A)	DOST TO THE PORT HIT SO35 EIR (N/A)	WORK (3 vials par kit)-VPH/Ges kit (N/A)	COCT-125 mL Sterile Plastic (N/A - lab)	SP21-250 mL Sterde Plastic (N/A - lab)	X AADS	BP3A-250 mL Plastic (NH2)2504 (9-2-2)	AGOU-100 mt Amber Unpresent
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Time preservation Date preservation adjusted added pH upon receipt adjusted Type of Preservative Sample ID

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

		0	1/2	de	7	12	15 15 2	10	10 mg	00	7.	6	6	1019	3	2	21	ITEM#		- Contract	Phone:	Email		Address:	Required
		F Soy For An Was	, cr, 10, Pa, L, 19, 10, Ne	WILL WELLEY : B.	SCHOOL STATE	measured bycomody			PE-16	N	22-14		P2-1D	P2-32	FB-01	P2-2D	EB-01	SAMPLE ID SAMPLE ID Cone Character per box. (AZ, 0-91,-) Sample ich must be unique Sample ich must be unique	MATRIX.	STATE OF THE PERSON OF THE PER	(jabraham@southernco.com		Ceorgia Power - Coal Combustion Residuals 2480 Manner Road	을
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TEMP in C				o.	麗											all of		Residual Chlorne (Y/N)	胸隔	11	1	1		00	.ir
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(Y/N) Custody	4	4			18			1	52	28	0	0/	200	27	4/2	8 30	4	2 2			100	1	1	1	*
Sealed Cooler				<	PROCESSION STAMPS			'	-	Č	-	~	2	4	1	4	7	Stoke roung			(02.20)			8	9
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CHAIN-OF-CUSTODY / Analytical Request Document

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

COUR (N/A) Chat Agrophe ntact Saldmes SAMPLE CONDITIONS (N/A) ŏ Cooler Sealed 6.78, 本,04 Regulatory Agency 86.9 Custody 6.95 95 6 State / Location 7.0 (N/A) GA Received on Residual Chlorine (Y/N) Page: TEMP In C TIME Requested Analysis Filtered (Y/N) DATE DATE Signed: 5x-4 145 TL 185, CI, F, SO4 betsy.mcdaniel@pacelabs.com, 4 App. III & App. IV Metals ACCEPTED BY I AFFILIATION scsinvoices@southernco.com N Radium 226/228 N N 7 Analyses Test N/A Other Sie arken Methanol Preservatives Na2SZO3 HOEN 333.1.2 Pace Project Manager: HCI Invoice Information: HNO3 M M 3 3 M Company Name Pace Profile #: H2SO4 Pace Quote Address: TIME 2 Unpreserved 7 N 1 N N N 5 N # OF CONTAINERS M M S M 6 SAMPLER NAME AND SIGNATURE SAMPLE TEMP AT COLLECTION PRINT Name of SAMPLER: 0 26-7-20 SIGNATURE OF SAMPLER: DATE The second TIME END DATE COLLECTED RELINQUISHED BY / AFFILLATION 1445 02.60 ozt 12 1972 12:30 855186/6b G = 14/20 14.28 TIME EW GP/1/20/0:35 20:51 DE/17 SCS10382775 Plant Mitchell CCR START 10/4/201 G 10/20 0/2/20 Required Project Information: Joju Abraham Wood PLC 300 SA CO 5 2 るのの SAMPLE TYPE (G-GRAB C-COMP) 0 d Purchase Order # MATRIX CODE (see valid codes to left) F, 3 3 3 Project Name: Report To: Copy To: Section B Project #: WW. MATRIX
Dirinking Water
Vaster
Waste Water
Product
Soultsoild
Oil
Wipe
Ade
Other Games of Georgia Power - Coal Combustion Residuals (A-Z, 0-9 /, -) Sample Ids must be unique ADDITIONAL COMMENTS jabraham@southernco.com One Character per box. SAMPLE ID WETH 2480 Maner Road Atlanta, GA 30339 FD-Q2 Required Client Information: (404)506-7239 G D ナノ ec 10-1 Requested Due Date DE 44 77 27 70 W S. Car 0 Address. Email TEM # 9 2 e 40 F 12 00 æ

Page 53 of 53

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2020





November 02, 2020

Michelle Barker WOOD E&I 1075 Big Shanty Rd Suite 100 Kennesaw, GA 30144

RE: Project: MITCHELL CCR RADS Pace Project No.: 92499068

Dear Michelle Barker:

Enclosed are the analytical results for sample(s) received by the laboratory between October 07, 2020 and October 08, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

• Pace Analytical Services - Greensburg

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

Sincerely,

Kevin Herring@na

kevin.herring@pacelabs.com 1(704)875-9092

Ken Lung

HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR Kristen Jurinko Ms. Lauren Petty, Southern Co. Services Rhonda Quinn, WOOD E&I Greg Wrenn, WOOD E&I





CERTIFICATIONS

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590 Arizona Certification #: AZ0734 Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547
Connecticut Certification #: PH-0694

Delaware Certification EPA Region 4 DW Rad

Florida/TNI Certification #: E87683 Georgia Certification #: C040 Florida: Cert E871149 SEKS WET

Guam Certification Hawaii Certification Idaho Certification Illinois Certification Indiana Certification Iowa Certification #: 391

Kansas/TNI Certification #: E-10358 Kentucky Certification #: KY90133 KY WW Permit #: KY0098221 KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012 Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020 Maryland Certification #: 308

Massachusetts Certification #: M-PA1457 Michigan/PADEP Certification #: 9991 Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457 New York/TNI Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: R-190 Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010 Pennsylvania/TNI Certification #: 65-00282 Puerto Rico Certification #: PA01457 Rhode Island Certification #: 65-00282

South Dakota Certification
Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3 Utah/TNI Certification #: PA014572017-9 USDA Soil Permit #: P330-17-00091 Vermont Dept. of Health: ID# VT-0282 Virgin Island/PADEP Certification Virginia/VELAP Certification #: 9526 Washington Certification #: C868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad Wyoming Certification #: 8TMS-L



SAMPLE SUMMARY

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92499068001	EB-01	Water	10/06/20 10:45	10/07/20 09:37
92499068002	PZ-2D	Water	10/06/20 12:20	10/07/20 09:37
92499068003	FB-01	Water	10/06/20 12:55	10/07/20 09:37
92499068004	PZ-32	Water	10/06/20 15:00	10/07/20 09:37
92499068005	PZ-1D	Water	10/06/20 12:00	10/07/20 09:37
92499068006	PZ-31	Water	10/06/20 14:55	10/07/20 09:37
92499068007	PZ-14	Water	10/06/20 11:30	10/07/20 09:37
92499068008	PZ-23A	Water	10/06/20 14:25	10/07/20 09:37
92499068009	PZ-16	Water	10/06/20 16:15	10/07/20 09:37
92499068010	PZ-25	Water	10/07/20 09:50	10/08/20 09:40
92499068011	FD-02	Water	10/07/20 00:00	10/08/20 09:40
92499068012	PZ-7D	Water	10/07/20 12:30	10/08/20 09:40
92499068013	PZ-15	Water	10/07/20 14:45	10/08/20 09:40
92499068014	PZ-19	Water	10/07/20 15:58	10/08/20 09:40
92499068015	FD-01	Water	10/07/20 00:00	10/08/20 09:40
92499068016	PZ-17	Water	10/07/20 10:35	10/08/20 09:40
92499068017	PZ-18	Water	10/07/20 12:05	10/08/20 09:40
92499068018	PZ-33	Water	10/07/20 14:25	10/08/20 09:40



SAMPLE ANALYTE COUNT

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92499068001	EB-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068002	PZ-2D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068003	FB-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068004	PZ-32	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068005	PZ-1D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068006	PZ-31	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068007	PZ-14	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068008	PZ-23A	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068009	PZ-16	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068010	PZ-25	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068011	FD-02	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068012	PZ-7D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068013	PZ-15	EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS



SAMPLE ANALYTE COUNT

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068014	PZ-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068015	FD-01	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068016	PZ-17	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068017	PZ-18	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92499068018	PZ-33	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Lab Sample ID	Client Sample ID					
Method	Parameters —	Result —	Units	Report Limit	Analyzed	Qualifiers
92499068001	EB-01					
EPA 9315	Radium-226	0.0778 ±	pCi/L		10/16/20 06:56	
		0.159				
		(0.369) C:84% T:NA				
EPA 9320	Radium-228	1.45 ±	pCi/L		10/21/20 14:50	
		0.589 (0.934)				
		C:67%				
Fotal Dadium Coloulation	Total Dadium	T:77% 1.53 ±	»C:/I		40/02/00 40:04	
Total Radium Calculation	Total Radium	0.748	pCi/L		10/23/20 10:21	
		(1.30)				
2499068002	PZ-2D					
EPA 9315	Radium-226	0.0659 ±	pCi/L		10/16/20 06:56	
		0.161 (0.390)				
		C:81% T:NA				
EPA 9320	Radium-228	0.863 ±	pCi/L		10/21/20 14:50	
		0.660 (1.31)				
		C:52%				
Fatal Dadium Calaulatian	Total Dadium	T:80% 0.929 ±	- C:/I		40/00/00 40:04	
Total Radium Calculation	Total Radium	0.821	pCi/L		10/23/20 10:21	
		(1.70)				
2499068003	FB-01					
EPA 9315	Radium-226	-0.0382 ±	pCi/L		10/16/20 06:56	
		0.0986 (0.364)				
		C:90% T:NA				
EPA 9320	Radium-228	0.783 ±	pCi/L		10/21/20 14:51	
		0.590 (1.17)				
		C:66%				
Total Radium Calculation	Total Radium	T:70% 0.783 ±	»C:/I		10/23/20 10:21	
Total Radium Calculation	Total Radium	0.689	pCi/L		10/23/20 10.21	
		(1.53)				
2499068004	PZ-32					
EPA 9315	Radium-226	0.0478 ±	pCi/L		10/16/20 08:35	
		0.165 (0.425)				
		C:82% T:NA				
EPA 9320	Radium-228	0.323 ±	pCi/L		10/21/20 14:51	
		0.416 (0.886)				
		C:72%				
Total Radium Calculation	Total Radium	T:84% 0.371 ±	nCi/l		10/23/20 10:21	
Julai Radium Calculation	iotai Kaulum	0.371 ± 0.581	pCi/L		10/23/20 10:21	
		(1.31)				

REPORT OF LABORATORY ANALYSIS



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

b Sample ID	Client Sample ID					
ethod	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
499068005	PZ-1D				_	
PA 9315	Radium-226	0.278 ±	pCi/L		10/16/20 08:35	
		0.234 (0.380)				
		(0.380) C:81% T:NA				
PA 9320	Radium-228	0.718 ±	pCi/L		10/21/20 14:51	
		0.482 (0.921)				
		C:64%				
		T:81%				
tal Radium Calculation	Total Radium	0.996 ± 0.716	pCi/L		10/23/20 10:21	
		(1.30)				
499068006	PZ-31					
PA 9315	Radium-226	0.0313 ±	pCi/L		10/16/20 08:35	
		0.149				
		(0.403) C:78% T:NA				
PA 9320	Radium-228	0.245 ±	pCi/L		10/21/20 14:51	
		0.379				
		(0.820) C:71%				
		T:86%				
tal Radium Calculation	Total Radium	0.276 ±	pCi/L		10/23/20 10:21	
		0.528 (1.22)				
499068007	PZ-14	(::==/				
PA 9315	Radium-226	0.220 ±	pCi/L		10/16/20 08:36	
		0.226	F			
		(0.426)				
PA 9320	Radium-228	C:85% T:NA 0.0452 ±	pCi/L		10/21/20 14:51	
710020	radiam 220	0.588	PO#2		10/21/20 11.01	
		(1.35)				
		C:59% T:71%				
tal Radium Calculation	Total Radium	0.265 ±	pCi/L		10/23/20 10:21	
		0.814 (1.78)				
100068008	D7-23A	(1.70)				
		0 644 +	nCi/l		10/16/20 08:37	
A 9313	Radium-220		pCI/L		10/10/20 06.37	
		(0.495)				
ο Α α320	Padium-228		nCi/l		10/21/20 14:51	
A 3020	1\dulu111-220	0.456	po/L		10/21/20 14:01	
		(0.904)				
tal Radium Calculation	Total Radium	1.02 % 1.24 ±	pCi/L		10/23/20 10:21	
		0.810	r			
499068008 PA 9315 PA 9320 tal Radium Calculation	PZ-23A Radium-226 Radium-228 Total Radium	C:83% T:NA 0.596 ± 0.456 (0.904) C:72% T:82% 1.24 ±	pCi/L pCi/L		10/16/20 08: 10/21/20 14: 10/23/20 10:	:51

REPORT OF LABORATORY ANALYSIS



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit Ana	lyzed	Qualifiers
92499068009	PZ-16					
EPA 9315	Radium-226	0.161 ± 0.191 (0.363) C:80% T:NA	pCi/L	10/16/2	20 08:37	
EPA 9320	Radium-228	0.958 ± 0.477 (0.832) C:70% T:82%	pCi/L	10/21/2	20 14:51	
Total Radium Calculation	Total Radium	1.12 ± 0.668 (1.20)	pCi/L	10/23/2	20 10:21	
92499068010	PZ-25					
EPA 9315	Radium-226	0.439 ± 0.164 (0.222) C:91% T:NA	pCi/L	10/19/2	20 18:23	
EPA 9320	Radium-228	0.568 ± 0.418 (0.818) C:70% T:89%	pCi/L	10/27/2	20 15:00	
Total Radium Calculation	Total Radium	1.01 ± 0.582 (1.04)	pCi/L	10/28/2	20 15:13	
2499068011	FD-02					
EPA 9315	Radium-226	0.376 ± 0.148 (0.202) C:89% T:NA	pCi/L	10/19/2	20 18:23	
EPA 9320	Radium-228	0.584 ± 0.506 (1.03) C:67% T:82%	pCi/L	10/27/2	20 15:00	
Total Radium Calculation	Total Radium	0.960 ± 0.654 (1.23)	pCi/L	10/28/2	20 15:13	
2499068012	PZ-7D					
EPA 9315	Radium-226	0.0454 ± 0.112 (0.226) C:91% T:NA	pCi/L	10/19/2	20 18:23	
EPA 9320	Radium-228	0.187 ± 0.505 (1.13) C:64% T:79%	pCi/L	10/27/2	20 15:00	
Total Radium Calculation	Total Radium	0.232 ± 0.617 (1.36)	pCi/L	10/28/2	20 15:13	

REPORT OF LABORATORY ANALYSIS



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2499068013	PZ-15					
EPA 9315	Radium-226	0.251 ±	pCi/L		10/19/20 18:12	
		0.152 (0.252)				
		C:84% T:NA				
EPA 9320	Radium-228	0.967 ± 0.548	pCi/L		10/27/20 15:01	
		(1.00)				
		C:66%				
otal Radium Calculation	Total Radium	T:81% 1.22 ±	pCi/L		10/28/20 15:13	
olai Radium Calculation	Iotal Radium	0.700	pC//L		10/20/20 15.15	
		(1.25)				
2499068014	PZ-19					
EPA 9315	Radium-226	0.517 ±	pCi/L		10/19/20 18:13	
		0.178 (0.226)				
		C:87% T:NA				
EPA 9320	Radium-228	0.376 ±	pCi/L		10/30/20 10:54	
		0.326 (0.655)				
		C:84%				
		T:80%				
otal Radium Calculation	Total Radium	0.893 ± 0.504	pCi/L		11/01/20 12:49	
		(0.881)				
2499068015	FD-01					
PA 9315	Radium-226	0.595 ±	pCi/L		10/19/20 18:14	
		0.204				
		(0.280) C:91% T:NA				
PA 9320	Radium-228	0.492 ±	pCi/L		10/27/20 14:59	
		0.345				
		(0.655) C:70%				
		T:88%				
Total Radium Calculation	Total Radium	1.09 ±	pCi/L		10/28/20 15:13	
		0.549 (0.935)				
2499068016	PZ-17	(= = = =)				
EPA 9315	Radium-226	0.374 ±	pCi/L		10/19/20 18:15	
		0.149				
		(0.204) C:90% T:NA				
EPA 9320	Radium-228	0.0584 ±	pCi/L		10/27/20 14:59	
		0.354	r			
		(0.818) C:65%				
		T:82%				
otal Radium Calculation	Total Radium	0.432 ±	pCi/L		10/28/20 15:13	
		0.503 (1.02)				



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92499068017	PZ-18					
EPA 9315	Radium-226	0.365 ± 0.182 (0.292) C:81% T:NA	pCi/L		10/19/20 18:15	
EPA 9320	Radium-228	-0.0286 ± 0.365 (0.861) C:68% T:81%	pCi/L		10/27/20 14:59	
Total Radium Calculation	Total Radium	0.365 ± 0.547 (1.15)	pCi/L		10/28/20 15:13	
92499068018	PZ-33					
EPA 9315	Radium-226	0.442 ± 0.169 (0.233) C:86% T:NA	pCi/L		10/19/20 17:55	
EPA 9320	Radium-228	-0.0127 ± 0.311 (0.730) C:73% T:83%	pCi/L		10/27/20 11:52	
Total Radium Calculation	Total Radium	0.442 ± 0.480 (0.963)	pCi/L		10/28/20 15:13	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: EB-01 PWS:	Lab ID: 9249 Site ID:	9068001 Collected: 10/06/20 10:45 Sample Type:	Received:	10/07/20 09:37	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0778 ± 0.159 (0.369) C:84% T:NA	pCi/L	10/16/20 06:50	6 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	1.45 ± 0.589 (0.934) C:67% T:77%	pCi/L	10/21/20 14:50	0 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.53 ± 0.748 (1.30)	pCi/L	10/23/20 10:2	1 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-2D PWS:	Lab ID: 9249 Site ID:	9068002 Collected: 10/06/20 12:20 Sample Type:	Received:	10/07/20 09:37	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0659 ± 0.161 (0.390) C:81% T:NA	pCi/L	10/16/20 06:5	6 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.863 ± 0.660 (1.31) C:52% T:80%	pCi/L	10/21/20 14:5	0 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.929 ± 0.821 (1.70)	pCi/L	10/23/20 10:2	1 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: FB-01 PWS:	Lab ID: 9249 Site ID:	9068003 Collected: 10/06/20 12:55 Sample Type:	Received:	10/07/20 09:37	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	-0.0382 ± 0.0986 (0.364) C:90% T:NA	pCi/L	10/16/20 06:5	6 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.783 ± 0.590 (1.17) C:66% T:70%	pCi/L	10/21/20 14:5	1 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.783 ± 0.689 (1.53)	pCi/L	10/23/20 10:2	1 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-32 PWS:	Lab ID: 9249906 Site ID:	8004 Collected: 10/06/20 15:00 Sample Type:	Received:	10/07/20 09:37	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.0478 ± 0.165 (0.425) C:82% T:NA	pCi/L	10/16/20 08:3	5 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.323 ± 0.416 (0.886) C:72% T:84%	pCi/L	10/21/20 14:5	1 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.371 ± 0.581 (1.31)	pCi/L	10/23/20 10:2	1 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-1D PWS:	Lab ID: 9249906 Site ID:	8005 Collected: 10/06/20 12:00 Sample Type:	Received:	10/07/20 09:37	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.278 ± 0.234 (0.380) C:81% T:NA	pCi/L	10/16/20 08:3	5 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.718 ± 0.482 (0.921) C:64% T:81%	pCi/L	10/21/20 14:5	1 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	0.996 ± 0.716 (1.30)	pCi/L	10/23/20 10:2	1 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-31 PWS:	Lab ID: 92499 Site ID:	9068006 Collected: 10/06/20 14:55 Sample Type:	Received:	10/07/20 09:37	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.0313 ± 0.149 (0.403) C:78% T:NA	pCi/L	10/16/20 08:3	5 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.245 ± 0.379 (0.820) C:71% T:86%	pCi/L	10/21/20 14:5	1 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.276 ± 0.528 (1.22)	pCi/L	10/23/20 10:2	1 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-14 PWS:	Lab ID: 9249 Site ID:	9068007 Collected: 10/06/20 11:30 Sample Type:	Received:	10/07/20 09:37	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.220 ± 0.226 (0.426) C:85% T:NA	pCi/L	10/16/20 08:30	6 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.0452 ± 0.588 (1.35) C:59% T:71%	pCi/L	10/21/20 14:5	1 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.265 ± 0.814 (1.78)	pCi/L	10/23/20 10:2	1 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-23A PWS:	Lab ID: 9249 Site ID:	D9068008 Collected: 10/06/20 14:25 Sample Type:	Received:	10/07/20 09:37	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.644 ± 0.354 (0.495) C:83% T:NA	pCi/L	10/16/20 08:3	7 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.596 ± 0.456 (0.904) C:72% T:82%	pCi/L	10/21/20 14:5	1 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.24 ± 0.810 (1.40)	pCi/L	10/23/20 10:2	1 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-16 PWS:	Lab ID: 9249906 Site ID:	8009 Collected: 10/06/20 16:15 Sample Type:	Received:	10/07/20 09:37	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.161 ± 0.191 (0.363) C:80% T:NA	pCi/L	10/16/20 08:3	7 13982-63-3	
	Pace Analytical Ser	vices - Greensburg				
Radium-228	EPA 9320	0.958 ± 0.477 (0.832) C:70% T:82%	pCi/L	10/21/20 14:5	1 15262-20-1	
	Pace Analytical Ser	vices - Greensburg				
Total Radium	Total Radium Calculation	1.12 ± 0.668 (1.20)	pCi/L	10/23/20 10:2	1 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-25 PWS:	Lab ID: 92499 Site ID:	9068010 Collected: 10/07/20 09:50 Sample Type:	Received:	10/08/20 09:40	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				-
Radium-226	EPA 9315	0.439 ± 0.164 (0.222) C:91% T:NA	pCi/L	10/19/20 18:23	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.568 ± 0.418 (0.818) C:70% T:89%	pCi/L	10/27/20 15:00	0 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.01 ± 0.582 (1.04)	pCi/L	10/28/20 15:13	3 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: FD-02 PWS:	Lab ID: 9249 Site ID:	9068011 Collected: 10/07/20 00:00 Sample Type:	Received:	10/08/20 09:40	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.376 ± 0.148 (0.202) C:89% T:NA	pCi/L	10/19/20 18:23	3 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.584 ± 0.506 (1.03) C:67% T:82%	pCi/L	10/27/20 15:00	0 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.960 ± 0.654 (1.23)	pCi/L	10/28/20 15:13	3 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-7D PWS:	Lab ID: 9249906 Site ID:	Sample Type: 0.00000000000000000000000000000000000	Received:	10/08/20 09:40	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	rvices - Greensburg				
Radium-226	EPA 9315	0.0454 ± 0.112 (0.226) C:91% T:NA	pCi/L	10/19/20 18:23	3 13982-63-3	
	Pace Analytical Ser	rvices - Greensburg				
Radium-228	EPA 9320	0.187 ± 0.505 (1.13) C:64% T:79%	pCi/L	10/27/20 15:00) 15262-20-1	
	Pace Analytical Ser	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.232 ± 0.617 (1.36)	pCi/L	10/28/20 15:13	3 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-15 PWS:	Lab ID: 9249 Site ID:	9068013 Collected: 10/07/20 14:45 Sample Type:	Received:	10/08/20 09:40	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.251 ± 0.152 (0.252) C:84% T:NA	pCi/L	10/19/20 18:12	2 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.967 ± 0.548 (1.00) C:66% T:81%	pCi/L	10/27/20 15:0	1 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	1.22 ± 0.700 (1.25)	pCi/L	10/28/20 15:13	3 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-19 PWS:	Lab ID: 924990 Site ID:	Collected: 10/07/20 15:58 Sample Type:	Received:	10/08/20 09:40	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical S	ervices - Greensburg				
Radium-226	EPA 9315	0.517 ± 0.178 (0.226) C:87% T:NA	pCi/L	10/19/20 18:13	3 13982-63-3	
	Pace Analytical S	ervices - Greensburg				
Radium-228	EPA 9320	0.376 ± 0.326 (0.655) C:84% T:80%	pCi/L	10/30/20 10:54	1 15262-20-1	
	Pace Analytical S	ervices - Greensburg				
Total Radium	Total Radium Calculation	0.893 ± 0.504 (0.881)	pCi/L	11/01/20 12:49	7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: FD-01 PWS:	Lab ID: 9249906 Site ID:	8015 Collected: 10/07/20 00:00 Sample Type:	Received:	10/08/20 09:40	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Ser	vices - Greensburg				
Radium-226	EPA 9315	0.595 ± 0.204 (0.280) C:91% T:NA	pCi/L	10/19/20 18:14	13982-63-3	
	Pace Analytical Serv	vices - Greensburg				
Radium-228	EPA 9320	0.492 ± 0.345 (0.655) C:70% T:88%	pCi/L	10/27/20 14:59	9 15262-20-1	
	Pace Analytical Serv	vices - Greensburg				
Total Radium	Total Radium Calculation	1.09 ± 0.549 (0.935)	pCi/L	10/28/20 15:13	3 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-17 PWS:	Lab ID: 9249 Site ID:	9068016 Collected: 10/07/20 10:35 Sample Type:	Received:	10/08/20 09:40	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				
Radium-226	EPA 9315	0.374 ± 0.149 (0.204) C:90% T:NA	pCi/L	10/19/20 18:1	5 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	0.0584 ± 0.354 (0.818) C:65% T:82%	pCi/L	10/27/20 14:59	9 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.432 ± 0.503 (1.02)	pCi/L	10/28/20 15:13	3 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-18 PWS:	Lab ID: 9249900 Site ID:	68017 Collected: 10/07/20 12:05 Sample Type:	Received:	10/08/20 09:40	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Se	rvices - Greensburg				
Radium-226	EPA 9315	0.365 ± 0.182 (0.292) C:81% T:NA	pCi/L	10/19/20 18:15	5 13982-63-3	
	Pace Analytical Se	rvices - Greensburg				
Radium-228	EPA 9320	-0.0286 ± 0.365 (0.861) C:68% T:81%	pCi/L	10/27/20 14:59	9 15262-20-1	
	Pace Analytical Se	rvices - Greensburg				
Total Radium	Total Radium Calculation	0.365 ± 0.547 (1.15)	pCi/L	10/28/20 15:13	3 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Sample: PZ-33 PWS:	Lab ID: 9249 Site ID:	9068018 Collected: 10/07/20 14:25 Sample Type:	Received:	10/08/20 09:40	Matrix: Water	
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical	Services - Greensburg				-
Radium-226	EPA 9315	0.442 ± 0.169 (0.233) C:86% T:NA	pCi/L	10/19/20 17:5	5 13982-63-3	
	Pace Analytical	Services - Greensburg				
Radium-228	EPA 9320	-0.0127 ± 0.311 (0.730) C:73% T:83%	pCi/L	10/27/20 11:52	2 15262-20-1	
	Pace Analytical	Services - Greensburg				
Total Radium	Total Radium Calculation	0.442 ± 0.480 (0.963)	pCi/L	10/28/20 15:13	3 7440-14-4	



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

QC Batch: 418036 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92499068004, 92499068005, 92499068006, 92499068007, 92499068008, 92499068009

METHOD BLANK: 2021119 Matrix: Water

Associated Lab Samples: 92499068004, 92499068005, 92499068006, 92499068007, 92499068008, 92499068009

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.149 ± 0.187 (0.370) C:81% T:NA
 pCi/L
 10/16/20 08:35

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.



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

QC Batch: 418039 Analysis Method: EPA 9320

QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92499068001, 92499068002, 92499068003, 92499068004, 92499068005, 92499068006, 92499068007,

92499068008, 92499068009

METHOD BLANK: 2021122 Matrix: Water

Associated Lab Samples: 92499068001, 92499068002, 92499068003, 92499068004, 92499068005, 92499068006, 92499068007,

92499068008, 92499068009

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-228
 0.318 ± 0.365 (0.768) C:69% T:89%
 pCi/L
 10/21/20 11:32

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.



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

QC Batch: 418550 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92499068010, 92499068011, 92499068012, 92499068013, 92499068014, 92499068015, 92499068016,

92499068017, 92499068018

METHOD BLANK: 2023109 Matrix: Water

Associated Lab Samples: 92499068010, 92499068011, 92499068012, 92499068013, 92499068014, 92499068015, 92499068016,

92499068017, 92499068018

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.0638 ± 0.107 (0.209) C:94% T:NA
 pCi/L
 10/19/20 18:23

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.



Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Associated Lab Samples:

QC Batch: 418553 Analysis Method: EPA 9320 QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg 92499068010, 92499068011, 92499068012, 92499068013, 92499068014, 92499068015, 92499068016,

92499068017, 92499068018

METHOD BLANK: 2023116 Matrix: Water

92499068010, 92499068011, 92499068012, 92499068013, 92499068014, 92499068015, 92499068016, Associated Lab Samples:

92499068017, 92499068018

Parameter Act ± Unc (MDC) Carr Trac Units Analyzed Qualifiers Radium-228 0.454 ± 0.339 (0.661) C:71% T:93% pCi/L 10/27/20 11:52

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.



Project: MITCHELL CCR RADS

EPA 9315

Pace Project No.: 92499068

QC Batch Method:

QC Batch: 418033

Analysis Description: 9315 Total Radium

Analysis Method:

Laboratory: Pace Analytical Services - Greensburg

EPA 9315

Associated Lab Samples: 92499068001, 92499068002, 92499068003

METHOD BLANK: 2021110 Matrix: Water

Associated Lab Samples: 92499068001, 92499068002, 92499068003

 Parameter
 Act ± Unc (MDC) Carr Trac
 Units
 Analyzed
 Qualifiers

 Radium-226
 0.0872 ± 0.193 (0.458) C:76% T:NA
 pCi/L
 10/16/20 06:43

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



QUALIFIERS

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Act - Activity

Date: 11/02/2020 03:01 PM

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.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Date: 11/02/2020 03:01 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
92499068001	EB-01	EPA 9315	418033		
2499068002	PZ-2D	EPA 9315	418033		
2499068003	FB-01	EPA 9315	418033		
2499068004	PZ-32	EPA 9315	418036		
2499068005	PZ-1D	EPA 9315	418036		
2499068006	PZ-31	EPA 9315	418036		
2499068007	PZ-14	EPA 9315	418036		
2499068008	PZ-23A	EPA 9315	418036		
2499068009	PZ-16	EPA 9315	418036		
2499068010	PZ-25	EPA 9315	418550		
2499068011	FD-02	EPA 9315	418550		
2499068012	PZ-7D	EPA 9315	418550		
2499068013	PZ-15	EPA 9315	418550		
2499068014	PZ-19	EPA 9315	418550		
2499068015	FD-01	EPA 9315	418550		
2499068016	PZ-17	EPA 9315	418550		
2499068017	PZ-18	EPA 9315	418550		
2499068018	PZ-33	EPA 9315	418550		
2499068001	EB-01	EPA 9320	418039		
2499068002	PZ-2D	EPA 9320	418039		
2499068003	FB-01	EPA 9320	418039		
2499068004	PZ-32	EPA 9320	418039		
2499068005	PZ-1D	EPA 9320	418039		
2499068006	PZ-31	EPA 9320	418039		
2499068007	PZ-14	EPA 9320	418039		
2499068008	PZ-23A	EPA 9320	418039		
2499068009	PZ-16	EPA 9320	418039		
2499068010	PZ-25	EPA 9320	418553		
2499068011	FD-02	EPA 9320	418553		
2499068012	PZ-7D	EPA 9320	418553		
2499068013	PZ-15	EPA 9320	418553		
2499068014	PZ-19	EPA 9320	418553		
2499068015	FD-01	EPA 9320	418553		
2499068016	PZ-17	EPA 9320	418553		
2499068017	PZ-18	EPA 9320	418553		
2499068018	PZ-33	EPA 9320	418553		
2499068001	EB-01	Total Radium Calculation	419980		
2499068002	PZ-2D	Total Radium Calculation	419980		
2499068003	FB-01	Total Radium Calculation	419980		
2499068004	PZ-32	Total Radium Calculation	419980		
2499068005	PZ-1D	Total Radium Calculation	419980		
2499068006	PZ-31	Total Radium Calculation	419980		
2499068007	PZ-14	Total Radium Calculation	419980		
2499068008	PZ-23A	Total Radium Calculation	419980		
2499068009	PZ-16	Total Radium Calculation	419980		
22-10000000					



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MITCHELL CCR RADS

Pace Project No.: 92499068

Date: 11/02/2020 03:01 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92499068011	FD-02	Total Radium Calculation	420676		
92499068012	PZ-7D	Total Radium Calculation	420676		
92499068013	PZ-15	Total Radium Calculation	420676		
92499068014	PZ-19	Total Radium Calculation	421105		
92499068015	FD-01	Total Radium Calculation	420676		
92499068016	PZ-17	Total Radium Calculation	420676		
92499068017	PZ-18	Total Radium Calculation	420676		
92499068018	PZ-33	Total Radium Calculation	420676		

Sample Condition Upon Receipt W0#:92499068 Client Name: Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other Tracking #: **国际的国际** □ no yes yes Seals intact: Custody Seal on Cooler/Box Present: ZIPlock ☐Bubble Bags ☐ None ☑ Other Packing Material: Bubble Wrap Samples on ice, cooling process has begun Type of Ice: Web Blue None Thermometer Used Date and initials of person examining Biological Tissue is Frozen: Yas No 0 1017/70 contents: Cooler Temperature Comments: Temp should be above freezing to 6°C ØYes □No CN/A Chain of Custody Present: VYes ONo □N/A Chain of Custody Filled Out: Yes ONo □N/A 3. Chain of Custody Relinquished: Yes ONo □N/A Sampler Name & Signature on COC: ØYes □No □N/A Samples Arrived within Hold Time: DYes ZNo □N/A Short Hold Time Analysis (<72hr): TYes No DNA Rush Turn Around Time Requested: ØYes □No □N/A Sufficient Volume: Yes DNo □N/A Correct Containers Used: ØYes □No □N/A -Pace Containers Used: ØYes □No □N/A 10. Containers Intact: **ZNIA** □Yes □No 11 Filtered volume received for Dissolved tests ØYes , □No □N/A 112 Sample Labels match COC: GW WI Matrix: Includes date/time/ID/Analysis All containers needing preservation have been checked. ØYes □No □N/A 13. All containers needing preservation are found to be in DYes ONO ON/A compliance with EPA recommendation. Lot # of added Initial when □Yes □No preservative completed exceptions: VOA, colform, TOC, O&G, WI-DRO (water) DYES DNO MINIA 14 Samples checked for dechlorination: IDN/A 15. ☐Yes ☐No

Pace Trip Blank Lot # (if purchased):		Field Date Decelord?	Y / N
Person Contacted:	Date/Time:	Field Data Required?	
Comments/ Resolution:			
Project Manager Review:		Date:	

DN/A 16.

DNIA

TYES ZINO

☐Yes ☐No

Headspace in VOA Vials (>6mm):

Trip Blank Custody Seals Present

Trip Blank Present:

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

Document Issued: March 14, 2019 Document Name. Page 1 of 1 Bottle Identification Form (BIF) Issuing Authority ace Analytical . Pace Carolinas Quality Office Document No.: WO#:92499068 F-CAR-CS-043-Rev.00 Project # *Checkmark top half of box If pH and/or dechlorination is Due Date: 10/28/20 and within the acceptance range for preservation PM: KLH1 CLIENT: GA-GA Power applians: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg **Buttom half of box is to list number of bottle AGSA[DG3A]-250 mt Amber NHACI [N/A][C]-} (N/A) (CI-) BP3A-250 mL Plestic (NH2)25O4 (9.3-9.7) AGOU-100 mL Amber Unpreserved vials WGFU-Wide-mouthed Glass Jar Unpreserved BP42-125 mL Plastic ZN Acetata & NaOH (>9) V/GK (3 viels per kit)-vPH/Get kit (N/A) AG1U-1 liter Amber Unpreserved (N/A) (O.) SP2T-250 mL Steribe Plastic (N/A - lab) SPST-125 mL Sterile Plastic (N/A - Iab) BP4U-125 mt Pissic Unpreserved (N/A) (G-) VSGU-20 mt Scinditation viels (N/A) BP4C-125 mL Plastic NaOH (pH > 12) (G-) VOAK (6 vials per htt)-5035 Eit (N/A) BP45-125 mL Platic H2504 (pH < 2) (CH) AG35-250 mL Amber H2504 (pH < 2) gP3U-250 mL Plastic Unpreserved (N/A) BP1U-1 liter Plastic Unpreserved (N/A) AG15-1 liter Amber H2504 (pH < 2) AG3U-250 mL Amber Unpreserved VG9T-40 mL VOA Na25203 (N/A) BP3N-250 mL plastic HNO3 (pH < 2) DG9P-40 mL VOA H3PO4 (N/A) AG1H-1 liter Amber HCl (pH < 2) 892U-500 mL Plastic Unpreserved VG9U-40 mL VOA Unp (N/A) DG9H-40 mL VOA HCI (N/A) ADS a 2 5 10 11 12 pH Adjustment Log for Preserved Samples Lot Amount of Preservative Time preservation Date preservation adjusted added pH upon receipt adjusted Type of Preservative Sample ID

Note: Whenever there is a discrepancy affecting North Cerolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification O

The state of the s

Out of hold, incorrect preservative, out of temp, incorrect containers

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CHAIN-OF-CUSTODY / Analytical Request Document The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. First Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

SAMPLE ID		Client Information;	Section B Required P	Project to	nformation					Sett	ion C	formati	000	HYK	E	M	Ψ.	811	17	46	99	260	30	cale	WZ.	1	-	
Notice of California Company Notice of California	ompany								- 6	Atte	ntion.	5-C5	inv	oices	£250	uther	псо	com	-		,,	9	0,	7 0/	20.2	201		1000 10
Marchannes Order Propert Name	wess		Сору Та	Wood	PLC							Name:											010	7 78	140	,,,,	- WU	DIC ST.
COUNTRY The COUNTRY TH	nai i		D orthon O							_													-		Regula	tory Age	KY -	Charles
SAMPLE ID One Character per box. Sample 16 PA - DI START END ONE Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. Sample 16 Real Leader 6 PA START END One Character per box. START END One Char	none:								_				_												OF E	PD		
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SAMPLE ID One Character par box. And An			P. reference of	012	2-16	0/7	- 10	102	_	Pac	Pron	10 4.	333	1.2	_	_		-	_							GA		
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2 PZ-2D 3 FB-Ø1 4 PZ-32 5 WG 6/6/20 15:00 5 Z 3 2 1 1 1 7 Z Z Z 5 WG 6/6/20 15:00 5 Z 3 2 I 1 I 7 Z Z Z 7 Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	1		1	WT (G wleb	10:45				5	2	3		П				-	-			T	1					
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7	6									5	2	3						2	f	1 1		П	1	T	П	_	_	Seler
8 P2-23A Sw G W/6/201425 52 3 2111 (.78) 9 P2-16 Sw G W/6/201615 52 3 2111 1 724 (soler.) 10 12 NORTHWAY CONTENTS.	7	P2-14				11:30		¥.		5	2	3						2	1	11		П	1	T				
9 PZ-16 Sul 6 19/6 ko 16:15 52 3 2 1/1 1 7.24 Golers 10 12 ADDITIONS CONTENTS. BELLOWING DISCONSIDERS.	8			Se (5 10/6/20	14:25				5	2	3			T			Z	1	11		П			П			
10 11 12 ADDITIONAL CONFIDENTS. BELLEGISTED BY (APELIATION OUT). THE	9	PZ-16		800	5 196 kg	16:15				5	2	3		П	T		1	2	1	11			1		П	,	-	Cooler
ADDITIONAL CONSIDERS. SELECTIONS OF ADDITIONS OF ADDITIO	10							X	1					П	1	I	L	П	7	\Box	1	$\overline{\mathbf{H}}$	-	+	FI-			
ADDITIONAL CONSIDERS. SELECTION OF APPENDIX.	11			$\pm \pm$			-		7	2	7				T		1	П			П	П	1		П			
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PRINT Name of SAMPLER TEXTEM PATHER ETAL						SIGN		OF SAMPL			6)cc	-	h	2	7		D	ATE	Signed - 6	-2	0			F	S S S	Custod Sealed Cooler	Sample Intect (Y/N)
Bu, Cr, Co, Pb, Li, Hg, Mo, Se, TI CI, F, Soy for An ivas SAMPLER NAME AND BUSHATURE						SIGN		OF SAMPL		San	1)c.	4	h	r	7				Signed 0 - 6	- 2	0	-		ТЕМР	Rece (YA)	Seule	3

Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: LAL
Date: 10/15/2020
Worklist: 56677
Matrix: DW

Method Blank Assessment

MB Sample ID 2021110

MB concentration: 0.087

MB Counting Uncertainty: 0.193

MB MDC: 0.458

MB Numerical Performance Indicator: 0.89

MB Status vs Numerical Indicator: N/A

MB Status vs. MDC: Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS56677	LCSD56677
Count Date:	10/16/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.044	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.524	
Target Conc. (pCi/L, g, F):	4.586	
Uncertainty (Calculated):	0,055	
Result (pCi/L, g, F):	3,940	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.731	
Numerical Performance Indicator:	-1,73	i
Percent Recovery:	85.91%	
Status vs Numerical Indicator:		
Status vs Recovery;		
Upper % Recovery Limits:		
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.: Duplicate Sample I.D. Sample Result (pCi/L, g, F): Sample Result Counting Uncertainty (pCi/L, g, F): Sample Duplicate Result (pCi/L, g, F):	92498068019DUP 1.060 0.421	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample Duplicate Result Counting Uncertainty (pCv/L, g, F): Are sample and/or duplicate results below RL?	0.373	ine opage bolow.
Duplicate Numerical Performance Indicator; Duplicate RPD:		92498068019 92498068019DUF
Duplicate Status vs Numerical Indicator; Duplicate Status vs RPD: % RPD Limit:		

Analyst Must Manually Enter All Fields Highlighted in Yellow.

	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):		
1	MSD Spike Uncertainty (calculated):		
1	Sample Result:		
1	Sample Result Counting Uncertainty (pCi/L, g, F):		
ı	Sample Matrix Spike Result:		
ı	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
۱	Sample Matrix Spike Duplicate Result:		
۱	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
ı	MS Numerical Performance Indicator:		l
l	MSD Numerical Performance Indicator:		
ı	MS Percent Recovery:		
ı	MSD Percent Recovery:		
l	MS Status vs Numerical Indicator:		
l	MSD Status vs Numerical Indicator:		
ı	MS Status vs Recovery:		
ı	MSD Status vs Recovery: MS/MSD Upper % Recovery Limits:		
ı			
1	MS/MSD Lower % Recovery Limits:		l

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

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

Comments:

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Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: LAL
Date: 10/15/2020
Worklist: 56677
Matrix: DW

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LC\$56677	LCSD56677
Count Date:	10/16/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.044	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.524	
Target Conc. (pCi/L, g, F):	4.586	
Uncertainty (Calculated):	0.055	
Result (pCl/L, g, F):	3.940	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.731	
Numerical Performance Indicator:	-1.73	
Percent Recovery:	85.91%	
Status vs Numerical Indicator:	N/A	{
Status vs Recovery:	Pass	[
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.;	92498068014	Enter Duplicate
Duplicate Sample I.D.	92498068014DUP	sample IDs if
Sample Result (pCi/L, g, F):	1.691	other than
Sample Result Counting Uncertainty (pCl/L, g, F):	0.495	LCS/LC\$D in
Sample Duplicate Result (pCi/L, g, F);	1.375	the space below.
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.433	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	0.942	92498068014
Duplicate RPD:	20,61%	92498068014DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Analyst Must Manually Enter All Fields Highlighted in Yellow.

ļ	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):		
ı	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):		
i	Sample Result:		
ı	Sample Result Counting Uncertainty (pCi/L, g, F):		
	Sample Matrix Spike Result:		
ı	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
ı	Sample Matrix Spike Duplicate Result:		
l	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): MS Numerical Performance Indicator:		
l	MSD Numerical Performance Indicator:		
	MSD Numerical Performance indicator. MS Percent Recovery:		
l	MSD Percent Recovery:		
ı	MS Status vs Numerical indicator:		
l	MSD Status vs Numerical Indicator:		
ı	MS Status vs Recovery:		
ı	MSD Status vs Recovery:		
l	MS/MSD Upper % Recovery Limits:		
1	MS/MSD Lower % Recovery Limits:		

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

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

Comments:

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MM 10/10/2020

Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: LAL
Date: 10/15/2020
Worklist: 56679

Worklist: 56679 Matrix: DW

Method Blank Assessment

MB Sample iD 2021119

MB concentration: 0.149

MB Counting Uncertainty: 0.186

MB MDC: 0.370

MB Numerical Performance Indicator: 1.56

MB Status vs Numerical Indicator: N/A

MB Status vs. MDC: Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Υ
	LCS56679	LCSD56679
Count Date:	10/16/2020	10/16/2020
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.044	24,044
Volume Used (ml.):	0.10	0.10
Aliquot Volume (L, g, F):	0.512	0.519
Target Conc. (pCi/L, g, F):	4.697	4,635
Uncertainty (Calculated):	0.056	0.056
Result (pCi/L, g, F):	3.930	4.568
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.735	0.757
Numerical Performance Indicator:	-2.04	-0.17
Percent Recovery:	83.67%	98.56%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:		125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment		
Sample I.D.: Duplicate Sample I.D.: Sample Rasult (pCi/L, g, F): Sample Result Counting Uncertainty (pCi/L, g, F): Sample Duplicate Result (pCi/L, g, F): Are sample and/or duplicate results below Rt.?	0.735 4.568 0.757	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Numerical Performance Indicator: (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: Duplicate Status vs Numerical Indicator; Duplicate Status vs RPD: WRPD Limit:	-1.186 16.34% N/A	

Analyst Must Manually Enter All Fields Highlighted in Yellow.

	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):		j
	Spike Valume 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):		1
_	MS Spike Uncertainty (calculated):		j .
	MSD Spike Uncertainty (calculated):		
]	Sample Result:		
1	Sample Result Counting Uncertainty (pCi/L, g, F):		
	Sample Matrix Spike Result:		
ı	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
ı	Sample Matrix Spike Duplicate Result:		
ı	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
ı	MS Numerical Performance Indicator:		
ı	MSD Numerical Performance Indicator:		
1	MS Percent Recovery:		
1	MSD Percent Recovery:		
ł	MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator:		
ı	MSD Status vs Numerical indicator: MS Status vs Recovery:		
ı	MSD Status vs Recovery:		
ı	MS/MSD Upper % Recovery Limits:		
ı	MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.		
Sample MS I.D.		
Sample MSD I.D.		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	į.	
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Duplicate Numerical Performance Indicator:		
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:		ļ
MS/ MSD Duplicate Status vs Numerical Indicator:		
MS/ MSD Duplicate Status vs RPD:		
% RPD Limit:	l	<u> </u>

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

Comments:

Oproligiação

LAM10/10/2020

Quality Control Sample Performance Assessment

Test: Ra-226 Analyst: LAL Date: 10/19/2020 Worklist: 56785 DW Matrix:

Method Blank Assessment MB Sample ID 2023109 MB concentration: 0.064 M/B Counting Uncertainty: 0.107 MB MDĆ: 0.209 MB Numerical Performance Indicator. 1.17 MB Status vs Numerical Indicator: N/A MB Status vs. MDC: Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS56785	LCSD56785
Count Date:	10/19/2020	10/19/2020
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24,043	24.043
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	D.501
Target Conc. (pCi/L, g, F):	4.778	4.800
Uncertainty (Calculated):	0,057	0.058
Result (pCi/L, g, F):	4.258	4.127
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.347	0.379
Numerical Performance Indicator:	-2.90	-3.44
Percent Recovery:	89.12%	85.99%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:		Pass
Upper % Recovery Limits:		125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment		
Sample I.D.: Duplicate Sample I.D.: Sample Result (pCi/L, g, F): Sample Result Counting Uncertainty (pCi/L, g, F): Sample Duplicate Result (pCi/L, g, F): Are sample and/or duplicate results below RL? Are sample and/or duplicate results below RL?	0.347 4.127	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Numerical Performance Indicator: (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD: Duplicate Status vs Numerical Indicator: Duplicate Status vs RPD: % RPD Limit:	0,500 3,58% N/A	92499068016 92499068016DUP

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):]
M\$ Aliquot (L, g, F):	
MS Target Conc.(pCi/L, g, F):	
MSD Aliquot (L, g, F):	1
MSD Target Conc. (pCi/L, g, F):	
MS Spike Uncertainty (calculated):	
MSD Spike Uncertainty (calculated):	
Sample Result:	
Sample Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Result:	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery;	
MS/MSD Upper % Recovery Limits:	
MS/MSD Lower % Recovery Limits:]

Sample Collection Date:

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment

ı	١	Matrix Spike/Matrix Spike Duplicate Sample Assessment
l	ı	Sample I.D.
ŀ	1	Sample MS l.D.
Į	ı	Sample MSD t.D.
1	1	Sample Matrix Spike Result:
ŀ	1	Matrix Spike Result Counting Uncertainty (pCi/L, g, F):
ı	1	Sample Matrix Spike Duplicate Result:
J	1	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):
1	1	Duplicate Numerical Performance Indicator;
þ	1	(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:
_	1	MS/ MSD Duplicate Status vs Numerical Indicator:
	1	MS/ MSD Duplicate Status vs RPD:
	1	% RPD Limit;

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

Comments:

M10/20/2020

MS/MSD 1

MS/MSD 2

Quality Control Sample Performance Assessment

Test: Ra-226
Analyst: LAL
Date: 10/19/2020
Worklist: 56785
Matrix: DW

Method Blank Assessment

MB Sample ID 2023109

MB concentration: 0.064

M/B Counting Uncertainty: 0.107

MB MDC: 0.209

MB Numerical Performance Indicator: 1.17

MB Status vs Numerical Indicator: N/A

MB Status vs MDC: Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS56785	LCSD56785
Count Date:	10/19/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24,043	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0,503	
Target Conc. (pCi/L, g, F):	4,778	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.258	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.347	
Numerical Performance Indicator:	-2,90	
Percent Recovery:	89.12%	
Status vs Numericel Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	l 75%	1

Duplicate Sample Assessment		
On the Line	00400000046	Enter Duplicate
Sample I.D.:	92499068016	Enter Dupitcate
Duplicate Sample I.D.	92499068016DUP	sample IDs if
Sample Result (pCi/L, g, F):	0.374	other than
Sample Result Counting Uncertainty (pCi/L, g, F):	0.138	LCS/LCSD in
Sample Duplicate Result (pCi/L, g, F):	0.488	the space below.
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.176]
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	-1.0 0 0	92499068016
Duplicate RPD:	2 6.54%	92499068016DUP
Duplicate Status vs Numerical Indicator:	/, N/A /	
Duplicate Status vs RPD;		
% RPD Limit:	25%	

	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):	
l	MSD Spike Uncertainty (calculated):	
	Sample Result	
	Sample Result Counting Uncertainty (pCi/L, g, F):	
	Sample Matrix Spike Result:	
	Matrix Spike Result Counting Uncertainty (pCl/L, g, F):	
	Sample Matrix Spike Duplicate Result:	
	Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	

MS Numerical Performance Indicator: MSD Numerical Performance Indicator:

MS Percent Recovery:
MSD Percent Recovery:
MS Status vs Numerical Indicator:
MSD Status vs Numerical Indicator:
MS Status vs Recovery:
MSD Status vs Recovery:
MSD Upper % Recovery Limits:
MS/MSD Lower % Recovery Limits:

Sample Collection Date:

MS/MSD 1

MS/MSD 2

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Sample Matrix Spike Control Assessment

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	
Sample MS I.D.	
Sample MSD I.D.	
Sample Matrix Spike Result;	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
Duplicate Numerical Performance Indicator:	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	
MS/ MSD Duplicate Status vs Numerical Indicator:	
MS/ MSD Duplicate Status vs RPD:	
% RPD Limit;	1

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

Comments

***Batch-most be re-propped due to unaccoptable precicion- λ/ρ

101 NA 10/20/2020 M10/20/2020



Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	10/14/2020
Worklist:	56682
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2021122
MB concentration:	0.318
M/B 2 Sigma CSU:	0.365
MB MDC:	0,768
MB Numerical Performance Indicator:	1.70
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Ϋ́
	LCS56682	LCSD56682
Count Date:	10/21/2020	10/21/2020
Spike I.D.:	20-030	20-030
Decay Corrected Spike Concentration (pCi/mL):	37.943	37.943
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F);	0,813	0.813
Target Conc. (pCi/L, g, F):	4.669	4.670
Uncertainty (Calculated):	0.229	0.229
Result (pCi/L, g, F):	4.756	5.987
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.070	1.314
Numerical Performance Indicator:	0.16	1.93
Percent Recovery:	101.86%	128.20%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:		135%
Lower % Recovery Limits:	60%	60%

N/A Pass 135% 60%	
Enter Duplicate sample IDs if other than LCS/LCSD in le space below.	Matrix (I

Sample Collection Date: Sample I.D. Sample MSD 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 MS (mL): MS Aliquot (L, g, F): MS Target Conc.(pCi/L, g, F): MS Target Conc.(pCi/L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: MSD Numerical Performance Indicator: MSD Numerical Performance Indicator: MSD Percent Recovery: MSD Percent Recovery: MSD Status vs Numerical Indicator: MSD Status vs Numerical Indicator:	Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
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): MSD Aliquot (L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result: 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: MSD Numerical Performance Indicator: MSD Numerical Performance Indicator: MSD Numerical Performance Indicator: MSD Percent Recovery: MSD Status vs Numerical Indicator:	Sample Collection Date:		
Sample MSD I.D. Spike I.D.: MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc.(pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result: Sample Result: Sample Result: Sample Matrix Spike Result: Matrix Spike Result: Matrix Spike Result: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: MSD Numerical Performance Indicator: MSD Numerical Performance Indicator: MSD Percent Recovery: MSD Status vs Numerical Indicator:	Sample 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 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 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: MSD Percent Recovery: MSD Percent Recovery: MSD Percent Recovery: MSD Status vs Numerical Indicator:	Sample MS I.D.		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MS (mL): MS Aliquot (L, g, F): MS Target Conc.(pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result: Sample Result: Sample Result: Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: MSD Numerical Performance Indicator: MSD Numerical Performance Indicator: MSD Percent Recovery: MSD Percent Recovery: MSD Percent Recovery: MSD Status vs Numerical Indicator:	Sample MSD I.D.		
Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result: Sample Result: Sample Result: Sample Result: Sample Matrix Spike Result: Matrix Spike Result: Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: MSD Numerical Performance Indicator: MSD Numerical Performance Indicator: MSD Percent Recovery: MSD Percent Recovery: MSD Percent Recovery: MSS Status vs Numerical Indicator:	Spike I.D.:		
Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Target Conc. (pCi/L, g, F): MSD Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result: Sample Result: Sample Result: Sample Result: Sample Matrix Spike Result: Matrix Spike Result: Matrix Spike Result: Matrix Spike Result: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: MSD Numerical Performance Indicator: MSD Numerical Performance Indicator: MSD Percent Recovery: MSD Percent Recovery: MSD Percent Recovery: MSD Status vs Numerical Indicator:			
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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: Sample Result: Sample Matrix Spike Result: Matrix Spike 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: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator:	• • • • • • • • • • • • • • • • • • • •		
MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result: Sample Result: Sample Result: Sample Matrix Spike Result: Matrix Spike Result: Matrix Spike Result: Sample Matrix Spike Result: Matrix Spike Result: Matrix Spike Result: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: MSD Numerical Performance Indicator: MSD Numerical Performance Indicator: MSD Percent Recovery: MSD Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator:			
MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated): Sample Result: Sample Result: Sample Result: Sample Matrix Spike Result: Matrix Spike Result: 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Result: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: Matrix Spike Duplicate Result: MSD Numerical Performance Indicator: MSD Numerical Performance Indicator: MSD Percent Recovery: MSD Percent Recovery: MSD Status vs Numerical Indicator:			
MSD Spike Uncertainty (calculated): Sample Result: Sample Result: Sample Result: Sample Matrix Spike Result: Matrix Spike 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: MSD Numerical Performance Indicator: MSD Percent Recovery: MSD Percent Recovery: MSD Status vs Numerical Indicator:			
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: MSD Percent Recovery: MSD Percent Recovery: MSSD Status vs Numerical Indicator:	1		
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: MSD Percent Recovery: MSD Percent Recovery: MSD Status vs Numerical Indicator:	1 ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '		
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: MSD Percent Recovery: MSD Percent Recovery: MSD Status vs Numerical Indicator:			
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: MSP Percent Recovery: MSD Percent Recovery: MSS Status vs Numerical Indicator:			
Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MSP Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator:	, · · ·		
Matrix Spike Duplicate Result 2 Sigma CSÜ (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator:	, , , , , ,		
MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator:			
MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator:			
MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator:	1		
MSD Percent Recovery: MS Status vs Numerical Indicator:			
MS Status vs Numerical Indicator:			
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MS Status vs Recovery:	\$ · · · · · · · · · · · · · · · · · · ·		
MSD Status vs Recovery:			
MS/MSD Upper % Recovery Limits:	MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % 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.

% RPD Limit:

Duplicate Status vs RPD:

Sample I.D.:

Duplicate Sample I.D.

Sample Result (pCi/L, g, F):

Sample Result 2 Sigma CSU (pCi/L, g, F):

Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):

(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:

Are sample and/or duplicate results below RL?

Duplicate Numerical Performance Indicator:

Duplicate Status vs Numerical Indicator:

Sample Duplicate Result (pCi/L, g, F):

LCS56682

LCSD56682

4.756

1.070

5.987

1.314

NO

-1.424

22.90%

Pass

Pass

36%

Comments:

Duplicate Sample Assessment





Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	10/21/2020
Worklist:	56787
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2023116
MB concentration:	0.454
M/B 2 Sigma CSU:	0.339
MB MDC:	0.661
MB Numerical Performance Indicator:	2,62
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS56787	LCSD56787
Count Date:	10/27/2020	
Spike I.D.:	20-030	
Decay Corrected Spike Concentration (pCi/mL):	37.867	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.810	
Target Conc. (pCi/L, g, F):	4.675	
Uncertainty (Calculated):	0,229	
Result (pCi/L, g, F):	4,038	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.957	
Numerical Performance Indicator:	-1.27	
Percent Recovery:	86.38%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.;		Enter Duplicate
Duplicate Sample I.D.	92499068018DUP	sample IDs if
Sample Result (pCi/L, g, F):	-0.013	other than
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.311	LCS/LCSD in
Sample Duplicate Result (pCI/L, g, F):	0.279	the space below.
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.332	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	-1.256	92499068018
Duplicate RPD:	219,02%	92499068018DUP
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Fail***	
% ₽₽D 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 Uşed 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:		
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	, in the second	
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:	i .	
% RPD Limit:		

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

Comments:



Data Evaluation Narrative

Project: Plant Mitchell CCR Groundwater Assessment Monitoring Event #4

Wood Project Number: 6122160170.2003.****
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia

Matrix: Groundwater

Pace SDG Nos: 92492821 and 92492815

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Assessment Monitoring Event #4 (August 2020) conducted at Ash Ponds 1 and 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 USEPA National Functional Guidelines for Inorganic Data Review (USEPA, 2014), as guidance, and professional judgment using the following qualifiers:

<u>Qualifier</u> J	Usable Data 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.

SDG Nos: 92492821 and 92492815 Page 1 of 16



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 Wood Environment & Infrastructure Solutions, Inc. (Wood, formerly, Amec Foster Wheeler) is complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW6020B, SW7470A, EPA 300.0, SW9315, and SW9320.

Sample Integrity

The groundwater samples were submitted to Pace Analytical Services, Inc. (Pace) in Peachtree Corners, Georgia and analyzed for CCR Appendix IV metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, lead, lithium, molybdenum, selenium, and thallium) by Method SW6020, mercury by Method SW7470A, and anions (fluoride) by Method 300.0. 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 92492815.

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:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
PZ-1D	08/25/20	II	PZ-33	08/26/20	II
PZ-2D+QC	08/26/20	II	PZ-15	08/26/20	П
PZ-31	08/25/20	II	PZ-16	08/26/20	П
PZ-14	08/26/20	II	PZ-19	08/26/20	П
PZ-23A	08/26/20	II	QC Samples		
PZ-17	08/26/20	II	FB-01	08/26/20	II
PZ-25	08/26/20	II	EB-01	08/25/20	П
PZ-32	08/25/20	II	DUP-01	08/26/20	II
PZ-7D	08/26/20	II	DUP-02	08/26/20	II
PZ-18+QC	08/27/20	II			

SDG Nos: 92492821 and 92492815 Page 2 of 16



These samples were collected from Ash Ponds 1 and 2 on August 25 through 27, 2020. Sample DUP-01 is a field duplicate of PZ-25, and DUP-02 is a field duplicate of PZ-23A. The field QC blanks include samples FB-01 (a field blank sample) and EB-01 (an equipment blank). Samples PZ-2D+QC and PZ-18+QC were submitted for MS/MSD analysis.

The analytical results for the metals, mercury, anions, and radium 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 IV metals by Methods SW6020B. The CCR 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 for metals except for method blank contamination.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

One of the laboratory method blanks associated with the samples analyzed within this SDG contained Sb (0.00043J mg/L). Results less than five times the method blank value were considered "not detected" as possible laboratory artifacts: **Reason Code: BL**

Action: The Sb results for samples PZ-23A, DUP-02, PZ-15, PZ-16, PZ-17, PZ-7D, PZ-1D, and PZ-2D were qualified as not detected 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 sample PZ-23A, 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

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. DUP-01 is associated with monitoring well PZ-25, and DUP-02 is associated with monitoring well PZ-23A. Acceptable duplicate precision was achieved, and no qualification of the parent or duplicate samples was required.

SDG Nos: 92492821 and 92492815 Page 3 of 16



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. Sample FB-01 is a field blank and is associated with the samples reported in this SDG and reported no contamination for metals. Sample EB-01 is the associated equipment blank and no metals were detected.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Method 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 for mercury except for field blank contamination.

Holding Times

The sample analyses were performed within the 28-day analysis holding time.

Method Blanks

The method blank associated with the samples analyzed within this SDG 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-23A, and the recoveries and RPD were within QC limits.

Post Digestion Spike (PDS)

PDS analyses results were not reported within this Level 2 data package.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. DUP-01 is associated with monitoring well PZ-25, and DUP-02 is associated with monitoring well PZ-23A. Acceptable duplicate precision was achieved, and no qualification of the parent samples was required.

SDG Nos: 92492821 and 92492815 Page 4 of 16



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. EB-01 is an equipment blank associated with all samples collected during this sampling event and no mercury was detected. FB-01 is the associated field blank and reported mercury below the reporting limit (0.000099 J mg/L). Results less than five times the field blank value were considered "not detected" as possible laboratory artifacts: **Reason Code: BF**

Action: The Hg results for samples PZ-23A, DUP-02, PZ-19, PZ-33, PZ-14, PZ-31, and PZ-1D were qualified as not detected and flagged "U*".

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. 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.

Anions (EPA 300)

The samples were submitted to Pace for anions (fluoride) by Method 300. 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 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)

MS/MSD analyses were performed on samples PZ-19 and PZ-25, and the percent recoveries and RPDs were within QC limits.

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Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. DUP-01 is associated with monitoring well PZ-25, and DUP-02 is associated with monitoring well PZ-23A. Acceptable duplicate precision was achieved, and no qualification of the parent samples was required.

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. Sample EB-01 is an equipment blank and is associated with the samples reported in this SDG and reported no contamination for fluoride. Sample FB-01 is the associated field blank and reported no contamination for fluoride.

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of fluoride 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.

Radium (SW9315/SW9320)

The samples were submitted to Pace for radium-226 (Ra-226), radium-228 (Ra-228), and total radium by Methods SW9315 and SW9320. Total radium was measured by calculation. Each of the Level II components were within QC limits except for method blank contamination.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

One or more of the laboratory method blanks contained reportable concentrations of Ra-226 or Ra-228 above the MDC. Results less than five times the method blank value were considered "not detected" as possible laboratory artifacts: **Reason Code: BL**

Action: The Ra-228 and total radium results for sample PZ-17 were qualified as not detected and flagged "U*".

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 for Ra-226 and Ra-228 in sample PZ-2D, and the RPDs were above the QC limit.

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Action: No qualification was necessary because the associated results for PZ-2D were less than the MDCs.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Sample DUP-01 is associated with monitoring well PZ-25, and DUP-02 is associated with monitoring well PZ-23A. Acceptable duplicate precision was achieved, and no qualification of the associated samples was required.

Sampling Accuracy (Equipment Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The field blank sample (FB-01) and equipment blank sample (EB-01) contained both Ra-226 and Ra-228 but activity counts were below the MDC indicating that Ra-226 and Ra-228 did not contribute to the results.

Carrier and Tracer Yield Recoveries

The carrier and tracer yield recoveries for the samples and QC were within the QC limit of 30% to 110%.

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. Although the submitted MS/MSDs were not performed, the laboratory included at least one project sample as a batch MS/MSD for each method and there was no negative effect on the overall quality of the data.

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.

USEPA, 2014. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, Final, EPA-540-R-013-001, August 2014.

Prepared by/Date: <u>DWK 09/16/2020</u> Checked By/Date: <u>JAH 09/18/2020</u>

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TABLE 1 SUMMARY OF DATA QUALIFIERS

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TABLE 1 SUMMARY OF DATA QUALIFIERS SAMPLE DELIVERY GROUPS 92492821 and 92492815 SAMPLING DATES: August 25 through 27, 2020 Plant Mitchell Ash Ponds 1 and 2

Field Sample ID	Location ID	Туре	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
PZ-14	PZ-14	N	92492821	7470A	mercury	0.00015	J	U*	BF	mg/L
PZ-15	PZ-15	N	92492821	6020B	antimony	0.00062	J, B	U*	BL	mg/L
PZ-16	PZ-16	N	92492821	6020B	antimony	0.00037	J, B	U*	BL	mg/L
PZ-17	PZ-17	N	92492821	6020B	antimony	0.00061	J, B	U*	BL	mg/L
PZ-17	PZ-17	N	92492815	9320	radium-228	1.21		U*	BL	pCi/L
PZ-17	PZ-17	N	92492815	9315/9320	total radium	1.62		U*	BL	pCi/L
PZ-19	PZ-19	N	92492821	7470A	mercury	0.0001	J	U*	BF	mg/L
PZ-1D	PZ-1D	N	92492821	6020B	antimony	0.0012	J, B	U*	BL	mg/L
PZ-1D	PZ-1D	N	92492821	7470A	mercury	0.000099	J	U*	BF	mg/L
PZ-23A	PZ-23A	N	92492821	6020B	antimony	0.00038	J, B	U*	BL	mg/L
PZ-23A	PZ-23A	N	92492821	7470A	mercury	0.00017	J	U*	BF	mg/L
DUP-2	PZ-23A	FD	92492821	6020B	antimony	0.0016	J, B	U*	BL	mg/L
DUP-2	PZ-23A	FD	92492821	7470A	mercury	0.00017	J	U*	BF	mg/L
PZ-2D	PZ-2D	N	92492821	6020B	antimony	0.0008	J, B	U*	BL	mg/L
PZ-31	PZ-31	N	92492821	7470A	mercury	0.0001	J	U*	BF	mg/L
PZ-33	PZ-33	N	92492821	7470A	mercury	0.00011	J	U*	BF	mg/L
PZ-7D	PZ-7D	N	92492821	6020B	antimony	0.00031	J, B	U*	BL	mg/L

Notes:

Results qualified "J" due to detections between the MDL and RL are not included on this table unless overridden by othe 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.

Reason Codes:

BF = Field blank contamination. The result should be considered "not-detected".

BL = Laboratory blank contamination. The result should be considered "not-detected".

Validation Qualifiers:

U* = This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Prepared by/Date: <u>DWK 09/16/20</u> Checked by/Date: <u>JAH 09/18/20</u>



DQE CHECKLISTS

SDG Nos: 92492821 and 92492815 Page 9 of 16



Project: Plant Mitchell CCR Assessment Monitoring Event 4

Project No: 6122160170.2003.**** **Method:** Metals by SW6020B

X

X

Χ

Laboratory and Lot: Pace SDG: 92492821

Reviewer/Date: D. Knaub 09/11/2020 Senior Reviewer/Date: JAH 09/18/2020

YES NO NA COMMENTS

Case Narrative and COC Completeness Review

No case narrative is included with Level II data package from Pace.

COC requests App IV metals, the following were reported: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, and Tl

(Be and Cd not previously listed as App IV metals)

Sample PZ-18 + QC not included on COCs.

Sample Preservation and cooler temperature met (HNO₃ to pH<2; 6°C±2)

4 coolers received 8/27 = 4.1, 5.8, 3.3, and 2.5°C. OK

1 cooler received 8/28 –OK

Holding times met (180 days)

OK

QC Blanks Review – any MB results above RL?

Method Blanks:

p. 27 MB 2985842 Sb = 0.00043J x5 = 0.00215 mg/L

Flag assoc. results "U*": PZ-23A, DUP-02, PZ-15, PZ-16, PZ-17, PZ-7D, PZ-1D, PZ-2D

Reason Code: **BL** p. 29 MB 2988642 = ND

Field/Equipment Blanks:

EB-01 = ND (associated with PZ-2B only)

FB-01 = ND (associated with all samples)

Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg

= 80-120%)

p. 27 LCS 2985843 – All OK

p. 29 LCS 2988643 – All OK

Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)

PZ-25 = Dup-01

<u>Constituent</u>	Parent Conc (mg/L)	<u>Dup Conc (mg/L)</u>	<u>RPD/Diff</u>
Ва	0.10	0.10	0.0
Co	0.0016J	0.0015 J	0.0001
Li	0.0065J	0.0062J	0.0003
TI	0.00037 J	0.00036J	0.00001

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PZ-23A = Dup-02

Constituent	Parent Conc (mg/L)	Dup (mg/L)	RPD/Diff
Sb	0.00038 U*	0.0016 U*	NA
Ва	0.039	0.037	5.3
Cr	0.0014J	0.0013J	0.0001
Co	0.00058J	0.00055 J	0.00003
Li	0.0011J	0.0011J	0.0
Se	0.0026 J	0.0033 J	0.0007
TI	0.00016J	ND	NA

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).

Χ

Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)

*Samples PZ-2D and PZ-18 were submitted for MS/MSD analysis but neither were performed p. 27-28 **PZ-23A** - All %rec and RPDs OK

p. 29-30 Not a sample from this SDG - All %rec and RPDs OK



Post Digestion Spike recoveries within limits (if applicable: 80-120%)

Not reported for L2 data package



Total metals vs dissolved metals (RPD < 20% or diff. < RL)

No dissolved results in this SDG



EDD Data Verification vs. Hardcopy (10% samples for each SDG)

Checked each sample in this SDG, all OK (18 samples total)

No samples in this SDG required a dilution.

SDG Nos: 92492821 and 92492815



Project: Plant Mitchell CCR Assessment Monitoring Event 4

Project No: 6122160170.2003.****

Method: <u>Hg by SW7470A</u>

X

X

Laboratory and Lot: Pace SDG: 92492821 (Pace – Peachtree Corners, GA)

Reviewer/Date: D. Knaub 09/11/2020 Senior Reviewer/Date: JAH 09/18/2020

YES NO NA COMMENTS

Case Narrative and COC Completeness Review

No case narrative is included with Level II data package from Pace. COC requests App IV metals, *Hg not previously listed as App IV metal* Sample *PZ-18* + *QC* not included on COCs.

Sample Preservation and cooler temperature met (HNO₃ to pH<2; 6°C±2)

4 coolers received 8/27 = 4.1, 5.8, 3.3, and 2.5°C. OK

1 cooler received 8/28 – OK

Holding times met (Hg = 28 days)

OK

QC Blanks Review – any MB results above RL?

Method Blanks:

p. 31 MB 2987108 Hg = ND

Field/Equipment Blanks:

EB-01 Hg = ND (associated with PZ-2B only) FB-01 Hg = 0.000099 J mg/L x5 = 0.000495 mg/L

Flag assoc. results "U*": PZ-23A, DUP-02, PZ-19, PZ-33, PZ-14, PZ-31, PZ-1D

Reason Code: BF

Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg

= 80-120%)

p. 31 LCS 2987109 Hg = 93% OK

Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)

PZ-25 = Dup-01

ConstituentParent Conc (mg/L)Dup Conc (mg/L)RPD/DiffHgNDNDNA

PZ-23A = Dup-02

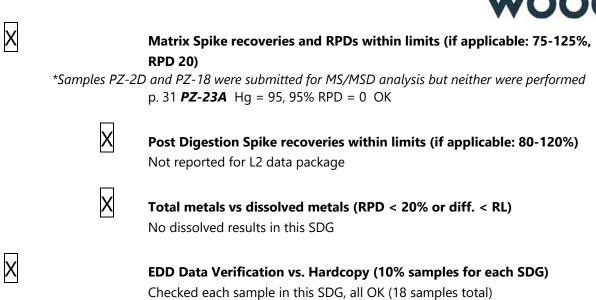
 Constituent
 Parent Conc (mg/L)
 Dup (mg/L)
 RPD/Diff

 Hg
 0.00017 U*
 0.00017 U*
 NA

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).

SDG Nos: 92492821 and 92492815 Page 12 of 16





No samples in this SDG required a dilution.

SDG Nos: 92492821 and 92492815 Page 13 of 16



Project: Plant Mitchell CCR Assessment Monitoring Event 4

Project No: <u>6122160170.2003.****</u> **Method:** <u>Anions (fluoride) by EPA 300</u>

X

Laboratory and Lot: Pace SDG: 92492821 (Pace – Asheville, NC)

Reviewer/Date: D. Knaub 09/11/2020 Senior Reviewer/Date: JAH 09/18/2020

YES NO NA COMMENTS

Case Narrative and COC Completeness Review

No case narrative is included with Level II data package from Pace

Sample PZ-18 + QC not included on COCs.

Sample Preservation and cooler temperature met (Cool to 6°C)

4 coolers sent 8/26 = 4.1, 5.8, 3.3, and 2.5°C. OK

1 cooler received 8/28 – within temp, OK

Holding times met (F –28 days)

OK

QC Blanks Review – Any detections above RL?

Method Blanks:

p. 32 MB 2985598 F = ND p. 33 MB 2985604 F = ND

p. 34 MB 2986801 F = ND Field/Equipment Blanks:

EB-01 F = ND FB-01 F = ND

Laboratory Control Sample (LCS) recovery within lab limits (90-110%)

p. 32 LCS 2985599: F = 104% OK p. 33 LCS 2985605: F = 107% OK

p. 34 LCS 2986802 F = 105% OK

Lab Duplicate - Field Duplicate precision goals met (20%)

PZ-25 = Dup-01

<u>Constituent</u> Parent Sample Conc (mg/L) <u>Dup Conc (mg/L)</u> <u>RPD/Diff</u>

fluoride 0.14 0.14 0.0

PZ-23A = Dup-02

<u>Constituent</u> <u>Parent Sample Conc (mg/L)</u> <u>Dup Conc (mg/L)</u> <u>RPD/Diff</u>

fluoride 0.057J ND NA

Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)

p. 32 Not samples from this SDG - % rec and RPDs OK

p. 33 PZ-19 F = 105, 106% RPD = 1 OK

PZ-25 F = 106, 106% RPD = 0 OK

p. 34 Not samples from this SDG - % rec and RPDs OK

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

Checked each sample in this SDG, all OK (18 samples total)

No samples in this SDG required a dilution

SDG Nos: 92492821 and 92492815 Page 14 of 16



Project: <u>Plant Mitchell CCR Assessment Monitoring Event 4</u>

Project No: 6122160170.03.****

Method: Radium-226, Radium-228, Total Radium by EPA 9315 and EPA 9320

Laboratory and Lot: Pace SDG: 92492815 (Pace-Greensburg, PA)

Reviewer/Date: D. Knaub 09/16/2020 Senior Reviewer/Date: JAH 09/18/2020

<u>YES</u>	<u>NO</u>	<u>NA</u>	<u>COMMENTS</u>
X			Case Narrative and COC Completeness Review OK
X			Sample Preservation and cooler temperature met (HNO $_3$ to pH<2) $$ $$ $$ $$ $$ $$ $$ $$ $$ $$
X			Holding times met (180 days) OK
			QC Blanks Review (net blank value <mdc) (1994499)="present" (1994514)="0.206" (sample="" 018)<="" 29="" 30="" <mdc="" but="" l="" p.="" pci="" radium-226="" radium-228="" td=""></mdc)>
			present but <mdc (nd)<br="">p. 24 FB-01– present but <mdc< td=""></mdc<></mdc>
			Laboratory Control Sample (LCS) recovery within lab limits (80-120%; RPD = RER (2σ <3) p. 43-44 LCS 55957 Ra-226 = 83.08% p. 45-46 LCS 55959 Ra-226 = 92.23% p. 47 LCS 55952 Ra-228 = 91.85% p. 48 LCS/LCSD 55954 Ra-228 = 106.10, 104.44% RPD = 1.57
			Lab Duplicate - Field Duplicate precision goals met (lab limits); lab dup every 10 samples (RPD = RER (2σ) <3) PZ-25 = DUP-01 Constituent Parent Conc (pCi/L) Dup Conc (pCi/L) RPD Ra-226 < MDC 0.490 NC Ra-228 < MDC < MDC NC tot. radium < MCC < MDC NC

SDG Nos: 92492821 and 92492815 Page 15 of 16



YES NO NA

Χ

Lab Duplicate - Field Duplicate (cont.)

PZ-23A = DUP-02

Constituent	Parent Conc (pCi/L)	Dup Conc (pCi/L)	<u>RPD</u>
Ra-226	<mdc< td=""><td><mdc< td=""><td>NC</td></mdc<></td></mdc<>	<mdc< td=""><td>NC</td></mdc<>	NC
Ra-228	<mdc< td=""><td><mdc< td=""><td>NC</td></mdc<></td></mdc<>	<mdc< td=""><td>NC</td></mdc<>	NC
tot. radium	<mdc< td=""><td><mdc< td=""><td>NC</td></mdc<></td></mdc<>	<mdc< td=""><td>NC</td></mdc<>	NC

p. 43 Lab dup – PZ-2D Ra-226 RPD = 88.26% No flag, result < MDC p. 44 Lab dup – PZ-2D Ra-226 RPD = 303.91% No flag, result < MDC p. 45 Lab dup – PZ-2D Ra-226 RPD = 128.44% No flag, result < MDC p. 47 Lab dup – PZ-2D Ra-228 RPD = 117.83% No flag, result < MDC

Matrix Spike recoveries and RPDs within limits (if applicable)

NA - Pace only performs MS/MSD on drinking water samples

Carrier/Tracer Yield Recovery Ra-226 (Carrier: Ba);

Ra-228 (Carrier Ba, Tracer: Y) (30-110%)

All ok

EDD Data Verification vs. Hardcopy (10% samples for each SDG).

Checked each sample in this SDG, all OK (18 samples total)

SDG Nos: 92492821 and 92492815 Page 16 of 16



Data Evaluation Narrative

Project: Plant Mitchell CCR Groundwater Semiannual Event #14

Wood Project Number: 6122160170.2003.****
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia

Matrix: Groundwater

Pace SDG Nos: 92499073

Introduction

A data quality evaluation (DQE) was performed on the laboratory data reported for the Semiannual Event #14 (October 2020) conducted at Ash Ponds 1 and 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 USEPA National Functional Guidelines for Inorganic Data Review (USEPA, 2014), as guidance, and professional judgment using the following qualifiers:

<u>Qualifier</u>	<u>Usable Data</u>
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.

SDG Nos: 92499073 Page 1 of 14



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 Wood Environment & Infrastructure Solutions, Inc. (Wood, formerly, Amec Foster Wheeler) is complete to perform a Level II DQE for United States Environmental Protection Agency (USEPA) Methods SW6020B, SW7470A, EPA 300.0, SW9315, and SW9320.

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 (boron, calcium, antimony, arsenic, barium, chromium, cobalt, lead, lithium, molybdenum, selenium, and thallium) by Method 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. 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 92499068 and narrated 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:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
PZ-2D	10/06/20	II	PZ-19	10/07/20	II
PZ-32	10/06/20	II	PZ-17	10/07/20	II
PZ-1D	10/06/20	II	PZ-18	10/07/20	II
PZ-31	10/06/20	II	PZ-33	10/07/20	II
PZ-14	10/06/20	II	QC Samples		
PZ-23A	10/06/20	II	EB-01	10/06/20	II
PZ-16	10/06/20	II	FB-01	10/06/20	II
PZ-25	10/07/20	II	FD-01	10/07/20	II
PZ-7D	10/07/20	II	FD-02	10/07/20	II
PZ-15	10/07/20	II			

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These samples were collected from Ash Ponds 1 and 2 on October 6 and 7, 2020. Sample DUP-01 is a field duplicate of PZ-19, and DUP-02 is a field duplicate of PZ-25. The field QC blanks include samples FB-01 (a field blank sample) and EB-01 (an equipment blank). The EB-01 is associated with well PZ-2D.

The analytical results for the metals, mercury, anions, and radium 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), 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 for metals except for method blank and equipment blank contamination.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

One of the laboratory method blanks associated with the samples analyzed within this SDG contained Sb between the method detection limit (MDL) and the reporting limit (RL) (0.0004J mg/L). Results less than five times the method blank value were considered "not detected" as possible laboratory artifacts: **Reason Code: BL**

Action: The Sb results for samples PZ-1D and PZ-32 were qualified as not detected 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)

MS/MSD analyses were performed on samples PZ-2D, PZ-32, and PZ-17, 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

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. DUP-01 is associated with monitoring well PZ-19, and DUP-02 is associated with monitoring well PZ-25. Acceptable duplicate precision was achieved, and no qualification of the parent or duplicate samples was required.

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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. Sample FB-01 is a field blank and is associated with the samples reported in this SDG and reported no contamination for metals. Sample EB-01 is the associated equipment blank with well PZ-2D and contained Sb, Ba, and B at concentrations between the MDL and RL. Results less than five times the field and/or equipment blank are considered "not detected" as a possible field artifact. **Reason Code: BE**:

Action: The Sb, Ba, and B results for sample PZ-2D were qualified as not detected due to possible equipment blank contamination and flagged " U^* ".

Reporting Limits

The laboratory RLs were below the screening values for samples submitted for the analysis of metals by USEPA Method 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 blank associated with the samples analyzed within this SDG 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-23A, and the recoveries and RPD were within QC limits.

Post Digestion Spike (PDS)

PDS analyses results were not reported within this Level 2 data package.

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Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. DUP-01 is associated with monitoring well PZ-19, and DUP-02 is associated with monitoring well PZ-25. Acceptable duplicate precision was achieved, and no qualification of the parent samples was required.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Mercury was 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 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. 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.

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.

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 sample PZ-16 and the percent recoveries and RPDs were within QC limits.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. DUP-01 is associated with monitoring well PZ-19, and DUP-02 is associated with monitoring well PZ-25. Acceptable duplicate precision was achieved, and no qualification of the parent samples was required.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

Anions were not detected in the equipment blank or the field blank.

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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

Batch precision for TDS was measured through the analysis of laboratory duplicates. The laboratory analyzed sample PZ-14 and PZ-19 in duplicate, and the RPD was within QC limits indicating good analytical precision.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. DUP-01 is associated with monitoring well PZ-19 and DUP-02 is associated with monitoring well PZ-25. Acceptable duplicate precision was achieved, and no qualification of the associated samples was required.

Sampling Accuracy (Equipment Rinsate Blanks, Field Blanks)

TDS was not detected in the equipment blank or the field blank.

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.

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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.

USEPA, 2014. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, Final, EPA-540-R-013-001, August 2014.

Prepared by/Date: <u>JAH 10/22/2020</u> Checked By/Date: <u>DWK 10/27/2020</u>

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TABLE 1 SUMMARY OF DATA QUALIFIERS

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Data Validation Narrative – SDG 92499073 Plant Mitchell Ash Ponds 1 and 2 Wood Project No. 6122160170

TABLE 1 SUMMARY OF DATA QUALIFIERS SAMPLE DELIVERY GROUP 92499073

SAMPLING DATES: October 6 and 7, 2020
Plant Mitchell Ash Ponds 1 and 2

Field Sample ID	Location ID	Туре	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
PZ-2D-080620	PZ-2D	N	92499073	6020B	antimony	0.0013	J	U*	BE	mg/L
PZ-2D-080620	PZ-2D	N	92499073	6020B	barium	0.0039	J	U*	BE	mg/L
PZ-2D-080620	PZ-2D	N	92499073	6020B	boron	0.018	J	U*	BE	mg/L
PZ-1D-080620	PZ-1D	N	92499073	6020B	antimony	0.0021	J, B	U*	BL	mg/L
PZ-31-080620	PZ-31	N	92499073	6020B	antimony	0.00045	J, B	U*	BL	mg/L

Notes:

Results qualified "J" due to detections between the MDL and RL are not included on this table unless overridden by othe 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.

Reason Codes:

BE = Equipment blank contamination. The result should be considered "not-detected".

BL = Laboratory blank contamination. The result should be considered "not-detected".

Validation Qualifiers:

U* = This analyte should be considered "not-detected" because it was detected in an associated blank at a similar level.

Prepared by/Date: <u>JAH 10/22/20</u> Checked by/Date: <u>DWK 10/27/20</u>



DQE CHECKLISTS

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Project: Plant Mitchell CCR Semiannual Event 14

Project No: 6122160170.2003.****

Method: Metals by SW6010D/SW6020B

Laboratory and Lot: Pace SDG: 92499073 (Pace – Peachtree Corners, GA)

Reviewer/Date: J. Hartness 10/2/2020 Senior Reviewer/Date: D. Knaub 10/27/20

YES NO NA COMMENTS

Case Narrative and COC Completeness Review

No case narrative is included with Level II data package from Pace.

Sample Preservation and cooler temperature met (HNO₃ to pH<2; 6°C±2)

6.0 °C. OK

Holding times met (180 days)

OK

QC Blanks Review – any MB results above RL?

Method Blanks:

p. 30 SW6010D MB 3028970 (Ca only) = ND

p. 31 SW6010D MB 3030150 (Ca only) = ND

p. 32 SW6020B MB 3027387 = ND

p. 34 SW6020B MB 3030726 Sb = 0.0004 J x5 = 0.002 mg/L

Flag assoc. results "U*": PZ-1D, PZ-31

Reason Code: BL

p. 36 SW6020B MB 3032350 = ND

Field/Equipment Blanks:

EB-01 (associated with **PZ-2D** only)

Sb = 0.00048 J x5 = 0.0024 mg/L - Flag assoc. results "U*"

Ba = 0.00079 J x5 = 0.00395 mg/L - Flag assoc. results "U*"

B = 0.0087 J x5 = 0.0435 mg/L - Flag assoc. results "U*"

Reason Code: BL

FB-01 = ND (associated with all samples)

Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg

= 80-120%)

p. 30 SW6010D LCS 3028971 - Ca = 99% OK

p. 31 SW6010D LCS 3030151 - Ca = 96% OK

p. 32 SW6020B LCS 3027388 - All OK

p. 34 SW6020B LCS 3030727 – All OK

p. 36 SW6020B LCS 3032351 - All OK

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Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)

PZ-19) = Du	p-01
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Constituent	Parent Conc (mg/L)	Dup Conc (mg/L)	RPD/Diff & RL
Ca	144	138	4.2
Ва	0.054	0.053	1.9
В	0.52	0.55	5.6
Pb	0.000042J	ND	0.00495 0.005
Li	0.013 J	0.014J	0.001 0.03
Мо	0.0019J	0.0019J	0 0.01
Se	0.0035J	0.0029J	0.0006 0.01
TI	0.0007J	0.00068J	0.00002 0.001
PZ-25	= Dup-02		
Constituent	Parent Conc (mg/L)	Dup (mg/L)	RPD/Diff & RL
Ca	84.2	85.7	1.8

<u>Constituent</u>	Parent Conc (mg/L)	Dup (mg/L)	RPD/Dif	f & RL
Ca	84.2	85.7	1.8	
Ва	0.11	0.11	0	
В	0.18	0.19	5.4	
Со	0.0014J	0.0014 J	0	0.005
Li	0.0063J	0.0062J	0.001	0.03
TI	0.00027J	0.00027J	0	0.001

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).

Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)

p. 30 SW6010D (Ca only) - Not a sample from this SDG

p. 31 SW6010D (Ca only) - Not samples from this SDG

p. 32-33 SW6020B **PZ-2D** - All %rec and RPDs OK

p. 34-35 SW6020B **PZ-32** - All %rec and RPDs OK

p. 36-37 SW6020B **PZ-17** - All %rec and RPDs OK

X Post Digestion Spike recoveries within limits (if applicable: 80-120%)

Not reported for L2 data package

Total metals vs dissolved metals (RPD < 20% or diff. < RL)

No dissolved results in this SDG

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

Checked each sample in this SDG, all OK (18 samples total)

No samples in this SDG required a dilution.

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Project: Plant Mitchell CCR Semiannual Event 14

Project No: 6122160170.2003.**** **Method:** Hg by SW7470A

X

Laboratory and Lot: Pace SDG: 92499073 (Pace – Peachtree Corners, GA)

Reviewer/Date: J. Hartness 10/22/2020 Senior Reviewer/Date: D. Knaub 10/27/20

YES NO NA COMMENTS

No samples in this SDG required a dilution.

Case Narrative and COC Completeness Review

No case narrative is included with Level II data package from Pace.

Sample Preservation and cooler temperature met (HNO₃ to pH<2; 6°C±2)

6.0°C. OK

Holding times met (Hg = 28 days)

OK

QC Blanks Review – any MB results above RL?

Method Blanks:

p. 38 MB 3026513 Hg = ND p. 39 MB 3030665 Hg = ND

Field/Equipment Blanks:

EB-01 Hg = ND (associated with PZ-2D only)

FB-01 Hq = ND

Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg

= 80-120%)

p. 38 LCS 3026514 Hg = 103% OK p. 39 LCS 3030666 Hg = 99% OK

Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)

PZ-19 = Dup-01

<u>Constituent</u> Parent Conc (mg/L) <u>Dup Conc (mg/L)</u> <u>RPD/Diff & RL</u>

Hg ND ND NA

PZ-25 = Dup-02

<u>Constituent</u> Parent Conc (mg/L) <u>Dup (mg/L)</u> <u>RPD/Diff & RL</u>

Hg ND ND NA

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).

Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%, RPD 20)

p. 38 - not a project sample from this SDG

p. 39 - not a project sample from this SDG

Total metals vs dissolved metals (RPD < 20% or diff. < RL)

No dissolved results in this SDG

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

Checked each sample in this SDG, all OK (18 samples total)

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Project: Plant Mitchell CCR Semiannual Event 14

Project No: 6122160170.2003.****

X

Method: Anions (chloride, fluoride, sulfate) by EPA 300

Laboratory and Lot: Pace SDG: 92499073 (Pace – Asheville, NC)

Reviewer/Date: J. Hartness 10/22/2020 Senior Reviewer/Date: D. Knaub 10/27/20

YES NO NA COMMENTS

No samples in this SDG required a dilution

Case Narrative and COC Completeness Review

No case narrative is included with Level II data package from Pace

Sample Preservation and cooler temperature met (Cool to 6°C)

6.0°C. OK

Holding times met (F -28 days)

OK

QC Blanks Review - Any detections above RL?

Method Blanks:

p. 42 MB 3028427 = ND p. 43 MB 3030077 = ND p. 44 MB 3030083 = ND p. 45 MB 3031544 = ND

<u>Field/Equipment Blanks</u>: EB-01 = ND; FB-01 = ND

Laboratory Control Sample (LCS) recovery within lab limits (90-110%)

p. 42 LCS 3028428 = All OK p. 44 LCS 3030084 = All OK p. 45 LCS 3031545 = All OK

Lab Duplicate - Field Duplicate precision goals met (20%)

PZ-19 = Dup-01

Constituent Parent Conc (mg/L) Dup Conc (mg/L) RPD/Diff & RL chloride 4.5 4.5 fluoride 0.064J 0.062J 0.002 0.1 sulfate 83.3 84 0.84

PZ-25 = Dup-02

 Constituent
 Parent Conc (mg/L)
 Dup Conc (mg/L)
 RPD/Diff & RL

 chloride
 1.8
 0

 fluoride
 0.13
 0.14
 7.4

 sulfate
 38.1
 38.3
 0.52

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).

Matrix Spike recoveries and RPDs within limits (lab %Rec limits, RPD = 20)

p. 42 Not samples from this SDG

p. 43 Not samples from this SDG

p. 44 **PZ-16** - % rec and RPDs OK

p. 45 Not samples from this SDG

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

Checked each sample in this SDG, all OK (18 samples total)

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Project: Plant Mitchell CCR Semiannual Event 14

Project No: <u>6122160170.2003.****</u> **Method:** <u>TDS by SM2540C</u>

Χ

Laboratory and Lot: Pace SDG: 92499073 (Pace – Peachtree Corners, GA)

Reviewer/Date: J. Hartness 10/22/2020 Senior Reviewer/Date: D. Knaub 10/27/20

YES NO NA COMMENTS

Case Narrative and COC Completeness Review

No case narrative is included with Level II data package from Pace.

Sample Preservation and cooler temperature met (HNO₃ to pH<2; 6°C±2)

6.0°C. OK

Holding times met (TDS = 7 days)

ОК

QC Blanks Review – any MB results above RL?

Method Blanks:

p. 40 MB 3025332= ND p. 41 MB 3029110 = ND

Field/Equipment Blanks:

EB-01 = ND (associated with PZ-2D only)

FB-01 = ND

Laboratory Control Sample (LCS) recovery within limits (Metals 70-130%, Hg

= 80-120%)

p. 40 LCS 3025333 TDS = 85% OK p. 41 LCS 3029111 TDS = 106% OK

Lab Duplicate - Field Duplicate precision goals met (lab limits - 20%)

PZ-19 = Dup-01

 Constituent
 Parent Conc (mg/L)
 Dup Conc (mg/L)
 RPD/Diff & RL

 TDS
 492
 496
 0.8

PZ-25 = Dup-02

<u>Constituent</u> Parent Conc (mg/L) <u>Dup (mg/L)</u> <u>RPD/Diff & RL</u>

TDS 280 288 2.1

Lab Duplicates:

p. 40 **PZ-14** – RPD OK

p. 41 **PZ-19** – RPD OK

Matrix Spike recoveries and RPDs within limits (if applicable: 75-125%,

RPD 20)

Not applicable to TDS

EDD Data Verification vs. Hardcopy (10% samples for each SDG)

Checked each sample in this SDG, all OK (18 samples total)

No samples in this SDG required a dilution.

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Data Evaluation Narrative

Project: Plant Mitchell CCR Groundwater Semiannual Event #14

Wood Project Number: 6122160170.2003.****
Site: Ash Ponds 1&2 - Plant Mitchell, Georgia

Matrix: Groundwater

Pace SDG Nos: 92499068

Introduction

A data quality evaluation (DQE) was performed on the radium data reported for the Semiannual Event #14 (October 2020) conducted at Ash Ponds 1 and 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 USEPA National Functional Guidelines for Inorganic Data Review (USEPA, 2014), as guidance, and professional judgment using the following qualifiers:

<u>Qualifier</u>	<u>Usable Data</u>
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.

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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 Wood Environment & Infrastructure Solutions, Inc. (Wood, formerly, Amec Foster Wheeler) 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 92499073. 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:

Sample ID	Sample Date	DQE Level	Sample ID	Sample Date	DQE Level
PZ-2D	10/06/20	II	PZ-19	10/07/20	II
PZ-32	10/06/20	II	PZ-17	10/07/20	II
PZ-1D	10/06/20	II	PZ-18	10/07/20	II
PZ-31	10/06/20	II	PZ-33	10/07/20	II
PZ-14	10/06/20	II	QC Samples		
PZ-23A	10/06/20	II	EB-01	10/06/20	II
PZ-16	10/06/20	II	FB-01	10/06/20	II
PZ-25	10/07/20	II	FD-01	10/07/20	II
PZ-7D	10/07/20	II	FD-02	10/07/20	II
PZ-15	10/07/20	II			

These samples were collected from Ash Ponds 1 and 2 on October 6 and 7, 2020. Sample DUP-01 is a field duplicate of PZ-19, and DUP-02 is a field duplicate of PZ-25. The field QC blanks include the following; FB-01, a field blank sample, and EB-01, an equipment blank associated with well PZ-2D.

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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), and total radium by Methods SW9315 and SW9320. Total radium was measured by calculation. Each of the Level II components were within QC limits except for equipment blank contamination and laboratory duplicate precision.

Holding Times

The sample analyses were performed within the 6-month analysis holding time.

Method Blanks

The laboratory method blanks did not contain reportable concentrations of Ra-226 or Ra-228 above the MDC.

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 for Ra-226 in sample PZ-17 and Ra-228 in PZ-33, and the RPDs were above the QC limit.

Action: The Ra-226 and total radium results for sample PZ-17 were qualified as estimated and flagged "J". No qualification was necessary for PZ-33 because the associated result was less than the MDC.

Field Duplicate Precision

Two blind field duplicate samples were collected and submitted to the laboratory for this sampling event. Sample DUP-01 is associated with monitoring well PZ-19, and DUP-02 is associated with monitoring well PZ-25. Acceptable duplicate precision was achieved, and no qualification of the associated results was required.

Sampling Accuracy (Equipment Blanks, Field Blanks)

Field accuracy was measured through the collection of equipment/rinsate blanks and field blanks. The field blank sample FB-01 contained both Ra-226 and Ra-228 but activity counts were below the MDC indicating that Ra-226 and Ra-228 did not contribute to the results. Equipment blank sample EB-01 reported Ra-228 and total radium above the MDCs, and associated results less than 5x the blank value are considered non-detect.

Action: No qualification was necessary because Ra-228 and total radium were below the MDCs in the associated sample.

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Carrier and Tracer Yield Recoveries

The carrier and tracer yield recoveries for the samples and QC were within the QC limit of 30% to 110%.

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.

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.

USEPA, 2014. EPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, Final, EPA-540-R-013-001, August 2014.

Prepared by/Date: <u>DWK 11/09/2020</u> Checked By/Date: JAH 11/10/2020

SDG Nos: 92499068 Page 4 of 8



TABLE 1 SUMMARY OF DATA QUALIFIERS

SDG Nos: 92499068 Page 5 of 8

TABLE 1 SUMMARY OF DATA QUALIFIERS SAMPLE DELIVERY GROUP 92499068

SAMPLING DATES: October 6 and 7, 2020 Plant Mitchell Ash Ponds 1 and 2

Field Sample ID	Location ID	Туре	SDG	Method	Parameter Name	Lab Result	Lab Qual	Val Qual	Reason Codes	Units
PZ-17-100720	PZ-17	N	92499068	9315	Radium-226	0.374		J	LD	pCi/L
PZ-17-100720	PZ-17	N	92499068	Calculattion	Total Radium	<1.02	U	UJ	LD	pCi/L

Notes:

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.

D6 = The precision between the sample and the sample duplicate exceeded laboratory control limits.

E = Analyte concentration exceeded the calibration range. The reported result is estimated.

M6 = Matrix spike and matrix duplicate recovery not evaluated against control limits due to sample dilution.

Reason Codes:

LD = Laboratory duplicate precision

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.

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.

Prepared by/Date: <u>DWK 11/09/20</u> Checked by/Date: <u>JAH 11/10/20</u>

October 2020



DQE CHECKLISTS

SDG Nos: 92499068 Page 6 of 8



Project: Plant Mitchell CCR Semiannual Event 14

Project No: 6122160170.2003.****

Method: Radium-226, Radium-228, Total Radium by EPA 9315 and EPA 9320

Laboratory and Lot: Pace SDG: 92499068 (Pace-Greensburg, PA)

Reviewer/Date: D. Knaub 11/09/2020 Senior Reviewer/Date: J. Hartness 11/10/2020

<u>YES</u>	<u>NO</u>	<u>NA</u>				<u>COMMENTS</u>			
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 (HNO₃ to pH<2) 6.0 °C. OK						
X		Holding times met (180 days) OK							
			p. 29 Ra-226 (20 p. 30 Ra-228 (20 p. 31 Ra-226 (20 p. 32 Ra-228 (20 p. 33 Ra-226 (20 Field/Equipmen p. 11 EB-01 (ass Ra-228 tot. Ra		MDC MDC MDC MDC MDC				
			(<i>Ra-226</i> p. 40-41 LCS 56 p. 42 LCS/LCSD p. 43-44 LCS/LCD p. 45 LCS/LCSD	ntrol Sample (LCS) reco 5=75-125%, Ra-228=60-677 Ra-226 = 85.91% 56679 Ra-226 = 83.67, 9 CSD 56785 Ra-226 = 89.1 56682 Ra-228 = 101.86, 7 Ra-228 = 86.38%	135%; RPD = REF 18.65% RPD = 16 2, 85.99% RPD =	? (2σ) <3) .34 : 3.58			
	×		-	- Field Duplicate precisi les (RPD = RER (2σ) < 3) PZ-19 (pCi/L) 0.517 <mdc 0.893</mdc 	on goals met (la FD-01 (pCi/L) 0.595 < MDC 1.09	RPD 14.0 NC 19.9			

SDG Nos: 92499068 Page 7 of 8



<u>YES</u>	<u>NO</u>	<u>NA</u>				<u>COMMENTS</u>		
	X		Lab Duplicate - Field Duplicate (cont.)					
	_		Constituent	PZ-25 (pCi/L)	FD-02 (pCi/L)	<u>RPD</u>		
			Ra-226	0.439	0.376	15.5		
			Ra-228	<mdc< td=""><td><mdc< td=""><td>NC</td></mdc<></td></mdc<>	<mdc< td=""><td>NC</td></mdc<>	NC		
			tot. radium	< MDC	<mdc< td=""><td>NC</td></mdc<>	NC		
			p. 41 Lab dup – N p. 44 Lab dup – P	lot a sample from lot a sample from Z-17 Ra-226 RPD Z-33 Ra-228 RPD	this SDG RPD = 20 = 26.54 % Flag as	0.61 s soc. result " J"		
			-	ecoveries and R performs MS/M		ts (if applicable) vater samples		
				Yield Recovery r Ba, Tracer: Y)		: Ва);		
X			EDD Data Veri	fication vs. Hare	dcopy (10% san	nples for each SDG).		

Checked each sample in this SDG, all OK (18 samples total)

SDG Nos: 92499068 Page 8 of 8

RPD for August and October 2020

Parameter	Concentration 1	Concentration 2	
8/26/2020	PZ-23A (DUP-2)	PZ-23A	RPD
Bari	um 0.037	0.039	5%
Parameter	Concentration 1	Concentration 2	
8/26/2020	PZ-25 (DUP-1)	PZ-25	RPD
Bari	um 0.1	0.1	0%
8/26/2020	PZ-25 (DUP-1)	PZ-25	RPD
Fluor	de 0.14	0.14	0%
Parameter	Concentration 1	Concentration 2	
10/7/2020	PZ-19 (FD-01)	PZ-19	RPD
Bari	um 0.053	0.054	2%
10/7/2020	PZ-19 (FD-01)	PZ-19	RPD
Вог	on 0.55	0.52	6%
10/7/2020	PZ-19 (FD-01)	PZ-19	RPD
Calci	um 138	144	4%
10/7/2020	PZ-19 (FD-01)	PZ-19	RPD
Chlor	de 4.5	4.5	0%
10/7/2020	PZ-19 (FD-01)	PZ-19	RPD
Radi	um 1.09	0.893	20%
10/7/2020	PZ-19 (FD-01)	PZ-19	RPD
Sulf	ate 84	83.3	1%
10/7/2020	PZ-19 (FD-01)	PZ-19	RPD
Т	DS 496	492	1%
Parameter	Concentration 1	Concentration 2	
10/7/2020	PZ-25 (FD-02)	PZ-25	RPD
Bari	um 0.11	0.11	0%
10/7/2020	PZ-25 (FD-02)	PZ-25	RPD
Вог	on 0.19	0.18	5%
10/7/2020	PZ-25 (FD-02)	PZ-25	RPD
Calci	um 85.7	84.2	2%
10/7/2020	PZ-25 (FD-02)	PZ-25	RPD
Chlor	de 1.8	1.8	0%
10/7/2020	PZ-25 (FD-02)	PZ-25	RPD
Fluor	de 0.14	0.13	7%
10/7/2020	PZ-25 (FD-02)	PZ-25	RPD
Sulf	ate 38.3	38.1	1%
10/7/2020	PZ-25 (FD-02)	PZ-25	RPD
Т	DS 288	280	3%

Summary of Groundwater Analytical Data Plant Mitchell Ash Ponds A, 1 and 2 Event Assessment 4

For a RPD to be representative of the process, the concentrations have to be five times the RL in accordance with US EPA guidance on inorganic data review, (US EPA August 2014). The RPD values of August and October 2020 sample concentrations that were five times the RL ranged within the allowable 20% RPD indicating good sampling precision.

The RPD for Radium in PZ-19/FD-01 in October 2020 was at 20%. The concentration of Radium in both samples is low (less than five times the MDC): consequently, slight variation between the two samples resulted in an elevated RPD. The Radium results are considered valid and appropriate for use in statistical analysis.

The August and October 2020 analytical results were compared to MCLs and secondary MCLs to evaluate groundwater quality and used in the statistical evaluation. The August and October 2020 constituent concentrations were within the historical range of concentrations. Those few concentrations higher than the historical range were identified as statistical exceedances.

Product Name: Low-Flow System

Date: 2020-08-25 16:02:43

QED

Project Information:

Operator Name

Ever Guillen

Pump Information:

Pump Model/Type

Company NameWoodTubing TypeHDPEProject NamePlant Mitchell CCR Phase 2Tubing Diameter.17 inSite NamePZ-1DTubing Length61.21 ft

Site Name PZ-1D
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369557

Turbidity Make/Model Hach 2100Q Pump placement from TOC 56.21 ft

Well Information: Pumping Information:

Well ID PZ-1D Final Pumping Rate 0 mL/min Well diameter 2 in Total System Volume 0.7532061 L Calculated Sample Rate Well Total Depth 61.21 ft 300 sec Screen Length 10 ft Stabilization Drawdown 0 in Depth to Water 52.98 ft **Total Volume Pumped** 9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:40:03	1500.02	25.87	7.37	225.89	8.81	54.33	2.55	51.40
Last 5	15:45:03	1800.02	26.09	7.42	224.46	7.42	54.33	2.52	48.57
Last 5	15:50:03	2100.02	25.87	7.45	223.84	5.75	54.33	2.52	46.28
Last 5	15:55:03	2400.02	25.94	7.47	222.11	6.04	54.33	2.63	44.51
Last 5	16:00:03	2700.02	25.79	7.49	223.39	4.71	54.33	2.72	43.38
Variance 0			-0.23	0.03	-0.62			0.00	-2.29
Variance 1			0.07	0.02	-1.73			0.12	-1.77
Variance 2			-0.15	0.01	1.28			0.09	-1.13

Notes

PZ-1D Sample time=1605

Grab Samples

Date: 2020-08-26 10:54:48

80.2 ft

Project Information: Pump Information:

Operator Name Daniel Howard Pump Model/Type **QED Sample Pro** Company Name Wood E&IS **Tubing Type** HDPE Project Name Tubing Diameter .17 in Plant Mitchell CCR Phase II Tubing Length

Site Name PZ-2D 00 0' 0" Latitude 00 0' 0" Longitude Sonde SN 369555

Turbidity Make/Model Hach 2100Q Pump placement from TOC 75.2 ft

Pumping Information: Well Information:

Final Pumping Rate 200 mL/min Well ID PZ-2D Well diameter 2 in Total System Volume 0.5479665 L Calculated Sample Rate Well Total Depth 80.21 ft 300 sec Stabilization Drawdown Screen Length 10 ft 0 in Depth to Water 7 L 36.1 ft **Total Volume Pumped**

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	10:30:40	900.03	20.66	7.96	179.57	3.18	36.25	1.79	115.71
Last 5	10:35:40	1200.03	20.64	7.96	177.01	2.41	36.25	1.93	115.24
Last 5	10:40:40	1500.03	20.69	7.96	175.52	2.00	36.25	2.01	115.18
Last 5	10:45:40	1800.03	20.59	7.96	173.95	0.95	36.25	2.09	114.75
Last 5	10:50:40	2100.03	20.60	7.97	171.46	1.10	36.25	2.10	114.03
Variance 0			0.05	-0.00	-1.49			0.08	-0.06
Variance 1			-0.10	0.00	-1.57			0.08	-0.43
Variance 2			0.01	0.01	-2.48			0.02	-0.72

Notes

PZ-2D sample time 1052.

Date: 2020-08-26 15:34:33

Project Information:

Pump Information:

Pump Model/Type

Pump Model/Type Operator Name Ever Guillen QED Company Name **HDPE** Wood **Tubing Type** Project Name Tubing Diameter .17 in Plant Mitchell CCR Phase 2 Tubing Length Site Name PZ-7D 60.37 ft

Latitude 0° 0' 0"

Longitude 0° 0' 0"

Sonde SN 369557

Turbidity Make/Model Hach 2100Q Pump placement from TOC 55.37 ft

Well Information: Pumping Information:

Final Pumping Rate Well ID PZ-7D 0 mL/min 0.7494568 L Well diameter 2 in Total System Volume Calculated Sample Rate Well Total Depth 60.37 ft 300 sec Stabilization Drawdown Screen Length 10 ft 0 in Depth to Water **Total Volume Pumped** 8 L 33.28 ft

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond µS	cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:11:56	1200.03	24.82	7.02	506.01	5.57	33.48	0.36	10.29
Last 5	15:16:56	1500.03	23.85	7.03	504.40	4.64	33.48	0.34	14.72
Last 5	15:21:56	1800.03	23.92	7.03	505.49	2.49	33.48	0.31	17.07
Last 5	15:26:56	2100.03	24.05	7.02	506.80	1.23	33.48	0.30	18.47
Last 5	15:31:56	2399.88	24.28	7.01	508.25	0.93	33.48	0.28	19.02
Variance 0			0.07	0.00	1.09			-0.03	2.35
Variance 1			0.13	-0.00	1.30			-0.02	1.40
Variance 2			0.22	-0.01	1.45			-0.02	0.54

Notes

Sample time =1535

Date: 2020-08-26 14:11:46

Project Information: Pump Information: Operator Name Ever Guillen Pump Model/Type

QED Company Name HDPE Wood **Tubing Type** Project Name Tubing Diameter .17 in Plant Mitchell CCR Phase 2 Tubing Length Site Name PZ-14 53.20 ft

00 0' 0" Latitude Longitude 00 0' 0" Sonde SN 369557

Turbidity Make/Model Hach 2100Q Pump placement from TOC 48.20 ft

Pumping Information: Well Information:

Well ID Final Pumping Rate PZ-14 0 mL/min Well diameter 2 in Total System Volume 0.7174541 L 53.20 ft Calculated Sample Rate Well Total Depth 300 sec Stabilization Drawdown Screen Length 0 in 10 ft Depth to Water 6 L 44.23 ft **Total Volume Pumped**

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	/cmTurb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:50:02	600.03	26.50	7.01	473.25	10.00	44.47	4.70	39.22
Last 5	13:55:02	900.03	26.36	7.00	472.63	7.31	44.47	4.62	42.18
Last 5	14:00:02	1200.03	25.93	6.98	471.99	3.71	44.47	4.57	42.99
Last 5	14:05:02	1500.03	26.40	6.98	473.82	1.18	44.47	4.52	43.35
Last 5	14:10:02	1800.03	26.35	6.98	474.15	0.98	44.47	4.52	43.45
Variance 0			-0.44	-0.01	-0.64			-0.06	0.81
Variance 1			0.48	0.00	1.83			-0.04	0.37
Variance 2			-0.05	-0.00	0.33			-0.01	0.09

Notes

Sample time =1410

Date: 2020-08-26 13:05:15

Project Information: Operator Name Company Name Project Name Site Name Latitude Longitude Sonde SN	Andreas Shoredits Wood Plant Mitchell CCR Phase II PZ-15 0° 0' 0" 0° 0' 0" 369323	Pump Information: Pump Model/Type Tubing Type Tubing Diameter Tubing Length	QED LDPE 0.17 in 79 ft
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	78.2 ft
Well Information: Well ID Well diameter Well Total Depth Screen Length Depth to Water	PZ-15 2.00 in 83.22 ft 10 ft 31.15 ft	Pumping Information: Final Pumping Rate Total System Volume Calculated Sample Rate Stabilization Drawdown Total Volume Pumped	295 mL/min 0.8326105 L 300 sec 9.7 in 10.6 L

Low-Flow Sar	mpling Stabiliz	ation Summary							
	Time	Elapsed	Temp C	рН	SpCond µS	/cmTurb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	12:01:52	613.02	23.36	7.18	525.61	1.53	31.38	0.17	-87.66
Last 5	12:06:52	913.02	23.22	7.14	527.75	0.80	31.39	0.13	-80.58
Last 5	12:11:52	1213.02	23.19	7.12	527.31	1.00	31.40	0.12	-73.39
Last 5	12:16:52	1513.26	23.13	7.09	528.54	1.10	31.41	0.13	-69.04
Last 5	12:21:52	1813.27	23.10	7.08	529.20	1.13	31.43	0.14	-66.66
Variance 0			-0.04	-0.02	-0.45			-0.00	7.19
Variance 1			-0.06	-0.03	1.23			0.01	4.35
Variance 2			-0.03	-0.01	0.66			0.01	2.38

Notes

Start purging well @ 11:52, stop @ 21:21; Purge rate maintained between 290-295 ml/min; Water has strong sulfurous odor; Collect sample @ 12:25; pH during sample collection is 7.08; Weather is sunny 32 degrees C

Grab Samples PZ-15

Date: 2020-08-26 14:46:54

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood	Tubing Type	LDPE
Project Name	Plant Mitchell CCR Phase II	Tubing Diameter	0.17 in
Site Name	PZ-16	Tubing Length	50 ft
Latitude	00 0' 0"		
Longitude	00 0' 0"		
Sonde SN	369323		
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	48.2 ft
Well Information:		Pumping Information:	
Well ID	PZ-16	Final Pumping Rate	300 mL/min
Well diameter	2.00 in	Total System Volume	0.7031711 L
Well Total Depth	53.19 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.4 in
Depth to Water	34.91 ft	Total Volume Pumped	7.3 L

Low-Flow Sa	mpling Stabiliz	ation Summary	•						
	Time	Elapsed	Temp C	рН	SpCond µS	/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	13:44:53	300.03	22.85	7.33	466.81	4.70	35.06	1.78	119.66
Last 5	13:49:53	600.02	22.69	7.24	470.44	1.37	35.03	1.24	121.76
Last 5	13:54:53	900.08	22.74	7.21	467.42	0.75	35.04	1.13	121.02
Last 5	13:59:53	1200.04	22.52	7.20	466.04	0.40	35.04	1.09	123.19
Last 5	14:04:53	1500.02	22.43	7.18	465.16	0.77	35.04	1.12	122.95
Variance 0			0.05	-0.03	-3.02			-0.11	-0.74
Variance 1			-0.21	-0.01	-1.37			-0.03	2.17
Variance 2			-0.09	-0.02	-0.88			0.02	-0.24

Notes

Start purging well @ 13:40, stop @ 14:04; Lowered initial purge rate of 320 ml/min to 290-300 ml/min @ 13:45; Collect sample @ 14:10; pH during sample collection is 7.18; Weather is sunny 33 degrees C

Grab Samples PZ-16

Date: 2020-08-26 16:34:21

Project Information: Operator Name Company Name Project Name Site Name Latitude Longitude	Andreas Shoredits Wood Plant Mitchell CCR Phase II PZ-17 0° 0' 0" 0° 0' 0"	Pump Information: Pump Model/Type Tubing Type Tubing Diameter Tubing Length	QED LDPE 0.17 in 59 ft
Sonde SN	369323		
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	57.7 ft
Well Information:		Pumping Information:	
Well ID	PZ-17	Final Pumping Rate	290 mL/min
Well diameter	2.00 in	Total System Volume	0.7433419 L
Well Total Depth	62.70 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	0.4 in
Depth to Water	33.16 ft	Total Volume Pumped	8.1 L

Low-Flow Sai	mpling Stabiliz	ation Summary							
	Time	Elapsed	Temp C	рН	SpCond µS	/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	15:23:24	600.02	22.89	7.12	621.34	1.11	33.29	0.35	-76.56
Last 5	15:28:24	900.03	22.69	7.04	621.00	0.73	33.29	0.17	-72.95
Last 5	15:33:24	1200.03	22.62	7.02	623.28	0.42	33.30	0.15	-70.36
Last 5	15:38:24	1500.03	22.55	7.00	624.73	0.55	33.30	0.14	-67.75
Last 5	15:43:24	1800.03	22.57	6.98	625.88	0.73	33.30	0.15	-66.61
Variance 0			-0.07	-0.02	2.27			-0.02	2.58
Variance 1			-0.07	-0.02	1.46			-0.00	2.61
Variance 2			0.01	-0.02	1.15			0.00	1.14

Notes

Start purging well @ 15:15, stop @ 15:43; Initial purge rate of 280 ml/min increased to 290 ml/min @ 15:19; Collect sample @ 15:45; pH during sample collection is 6.98; Weather is sunny 34 degrees C

Grab Samples PZ-17

Date: 2020-08-27 10:01:14

Project Information:

Operator Name

Ever Guillen

Pump Information:

Pump Model/Type

Operator NameEver GuillenPump Model/TypeQEDCompany NameWoodTubing TypeHDPEProject NamePlant Mitchell CCR Phase 2Tubing Diameter.17 inSite NamePZ-18Tubing Length63.18 ft

Latitude 0° 0' 0"

Longitude 0° 0' 0"

Sonde SN 369557

Turbidity Make/Model Hach 2100Q Pump placement from TOC 58.18 ft

Well Information: Pumping Information:

Final Pumping Rate 0 mL/min Well ID PZ-18 Well diameter 2 in Total System Volume 0.761999 L Calculated Sample Rate Well Total Depth 63.18 ft 300 sec Screen Length 10 ft Stabilization Drawdown 0 in Depth to Water **Total Volume Pumped** 8 L 29.64 ft

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:39:04	1200.03	24.03	6.85	613.81	2.62	29.85	0.15	-7.69
Last 5	09:44:04	1500.03	24.06	6.87	615.33	2.69	29.85	0.15	-5.90
Last 5	09:49:04	1799.89	23.99	6.88	613.52	3.39	29.85	0.16	-4.06
Last 5	09:54:04	2099.89	23.90	6.89	614.52	2.06	29.85	0.16	-2.50
Last 5	09:59:04	2399.88	23.91	6.88	613.24	1.89	29.85	0.16	-0.53
Variance 0			-0.07	0.01	-1.80			0.01	1.84
Variance 1			-0.08	0.01	0.99			0.00	1.57
Variance 2			0.00	-0.01	-1.27			0.00	1.96

Notes

Sample time =1005

Date: 2020-08-26 15:37:22

Project Information:

Operator Name Daniel Howard
Company Name Wood E&IS

Project Name Plant Mitchell CCR Phase II

Site Name PZ-19
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369555

Turbidity Make/Model Hach 2100Q

Well Information:

Well IDPZ-19Well diameter2 inWell Total Depth62.63 ftScreen Length10 ftDepth to Water32.56 ft

Pump Information:

Pump Model/Type QED Micropurge

Tubing TypeHDPETubing Diameter.25 inTubing Length62.6 ft

Pump placement from TOC 57.63 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 1.084261 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.01 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	/cmTurb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:13:42	900.17	24.40	6.69	870.86	3.60	32.60	0.24	67.44
Last 5	15:18:42	1200.17	24.40	6.68	863.03	2.83	32.60	0.21	75.32
Last 5	15:23:42	1500.17	24.57	6.68	857.20	2.26	32.61	0.19	80.31
Last 5	15:28:42	1800.17	24.47	6.68	854.34	1.69	32.61	0.19	83.34
Last 5	15:33:42	2100.17	24.68	6.68	853.13	1.15	32.61	0.18	87.43
Variance 0			0.16	-0.00	-5.83			-0.02	4.99
Variance 1			-0.09	0.00	-2.86			-0.00	3.03
Variance 2			0.20	-0.00	-1.22			-0.01	4.08

Notes

PZ-19 sample time 1535.

Date: 2020-08-26 10:35:23

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood	Tubing Type	LDPE
Project Name	Plant Mitchell CCR Phase II	Tubing Diameter	0.17 in
Site Name	PZ-23A	Tubing Length	61 ft
Latitude	00 0' 0"		
Longitude	00 0' 0"		
Sonde SN	369323		
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	59.5 ft
Well Information:		Pumping Information:	
Well ID	PZ-23A	Final Pumping Rate	190 mL/min
Well diameter	2.00 in	Total System Volume	0.7522688 L
Well Total Depth	64.5 ft	Calculated Sample Rate	300 sec
Screen Length	10 ft	Stabilization Drawdown	1.6 in
Depth to Water	50.19 ft	Total Volume Pumped	10 L

Low-Flow Sa	ımpling Stabiliz	ation Summary	1						
	Time	Elapsed	Temp C	рН	SpCond µS	cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	09:47:33	2100.02	22.43	6.64	777.08	6.72	50.70	2.56	109.12
Last 5	09:52:33	2400.02	22.43	6.64	773.63	5.65	50.70	2.57	105.43
Last 5	09:57:33	2700.02	22.56	6.64	772.02	4.60	50.70	2.57	103.65
Last 5	10:02:33	3000.02	22.57	6.64	769.85	4.17	50.70	2.63	103.48
Last 5	10:07:34	3300.88	22.73	6.64	768.63	3.76	50.70	2.64	102.51
Variance 0			0.13	0.00	-1.61			-0.00	-1.78
Variance 1			0.01	0.00	-2.17			0.06	-0.17
Variance 2			0.16	-0.00	-1.22			0.01	-0.97

Notes

Start purging well @ 09:14, stop @ 10:07; Initial purge rate of 180 ml/min increased to 195-190 ml/min @ 09:18; Water initially has slight white precipitate and small bubbles; Collect sample @ 10:10; Duplicate sample collected; pH during sample collection is 6.64; Weather is sunny 28 degrees C

Grab Samples
PZ-23A
Groundwater sample
DUP-02
Groundwater duplicate sample

Date: 2020-08-26 13:51:54

Project Information:
Operator Name
Daniel Howard
Pump Information:
Pump Model/Type

Operator NameDaniel HowardPump Model/TypeQED MicropurgeCompany NameWood E&ISTubing TypeHDPEProject NamePlant Mitchell CCR Phase IITubing Diameter.25 inSite NamePZ-25Tubing Length63 ft

Site Name PZ-25
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369555

Turbidity Make/Model Hach 2100Q Pump placement from TOC 58.2 ft

Well Information: Pumping Information:

Final Pumping Rate 200 mL/min Well ID PZ-25 Well diameter 2 in Total System Volume 1.088122 L Calculated Sample Rate Well Total Depth 63.10 ft 300 sec Stabilization Drawdown Screen Length 10 ft 0.04 in Depth to Water 30.57 ft **Total Volume Pumped** 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond µS	S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization	1		+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:28:08	900.03	24.66	7.11	476.02	1.81	30.86	0.38	-89.25
Last 5	13:33:08	1200.03	24.60	7.10	474.72	1.03	30.86	0.32	-89.05
Last 5	13:38:08	1500.03	24.68	7.09	475.09	0.91	30.88	0.29	-88.62
Last 5	13:43:08	1800.03	24.58	7.09	474.21	1.07	30.88	0.28	-87.77
Last 5	13:48:08	2100.03	24.62	7.09	472.58	0.95	30.88	0.23	-88.44
Variance 0			0.07	-0.01	0.37			-0.03	0.43
Variance 1			-0.09	-0.00	-0.88			-0.01	0.84
Variance 2			0.04	-0.00	-1.63			-0.05	-0.67

Notes

PZ-25 sample time 1350. Collected DUP-01

Date: 2020-08-25 16:29:41

Project Information: Operator Name Company Name Project Name Site Name Latitude Longitude Sonde SN	Andreas Shoredits Wood Plant Mitchell CCR Phase II PZ-31 0° 0' 0" 0° 0' 0" 369323	Pump Information: Pump Model/Type Tubing Type Tubing Diameter Tubing Length	QED LDPE 0.17 in 58 ft
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	56.6 ft
Well Information: Well ID Well diameter Well Total Depth Screen Length Depth to Water	PZ-31 2.00 in 61.60 ft 10 ft 39.91 ft	Pumping Information: Final Pumping Rate Total System Volume Calculated Sample Rate Stabilization Drawdown Total Volume Pumped	195 mL/min 0.7388785 L 300 sec 0.7 in 5.7 L

Low-Flow Sa	mpling Stabiliz	ation Summary							
	Time	Elapsed	Temp C	рН	SpCond µS	/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	15:49:55	600.02	23.27	7.25	471.45	2.94	40.29	4.60	181.18
Last 5	15:54:55	900.02	22.82	7.19	471.73	1.88	40.32	4.66	181.11
Last 5	15:59:55	1200.02	22.69	7.15	470.29	1.60	40.35	4.71	184.16
Last 5	16:04:55	1500.02	22.71	7.15	470.61	1.56	40.35	4.70	185.46
Last 5	16:09:55	1800.02	22.55	7.14	470.14	1.50	40.35	4.68	187.03
Variance 0			-0.14	-0.04	-1.44			0.04	3.04
Variance 1			0.03	0.00	0.32			-0.01	1.30
Variance 2			-0.17	-0.01	-0.47			-0.02	1.57

Notes

Start purging well @ 15:41, stop @ 16:10; Initial purge rate of 220 ml/min reduced to 160 ml/min @ 15:46 and set to final purge rate of 195 ml/min @ 15:51; Collect sample @ 16:15; pH during sample collection is 7.14; Weather is sunny 34 degrees C

Grab Samples PZ-31

Date: 2020-08-25 15:26:29

Project Information: Operator Name Company Name Project Name Site Name Latitude Longitude Sonde SN	Andreas Shoredits Wood Plant Mitchell CCR Phase II PZ-32 0° 0' 0" 0° 0' 0" 369323	Pump Information: Pump Model/Type Tubing Type Tubing Diameter Tubing Length	QED LDPE 0.17 in 60 ft
Turbidity Make/Model	HACH 2100Q	Pump placement from TOC	58.3 ft
Well Information: Well ID Well diameter Well Total Depth Screen Length Depth to Water	PZ-32 2.00 in 65.30 ft 10 ft 38.44 ft	Pumping Information: Final Pumping Rate Total System Volume Calculated Sample Rate Stabilization Drawdown Total Volume Pumped	285 mL/min 0.7478054 L 300 sec 0 in 10.6 L

Low-Flow Sa	mpling Stabiliz	ation Summary							
	Time	Elapsed	Temp C	рН	SpCond µS	/cmTurb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 20
Last 5	14:32:27	1200.02	20.05	7.72	317.90	0.72	38.50	0.34	137.72
Last 5	14:37:27	1500.02	19.97	7.66	318.41	0.84	38.50	0.33	134.74
Last 5	14:42:27	1800.02	19.97	7.61	318.64	0.47	38.50	0.36	133.98
Last 5	14:47:27	2100.02	19.92	7.55	319.06	0.03	38.50	0.42	134.34
Last 5	14:52:27	2400.02	19.91	7.53	319.44	0.09	38.50	0.50	134.60
Variance 0			0.00	-0.04	0.24			0.02	-0.76
Variance 1			-0.05	-0.06	0.42			0.07	0.36
Variance 2			-0.01	-0.02	0.38			0.07	0.26

Notes

Start purging well @ 14:13, stop @ 14:52; Purge rate maintained between 290-285 ml/min; Collect sample @ 14:55; pH during sample collection is 7.53; Weather is sunny 33 degrees C

Grab Samples PZ-32

Date: 2020-08-26 10:21:39

Project Information:

Operator Name

Ever Guillen

Pump Information:

Pump Model/Type

Operator NameEver GuillenPump Model/TypeQEDCompany NameWoodTubing TypeHDPEProject NamePlant Mitchell CCR Phase 2Tubing Diameter.17 inSite NamePZ-33Tubing Length73.60 ft

Latitude 0° 0' 0"

Longitude 0° 0' 0"

Sonde SN 369557

Turbidity Make/Model Hach 2100Q Pump placement from TOC 68.60 ft

Well Information: Pumping Information:

Well ID PZ-33 Final Pumping Rate 0 mL/min Well diameter 2 in Total System Volume 0.8085079 L 73.60 ft Calculated Sample Rate Well Total Depth 300 sec Screen Length 10 ft Stabilization Drawdown 0 in Depth to Water 7 L 49.63 ft **Total Volume Pumped**

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond µS	/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:59:45	903.03	22.08	6.95	503.43	5.35	50.03	0.15	-4.99
Last 5	10:04:45	1203.03	21.99	6.97	507.85	3.98	50.03	0.14	5.46
Last 5	10:09:45	1503.03	21.96	6.98	507.60	1.97	50.03	0.14	10.69
Last 5	10:14:45	1803.03	21.91	6.99	508.66	0.78	50.03	0.15	13.87
Last 5	10:19:45	2103.03	21.91	6.99	508.72	0.46	50.03	0.15	16.45
Variance 0			-0.03	0.02	-0.25			-0.00	5.23
Variance 1			-0.05	0.01	1.06			0.00	3.18
Variance 2			-0.00	0.00	0.06			0.00	2.58

Notes

Sample time =1020

Date: 8-25-20
Time: 1430
Prepared By: EVER GUILLER Checked By:

Wood. Project No. 6122160170

Pine Sonde ID: 36955-7 Pine Handset ID: 306/8 Battery Voltage %: 100

CALI	BRATION PRIOR TO SAMPLING	
DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	YesNoDate: Time:	
Current Air Temperature °C (meter reading):		21,06
Current Barometric Pressure (from Weather		
Channel or NOAA.gov, which is corrected to		
sea level):		· patron
Elevation Corrected Barometric Pressure to	Ex.: 30.02 in, Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every	White the land of
enter into YSI DO calibration:	100 ft. above sea level: $565/100 \times 2.54 = 14.4 \text{ mm Hg}$	758,3
Theoretical DO (mg/L) from DO table based		
on current temperature and elevation corrected		:
pressure:		باسو،
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.78
DO concentration after Calibration (mg/L):		8.55
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	_
DO Charge (DO ch):	Acceptable Range is 25 to 75	****
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	
Note:		
CONDUCTIVITY [Note: Calibrate before pH to a	void carry-over from pH standards (i.e. pH buffers are conductive)]	
Calibration standard used (mS/cm)		1.413
Temperature (°C)	286	
Reading before Calibration (mS/cm)		1,462
Reading AFTER Calibration (mS/cm)		12.79
Conductivity Cell Constant (unitless):		Name of the last o
Note: Be sure conductivity cell is submerged and free of but	bles (gently tap sonde on table)	
рН		
pH 7.0 value before calibration:		7,01
pH 7.0 value after calibration:		6.99
pH 7.0 mV (range is -50 to +50 mV):		-0,5
pH 10 value before calibration:	<i></i>	10,02
pH 10 value after calibration:		9,96
pH 10 mV (range is -130 to -230 mV):		-1750
pH 4.0 value before calibration:	* ** * - * - * - * - * *** * - * - * -	4.10
pH 4.0 value after calibration:		4,01
pH 4.0 mV (range is 130 to 230 mV):		168,8
Note: Span between ph 4 and 7, and 7 and 10 should be between		, , , , , , , , , , , , , , , , , , ,
OXIDATION/REDUCTION POTENTIAL (ORP)	
Calibration Temperature (°C):		30,1
Theoretical Calibration standard (mV)	$0.231+0.0013(25-T) \times 1000 = mV$ (T is Temperature °C)	240,0
Reading before calibration (mV):		ててなと
Reading after calibration (mV):		222,0
Note: mV theory will change with temperature	e, so calculate based on your current temp.	
TURBIDITY Note: Lens wiper should be parked 18	0 degrees from the optics.	
10 NTU Turbidity Standard	Before Cal: 9,54 After Cal:	9.96
NTU Turbidity Standard	Before Cal: 2012 After Cal:	20.3
100 NTU Turbidity Standard	Before Cal: /o/ After Cal:	100
BOO NTU Turbidity Check STD	Before Cal: 824 After Cal:	792
NTU Turbidity Check STD	Before Cal: 9,95 After Cal:	9,9%
CALIBRATION SUCCESSFUL?		

Date: 8-26-20	
Time:	
Prepared By: EVER QUILLEN	
Checked By:	
	1

Wood. Project No. 6122160170 Pine Sonde ID: 35475
Pine Handset ID: 35678
Battery Voltage %: 105

CALII DISSOLVED OXYGEN (DO)	BRATION PRIOR TO SAMPLING	NZ A T OTTO
Was DO membrane changed?	Yes No Date: Time:	VALUE
Current Air Temperature °C (meter reading):	Tes No	7/ //
Current Barometric Pressure (from Weather		26,48
Channel or NOAA.gov, which is corrected to		
sea level):	· ·	
Elevation Corrected Barometric Pressure to	Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every	
enter into YSI DO calibration:	100 ft. above sea level: $565/100 \times 2.54 = 14.4 \text{ mm Hg}$	7584
Theoretical DO (mg/L) from DO table based	Too it. above dea to ver. 505/100 & 2,54 P4,4 tilli 11g	(.) 60
on current temperature and elevation corrected		
pressure:		,,,,,,
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8,08
DO concentration after Calibration (mg/L):	Depending on meter version, this may not be available.	
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	7.86
DO Charge (DO ch):	Acceptable Range is 25 to 75	-
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	
Note:	Exit Cantoration menti and go to Advanced/Car Constants	
	void carry-over from pH standards (i.e. pH buffers are conductive)]	
Calibration standard used (mS/cm)		1,413
Temperature (°C)		26,6
Reading before Calibration (mS/cm)		1,428
Reading AFTER Calibration (mS/cm)		1,279
Conductivity Cell Constant (unitless):		yes
Note: Be sure conductivity cell is submerged and free of bub	bics (sently tan sonde on table)	
oH		······································
oH 7.0 value before calibration:		7,04
oH 7.0 value after calibration:		7,00
oH 7.0 mV (range is -50 to +50 mV):		~2,4
pH 10 value before calibration:		9.95
pH 10 value after calibration:		10,0
pH 10 mV (range is -130 to -230 mV):		-
oH 4.0 value before calibration:		~174
pH 4.0 value after calibration:		4,00
oH 4.0 mV (range is 130 to 230 mV):		
Note: Span between ph 4 and 7, and 7 and 10 should be between	200 165 to 180 mV	166,9
OXIDATION/REDUCTION POTENTIAL (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Calibration Temperature (°C):		25,9
Theoretical Calibration standard (mV)	$0.231+0.0013(25-\Gamma) \times 1000 = \text{mV}$ (T is Temperature °C)	240
Reading before calibration (mV):		231,1
Reading after calibration (mV):		228,0
Note: mV theory will change with temperature	e, so calculate based on your current temp.	
FURBIDITY Note: Lens wiper should be parked 18	·	
6 NTU Turbidity Standard	Before Cal: 9,5) After Cal:	9,94
O NTU Turbidity Standard	Before Cal: 2014 After Cal:	20,4
	· · · · · · · · · · · · · · · · · · ·	100
pp NTU Turbidity Standard	Before tai: 100 After tai: 1	
NTU Turbidity Standard NTU Turbidity Check STD		الرباء والمستوالية والمستوالية
NTU Turbidity Standard NTU Turbidity Check STD NTU Turbidity Check STD	Before Cal: 853 After Cal: Before Cal: 9.64 After Cal:	775

Date: 8-27-20 Time: 800

Checked By:

Prepared By: GVER GUILLEN

Wood. Project No. 6122160170 Pine Sonde ID: 25973
Pine Handset ID: 30618
Battery Voltage %: 100

DISSOLVED OXYGEN (DO)	BRATION PRIOR TO SAMPLING	VALUE
Was DO membrane changed?	Yes No Date: Time:	T.C. NACH WAR
Current Air Temperature °C (meter reading):	Detail and the second	100 2 miles (100 miles
Current Barometric Pressure (from Weather	And the state of t	25.75
Channel or NOAA.gov, which is corrected to		
sea level):		_
Elevation Corrected Barometric Pressure to	Ex.: 30,02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every	HA H
enter into YSI DO calibration:	100 ft. above sea level: $565/100 \times 2.54 = 14.4 \text{ mm Hg}$	758,2
Theoretical DO (mg/L) from DO table based	AND	
on current temperature and elevation corrected		
pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.30
DO concentration after Calibration (mg/L):	The state of the s	18,14
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	Carle Months in the con-
DO Charge (DO ch):	Acceptable Range is 25 to 75	Betata 実現出なり入場的表明を4 (201/年15)
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	A THE PERSON NAMED IN COLUMN DESCRIPTION OF THE PERSON NAMED IN COLUMN D
Note:		
CONDUCTIVITY [Note: Calibrate before pH to a	void carry-over from pH standards (i.e. pH buffers are conductive)]	**************************************
Calibration standard used (mS/cm)	No. of the second secon	1,4/3
Γemperature (°C)	26,2	25-7
Reading before Calibration (mS/cm)		1.439
Reading AFTER Calibration (mS/cm)		1,279
Conductivity Cell Constant (unitless):		4PPR4
Note: Be sure conductivity cell is submerged and free of bub	bles (gently tap sonde on table)	
oH		
oH 7.0 value before calibration:		7,07
oH 7.0 value after calibration:		7,00
oH 7.0 mV (range is -50 to +50 mV):	F AGE B' AGE F LEET F LEET A BEN'N A BEN'N A LEET A LEET A LEET A LEET F AGE F LEET F	-3,7
pH 10 value before calibration:		9,99
pH 10 value after calibration:		10,00
pH 10 mV (range is -130 to -230 mV):	 	-176.7
H 4.0 value before calibration:		4.25
oH 4.0 value after calibration:		4,00
oH 4.0 mV (range is 130 to 230 mV):		162,7
Note: Span between ph 4 and 7, and 7 and 10 should be betw DXIDATION/REDUCTION POTENTIAL ((W)
Calibration Temperature (°C):		24,2
heoretical Calibration standard (mV)	$0.231+0.0013(25-T) \times 1000 = mV$ (T is Temperature °C)	240.0
Reading before calibration (mV):		234,5
Reading after calibration (mV):		230.0
Note: mV theory will change with temperature		
URBIDITY Note: Lens wiper should be parked 18	0 degrees from the optics.	
NTU Turbidity Standard	Before Cal: 49 9,61 After Cal:	9,79
NTU Turbidity Standard	Before Cal: 19,3 After Cal:	20,2
00 NTU Turbidity Standard	Before Cal: 98,9 After Cal:	101
NTU Turbidity Check STD	Before Cal: 82/ After Cal:	796
NTU Turbidity Check STD	Before Cal: 9.52 After Cal:	10,2
CALIBRATION SUCCESSFUL?		THE PERSON NAMED IN PERSONS IN

Date: 08/05/2020 Time: 06: 20 Prepared By: 4-SHOLEDSTS Checked By:

CALIBRATION SUCCESSFUL?

SMARTROLL Wood.
Project No. 6122160170
Powl Pine Handset ID: 030616
Battery Voltage %: 90 Hach 2100Q S/N Place #

MES

CALIBRATION PRIOR TO SAMPLING

	BRATION PRIOR TO SAMPLING	<u> </u>
DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	YesNo_X Date:Time:	
Current Air Temperature °C (meter reading):		30.80
Current Barometric Pressure (from Weather		1818.3 mbar
Channel or NOAA.gov, which is corrected to		30.07 in 45
sea level):		30.07 11175
Elevation Corrected Barometric Pressure to	Ex.: 30.02 in, Hg x $25.4 = mm$ Hg; subtract 2.54 mm Hg for every	
enter into YSI DO calibration:	100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	
Theoretical DO (mg/L) from DO table based		
on current temperature and elevation corrected		1
pressure:		67 08125/20 7-74 160%
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	7-74 100%
DO concentration after Calibration (mg/L):		
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	۵_
Note:		<u> Italian marang panggang at</u>
<u></u>	oid carry-over from pH standards (i.e. pH buffers are conductive)]	
Calibration standard used (mS/cm)	Lot # 09.6438 Eno.05/21	1.413
Temperature (°C)		83.60
Reading before Calibration (mS/cm)		1.404
Reading AFTER Calibration (mS/cm)		1.413
Conductivity Cell Constant (unitless):		
Note: Be sure conductivity cell is submerged and free of bubl	oles (gently tap sonde on table)	
pН		6.87 96
pH 7.0 value before calibration:	Lot 4090808 Exp 04/22	6:88 96
pH 7.0 value after calibration:		7.00
pH 7.0 mV (range is -50 to +50 mV);		-36.1
pH 10 value before calibration:	Lof # 961648 Faxo. 12/21	- 23.7°C
pII 10 value after calibration:	000 11 130000	10.00
pH 10 mV (range is -130 to -230 mV):		-2079
pH 4.0 value before calibration:	Lot # 090046 Pxp.06/22	- 237°c
pH 4.0 value after calibration:	Lot # 090046 Pxp.01/22	4.00
pH 4.0 mV (range is 130 to 230 mV):		132-7
Note: Span between ph 4 and 7, and 7 and 10 should be betw	cen 165 to 180 mV	15,00
OXIDATION/REDUCTION POTENTIAL (
Calibration Temperature (°C):	Lot # 05D520 Par 01/21	235.6
Theoretical Calibration standard (mV)	$0.231+0.0013(25-T) \times 1000 = mV$ (T is Temperature °C)	~70.0
Reading before calibration (mV):	(1 is 1 composition 2)	24.0
Reading after calibration (mV):		
Note: mV theory will change with temperature	so calculate based on your current temp	240.3
TURBIDITY Note: Lens wiper should be parked 180		
20 NTU Turbidity Standard 201 # AO(1		193
100 NTU Turbidity Standard 61# A 912	. 11	AND DESCRIPTION OF THE PERSON
800 NTU Turbidity Standard Let # A 011		99.7
10 NTU Turbidity Check STD Loft 492	a Giallia atta	794 9.82
NTU Turbidity Check STD	b	1.0 4
MTO Turbidity Check STD	Before Cal: After Cal:	: I

Date: 08/26/2026 Time: 06:25

Checked By: _____

Prepared By: A-SHORED 775

NTU Turbidity Check STD

CALIBRATION SUCCESSFUL?

Wood. Pine Sonde ID: 025467

Project No. 6122160170 Pol Pine Handset ID: 62565066

SMARTROLE

Battery Voltage %: 90
Hach 2100@ \$\N 121100021737
Pine #022853

CHEBRATION TROOK TO BIRM BING						me #02	2853
DISSOLVED OXYGEN (DO)				***		VALUE	7
Was DO membrane changed?	Yes	No 🔀	Date:	Time:			=
Current Air Temperature °C (meter reading):	T					24.94	
Current Barometric Pressure (from Weather					••••		1,,
Channel or NOAA.gov, which is corrected to						30.061	res
sea level):	ļ						i
Elevation Corrected Barometric Pressure to	Ex.: 30.	02 in. Hg x 25.4	= mm Hg; so	ubtract 2,54 m	m Hg for ever	7	1
enter into YSI DO calibration:		bove sea level: 5				1	1
Theoretical DO (mg/L) from DO table based						- In the state of	1
on current temperature and elevation corrected						1	
pressure:						i	
DO concentration before Calibration (mg/L):	Depend	ing on meter ve	ersion, this	may not be av	ailable.	8.29	land
DO concentration after Calibration (mg/L):	1		· · · · · · · · · · · · · · · · · · ·				100.1
% Recovery (actual/theory x 100)	Range i	s 90 to 110% R	lecovery				-
DO Charge (DO ch):		ble Range is 25	-			-	1
DO Gain (should be between -0.7 and 1.5):		libration menu		dvanced/Cal	Constants		
Note:			6		0 9110141110		J
CONDUCTIVITY [Note: Calibrate before pH to as	oid carry-o	ver from pH standar	rds (i.e. pH buf	fers are conductiv	e)]		1
Calibration standard used (mS/cm)		109E438		Eage 08	····	1.413	1
Temperature (°C)	201 11	· · · · · · · · · · · · · · · · · · ·	>	-all on	161	22.8	-
Reading before Calibration (mS/cm)	 		11.			1.413	i
Reading AFTER Calibration (mS/cm)	 	·		•		-	ł
Conductivity Cell Constant (unitless):	<u> </u>				· *	1.413	ł
Note: Be sure conductivity cell is submerged and free of bub	L. Locativ	tan sonde on table)		***************************************			j
pH	oles (gentty	tap sonte on table)					1
pH 7.0 value before calibration:	1116	604D808		12 02	12.7	7.05	23.4
pH 7.0 value after calibration;	6~0 j. 44	= U420UB		12mp. 04	100	7.00	63.4
pH 7.0 mV (range is -50 to +50 mV):							12
pH 10 value before calibration:	7-7	460176	<i>5</i>			-34.2	43.1 23.5
pH 10 value after calibration:	Leg V C	4 9GL 64	<u> </u>	Fap. 121	6-1		220
pH 10 mV (range is -130 to -230 mV):				-		10.00	4
pH 4.0 value before calibration:	7-1					-207.4	
pH 4.0 value after calibration:	COFA	= oabo46	>	Fxp.041	27	,	23.4
			 			4.00	
pH 4.0 mV (range is 130 to 230 mV):	L					128.9	
Note: Span between ph 4 and 7, and 7 and 10 should be betw			A 17:1			***************************************	1
OXIDATION/REDUCTION POTENTIAL (Stal 240	-OmU)				
Calibration Temperature (°C):	L01#			Eno.		234	ė
Theoretical Calibration standard (mV)	0.231 + 0	.0013(25-T) x	1000 = mV	(T is Temp	erature °C)	C ,	
Reading before calibration (mV):		-				240.7	
Reading after calibration (mV):						240.0	
Note: mV theory will change with temperature			our current	temp.			-
TURBIDITY Note: Lens wiper should be parked 18							
20 NTU Turbidity Standard Lof # AO	113 E	300.07/21	Before Ca	1: 20.4	After Cal:	20.4	
100 NTU Turbidity Standard Lot 4 A9	121 12	Bap.08/20	Before Ca	il: 101	After Cal:	98.1	
100 NTU Turbidity Standard Lot # A9. 100 NTU Turbidity Standard Lot # A0 10 NTU Turbidity Check STDLof # A9	14 E	Exp. 07/21	Before Ca	ıl: 780	Aster Cal:	797	
W NTU Turbidity Check STDL # A 9	413 E	xp. 11/20	Before Ca	1: 9.80	After Cal:	9 63	
MTH Tunkiditer Charle CTD			10 C C	1			

Before Cal:

After Cal:

YES

Date: <u>\$ /2.5/2.0</u> Time: <u>/3.2.5</u>	•
Time: 1323	0.0
Prepared By: Danie	Howard
Checked By:	

Wood. Project No. 6122160170.2002 Pine Sonde ID: 17.5

Pine Handset ID: 36.9936

Battery Voltage %: 50

	BRATION PRIC	OR TO SAMPLIN	G			
DISSOLVED OXYGEN (DO)					VALUE	
Was DO membrane changed?	YesN	o Date:	Time:			
Current Air Temperature °C (meter reading):					34.5	
Current Barometric Pressure (from Weather						
Channel or NOAA.gov, which is corrected to						
sea level):					1	
Elevation Corrected Barometric Pressure to		$\lg x \ 25.4 = mm Hg;$,	!
enter into YSI DO calibration:	100 ft. above se	н level: 565/100 x 2	2.54 = 14.4 mm	Hg	757.9	
Theoretical DO (mg/L) from DO table based						
on current temperature and elevation corrected						
pressure:						
DO concentration before Calibration (mg/L):	Depending on	meter version, thi	s may not be a	vailable.		
DO concentration after Calibration (mg/L):					6,95	
% Recovery (actual/theory x 100)	Range is 90 to	110% Recovery			99,4	
DO Charge (DO ch):		nge is 25 to 75			1	
DO Gain (should be between -0.7 and 1.5):	Exit Calibratio	on menu and go to	Advanced/Ca	Constants	1.0072	
Note:						ı
CONDUCTIVITY [Note: Calibrate before pH to av	oid carту-over from	pH standurds (i.e. pH l	uffers are conducti	vc)]		
Calibration standard used (mS/cm)	Lat	0 G.F.438	05/21		1.413	
Temperature (°C)		<u> </u>	- <i>Uj z</i> . j		93.6	
Reading before Calibration (mS/cm)					1 277	
Reading AFTER Calibration (mS/cm)					1312	
Conductivity Cell Constant (unitless):					/ A167	
Note: Be sure conductivity cell is submerged and free of bubl	oles (gently tan sond	e on table)			1/4/25-11-1	
рН	(B)					
pH 7.0 value before calibration:	Lot	9GK721	11/21	Market and the second	6,98	
pH 7.0 value after calibration:		1011		32,90€	7.86	
pH 7.0 mV (range is -50 to +50 mV):		,		6)4116	-10 E	Α,
pH 10 value before calibration:		961648	12/21	رو می ایست ای استان کا استان	464	10,94
pH 10 value after calibration:	<u> </u>	102010	1~/~/	2 - 001	0.02	1017
pH 10 mV (range is -130 to -230 mV):				27.4 [-224.8	
pH 4.0 value before calibration:		6D046	9/22			
pH 4.0 value after calibration:	Let U	<u>GIJUTE</u>	1/2	38,2	4.03	
pH 4.0 mV (range is 130 to 230 mV):				00.7		
Note: Span between ph 4 and 7, and 7 and 10 should be between	een 165 to 180 mV				1253	
OXIDATION/REDUCTION POTENTIAL (
Calibration Temperature (°C):		40 T to =	1/21			
Theoretical Calibration standard (mV)	0 231+0 00136	<u> </u>		perature °C)	3941	
Reading before calibration (mV):	0.231 0.0015(23 1 j x 1000 III	v (1 to tem	perature cy	1292	
Reading after calibration (mV):					162.0	
		and on	unt travers		1202	
Note: mV theory will change with temperature TURBIDITY Note: Lens wiper should be parked 180	, so calculate ba	sed on your curre	nı temp.			
20 NTU Turbidity Standard Lot 19254			Ta1,	λ Δ C1-1.	77.	
100 NTU Turbidity Standard Lot A 92	,	Before (After Cal:	19.4	
	~ / / / ~ U	Before (After Cal:	74.9	
ROONTU Turbidity Standard Lot A 924	., .,	Before (After Cal:	182	^ -=
NTU Turbidity Check STD Lat A92		Before 0		After Cal:		9.77
ALL INDA STORY STORY AND ASSESSMENT OF THE PROPERTY OF THE PRO	21 4166	Before (Jal:	After Cal:		
CALIBRATION SUCCESSFUL?						

Date: 8/26/20
Time: 0500
Prepared By: Daniel Howard
Checked By:

Wood. Project No. 6122160170.2002 Pine Sonde ID: A 04725
Pine Handset ID: 36945 6
Battery Voltage %: 50

	BRATION	I PRIOR TO	SAMPLING	3		
DISSOLVED OXYGEN (DO)						VALUE
Was DO membrane changed?	Yes	No_ 1∕	Date:	Time:		
Current Air Temperature °C (meter reading):						24.9
Current Barometric Pressure (from Weather						
Channel or NOAA.gov, which is corrected to			-			
sea level):						
Elevation Corrected Barometric Pressure to	Ex.: 30.0	2 in. Hg x 25	5.4 = mm Hg; s	subtract 2.54	mm Hg for every	<i>y</i>
enter into YSI DO calibration:	100 ft. ab	ove sea level	: 565/100 x 2,	.54 = 14.4 mm	Hg	755.4
Theoretical DO (mg/L) from DO table based						
on current temperature and elevation corrected						
pressure:	<u> </u>					·
DO concentration before Calibration (mg/L):	Dependi	ng on meter	version, this	may not be	available.	٠
DO concentration after Calibration (mg/L):						8.08
% Recovery (actual/theory x 100)	Range is	90 to 110%	Recovery			98.2
DO Charge (DO ch):	Acceptal	ole Range is	25 to 75			٠
DO Gain (should be between -0.7 and 1.5):	Exit Cal	ibration me	iu and go to	Advanced/Ca	al Constants	1.0198
Note:						
CONDUCTIVITY [Note: Calibrate before pH to av					live)]	
Calibration standard used (mS/cm)	1 /	1040G	E438	15/4/		1.413
Temperature (°C)		- T				26.0
Reading before Calibration (mS/cm)	1					1,386
Reading AFTER Calibration (mS/cm)			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1,413
Conductivity Cell Constant (unitless):		· · · · · · · · · · · · · · · · · · ·				1.0195
Note: Be sure conductivity cell is submerged and free of bub	bles (gently t	ap sonde on tal	ole)			
pH						
pH 7.0 value before calibration:	1	nd 00	K721	11/21		7.81
pH 7.0 value after calibration:		<u> </u>	7.1		26,00	7,00
pH 7.0 mV (range is -50 to +50 mV):	,					-48.0
pII 10 value before calibration:		1 6/	L 648	12/21		10.73
pH 10 value after calibration:	1			, , ,	26.1°C	10.00
pH 10 mV (range is -130 to -230 mV):					00011	-2198
pH 4.0 value before calibration;	T	15 AG	1046	4600	<i> </i>	4.93
pH 4.0 value after calibration:	/	OT O S	<i></i>		26.4°C	
pH 4.0 mV (range is 130 to 230 mV):					A0.1 L	121.9
Note: Span between ph 4 and 7, and 7 and 10 should be betw	een 165 to 1	80 mV		 		
OXIDATION/REDUCTION POTENTIAL (
Calibration Temperature (°C):	,	1 DO	EA)52A	1/21		126.4
Theoretical Calibration standard (mV)	0.231 + 0.	0013(25-T)	シ0526 x 1000 = m\	/ (T is Ten	perature °C)	227
Reading before calibration (mV):				<u> </u>	<u> </u>	1851
Reading after calibration (mV):						
Note: mV theory will change with temperature	so calcui	late based o	n Vour curren	ıt temp		227
TURBIDITY Note: Lens wiper should be parked 18	0 degrees fr	om the optics.	a your carren	comp.		
20 NTU Turbidity Standard Let A925			Before C	'a1·	After Cal:	12/2
100 NTU Turbidity Standard Lot A 921	2 11/2	40	Before C		After Cal:	20.2
800 NTU Turbidity Standard Lot A 921	3 11/2	io In a	Before C		After Cal:	44.
NTU Turbidity Check STD Lot A92		~ O	Before C			18/3
	_		Before C		After Cal:	9.92
CALIBRATION SUCCESSFUL?	<u>v/ 2</u>	122	Delore C	ai,	After Cal:	0.74
						L.,

ame Number	Plant Mitchell N/A			
)	MW-10Z			
	08/25/2020	V	N.I -	/=
1 Location	/Identification	Yes	No	n/a
а	Is the well visible and accessible?	/		
b	Is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require protection from traffic?	/		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protectiv				
a	Is the protective casing free from apparent damage and able to be secured?	/		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<u>/</u>		
е	Is the well locked and is the lock in good condition?	/		
3 Surface	pad			
а	Is the well pad in good condition (not cracked or broken)?	/		
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?	7		
4 Internal o				
a internal c				
b	Does the cap prevent entry of foreign material into the well?		,	
	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	Is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?	/		
е	Is the depth of the well consistent with the original well log?			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<u>/</u>		
5 Sampling	: Groundwater Wells Only:			,
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition			<u>√</u>
С	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?			
6 Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	e actions as needed, by date:			

Name	Plant Mitchell	_		
nit Number ID	N/A	-		
טו	MW-108 08/25/2020	_		
	00/05/0000	Yes	No	n/a
1 Location	n/Identification	,		
а	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require protection from traffic?		***************************************	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u></u>		Photography and the state of th
2 <u>Protecti</u> v a	Is the protective casing free from apparent damage and able to	1		
b	be secured?			
c	Is the casing free of degradation or deterioration?	-/-		
	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?			
3 Surface	nad			
a <u>sumaso</u>	Is the well pad in good condition (not cracked or broken)?	/		
b	· · · · · · · · · · · · · · · · · · ·			
С	Is the well pad sloped away from the protective casing?			
d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<u> </u>		
е	Is the pad surface clean (not covered with sediment or debris)?	$\overline{}$		
4 Internal			<u> </u>	
a	•	./		
h	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?	/		
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
5 Sampline	g: Groundwater Wells Only:			
а	Does well recharge adequately when purged?			/_
b	If dedicated sampling equipment installed, is it in good condition			
С	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?			<u> </u>
6 Based or	n your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			

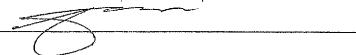
Name	Plant Mitchell			
mit Number ILID	N/A			
e	08/25/2020	-		
	1,000 1,000 0,000	Yes	No	n/a
	n/ldentification			
a	Is the well visible and accessible?	_/		
b	Is the well properly identified with the correct well ID?			_
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			•
2 Protectiv	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?	/		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<u> </u>		
е	Is the well locked and is the lock in good condition?			-
2.0.1				*************************************
3 <u>Surface</u> a		/		
b	Is the well pad in good condition (not cracked or broken)?			
	Is the well pad sloped away from the protective casing?			
c d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does		<u>,</u>	
e	not move when stepped on)			
_	is the pad surface clean (not covered with sediment or debris)?			
4 <u>Internal c</u>	<u>pasing</u>			
а	Does the cap prevent entry of foreign material into the well?	· /		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	V		
С	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?			
е	Is the depth of the well consistent with the original well log?			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	/		
5 Camplina	: Groundwater Wells Only:			
a <u>Samping</u>	. Groundwater wells Only: Does well recharge adequately when purged?			1
b	If dedicated sampling equipment installed, is it in good condition			
С	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?			<u>/</u>
6 Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<u> </u>		
7 Corrective	actions as needed, by date;			
			<u> </u>	

Sign

Name	Plant Mitchell	_		
it Number	N/A	_		
ID	MW-113 08725/2020			
	081231220	_ Yes	No	n/a
1 Location	<u>/Identification</u>	, _ ,		
а	Is the well visible and accessible?			
Ь	Is the well properly identified with the correct well ID?	/		
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u> </u>		
2 Protective	e Casing			
а	Is the protective casing free from apparent damage and able to be secured?	1		
b	Is the casing free of degradation or deterioration?	_/		
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?			
2 C	·			
3 <u>Surface p</u> a		/		
b	is the well pad in good condition (not cracked or broken)?			
c	Is the well pad sloped away from the protective casing?	/		
d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does			••••••
е	not move when stepped on)			
v	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal ca	a <u>sing</u>			
а	Does the cap prevent entry of foreign material into the well?	/		
þ	is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	Is the well properly vented for equilibration of air pressure?			
ď		<u> </u>		
0	Is the survey point clearly marked on the inner casing?			
e f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched	<u> </u>		
	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			•••
	Groundwater Wells Only:			_
	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			/
	Does the well require redevelopment (low flow, turbid)?			7
	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	✓		

Name	Plant Mitchell			
nit Number I fD	N/A			
6 6	MW-115 08/25/2020	_		
		 Yes	No	n/a
	n/ldentification			
a	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?		√	
С	is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protecti	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?	\checkmark		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?	1		1*
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?			
3 Surface	nad			
a	Is the well pad in good condition (not cracked or broken)?	./		
b	Is the well pad sloped away from the protective casing?			
Ċ	Is the well pad in complete contact with the protective casing?		Pro I-marramen III	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		· · · · · · · · · · · · · · · · · · ·	
е	Is the pad surface clean (not covered with sediment or debris)?	· ·		
4 <u>internal</u>	•			7
a	-			
b	Does the cap prevent entry of foreign material into the weil?	<u> </u>		
n	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<u> </u>		
С	Is the well properly vented for equilibration of air pressure?	/		
d	is the survey point clearly marked on the inner casing?			
е				
f	is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			· · · · · · · · · · · · · · · · · · ·
5 Sanadias	,			
a <u>Sampiint</u>	g: Groundwater Wells Only: Does well recharge adequately when purged?			/
b	If dedicated sampling equipment installed, is it in good condition			
C	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?		<u> </u>	
6 Based or	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
7 Corrective אשע	e actions as needed, by date: Need(ID Fry.			·

			Plant Mitchell	e Name
		_	N/A	rmit Number
			MW-116	ell ID te
n/a	No	Yes	08/25/2020	ie.
****		/	n/Identification	
			Is the well visible and accessible?	a ,
	**********		Is the well properly identified with the correct well ID?	b
			Is the well in a high traffic area and does the well require protection from traffic?	С
		-/	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	d
			ve Casing	2 Protectiv
		1	Is the protective casing free from apparent damage and able to be secured?	а
		7	Is the casing free of degradation or deterioration?	b
		<i></i>	Does the casing have a functioning weep hole?	C
			Is the annular space between casings clear of debris and water,	d .
		<u> </u>	or filled with pea gravel/sand?	_
	·		Is the well locked and is the lock in good condition?	е
		1	pad	3 <u>Surface</u>
		<u> </u>	Is the well pad in good condition (not cracked or broken)?	а
		<i>J</i>	Is the well pad sloped away from the protective casing?	b
			Is the well pad in complete contact with the protective casing?	С
			is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	d
MACON			Is the pad surface clean (not covered with sediment or debris)?	е
		<u> </u>		4 Internal c
		1	-	a
			Does the cap prevent entry of foreign material into the well?	h
		1	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)?	b
			Is the well properly vented for equilibration of air pressure?	С
			is the survey point clearly marked on the inner casing?	d
		×	Is the depth of the well consistent with the original well log?	е
,		,	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip	f
		<u> </u>	couplings in construction)	F 0 "
			<u>q: Groundwater Wells Only:</u> Does well recharge adequatel y when purged?	5 <u>Sampling</u> a
)			If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	b
			Does the well require redevelopment (low flow, turbid)?	С
		<u> </u>	n your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	6 Based on
	····	<u> </u>	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory	



Name	Plant Mitcheil			
nit Number	N/A			
ID	08/25/2020	•		
	05/00,000	Yes	No	n/a
1 Location	<u>v/Identification</u>	,		
а	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require protection from traffic?	<u> </u>		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	_		
2 Protectiv				
a	Is the protective casing free from apparent damage and able to be secured?			
b	Is the casing free of degradation or deterioration?			. 1
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?			
3 Surface	nad			
a a	Is the well pad in good condition (not cracked or broken)?			1,000
b	,			<u> </u>
С	Is the well pad sloped away from the protective casing?			
d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal	casing			,
а	Does the cap prevent entry of foreign material into the well?	·		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С				
	Is the well properly vented for equilibration of air pressure?			
d	is the survey point clearly marked on the inner casing?	<u> </u>		
e	Is the depth of the well consistent with the original well log?	/		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	/		
5 Sampline	g: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
С	Does the well require redevelopment (low flow, turbid)?			
6 Based or	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
7 Correction	· ·			
/ Correctly	e actions as needed, by date:			

Name	Plant Mitchell			
it Number	N/A	-		
ID	27-02R	-		
	08/25/2020	Yes	No	n/a
1 Location	/Identification			711-04
а	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?	/		
С	Is the well in a high traffic area and does the well require			
d	protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protectiv	e Casing			
a	Is the protective casing free from apparent damage and able to be secured?			
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			_
е	Is the well locked and is the lock in good condition?			
3 Surface p	nad		h	
a	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			_
e	Is the pad surface clean (not covered with sediment or debris)?			
417 1	,			
4 <u>Internal c</u> a	asing			
	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	_		
C	Is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?			
е	is the depth of the well consistent with the original well log?	_/		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
E Camullion	,			
a <u>Sampling</u>	: <u>Groundwater Wells Only:</u> Does well recharge adequately when purged?			./
b	If dedicated sampling equipment installed, is it in good condition			<u> </u>
	and specified in the approved groundwater plan for the facility?			
С	Does the well require redevelopment (low flow, turbid)?			
6 Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	e actions as needed, by date:		······································	

Number	N/A	-		
D	P7-03R 08/25/2020	-		
		Yes	No	n/a
1 <u>Locatio</u> a	n/Identification	_		
b	Is the well visible and accessible?	<u>~</u>		
C	Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require			
C	protection from traffic?	/		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protect	ive Casing			
а	Is the protective casing free from apparent damage and able to be secured?			
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			~
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?			
3 Surface	nad			
a	Is the well pad in good condition (not cracked or broken)?			/
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and	•		
	stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal	casing			
a	Does the cap prevent entry of foreign material into the well?	/		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as ballers)?	0		
С	Is the well properly vented for equilibration of air pressure?			
d	· · · · · · · · · · · · · · · · · · ·			
e	Is the survey point clearly marked on the inner casing?	<u> </u>		
f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched			
ı	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	/		
5 <u>Samplin</u>	g: Groundwater Wells Only:			
а	Does well recharge adequately when purged?			\leq
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			V
С	Does the well require redevelopment (low flow, turbid)?			V
6 Based o	n your professional judgement, is the well construction / location	-		_
	appropriate to 1) achieve the objectives of the Groundwater	,		
	Monitoring Program and 2) comply with the applicable regulatory requirements?			

Name	Plant Mitchell	_		
nit Number	N/A			
ID	172-1P	_		
	08/24/2020	Yes	No	n/a
1 Location/I	dentification	100	110	11112
а	Is the well visible and accessible?	~		
b	Is the well properly identified with the correct well ID?	~	***************************************	
С	Is the well in a high traffic area and does the well require protection from traffic?	~		
d	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protective				
а	Is the protective casing free from apparent damage and able to be secured?	~		
b	Is the casing free of degradation or deterioration?	V	•	
С	Does the casing have a functioning weep hole?			
đ	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	~ ~		
е	Is the well locked and is the lock in good condition?	~		
3 <u>Surface pa</u>	ad .			
a	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?	<u></u>		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?	_ <u>-</u>		
4 <u>Internal ca</u>				
а	Does the cap prevent entry of foreign material into the well?	/		
b	Is the casing free of kinks or bends, or any obstructions from			
С	foreign objects (such as bailers)?			
d	Is the well properly vented for equilibration of air pressure?		i	
u	Is the survey point clearly marked on the inner casing?			
	Is the depth of the well consistent with the original well log?			✓
	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
5 <u>Sampling:</u>	Groundwater Wells Only:			
а	Does well recharge adequately when purged?			<u>~</u>
	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			1
	Does the well require redevelopment (low flow, turbid)?			
	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	~		· _

√ame	Plant Mitchell			
it Number	N/A			
ID	PZ-ZD	-		
	08/24/2020	Yes	No	n/a
1 <u>Locatio</u> n	<u>/Identification</u>	1 62	iNO	III d
a	Is the well visible and accessible?	/		
b	Is the well properly identified with the correct well ID?	<i></i>		
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u></u>		
2 Protectiv	e Casing			
а	Is the protective casing free from apparent damage and able to be secured?	/		
b	Is the casing free of degradation or deterioration?	$\overline{}$		
С	Does the casing have a functioning weep hole?	$\overline{}$		
d	ů .			
	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<u> </u>		
е	is the well locked and is the lock in good condition?			
3 Surface	<u>oad</u>			
а	Is the well pad in good condition (not cracked or broken)?	/		
b	Is the well pad sloped away from the protective casing?	1		
С	Is the well pad in complete contact with the protective casing?	-		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<u> </u>		
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal o	·			
a		,		
b	Does the cap prevent entry of foreign material into the well?			
IJ	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	Is the well properly vented for equilibration of air pressure?			
d		-		
	Is the survey point clearly marked on the inner casing?			·
e	Is the depth of the well consistent with the original well log?			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	/		
5 Samplina	: Groundwater Wells Only:			
a <u>sampiing</u>	Does well recharge adequately when purged?	•		سحيا
b	If dedicated sampling equipment installed, is it in good condition			
_	and specified in the approved groundwater plan for the facility?			
С	Does the well require redevelopment (low flow, turbid)?			
6 Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
7.0 "	e actions as needed, by date:			

Number	Plant Mitchell N/A	-		
)	P3-2S	-		
	08/24/2020	- -		
1 Location	n/Identification	Yes	No	n/a
a	ls the well visible and accessible?	9		
b	Is the well properly identified with the correct well ID?	V		
С	Is the well in a high traffic area and does the well require protection from traffic?	~		
d	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u> </u>		
2 Protectiv	ve Casing			
a	Is the protective casing free from apparent damage and able to be secured?	_		
b	Is the casing free of degradation or deterioration?	$\overline{}$		
С	Does the casing have a functioning weep hole?		***************************************	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	V		
е	Is the well locked and is the lock in good condition?			
3 Surface	nad			
a	ls the well pad in good condition (not cracked or broken)?	./		
b	Is the well pad sloped away from the protective casing?	 -		
С	Is the well pad in complete contact with the protective casing?	-		
d	Is the well pad in complete contact with the protective dasing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			***************************************
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal	casing			
а				
b	Does the cap prevent entry of foreign material into the well?	<u> </u>		
	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	Is the well properly vented for equilibration of air pressure?	<u> </u>		
d	is the survey point clearly marked on the inner casing?			
е	Is the depth of the well consistent with the original well log?			~
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)			
-	g: Groundwater Wells Only:			٠
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition			
,	and specified in the approved groundwater plan for the facility?			✓
С	Does the well require redevelopment (low flow, turbid)?			
6 Based or	a your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory requirements?	~		
	e actions as needed, by date:			P

Name it Number	Plant Mitchell N/A	-		
ID	P7-3D	-		
•	08/25/2020	-		
1 Location	Identification	Yes	No	n/a
a	Is the well visible and accessible?			
b				
C	Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protective	e Casing			
a	Is the protective casing free from apparent damage and able to be secured?	/		
b	Is the casing free of degradation or deterioration?	$\overline{\mathcal{I}}$		
С	Does the casing have a functioning weep hole?	-		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?	<u> </u>		
_				
3 <u>Surface p</u>		1		
a	Is the well pad in good condition (not cracked or broken)?	<u>√</u>		
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal a				
4 <u>Internal ca</u> a	asing			
	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
	couplings in construction)	<u> </u>	<u>-</u>	
_	Groundwater Wells Only:			,
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition			
-	and specified in the approved groundwater plan for the facility?			
С	Does the well require redevelopment (low flow, turbid)?			
6 Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<u>~</u>		
7 Corrective	actions as needed, by date:	1		
Vese	formen overgrown around well po	ad		

te Name	Plant Mitchell	_		
ermit Number 'ell ID	N/A	-		
eit iD	08/26/2020	-		
		Yes	No	n/a
	<u>/Identification</u>	1		
a	is the well visible and accessible?	/		
b	Is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require protection from traffic?	_		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 <u>Protectiv</u> a	e Casing Is the protective casing free from apparent damage and able to be secured?	/		
b	Is the casing free of degradation or deterioration?		**********	f
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?			
3 Surface p	<u>oad</u>			
а	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	$\overline{\mathcal{J}}$	***************************************	
c d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and	<u></u>		
u	stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	J		
e	Is the pad surface clean (not covered with sediment or debris)?	1		
4 Internal c	easing			
а	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	Is the well properly vented for equilibration of air pressure?	$\overline{\mathcal{L}}$		
d	Is the survey point clearly marked on the inner casing?	J		
е	Is the depth of the well consistent with the original well log?			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
5 O				
5 <u>Sampling</u> a	: Groundwater Wells Only: Does well recharge adequately when purged?			/
b	If dedicated sampling equipment installed, is it in good condition			
С	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?			
6 Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<u> </u>		
7 Corrective	e actions as needed, by date:		_ 	

Name	Plant Mitchell	_		
mit Number	N/A			
ID	Pt-65	-		
	08/26/2020	Yes	No	n/a
1 Location	n/Identification		_	
а	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require protection from traffic?	<u> </u>	*******	······································
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protectiv	ve Casing			
a	Is the protective casing free from apparent damage and able to be secured?	1		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?	./		
d	Is the annular space between casings clear of debris and water,			
Δ	or filled with pea gravel/sand?			
е	is the well locked and is the lock in good condition?			
3 Surface	<u>pad</u>			
а	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	J		
С	Is the well pad in complete contact with the protective casing?	$\overline{}$		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?	$\overline{\mathcal{J}}$		
4 1545	•			
4 <u>Internal (</u> a	casing	/		
	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)?	J		
С	In the well prepared, wented for any illipration of all prepared			
d	Is the well properly vented for equilibration of air pressure?	- 		
	Is the survey point clearly marked on the inner casing?			
е	is the depth of the well consistent with the original well log?			/
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	/		
	couplings in construction)			
5 Sampling	g: Groundwater Wells Only:			_
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition			
U	and specified in the approved groundwater plan for the facility?			J
С	Does the well require redevelopment (low flow, turbid)?			
6 Rosad a	a your professional judgement, is the well construction / leastion			
o baseu OI	n your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	/		
	requirements?			
7 0	e actions as needed, by date:			

Name	Plant Mitchell	-		
mit Number	N/A	_		
IID e	P7-70 08/25/2020	-		
•	00/105/106/20	Yes	No	n/a
1 <u>Location</u>	/Identification			
а	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require			*
d	protection from traffic? Is the drainage around the well acceptable? (no standing water,			
	nor is well located in obvious drainage flow path)	<u> </u>		
2 <u>Protectiv</u>				
a	Is the protective casing free from apparent damage and able to be secured?	1		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water,			
	or filled with pea gravel/sand?	/		
е	Is the well locked and is the lock in good condition?	1		
3 Surface	nad.			
a	Is the well pad in good condition (not cracked or broken)?	./		
b	Is the well pad sloped away from the protective casing?	-/		
С	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	/		
е	Is the pad surface clean (not covered with sediment or debris)?			
4 1-4				
4 <u>Internal c</u> a	asing			
	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	/		
С	Is the well properly vented for equilibration of air pressure?			
d				
	Is the survey point clearly marked on the inner casing?			
e	Is the depth of the well consistent with the original well log?			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)			
5 Sampling	: Groundwater Wells Only:		-	,
a	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			/
С	Does the well require redevelopment (low flow, turbid)?			
	,			
o baseu on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	,		
	requirements?			



l	P7-8D 08/25/2020			
1 Location	n/Identification	Yes	No	n/a
a	Is the well visible and accessible?	/		
b	Is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require	_ <u>-</u>		
d	protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protecti	ve Casing			
a a	Is the protective casing free from apparent damage and able to be secured?	/		
b	Is the casing free of degradation or deterioration?	1		
С	Does the casing have a functioning weep hole?	/		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	/		
е	Is the well locked and is the lock in good condition?	/		
3 Surface	pad			
а	Is the well pad in good condition (not cracked or broken)?	/		
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	/		
е	is the pad surface clean (not covered with sediment or debris)?			
4 Internal	casina			
а	Does the cap prevent entry of foreign material into the well?			
b	-			
C	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
	Is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?			
е	Is the depth of the well consistent with the original well log?	\checkmark		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
5 <u>Sampling</u>	g: <u>Groundwater Wells Only:</u>			
а	Does well recharge adequately when purged?			<u> </u>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			V
С	Does the well require redevelopment (low flow, turbid)?			
6 Based or	n your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory	/		
	requirements?	<u>~</u>		

Name	Plant Mitchell			
nit Number	N/A			
IID	PZ-9D		,	
	08125/2020	Yes	No	n/a
1 Location	n/Identification	169	140	11761
а	Is the well visible and accessible?	/		
b	Is the well properly identified with the correct well ID?	_/		
c	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protecti	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?			
b	Is the casing free of degradation or deterioration?	/		
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?	Ť		
3 <u>Surface</u> a		1		
	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?	-/ -		•
c d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			***
е	Is the pad surface clean (not covered with sediment or debris)?	7		***************************************
	,			
4 <u>Internal</u> a	······································	/		
	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	Is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?	<u></u>		
е	Is the depth of the well consistent with the original well log?			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	<u> </u>		
5 Samplin	g: Groundwater Wells Only:			
а	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition	_ _		
С	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?			
	•			
6 Based o	n your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
•	ve actions as needed, by date:	•••••		

Name	Plant Mitchell	_		
nit Number	N/A	_		
!D	P7-10S 08/25/2020	-		•
	02/05/000	Yes	No	n/a
1 Location	/Identification			
а	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?			,
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protectiv	e Casing			
a	Is the protective casing free from apparent damage and able to be secured?	/		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?	<u> </u>		
	<u>-</u>			
3 <u>Surface r</u>	<u>pad</u>			
а	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?			
c d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
θ	Is the pad surface clean (not covered with sediment or debris)?			
4 <u>Internal c</u>	asing			
а	Does the cap prevent entry of foreign material into the well?	/		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	,			
d	Is the well properly vented for equilibration of air pressure?			
	Is the survey point clearly marked on the inner casing?			
e f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched	<u> </u>		
	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	/		
5 <u>Sam</u> pling	: Groundwater Wells Only:			٠
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition	 .		
С	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?	· · · · · · · · · · · · · · · · · · ·		
	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	e actions as needed, by date:			

Number	N/A	-		
D	Ptris	-		
		Yes	No	n/a
1 Location/	dentification			II/Q
а	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?	<u> </u>		
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u> </u>		
2 Protective	Casing			
а	Is the protective casing free from apparent damage and able to be secured?	~		
b	Is the casing free of degradation or deterioration?		***************************************	
С	Does the casing have a functioning weep hole?	$\overline{}$		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?			
3 Surface p				
а	Is the well pad in good condition (not cracked or broken)?	/		
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?			,
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
е				
	Is the pad surface clean (not covered with sediment or debris)?			*******
4 <u>Internal ca</u>	<u>asing</u>			
a	Does the cap prevent entry of foreign material into the well?	<u> </u>		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	Is the well properly vented for equilibration of air pressure?	1		
d	is the survey point clearly marked on the inner casing?			
е	Is the depth of the well consistent with the original well log?	/		
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	✓		
5 Sampling:	Groundwater Wells Only:			
а	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
	Does the well require redevelopment (low flow, turbid)?			-
6 Recod on	your professional judgement, is the well construction / leasting			
	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	/		
	actions as needed, by date:			
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e Name	Plant Mitchell	_		
rmit Number	N/A	_		
ell ID te	P7-125	_		
ıe	08/25/2020	- Yes	No	n/a
1 Location	n/Identification	103	140	1114
а	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	<u></u>		•
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protectiv	<u>ve Casing</u>			
а	Is the protective casing free from apparent damage and able to be secured?			
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			,
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	is the well locked and is the lock in good condition?			
3 Surface	pad			
а	is the well pad in good condition (not cracked or broken)?	/		
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	/		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	Is the well properly vented for equilibration of air pressure?			
d	is the survey point clearly marked on the inner casing?			
е		<u> </u>	· ——-	
f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
5 <u>Samplin</u> g	g: Groundwater Wells Only:			6/
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition			
U	and specified in the approved groundwater plan for the facility?			\checkmark
С	Does the well require redevelopment (low flow, turbid)?			<u></u>
6 Based or	n your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
7 Correctiv <u>Lall</u> Legi	e actions as needed, by date: Lotal depth & Somewhat Shullon SGFF Gofforn.	^ev	The	n Construe

Name	Plant Mitchell			
nit Number	N/A	_		
l ID e	7 t-14	-		
•	08/25/2020	Yes	No	n/a
1 Location	/Identification		_	
а	is the well visible and accessible?	V		
b	Is the well properly identified with the correct well ID?	/		,
С	Is the well in a high traffic area and does the well require protection from traffic?	<u>~</u>		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u> </u>		
2 Protectiv	e Casing			
а	Is the protective casing free from apparent damage and able to be secured?	~		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?	<u></u>		
d	Is the annular space between casings clear of debris and water,			
е	or filled with pea gravel/sand?	<u> </u>		
-	Is the well locked and is the lock in good condition?			
3 <u>Surface</u>	<u>oad</u>			
a	is the well pad in good condition (not cracked or broken)?	<u></u>		
b	Is the well pad sloped away from the protective casing?	<u>~</u>		
c d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	~		
е	Is the pad surface clean (not covered with sediment or debris)?			
4 <u>Internal c</u>				
a a				
b	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<u> </u>		1000
С	Is the well properly vented for equilibration of air pressure?	<u></u>		
d				
е	Is the survey point clearly marked on the inner casing?			
f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched	<u>×</u>		
	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
5 <u>Sampling</u>	: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
С	Does the well require redevelopment (low flow, turbid)?			
6 Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<u>/</u>		
	e actions as needed, by date:	·		
7 0	A ACHADE OF BOOMEN BY MOTO!			

Name	Plant Mitchell			
nit Number	N/A	- -		
ID	P7-15	- -		
	08/25/2020	Yes	No	n/a
1 Location	/identification	169	NO	11/4
а	is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?	7		
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u> </u>		
2 Protectiv	e Casing			
а	Is the protective casing free from apparent damage and able to be secured?	/		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<u> </u>		
е	Is the well locked and is the lock in good condition?			
3 Surface p	· ·			
a <u>ounace j</u>	ls the well pad in good condition (not cracked or broken)?	/		
b	,			
С	Is the well pad sloped away from the protective casing?			
d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	_ <u>-/</u> _/		
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal c	asing			·········
а	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from			
0	foreign objects (such as bailers)?			
C	Is the well properly vented for equilibration of air pressure?	1		1
d	Is the survey point clearly marked on the inner casing?			
e f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip	 		
	couplings in construction)			
5 <u>Sam</u> pling	: Groundwater Wells Only:			,
а	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			1
С	Does the well require redevelopment (low flow, turbid)?			<u> </u>
6 Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	<u> </u>	_ _	
7 Corrective	actions as needed, by date:			

lame	Plant Mitchell	_		
it Number	N/A	-		
D	V t-16	-		
	08/275/2020	Yes	No	n/a
1 Location	n/Identification			
а	Is the well visible and accessible?	<u></u>		
b	Is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u> </u>	,	
2 Protectiv	ve Casing			
a	Is the protective casing free from apparent damage and able to be secured?	<u> </u>		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?			
0.0-7				
3 <u>Surface</u> a				
b	Is the well pad in good condition (not cracked or broken)?	<u></u>		
	Is the well pad sloped away from the protective casing?			
c d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<u>~</u>		
е	Is the pad surface clean (not covered with sediment or debris)?	<u> </u>		
4 <u>Internal o</u> a	<u>Casing</u>			
	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	/		
С	is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?	<u> </u>	***************************************	
е	•			
f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<u> </u>		<u>~</u>
5 Sampling	g: Groundwater Wells Only:			
а	Does well recharge adequately when purged?			<u>~</u>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
С	Does the well require redevelopment (low flow, turbid)?			~
6 Based or	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	~		
	e actions as needed, by date:			

Signature and Seal of PE/PG responsible for inspection

Site

Name	Plant Mitchell	_		
nit Number LID	N/A	-		
)	08/25/2020	_		
		Yes	No	n/a
1 <u>Location</u> a	/ dentification	_		
	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?		·	
C .	Is the well in a high traffic area and does the well require protection from traffic?			
d	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protectiv	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?	V		
b	Is the casing free of degradation or deterioration?	$\overline{}$		
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	· -			
	Is the well locked and is the lock in good condition?			
3 <u>Surface</u>	<u>pad</u>			
a	Is the well pad in good condition (not cracked or broken)?		t	
b	Is the well pad sloped away from the protective casing?		,	
c d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does	<u>J</u>		
е	not move when stepped on)		<u></u>	
Ü	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal of	casing			
а	Does the cap prevent entry of foreign material into the well?	×		h
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	1		
С	Is the well properly vented for equilibration of air pressure?	$\overline{\mathcal{J}}$		
d	Is the survey point clearly marked on the inner casing?	$\overline{\mathcal{J}}$		
e	Is the depth of the well consistent with the original well log?			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<u>J</u>		
5 Sampling	g: Groundwater Wells Only;			
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition			<u>~</u>
C	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?			\preceq
6 Based or	n your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			

Signature and Seal of PE/PG responsible for inspection

Site

Name	Plant Mitchell			
nit Number	N/A	•		
ID	P2+18	_		
	08/15/2020	Yes	No	n/a
1 Location	/Identification	169	NO	IVa
a	fs the well visible and accessible?			
b				
С	Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require			
Ü	protection from traffic?	ر		
d	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1		
2 Protectiv	re Casing			
a	Is the protective casing free from apparent damage and able to be secured?	/		
b	Is the casing free of degradation or deterioration?	$\overline{\mathcal{I}}$		
С	Does the casing have a functioning weep hole?	$\overline{\mathcal{J}}$, , , , , , ,
d				
	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	is the well locked and is the lock in good condition?	<u> </u>		
3 Surface	pad			
а	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?			
С				
d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does			
е	not move when stepped on)			
J	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal o	easing			
а	Does the cap prevent entry of foreign material into the well?	\checkmark		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	/		
С				
d	Is the well properly vented for equilibration of air pressure?			
_	Is the survey point clearly marked on the inner casing?			
е	Is the depth of the well consistent with the original well log?			~
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	,		
	couplings in construction)			
5 <u>Sampling</u>	: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
С	Does the well require redevelopment (low flow, turbid)?			
	· · · · · · · · · · · · · · · · · · ·			
6 Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory	1		
	requirements?			
	e actions as needed, by date:			

lentification Is the well visible and accessible? Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition? In the well pad in good condition (not cracked or broken)? Is the well pad sloped away from the protective casing?	Yes \(\sqrt{\sq}}}}}}}}}}}} \signtimes\sintitexentine{\sintitexem}\sign{\sintitile{\sqrt{\sintitta}}\sqrt{\sintitta}}}}}}}} \simetimes\sintitexet{\sintitta}}}}}}} \simetimes\sintititexet{\sintitta}\sintititit{\sintitexet{\sintitta}}}}}}}} \simetimes\sintititexet{\sintitit{\sintitta}}}}}}}}} \simetimes\sintitititexet{\sintitititita}}}	No	n/a
lentification Is the well visible and accessible? Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well locked and is the lock in good condition? In the well pad in good condition (not cracked or broken)? Is the well pad sloped away from the protective casing?	Yes	No	n/a
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or filled with pea gravel/sand? s the well locked and is the lock in good condition? d s the well pad in good condition (not cracked or broken)? s the well pad sloped away from the protective casing?			
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s the well pad sloped away from the protective casing?			
	<u> </u>		
s the well pad in complete contact with the protective casing?			
s the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			•
s the pad surface clean (not covered with sediment or debris)?			
sing			
Does the cap prevent entry of foreign material into the well?	/		
oreign objects (such as bailers)?			
s the well properly vented for equilibration of air pressure?	1		
s the survey point clearly marked on the inner casing?			
s the depth of the well consistent with the original well log? s the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip touplings in construction)		<u>-</u>	
Groundwater Wells Only:			
Ooes well recharge adequately when purged?			
			1/
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	stable? (not undermined by erosion, animal burrows, and does not move when stepped on) Is the pad surface clean (not covered with sediment or debris)? Ing Does the cap prevent entry of foreign material into the well? Is the casing free of kinks or bends, or any obstructions from oreign objects (such as bailers)? Is the well properly vented for equilibration of air pressure? Is the survey point clearly marked on the inner casing? Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip ouplings in construction) Froundwater Wells Only: The dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? The dedicated sampling equipment (low flow, turbid)? The professional judgement, is the well construction / location perpopriate to 1) achieve the objectives of the Groundwater controlled to the regulatory comply with the applicable regulatory	sthe well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) sthe pad surface clean (not covered with sediment or debris)? ing Does the cap prevent entry of foreign material into the well? sthe casing free of kinks or bends, or any obstructions from preign objects (such as bailers)? sthe well properly vented for equilibration of air pressure? sthe survey point clearly marked on the inner casing? sthe casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip ouplings in construction) Groundwater Wells Only: Toes well recharge adequately when purged? I dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? Toes the well require redevelopment (low flow, turbid)? The professional judgement, is the well construction / location propopriate to 1) achieve the objectives of the Groundwater lonitoring Program and 2) comply with the applicable regulatory equirements?	s the well pad in complete contact with the protective casing? s the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) s the pad surface clean (not covered with sediment or debris)? ing objects the cap prevent entry of foreign material into the well? s the casing free of kinks or bends, or any obstructions from oreign objects (such as bailers)? s the well properly vented for equilibration of air pressure? s the survey point clearly marked on the inner casing? s the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip ouplings in construction) croundwater Wells Only: loes well recharge adequately when purged? dedicated sampling equipment installed, is it in good condition not specified in the approved groundwater plan for the facility? loes the well require redevelopment (low flow, turbid)? our professional judgement, is the well construction / location proporpiate to 1) achieve the objectives of the Groundwater lonitoring Program and 2) comply with the applicable regulatory equirements?

Name	Plant Mitchell	_		
nit Number	N/A	-		
ID	PZ-20	-		
	08/25/2020	Yes	No	n/a
1 Location	n/Identification	169	110	1114
а	Is the well visible and accessible?	1		
b	is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require protection from traffic?	/	***************************************	
d	is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u></u>		
2 Protectiv	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?	/		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water,			
0	or filled with pea gravel/sand?	<u></u>		
e	Is the well locked and is the lock in good condition?			
3 <u>Surface</u>	<u>pad</u>	,		
а	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?			
c	Is the well pad in complete contact with the protective casing?			
d	is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal of				
а		/		
b	Does the cap prevent entry of foreign material into the well?			
В	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<i>J</i>		
С	Is the well properly vented for equilibration of air pressure?	/		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	/		
5 Sampling	g: Groundwater Wells Only:		-	· · · · · · · · · · · · · · · · · · ·
а	Does well recharge adequately when purged?			<i></i>
b	If dedicated sampling equipment installed, is it in good condition			
•	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?			
С	Does the well require receveropment (row flow, turbid)?			
6 Based or	a your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
7 Comments		-		
/ Correctiv	e actions as needed, by date:			

Name	Plant Mitchell	_		
nit Number	N/A	_		
ID	PZ-21	-		
	08/15/1020	Yes	No	п/а
1 Location	n/Identification	160	140	11/4
a	Is the well visible and accessible?	**		
b	is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	_		
2 Protectiv	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?			<u></u> .
b	Is the casing free of degradation or deterioration?	<i></i>		
С	Does the casing have a functioning weep hole?	7		<u></u> ,
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
e	Is the well locked and is the lock in good condition?			
2 Curfoso	nad			
3 <u>Surface</u> a		/		
b	Is the well pad in good condition (not cracked or broken)?	$-\!$		
	Is the well pad sloped away from the protective casing?	/		
c d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?	\mathcal{T}		
4 Internal	nasing			
a				
h	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		·······-	
С	is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?			
e f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<u>/</u> /		
5 Sampling	g: Groundwater Wells Only:	_		
a	Does well recharge adequately when purged?			_/
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
С	Does the well require redevelopment (low flow, turbid)?			
6 Based or	n your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	e actions as needed, by date:			

Name	Plant Mitchell			
nit Number ID	N/A P-2-22	-		
יוו	08/25/2020	-		
		Yes	No	n/a
	<u>//Identification</u>			
a	is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?	/		
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protectiv	<u>re Casing</u>			
а	Is the protective casing free from apparent damage and able to be secured?	/		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?	$\overline{}$		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
e	is the well locked and is the lock in good condition?)'' 	
2 0	•			h
3 <u>Surface </u> a		/		
b	Is the well pad in good condition (not cracked or broken)?			
	Is the well pad sloped away from the protective casing?			
c d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does	<u> </u>		
е	not move when stepped on) Is the pad surface clean (not covered with sediment or debris)?			
4 <u>Internal c</u>	easing			
а	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	Is the well properly vented for equilibration of air pressure?	<u> </u>		
d	Is the survey point clearly marked on the inner casing?	/		
e		- /		
f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)			
5 Sampling	: Groundwater Wells Only:			i.
а	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition)
С	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?			-
6 Based on	your professional judgement, is the well construction / location		-	············
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	/		
	e actions as needed, by date:			

Site Name	Plant Mitchell	_		
Permit Number	N/A	_		
Well ID Date	PZ-23A 08/25/2020	-		
540	45,0070000	Yes	No	n/a
	/Identification			
a	is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require protection from traffic?	·		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protectiv	re Casing			
a	Is the protective casing free from apparent damage and able to be secured?	_		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water,			
	or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?	<u></u>		
3 Surface	<u>pad</u>			
a	is the well pad in good condition (not cracked or broken)?			Market Control of the
b	Is the well pad sloped away from the protective casing?			
С	Is the weil pad in complete contact with the protective casing?	سسما		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	_		
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal of	easing			
а	Does the cap prevent entry of foreign material into the well?	<u>~</u>		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?			
С	Is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?	<u>×</u>		
е	Is the depth of the well consistent with the original well log?			✓
f	Is the casing stable? (or does the pvc move easily when touched			**************************************
	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
	·			
	g: Groundwater Wells Only:			
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition			
	and specified in the approved groundwater plan for the facility?			
С	Does the well require redevelopment (low flow, turbid)?		·	
6 Based or	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
7 Correctiv	e actions as needed, by date: has been excavated around and eg point added to mill casing.	// a	reg.	(to the east)
Signature and Seal	of PE/PG responsible for inspection			

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

It Location/Identification Is the well visible and accessible? Is the well properly Identified with the correct well ID? Is the well properly Identified with the correct well ID? Is the well a high traffic area and does the well require protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) Protective Casing Is the protective casing free from apparent damage and able to be secured? Is the casing free of degradation or deterioration? Does the casing have a functioning weep hole? Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? Is the well pad in good condition (not cracked or broken)? Is the well pad sloped away from the protective casing? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the protective casing? Is the pad surface clean (not covered with sodiment or debris)? In the well pad support well of the protective casing? Is the pad surface clean (not covered with sodiment or debris)? Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? Is the well properly velted for equilibration of air pressure? Is the deficient of the well consistent with the original well log? Is the well properly clearly marked on the inner casing? Is the deficient of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use	Name	Plant Mitchell	_		
1 Location/Identification a Is the well visible and accessible? b Is the well properly identified with the correct well ID? c Is the well in a high traffic area and does the well require protection from traffic? d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing a Is the protective casing free from apparent damage and able to be secured? b Is the casing free of degradation or deterioration? c Does the casing fave a functioning weep hole? d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? e Is the well pad in good condition (not cracked or broken)? b Is the well pad sloped away from the protective casing? c Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)? c Is the well properly vented for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? o Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only: a Does well require redevelopment (low flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?		N/A	-		
1 Location/Identification a Is the well visible and accessible? b Is the well properly identified with the correct well ID? c Is the well in a high traffic area and does the well require protection from traffic? d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing a Is the protective casing free from apparent damage and able to be secured? b Is the casing free of degradation or deterioration? c Does the casing have a functioning weep hole? d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? e Is the well locked and is the lock in good condition? 3 Surface pad a Is the well pad in good condition (not cracked or broken)? b Is the well pad sin complete contact with the protective casing? c Is the well pad in complete contact with the protective casing? d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the easing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly vented for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of sitip couplings in construction) 5 Sampling: Groundwater Wells Only: a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (low flow, turbid)?		17-C3	-		
1 Location/Identification a Is the well visiblo and accessible? b Is the well properly identified with the correct well ID? c Is the well in a high traffic area and does the well require protection from traffic? d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path) 2 Protective Casing a Is the protective casing free from apparent damage and able to be secured? b Is the casing free of degradation or deterioration? c Does the casing have a functioning weep hole? d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand? e Is the well pad in good condition (not cracked or broken)? b Is the well pad in good condition (not cracked or broken)? b Is the well pad in complete contact with the protective casing? c Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on) e Is the pad surface clean (not covered with sediment or debris)? 4 Internal casing a Does the cap prevent entry of foreign material into the well? b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as ballers)? c Is the well properly vented for equilibration of air pressure? d Is the survey point clearly marked on the inner casing? e Is the depth of the well consistent with the original well log? f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to tack of grout or use of slip couplings in construction) 5 Sampling: Groundwater Wells Only: a Does well recharge adequately when purged? b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility? c Does the well require redevelopment (fow flow, turbid)? 6 Based on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory req	•	90 (08 (200	Yes	No	n/a
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7 Corrective actions as needed, by date:	6 Based on	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory	<u>~</u>		
	7 Corrective	actions as needed, by date:		_	~

Name	Plant Mitchell			
it Number ID	PZ-26	<u>.</u>		
	08/25/2020	Yes	No	n/a
1 Location	<u>/Identification</u>	162	140	11/4
а	Is the well visible and accessible?	/		
b	Is the well properly identified with the correct well ID?	_/		
С	Is the well in a high traffic area and does the well require			
ď	protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protectiv	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?	<u>/</u>		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
ď	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	/	,	
е	Is the well locked and is the lock in good condition?	<u></u>		
3 Surface			P	
a	Is the well pad in good condition (not cracked or broken)?	/		
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?			
ď	is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		MITTER 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
е	Is the pad surface clean (not covered with sediment or debris)?			
4 <u>Internal c</u> a	casing	,		
	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	1		
С	Is the well properly vented for equilibration of air pressure?	/		
d	Is the survey point clearly marked on the inner casing?			
e			,	
f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched			
·	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	\checkmark		
5 Sampling	<u>r: Groundwater Wells Only:</u>			
a	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			/
С	Does the well require redevelopment (low flow, turbid)?			
6 Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory	1		
	requirements?			

Name	Plant Mitchell	_		
mit Number	N/A	-		
il ID e	08/05/2020	•		
o .	08/03/600	Yes	No	n/a
	/Identification			
а	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?			
C	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u> </u>		
2 Protectiv	e Casing			
а	Is the protective casing free from apparent damage and able to be secured?			
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	is the well locked and is the lock in good condition?	$\overline{\mathcal{J}}$		
3 Surface				
3 <u>Surface ;</u> a		1		
b	is the well pad in good condition (not cracked or broken)?			
С	Is the well pad sloped away from the protective casing?			
d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<u> </u>		
е	Is the pad surface clean (not covered with sediment or debris)?			
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4 <u>Internal c</u> a	asing	,		
	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	/		
С	Is the well properly vented for equilibration of air pressure?	/		
d	Is the survey point clearly marked on the inner casing?			
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f	is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched			
,	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	/		
5 Sampling	: Groundwater Wells Only:			_
a <u>oampinig</u>	Does well recharge adequately when purged?			<u>~</u>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			
С	Does the well require redevelopment (low flow, turbid)?			
6 Dasad s-	•			
o based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	/		
7 Compathy	·			
/ Corrective	e actions as needed, by date:			

Name	Plant Mitchell			
it Number	N/A	-		
ID	97-18 08/14/2020	-		
	08/03/20020	Yes	No	n/a
1 Location	n/Identification			
а	Is the well visible and accessible?			
b	is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u>/</u>		
2 <u>Protecti</u> a	ve Casing Is the protective casing free from apparent damage and able to	,		
i.	be secured?			
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	/		
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3 Surface	pad			
a	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?	-		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
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4 Internal				
a				
b	Does the cap prevent entry of foreign material into the well?			
D	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?			
С	Is the well properly vented for equilibration of air pressure?	<i>.</i>		
ď	Is the survey point clearly marked on the inner casing?			
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f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<u> </u>		
5 Sampling	g: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		************************	<u> </u>
С	Does the well require redevelopment (low flow, turbid)?			
6 Based or	n your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			

Name	Plant Mitchell	-		
it Number ID	N/A N/A	_	•	
	08/25/2020	- 		
1 <u>Locatior</u>	n/Identification	Yes	No	n/a
а	Is the well visible and accessible?	/		
b	Is the well properly identified with the correct well ID?	$\overline{}$		
С	Is the well in a high traffic area and does the well require			
d	protection from traffic? Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		•	1 241 772 472 474
2 Protectiv	∉e Casing			
a	Is the protective casing free from apparent damage and able to be secured?	1		
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?	7		·
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
e	Is the well locked and is the lock in good condition?			
3 Surface				
a <u>Suriace</u>	ls the well pad in good condition (not cracked or broken)?	/		
b	Is the well pad sloped away from the protective casing?	-		
С	•			
d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<u> </u>		
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal of	,			
a a		/		
b	Does the cap prevent entry of foreign material into the well?			
	is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		· · · · · · · · · · · · · · · · · · ·	
С	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
е				
f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
5 <u>Sampling</u>	g: Groundwater Wells Only:			/
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition			
b	and specified in the approved groundwater plan for the facility?			/
С	Does the well require redevelopment (low flow, turbid)?			
6 Based or	a your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory	/		
	requirements?			

Vame	Plant Mitchell			
it Number ID	N/A	-		
10	08/24/2020	-		
		Yes	No	n/a
1 <u>Location</u> a	/Identification			
b	Is the well visible and accessible?	<u> </u>		
	Is the well properly identified with the correct well ID?			
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<u></u>		
2 Protectiv	ve Casing			
a	Is the protective casing free from apparent damage and able to be secured?			
b	Is the casing free of degradation or deterioration?			
С	Does the casing have a functioning weep hole?		-	,
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	_		
е	Is the well locked and is the lock in good condition?			
3 <u>Surface</u>	<u>pad</u>			
а	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?	/		
c d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and		•	
e	stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<u></u>		
O	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal of	casing			
а	Does the cap prevent entry of foreign material into the well?	/		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<u> </u>		
С	Is the well properly vented for equilibration of air pressure?	/		
d	Is the survey point clearly marked on the inner casing?			b
е	Is the depth of the well consistent with the original well log?			
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			
5 Sampline	g: Groundwater Wells Only:			
a <u>sampling</u>	Does well recharge adequately when purged?			~
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			<u> </u>
С	Does the well require redevelopment (low flow, turbid)?			
6 Based or	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monltoring Program and 2) comply with the applicable regulatory requirements?	/		
	e actions as needed, by date:			

Name	Plant Mitchell	_		
nit Number	N/A	_		
ID ;	P7-32 08/25/2020	_		
•	30/25/25/25	Yes	No	n/a
1 Location	/Identification			
a	Is the well visible and accessible?			
b	is the well properly identified with the correct well ID?	~		
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protectiv	e Casing			
a	Is the protective casing free from apparent damage and able to be secured?	*		
b	Is the casing free of degradation or deterioration?	~		
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?			
				
3 <u>Surface r</u>	<u>oad</u>			
a	Is the well pad in good condition (not cracked or broken)?	~		
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?	~		
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does			
е	not move when stepped on)			
J	Is the pad surface clean (not covered with sediment or debris)?	<u>v</u>		
4 Internal c	<u>asing</u>			
а	Does the cap prevent entry of foreign material into the well?	1/		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	~		
С				
d	Is the well properly vented for equilibration of air pressure?	<u></u>		
	Is the survey point clearly marked on the inner casing?			
e f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)			<u> </u>
<u></u>	,	<u></u>		
5 <u>Sampling</u> a	: Groundwater Wells Only: Does well recharge adequately when purged?			/
b	If dedicated sampling equipment installed, is it in good condition			<u> </u>
	and specified in the approved groundwater plan for the facility?		<u></u>	
С	Does the well require redevelopment (low flow, turbid)?			
6 Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			
	e actions as needed, by date:			_

√ame	Plant Mitchell	_		
it Number	N/A	•		
ID	08/25/2020	•		
	00/18/2000	Yes	No	n/a
1 Location	//dentification			
а	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?	_		
С	Is the well in a high traffic area and does the well require protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 <u>Protectiv</u> a	<u>re Casing</u> Is the protective casing free from apparent damage and able to be secured?	/		
b				
С	Is the casing free of degradation or deterioration?			
d	Does the casing have a functioning weep hole?			
	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?	<u> </u>		
3 Surface	<u>pad</u>			
а	is the well pad in good condition (not cracked or broken)?	/		
b	Is the well pad sloped away from the protective casing?			
С	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	V		
е	Is the pad surface clean (not covered with sediment or debris)?	<u> </u>		
4 Internal o				
a				
b	Does the cap prevent entry of foreign material into the well?			
D	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<i>~</i>		
С	Is the well properly vented for equilibration of air pressure?	/		
d	Is the survey point clearly marked on the inner casing?			
е	is the depth of the well consistent with the original well log?			/
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)			
-	: Groundwater Wells Only:			_
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition	<u> </u>		<u></u>
С	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?			<u> </u>
	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?			

Date: 2020-10-06 11:57:47

Project Information:

Operator Name Ever Guillen Company Name WOOD Project Name Plant Mitchell CCR Site Name PZ-1D

0° 0' 0" Latitude 0° 0' 0" Longitude Sonde SN 613229

Turbidity Make/Model **HACH 2100Q**

Well Information:

Well ID PZ-1D Well diameter 2 in Well Total Depth 61.21 ft Screen Length 10 ft Depth to Water 50.72 ft Pump Information:

Pump Model/Type QED HDPE **Tubing Type** Tubing Diameter 0.17 in Tubing Length 61.21 ft

Pump placement from TOC

56.21 ft

Pumping Information:

Final Pumping Rate 200 mL/min Total System Volume 0.7532061 L Calculated Sample Rate 300 sec Stabilization Drawdown 0 in Total Volume Pumped 12 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:35:04	2400.02	21.19	7.26	247.79	10.50	52.72	2.04	5.74
Last 5	11:40:04	2700.02	21.37	7.30	249.44	6.54	52.72	2.16	4.25
Last 5	11:45:04	3000.01	21.55	7.32	250.34	3.31	52.72	2.23	3.19
Last 5	11:50:04	3300.01	21.79	7.34	250.87	1.43	52.72	2.28	2.26
Last 5	11:55:04	3600.01	22.04	7.35	251.48	0.61	52.72	2.33	1.18
Variance 0			0.18	0.02	0.90			0.07	-1.06
Variance 1			0.24	0.02	0.53			0.05	-0.94
Variance 2			0.24	0.02	0.61			0.06	-1.07

Notes

Sampled at 1200

Grab Samples

Date: 2020-10-06 12:19:22

QED dedicated bladder

Project Information:

Pump Information: Operator Name Pump Model/Type Terrell Parker

Company Name Tubing Type Wood E&IS Project Name Tubing Diameter .170 in Plant Mitchell CCR Tubing Length Site Name PZ-2D 80.2 ft

0° 0' 0" Latitude 0° 0' 0" Longitude Sonde SN 541714

Turbidity Make/Model Hach 2100Q Pump placement from TOC 75.2 ft

Pumping Information: Well Information:

Final Pumping Rate 200 mL/min Well ID PZ-2D Well diameter 2 in Total System Volume 0.8379666 L Calculated Sample Rate Well Total Depth 80.42 ft 300 sec Stabilization Drawdown Screen Length 10 ft 6 in Depth to Water 33.85 ft **Total Volume Pumped** 13.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	11:56:07	1800.01	19.86	8.79	123.20	1.81	34.35	1.56	54.39
Last 5	12:01:07	2100.01	19.88	8.77	126.59	1.67	34.35	1.69	58.77
Last 5	12:06:07	2400.01	19.82	8.76	128.92	1.44	34.35	1.73	61.05
Last 5	12:11:07	2700.01	19.82	8.74	131.65	1.21	34.35	1.80	63.90
Last 5	12:16:07	3000.00	19.78	8.72	133.27	1.40	34.35	1.83	66.45
Variance 0			-0.05	-0.01	2.32			0.04	2.28
Variance 1			0.00	-0.02	2.73			0.07	2.86
Variance 2			-0.04	-0.02	1.62			0.03	2.55

Notes

Start purging at 11:12 Sample time:12:20

Grab Samples PZ-2D

Groundwater

Date: 2020-10-07 12:29:07

Project Information:

Operator Name Terrell Parker

Company Name Wood E&IS
Project Name Plant Mitchell CCR

Site Name PZ-7D
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714

Turbidity Make/Model Hach 2100Q

Well Information:

Well IDPZ-7DWell diameter2 inWell Total Depth60.37 ftScreen Length10 ftDepth to Water31.72 ft

Pump Information:

Pump Model/Type QED dedicated bladder

Tubing Type PE
Tubing Diameter .170 in
Tubing Length 60 ft

Pump placement from TOC 55.37 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.7478054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.32 in
Total Volume Pumped 9.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	12:05:44	900.03	21.85	7.00	553.93	1.81	32.83	0.76	107.35
Last 5	12:10:44	1200.04	21.75	6.99	555.93	1.52	32.83	0.59	110.07
Last 5	12:15:44	1500.04	21.93	6.98	556.95	0.94	32.83	0.47	111.79
Last 5	12:20:44	1800.03	21.92	6.98	554.40	1.07	32.83	0.38	113.58
Last 5	12:25:44	2100.04	22.07	6.98	554.30	1.00	32.83	0.32	114.85
Variance 0			0.18	-0.00	1.02			-0.12	1.72
Variance 1			-0.01	-0.00	-2.55			-0.10	1.79
Variance 2			0.15	-0.00	-0.09			-0.06	1.27

Notes

Start purging at 11:50. Collect GW sample at 12:30

Grab Samples PZ-7D

Groundwater

Date: 2020-10-06 11:44:20

Project Information:

Pump Information:

Pump Information:

Operator Name **Andreas Shoredits** Pump Model/Type QED Company Name Wood E&IS **Tubing Type** HDPE Project Name Tubing Diameter Plant Mitchell 0.17 in Tubing Length Site Name PZ-14 58 ft

Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533

Turbidity Make/Model Hach 2100Q Pump placement from TOC 48.20 ft

Well Information: Pumping Information:

Final Pumping Rate Well ID PZ-14 195 mL/min Well diameter 2.00 in Total System Volume 0.7388785 L Well Total Depth Calculated Sample Rate 53.20 ft 300 sec Screen Length Stabilization Drawdown 0.4 in 10 ft Depth to Water 42.27 ft **Total Volume Pumped** 4.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond µS	S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization	1		+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 100
Last 5	11:03:44	300.08	23.22	7.06	506.44	1.62	42.54	5.92	65.81
Last 5	11:08:44	600.02	22.23	7.03	515.69	2.25	42.57	5.52	39.52
Last 5	11:13:44	900.02	22.05	7.02	517.29	1.25	42.57	5.37	35.52
Last 5	11:18:44	1200.00	22.00	7.02	519.03	1.01	42.57	5.29	33.90
Last 5	11:23:44	1500.00	22.00	7.01	518.52	0.90	42.57	5.20	33.14
Variance 0			-0.18	-0.01	1.60			-0.15	-4.00
Variance 1			-0.04	-0.01	1.74			-0.09	-1.62
Variance 2			-0.00	-0.00	-0.51			-0.08	-0.76

Notes

Start purging well @ 11:00, stop @ 11:24; Purge rate maintained @ 195 ml/min; Collect sample @ 11:30; pH during sample collection is 7.01; Weather is overcast 72 degrees F

Grab Samples

PZ-14

Date: 2020-10-07 14:42:21

QED dedicated bladder

Project Information:

Pump Information: **Operator Name** Terrell Parker Pump Model/Type

Company Name Wood E&IS **Tubing Type** Project Name Tubing Diameter .170 in Plant Mitchell CCR Tubing Length Site Name PZ-15 83 ft

0° 0' 0" Latitude Longitude 0° 0' 0" Sonde SN 541714

Turbidity Make/Model Hach 2100Q Pump placement from TOC 78.2 ft

Pumping Information: Well Information:

Final Pumping Rate 250 mL/min Well ID PZ-15 Well diameter 2 in Total System Volume 0.8504641 L Calculated Sample Rate Well Total Depth 83.22 ft 300 sec Stabilization Drawdown Screen Length 10 ft 2.28 in Depth to Water 30.69 ft **Total Volume Pumped** 11.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:20:15	1200.04	23.68	7.11	535.86	1.34	30.88	0.25	91.92
Last 5	14:25:15	1500.04	23.75	7.11	533.03	1.54	30.88	0.21	96.66
Last 5	14:30:15	1800.04	23.54	7.11	533.00	1.70	30.88	0.19	100.12
Last 5	14:35:15	2100.04	23.64	7.11	531.91	1.55	30.88	0.18	103.13
Last 5	14:40:15	2400.03	23.62	7.11	531.30	1.51	30.88	0.17	103.62
Variance 0			-0.21	-0.00	-0.03			-0.02	3.46
Variance 1			0.10	-0.00	-1.09			-0.00	3.00
Variance 2			-0.01	-0.00	-0.61			-0.01	0.50

Notes

Started purging at 13:51 Collect GW sample at 14:45.

Grab Samples PZ-15

Groundwater

Date: 2020-10-06 17:21:43

Project Information:		Pump Information:	
Operator Name	Andreas Shoredits	Pump Model/Type	QED
Company Name	Wood E&IS	Tubing Type	HDPE
Project Name	Plant Mitchell	Tubing Diameter	0.17 in
Site Name	PZ-16	Tubing Length	58 ft

Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533

Turbidity Make/Model Hach 2100Q Pump placement from TOC 48.2 ft

Well Information: Pumping Information:

Final Pumping Rate 240 mL/min Well ID PZ-16 Well diameter 2.00 in Total System Volume 0.7388785 L Calculated Sample Rate Well Total Depth 53.19 ft 300 sec Screen Length 10 ft Stabilization Drawdown 0.4 in Depth to Water **Total Volume Pumped** 5.8 L 33.40 ft

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond µS	S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization	n		+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 100
Last 5	15:44:58	300.09	22.85	7.27	464.12	7.13	33.48	2.01	25.50
Last 5	15:49:58	600.03	22.45	7.25	464.32	3.94	33.49	1.65	23.85
Last 5	15:54:58	900.03	22.34	7.24	465.07	1.67	33.50	1.41	23.33
Last 5	15:59:58	1200.03	22.29	7.25	465.04	1.04	33.51	1.31	22.82
Last 5	16:04:58	1500.02	22.22	7.24	466.81	0.83	33.51	1.29	22.72
Variance 0			-0.10	-0.01	0.75			-0.23	-0.53
Variance 1			-0.06	0.00	-0.03			-0.10	-0.51
Variance 2			-0.07	-0.01	1.77			-0.02	-0.10

Notes

Start purging well @ 15:40, stop @ 16:05; Purge rate maintained between 200 and 240 ml/min; Collect sample @ 16:15; pH during sample collection is 7.24; Weather is overcast gusty 80 degrees F

Grab Samples

PZ-16

Date: 2020-10-07 11:10:14

Project Information:

Operator Name

Andreas Shoredits

Pump Information:

Pump Model/Type

Operator NameAndreas ShoreditsPump Model/TypeQEDCompany NameWood E&ISTubing TypeHDPEProject NamePlant MitchellTubing Diameter0.17 inSite NamePZ-17Tubing Length67 ft

Latitude 31° 26' 40.9" Longitude -84° -7' -50.9"

Sonde SN 642533

Turbidity Make/Model Hach 2100Q Pump placement from TOC 57.70 ft

Well Information: Pumping Information:

Final Pumping Rate Well ID PZ-17 290 mL/min Total System Volume 0.7790493 L Well diameter 2.00 in Calculated Sample Rate Well Total Depth 62.70 ft 300 sec Screen Length Stabilization Drawdown 0.1 in 10 ft Depth to Water 32.09 ft **Total Volume Pumped** 8.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization	า		+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 100
Last 5	10:12:50	600.02	22.09	7.04	636.21	9.60	32.21	0.51	-29.26
Last 5	10:17:50	900.01	22.27	7.04	636.39	5.37	32.22	0.19	-20.99
Last 5	10:22:50	1200.00	22.28	7.04	636.87	3.16	32.22	0.13	-16.53
Last 5	10:27:50	1500.00	22.23	7.04	638.94	2.20	32.22	0.12	-13.98
Last 5	10:32:50	1799.99	22.09	7.04	641.16	2.08	32.22	0.12	-11.82
Variance 0			0.02	-0.00	0.48			-0.06	4.46
Variance 1			-0.06	0.00	2.07			-0.01	2.55
Variance 2			-0.13	0.00	2.21			0.00	2.16

Notes

Start purging well @ 10:03, stop @ 10:32; Initial urge rate of 250 ml/min increased to 285-290 ml/min @ 10:08; Water has sulfurous odor; Collect sample @ 10:35; pH during sample collection is 7.04; Weather is early fog clearing 72 degrees F

Grab Samples

PZ-17

Date: 2020-10-07 12:41:33

Project Information:

Operator Name

Andreas Shoredits

Pump Information:

Pump Model/Type

Operator NameAndreas ShoreditsPump Model/TypeQEDCompany NameWood E&ISTubing TypeHDPEProject NamePlant MitchellTubing Diameter0.17 inSite NamePZ-18Tubing Length73 ft

Latitude 31° 26' 40.9" Longitude -84° -7' -50.9"

Sonde SN 642533

Turbidity Make/Model Hach 2100Q Pump placement from TOC 58.18 ft

Well Information: Pumping Information:

Final Pumping Rate Well ID PZ-18 220 mL/min Total System Volume Well diameter 2.00 in 0.8058299 L Well Total Depth Calculated Sample Rate 63.18 ft 300 sec Screen Length Stabilization Drawdown 10 ft 0.1 in Depth to Water 29.30 ft **Total Volume Pumped** 5.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond µS	cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization	า		+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 0.2	+/- 100
Last 5	11:42:03	300.04	24.43	6.99	693.27	2.80	29.37	1.47	-87.16
Last 5	11:47:03	600.03	23.44	6.92	698.82	2.78	29.38	0.31	-2.29
Last 5	11:52:03	900.02	23.26	6.92	699.59	2.01	29.39	0.36	7.27
Last 5	11:57:03	1200.02	23.29	6.92	700.02	1.44	29.39	0.31	10.72
Last 5	12:02:03	1500.02	23.26	6.91	699.65	1.33	29.39	0.22	12.46
Variance 0			-0.18	0.00	0.77			0.05	9.56
Variance 1			0.03	-0.00	0.43			-0.06	3.45
Variance 2			-0.03	-0.00	-0.37			-0.08	1.74

Notes

Start purging well @ 11:38, stop @ 12:02; Initial purge rate of 200 ml/min increased to 220-225 ml/min @ 11:43; Water has sulfurous odor; Collect sample @ 12:05; pH during sample collection is 6.91; Weather is sunny 76 degrees F

Grab Samples

PZ-18

Date: 2020-10-07 15:56:31

Project Information:

Operator Name Terrell Parker
Company Name Wood E&IS

Project Name Plant Mitchell CCR

Site Name PZ-19
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 541714

Turbidity Make/Model Hach 2100Q

Well Information:

Well IDPZ-19Well diameter2 inWell Total Depth62.63 ftScreen Length10 ftDepth to Water31.51 ft

Pump Information:

Pump Model/Type QED dedicated bladder

57.63 ft

Tubing TypePETubing Diameter.170 inTubing Length62.7 ft

Pump placement from TOC

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.7598566 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 8.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	15:33:18	600.04	23.09	6.80	760.40	0.75	31.61	0.24	127.08
Last 5	15:38:18	900.04	22.94	6.80	761.73	0.61	31.61	0.17	129.33
Last 5	15:43:18	1200.03	22.83	6.79	765.51	0.35	31.61	0.16	130.38
Last 5	15:48:18	1500.04	22.77	6.78	772.12	0.27	31.61	0.16	131.11
Last 5	15:53:18	1800.04	22.82	6.78	773.82	0.24	31.61	0.15	131.61
Variance 0			-0.11	-0.01	3.78			-0.01	1.05
Variance 1			-0.06	-0.01	6.62			-0.00	0.73
Variance 2			0.05	-0.01	1.69			-0.01	0.50

Notes

Start purging at 15:23 Groundwater sample at 15:58.

Grab Samples PZ-19

Groundwater

FD-01

Groundwater duplicate

Date: 2020-10-06 15:02:20

Project Information: Operator Name Company Name Project Name Site Name Latitude Longitude Sonde SN	Andreas Shoredits Wood E&IS Plant Mitchell PZ-23A 0° 0' 0" 0° 0' 0" 642533	Pump Information: Pump Model/Type Tubing Type Tubing Diameter Tubing Length	QED HDPE 0.17 in 77 ft
Turbidity Make/Model	Hach 2100Q	Pump placement from TOC	62.3 ft
Well Information: Well ID Well diameter Well Total Depth Screen Length Depth to Water	PZ-23A 2.00 in 67.3 ft 10 ft 48.45 ft	Pumping Information: Final Pumping Rate Total System Volume Calculated Sample Rate Stabilization Drawdown Total Volume Pumped	185 mL/min 0.8236836 L 300 sec 0.7 in 13.4 L

Low-Flow Sar	mpling Stabiliz	ation Summary							
	Time	Elapsed	Temp C	рН	SpCond µS/cmTurb NTU		DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 10	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 100
Last 5	14:03:49	3299.99	22.38	6.78	785.83	5.00	48.93	2.07	25.04
Last 5	14:08:49	3599.98	22.27	6.78	783.89	4.61	48.93	2.10	25.19
Last 5	14:13:49	3899.98	22.29	6.78	784.11	4.52	48.93	2.09	24.93
Last 5	14:18:49	4199.97	22.31	6.78	783.59	5.00	48.92	2.17	25.03
Last 5	14:23:49	4499.97	22.27	6.78	782.26	3.99	48.90	2.14	25.18
Variance 0			0.02	-0.00	0.22			-0.01	-0.26
Variance 1			0.02	0.01	-0.52			80.0	0.09
Variance 2			-0.04	0.00	-1.33			-0.04	0.15

Notes

Start purging well @ 13:09, stop @ 14:23; Purge rate maintained @ 185 ml/min; Turbidity was slow to come down; Collect sample @ 14:25; pH during sampling is 6.78; Weather is overcast and gusty 74 degrees F

Grab Samples PZ-23A

Date: 2020-10-07 09:54:23

Project Information:

Operator Name Terrell Parker

Company Name Wood E&IS
Project Name Plant Mitchell CCR
Site Name PZ-25

Latitude 0° 0' 0"

Longitude 0° 0' 0"

Sonde SN 541714

Turbidity Make/Model Hach 2100Q

Well Information:

Well ID PZ-25
Well diameter 2 in
Well Total Depth 63.19 ft
Screen Length 10 ft
Depth to Water 30.11 ft

Pump Information:

Pump Model/Type QED dedicated bladder

58.2 ft

Tubing Type PE
Tubing Diameter .170 in
Tubing Length 63 ft

Pump placement from TOC

Pumping Information:

Final Pumping Rate 225 mL/min
Total System Volume 0.7611957 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.72 in
Total Volume Pumped 9.9 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed Temp C pH SpCond μS/cmTurb NTL		S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV		
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	09:28:27	900.02	21.71	6.97	456.01	0.26	30.17	0.75	58.05
Last 5	09:33:27	1200.02	21.71	6.96	457.03	0.31	30.17	0.57	57.75
Last 5	09:38:27	1500.04	21.71	6.96	456.14	0.23	30.17	0.47	57.70
Last 5	09:43:27	1800.04	21.77	6.96	456.67	0.17	30.17	0.40	58.19
Last 5	09:48:27	2100.03	21.84	6.95	456.87	0.18	30.17	0.35	59.35
Variance 0			0.00	0.00	-0.89			-0.10	-0.06
Variance 1			0.06	0.01	0.53			-0.07	0.49
Variance 2			0.07	-0.01	0.20			-0.05	1.15

Notes

Started purging at 09:09. Groundwater sample at 09:50 + FD-02

Grab Samples
PZ-25
Groundwater
FD-02
Groundwater dup

Product Name: Low-Flow System

Date: 2020-10-06 14:50:50

Project Information:

Operator Name Ever Guillen
Company Name WOOD
Project Name Plant Mitchell CCR
Site Name PZ-31

Latitude 0° 0' 0"

Longitude 0° 0' 0"

Sonde SN 613229

Turbidity Make/Model HACH 2100Q

Well Information:

Well ID PZ-31
Well diameter 2 in
Well Total Depth 61.60 ft
Screen Length 10 ft
Depth to Water 37.33 ft

Pump Information:

Pump Model/Type QED
Tubing Type HDPE
Tubing Diameter 0.17 in
Tubing Length 61.60 ft

Pump placement from TOC

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.7549468 L
Calculated Sample Rate 300 sec
Stabilization Drawdown
Total Volume Pumped 10 L

56.60 ft

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond μS	cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:29:06	1800.02	21.66	7.02	437.88	7.81	37.92	4.70	17.29
Last 5	14:34:06	2100.02	21.67	7.02	437.77	6.13	37.92	4.70	18.28
Last 5	14:39:09	2403.02	21.64	7.01	438.05	5.32	37.92	4.72	19.43
Last 5	14:44:09	2703.01	21.61	7.01	437.69	3.87	37.92	4.71	20.61
Last 5	14:49:09	3003.01	21.64	7.01	437.51	2.39	37.92	4.70	21.56
Variance 0			-0.03	-0.00	0.28			0.02	1.15
Variance 1			-0.03	-0.00	-0.36			-0.01	1.19
Variance 2			0.03	0.00	-0.18			-0.01	0.95

Notes

Sampled at 1455

Grab Samples

Product Name: Low-Flow System

Date: 2020-10-06 14:56:14

Project Information:

Pump Information: **Operator Name** Terrell Parker Pump Model/Type

QED dedicated bladder Company Name Wood E&IS **Tubing Type** Project Name Tubing Diameter .170 in Plant Mitchell CCR Tubing Length 65.3 ft Site Name PZ-32

0° 0' 0" Latitude Longitude 0° 0' 0" Sonde SN 541714

Turbidity Make/Model Hach 2100Q Pump placement from TOC 60.3 ft

Pumping Information: Well Information:

Final Pumping Rate 250 mL/min Well ID PZ-32 Well diameter 2 in Total System Volume 0.7714615 L Calculated Sample Rate Well Total Depth 65.30 ft 300 sec Stabilization Drawdown Screen Length 10 ft 0 in Depth to Water 14.5 L 36.28 ft **Total Volume Pumped**

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond µS	S/cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	14:32:49	1500.02	19.48	7.35	317.80	0.20	36.28	0.37	106.64
Last 5	14:37:49	1800.01	19.46	7.32	317.87	0.18	36.28	0.45	108.19
Last 5	14:42:49	2100.02	19.43	7.30	317.91	0.15	36.28	0.51	109.25
Last 5	14:47:49	2400.01	19.46	7.28	318.37	0.12	36.28	0.56	110.28
Last 5	14:52:50	2700.59	19.48	7.27	318.64	0.10	36.28	0.61	110.73
Variance 0			-0.03	-0.02	0.04			0.06	1.07
Variance 1			0.03	-0.02	0.45			0.05	1.02
Variance 2			0.02	-0.01	0.27			0.05	0.45

Notes

Begin purging 14:00 Groundwater sample at 15:00

Grab Samples PZ-32

Groundwater

Product Name: Low-Flow System

Date: 2020-10-07 14:18:24

Project Information:

Operator Name Ever Guillen WOOD
Company Name Plant Mitchell CCR
Project Name PZ-33
Site Name 0° 0' 0"
Latitude 0° 0' 0"
Longitude 642533
Sonde SN HACH 2100Q
Turbidity Make/Model

Pump Information:

Pump Model/Type QED
Tubing Type HDPE
Tubing Diameter 0.17 in
Tubing Length 73.60 ft

Pump placement from TOC 68.60 ft

Well Information: PZ-33

Well ID 2 in
Well diameter 73.60 ft
Well Total Depth 10 ft
Screen Length 48.22 ft
Depth to Water

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.8085079 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in

22 ft Stabilization Drawdown 0 in Total Volume Pumped 13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	рН	SpCond µS	cm Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 5		+/- 10%	+/- 10
Last 5	13:56:40	2700.01	24.02	7.04	573.39	2.54	48.44	0.23	18.77
Last 5	14:01:40	3000.01	23.88	7.04	578.05	1.50	48.44	0.22	19.27
Last 5	14:06:40	3300.01	23.72	7.04	577.87	0.83	48.44	0.22	19.36
Last 5	14:11:40	3600.01	23.69	7.04	577.13	0.34	48.44	0.22	19.49
Last 5	14:16:40	3900.00	23.91	7.04	576.98	0.36	48.44	0.22	19.64
Variance 0			-0.16	0.00	-0.18			0.00	0.09
Variance 1			-0.03	0.00	-0.74			-0.01	0.13
Variance 2			0.21	-0.00	-0.15			0.00	0.15

Notes

Sampled at 1425

Grab Samples

Date: 10/06/2020
Time: 07:45
Prepared By: A.S.HONSDITS
Checked By: NA

Wood. Project No. 6122160170

Pine Sonde ID: 642533

Pine Handset ID: —

Battery Voltage %: 100

Hach 2100@ S/N /6110C053543

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes No Date: Time:	
Current Air Temperature °C (meter reading):		20.40
Current Barometric Pressure (from Weather		
Channel or NOAA.gov, which is corrected to		30.091
sea level):		= 764 2
Elevation Corrected Barometric Pressure to	Ex.: 30.02 in. Hg x $25.4 = mm$ Hg; subtract 2.54 mm Hg for every	-5.18
enter into YSI DO calibration:	100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	= 769-11
Theoretical DO (mg/L) from DO table based		0
on current temperature and elevation corrected		1.01
pressure: DO concentration before Calibration (mg/L):	D 12 11 11 11 11 11 11 11 11 11 11 11 11	0-0-
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8.95
% Recovery (actual/theory x 100)	D	8-36
DO Charge (DO ch):	Range is 90 to 110% Recovery	99.4
DO Gain (should be between -0.7 and 1.5):	Acceptable Range is 25 to 75	
	Exit Calibration menu and go to Advanced/Cal Constants	
Note:	oid carry-over from pH standards (i.e. pH buffers are conductive)]	
Calibration standard used (mS/cm)		1.1.7
Temperature (°C)	Cof# 19410200 Enp. NA	1.413
Reading before Calibration (mS/cm)		22.28
Reading AFTER Calibration (mS/cm)		1.410
Conductivity Cell Constant (unitless):		1-413
Note: Be sure conductivity cell is submerged and free of bubl	blac (positive ton goods on table)	_
pH	bles (gently tap sonde on table)	-
pH 7.0 value before calibration:	1 1 H 1071 -057 E 05/21	
pH 7.0 value after calibration:	Lot #19340057 Bop. 08/21	7
pH 7.0 mV (range is -50 to +50 mV):		7.00
pH 10 value before calibration:	7.74.787.787.787.787.787.787.787.787.787	-5.4
pH 10 value after calibration:	Let# 19320102 Fxp 08/21	10.4
pH 10 mV (range is -130 to -230 mV):		10.00
pH 4.0 value before calibration:	7 7 4 2200 27 5 6 7	-180.2
pH 4.0 value after calibration:	Lof # 20010025 Bop. 08/21	4.00
pH 4.0 mV (range is 130 to 230 mV):		169-6
Note: Span between ph 4 and 7, and 7 and 10 should be betw	165 to 180 mV	161-6
OXIDATION/REDUCTION POTENTIAL (
Calibration Temperature (°C):		21.82
Theoretical Calibration standard (mV)	$6.231+0.0013(25-T) \times 1000 = mV$ (T is Temperature °C)	2(.02
Reading before calibration (mV):	0.231 0.0015(23-1) x 1000 mr (1 is Temperature C)	2711
Reading after calibration (mV):		221.5
Note: mV theory will change with temperature	so coloulate based on your guerant towns	728
TURBIDITY Note: Lens wiper should be parked 180		
as a mercial and a second second		20.4
	Pap. NA Before Cal: 26.1 After Cal: Pape NA Before Cal: 16.7 After Cal:	
100 NTU Turbidity Standard Lot # NA	Pap NA Before Cal: 605 After Cal: Fig. NA Before Cal: 816 After Cal:	105
16 NTU Turbidity Check STD Lof# Ac	226 Exp. 11/2 Before Cal: 10 Z After Cal:	829
ol NTU Turbidity Check STD Lot 4 A.0		10.3
CALIBRATION SUCCESSFUL?	After Cal:	0.21
ALLIDIGITOR DUCCEOSFUL.		TRS

Date: 10/67/2020 Time: 07:55

Prepared By: A. SHOREDETS
Checked By: MA

Wood. Project No. 6122160170 Pine Sonde ID: 642533
Pine Handset ID: NA
Battery Voltage %: Loo

Hach 2100@ S/N/6/10C053643

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)	BRATION	PRIOR	TO SA	MPLINC	i .		VALUE
Was DO membrane changed?	Was	NT-	~	Deter	Times		VALUE
Current Air Temperature °C (meter reading):	Yes	No_	<u> </u>	Date:	Time:		20 / 6
Current Barometric Pressure (from Weather							22-68
Channel or NOAA.gov, which is corrected to							30.06 M
sea level):							=763.5
Elevation Corrected Barometric Pressure to	Ex : 30.0	2 in Ho	x 25.4 =	mm Hø: s	ubtract 2.54	mm Hg for every	763.52
enter into YSI DO calibration:	and the second second second				54 = 14.4 mm		763.52
Theoretical DO (mg/L) from DO table based	11 = =	-	7000				3.75.1
on current temperature and elevation corrected							8-61
pressure:	1						
DO concentration before Calibration (mg/L):	Dependi	ng on m	eter vers	ion, this	may not be	available.	8.67
DO concentration after Calibration (mg/L):							8.61
% Recovery (actual/theory x 100)	Range is	90 to 11	10% Rec	overy			100
DO Charge (DO ch):	Acceptal	ole Rang	e is 25 t	o 75			-
DO Gain (should be between -0.7 and 1.5):	Exit Cal	ibration	menu ai	d go to	Advanced/C	al Constants	
Note:							
CONDUCTIVITY [Note: Calibrate before pH to av				(i.e, pH bu	ffers are conduc	tive)]	
Calibration standard used (mS/cm)	Lof#	1941	0200	1	Erp. N.	4	1.413
Temperature (°C)					1		23.51
Reading before Calibration (mS/cm)							1.401
Reading AFTER Calibration (mS/cm)							1.413
Conductivity Cell Constant (unitless):							_
Note: Be sure conductivity cell is submerged and free of bub	bles (gently t	ap sonde o	n table)				
pH							
pH 7.0 value before calibration:	20+#	1934	.005	7	Fag. 08	121	~
pH 7.0 value after calibration:							7.00
pH 7.0 mV (range is -50 to +50 mV):							-5.2
pH 10 value before calibration:	Left	1933	2010	2	5xg.08	1/21	_
pH 10 value after calibration:							10.00
pH 10 mV (range is -130 to -230 mV):							-180.0
pH 4.0 value before calibration:	LO+ #	2001	002	2	Fog. 08	5/21	4.02
pH 4.0 value after calibration:					-		4.00
pH 4.0 mV (range is 130 to 230 mV):		00 . 11					169.8
Note: Span between ph 4 and 7, and 7 and 10 should be betw OXIDATION/REDUCTION POTENTIAL (80 mV					
Calibration Temperature (°C):		10.1 1	MILI	-	15.2.2	×101	23.52
Theoretical Calibration standard (mV)	Le+# 0.231+0.				(Tis Ter	nperature °C)	75.50
Reading before calibration (mV):	0.231 0.	0012(23	1/110	JO III V	(1 13 101	iperature c)	7750
Reading after calibration (mV):							225.8
	on color	lata baca	d on ve	ir allesa	t tamp		668.0
Note: mV theory will change with temperature TURBIDITY Note: Lens wiper should be parked 18				n curren	c temp.		
the same of the sa				Refore C	al: 19.9	After Cal:	20.0
100 NTU Turbidity Standard Lot # NI	L E	ip Ni	4		al: 98.3	After Cal:	98-6
800 NTU Turbidity Standard Let # NA	1 5	O. NI	Í		al: 788	After Cal:	807
10 NTU Turbidity Check STD Lot # A0	276 8	x= 11/	21		al: 9.97	After Cal:	10.4
NTU Turbidity Standard Loff NI 100 NTU Turbidity Standard Loff NI 800 NTU Turbidity Standard Loff NI 10 NTU Turbidity Check STD Loff Ao 601 NTU Turbidity Check STD Loff Ao	99 F	- 07/	122	Before C		After Cal:	THE RESERVE TO THE PERSON NAMED IN
CALIBRATION SUCCESSFUL?	11 +2	7.011	-	ocioi e C	ш.	And Cal.	0.44
ALIDICATION SUCCESSFUL.							4/28

Calibration Report: Conductivity Calibration Report 2020-10-06 08:50:01

Probe: 642533

Cell Constant: 1.0086

Stability: Full



Calibration Report: Conductivity Calibration Report 2020-10-07 08:50:04

Probe: 642533

Cell Constant: 1.0202

Stability: Full



Date: 18-6	-20
Time: 830	
Prepared By:	EVER GUILLEN
Checked By:_	

Wood. Project No. 6122160170

Pine Sonde ID: 6	13229
Pine Handset ID:	
Battery Voltage %:_	100

DISSOLVED OXYGEN (DO)						VALUE
Was DO membrane changed?	Yes	No V	Date:	Time:		
Current Air Temperature °C (meter reading):						22,55
Current Barometric Pressure (from Weather						
Channel or NOAA.gov, which is corrected to						1
sea level):						
Elevation Corrected Barometric Pressure to	Ex.: 30.0	2 in. Hg x 25.4	= mm Hg; su	btract 2.54 m	m Hg for every	
enter into YSI DO calibration:	100 ft. ab	ove sea level:	565/100 x 2.5	4 = 14.4 mm 1	Hg	760,1
Theoretical DO (mg/L) from DO table based						
on current temperature and elevation corrected						
pressure:						
DO concentration before Calibration (mg/L):	Dependi	ng on meter v	ersion, this	may not be av	vailable.	8.67
DO concentration after Calibration (mg/L):						7,85
% Recovery (actual/theory x 100)		90 to 110% I				-
DO Charge (DO ch):	Acceptab	ole Range is 2	5 to 75			-
DO Gain (should be between -0.7 and 1.5):	Exit Cali	bration menu	and go to A	dvanced/Cal	Constants	,
Note:						
CONDUCTIVITY [Note: Calibrate before pH to av	oid carry-ov	er from pH standa	rds (i.e. pH buff	fers are conductiv	/e)]	
Calibration standard used (mS/cm)						1,413
Temperature (°C)						23.2
Reading before Calibration (mS/cm)						1.511
Reading AFTER Calibration (mS/cm)						1.413
Conductivity Cell Constant (unitless):						-
Note: Be sure conductivity cell is submerged and free of bubl	bles (gently to	ap sonde on table				
H						
H 7.0 value before calibration:						6,96
H 7.0 value after calibration:						7,0
H 7.0 mV (range is -50 to +50 mV):	Jorgan La	171717	17/41/17	1.574		2,3
pH 10 value before calibration:						9.89
pH 10 value after calibration:						10,00
pH 10 mV (range is -130 to -230 mV):	T	ATAL A.	. 091/a x	V. William	10000	-171.6
H 4.0 value before calibration:						4103
H 4.0 value after calibration:						4,00
H 4.0 mV (range is 130 to 230 mV):						# 176,8
Note: Span between ph 4 and 7, and 7 and 10 should be between DXIDATION/REDUCTION POTENTIAL (80 mV				
Calibration Temperature (°C):						23,2
heoretical Calibration standard (mV)	0.231+0.	0013(25-T) x	1000 = mV	(T is Temp	perature °C)	228.0
Reading before calibration (mV):						224,5
Reading after calibration (mV):						2310
Note: mV theory will change with temperature	so calcul	ate based on	vour current	temp.		
URBIDITY Note: Lens wiper should be parked 180						
NTU Turbidity Standard			Before Ca	1: 9.93	After Cal:	9,97
NTU Turbidity Standard			Before Ca		After Cal:	19.8
100 NTU Turbidity Standard			Before Ca		After Cal:	99,0
NTU Turbidity Check STD			Before Ca		After Cal:	788
Oct NTU Turbidity Check STD			Before Ca	100	After Cal:	0118
O T INTO TUIDIDITY CHECK STID						

Date: 10-7-20	Wood.	Dina Sanda ID: 613 279
Time: 930	Project No. 6122160170	Pine Sonde ID: 613 229 Pine Handset ID:
Prepared By: EVER GUILLEN	110ject No. 0122100170	Battery Voltage %:
Charled Du		V 4
	NOTE: SMART TROLL DID NOT	WORK-
DISSOLVED OXYGEN (DO)	BRATION PRIOR TO SAMPLING	USED UNIT CALIBRATED BY A. SHORED VALUE
Was DO membrane changed?	Yes No Date:	Time:
Current Air Temperature °C (meter reading):	100 Date.	Tille
Current Barometric Pressure (from Weather		
Channel or NOAA.gov, which is corrected to sea level):		
Elevation Corrected Barometric Pressure to	Ex.: 30.02 in. Hg x 25.4 = mm Hg; su	ibtract 2.54 mm Hg for every
enter into YSI DO calibration:	100 ft. above sea level: 565/100 x 2.5	
Theoretical DO (mg/L) from DO table based		49.00
on current temperature and elevation corrected		
pressure:		
DO concentration before Calibration (mg/L):	Depending on meter version, this i	may not be available.
DO concentration after Calibration (mg/L):		
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to A	dvanced/Cal Constants
Note:	5	
CONDUCTIVITY [Note: Calibrate before pH to av	oid carry-over from pH standards (i.e. pH buff	fers are conductive)]
Calibration standard used (mS/cm)		
Temperature (°C)		
Reading before Calibration (mS/cm)		
Reading AFTER Calibration (mS/cm)		
Conductivity Cell Constant (unitless):		
Note: Be sure conductivity cell is submerged and free of bub	bles (gently tap sonde on table)	
рН		
pH 7.0 value before calibration:		
pH 7.0 value after calibration:		
pH 7.0 mV (range is -50 to +50 mV):	TO STOLE A STATE OF A STATE OF	CATHER BURY FREEZE
pH 10 value before calibration:		
pH 10 value after calibration:		
pH 10 mV (range is -130 to -230 mV):		
pH 4.0 value before calibration:		
pH 4.0 value after calibration:		
pH 4.0 mV (range is 130 to 230 mV):		
Note: Span between ph 4 and 7, and 7 and 10 should be betw	een 165 to 180 mV	
OXIDATION/REDUCTION POTENTIAL (
Calibration Temperature (°C):		
Theoretical Calibration standard (mV)	$0.231+0.0013(25-T) \times 1000 = mV$	(T is Temperature °C)
Reading before calibration (mV):		
Reading after calibration (mV):	*	
Note: mV theory will change with temperature	so calculate based on your overent	temp

Before Cal: 1014

Before Cal: 19,0

Before Cal: 98.3

Before Cal: 777

Before Cal: 0,73

After Cal:

After Cal:

After Cal:

After Cal:

After Cal:

10.1

19.6

282

0,15

TURBIDITY Note: Lens wiper should be parked 180 degrees from the optics.

NTU Turbidity Standard

Zo NTU Turbidity Standard

100 NTU Turbidity Standard

800 NTU Turbidity Check STD

O, 1 NTU Turbidity Check STD

CALIBRATION SUCCESSFUL?

Calibration Report: ORP Calibration Report 2020-10-06 09:27:14

Probe: 642533

User Defined: 228.0 mV

Offset: 0.1 mV Stability: Full

Calibration Report: ORP Calibration Report 2020-10-07 09:25:32

Probe: 642533

User Defined: 228.0 mV

Offset: 2.5 mV Stability: Full

Calibration Report: pH Calibration Report 2020-10-06 09:19:34

Probe: 642533 4.00 to 7.00 pH

Slope: -58.94 mV/pH Offset: 6.91 pH

7.00 to 10.00 pH Slope: -58.95 mV/pH

Offset: 6.91 pH Stability: Full

Calibration Report: pH Calibration Report 2020-10-07 09:17:03

Probe: 642533 4.00 to 7.00 pH

Slope: -58.58 mV/pH Offset: 6.91 pH 7.00 to 10.00 pH

Slope: -58.56 mV/pH Offset: 6.91 pH

Stability: Full

Calibration Report: RDO Calibration Report 2020-10-06 08:18:10

Probe: 642533 Slope: 0.9217 Offset: -0.0000 Stability: Full

Calibration Report: RDO Calibration Report 2020-10-07 08:27:51

Probe: 642533 Slope: 0.9216 Offset: -0.0000 Stability: Full

Date: 10-6-2	0
Time: 08:03	
Prepared By:	PARKET
Checked By:	

Project No. 6122160170

Project No. 6122160170

Pine Sonde ID: 54/7/4

Pine Handset ID:

Battery Voltage %:

For Janual In Sampling event

DISSOLVED OXYGEN (DO)		VALUE
Was DO membrane changed?	Yes No Date: Time: 4/0	OPTIER
Current Air Temperature °C (meter reading):		20.
Current Barometric Pressure (from Weather		
Channel or NOAA.gov, which is corrected to	92.4%	759.
sea level):	12.7 70	mm
Elevation Corrected Barometric Pressure to	Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every	,
enter into YSI DO calibration:	100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	NI
Theoretical DO (mg/L) from DO table based		
on current temperature and elevation corrected		9.0
pressure:		00000
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8,9
DO concentration after Calibration (mg/L):		9.0
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	99.8
DO Charge (DO ch):	Acceptable Range is 25 to 75	
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	10
Note:		
	oid carry-over from pH standards (i.e. pH buffers are conductive)]	
Calibration standard used (mS/cm)	LOT# 1941/200 Exp. UNK.	1.41
Temperature (°C)	Cally Chiquado equi acinc.	22.
Reading before Calibration (mS/cm)		Nia
Reading AFTER Calibration (mS/cm)		1.41
Conductivity Cell Constant (unitless):		NIA
Note: Be sure conductivity cell is submerged and free of bubl	bles (gently tap sonde on table)	13/15
pH	The Service of March	
pH 7.0 value before calibration:	10T# 19340057 Exp. 08/2021	
pH 7.0 value after calibration:	(8) # 175 TUUS + Exp. V9/2021	_
pH 7.0 mV (range is -50 to +50 mV):	2>000	-8.3
pH 10 value before calibration:	ECT# 19320102 GA. 08/2021	31.0
pH 10 value after calibration:	CO # 17520102 64.08/2021	400
pH 10 mV (range is -130 to -230 mV):		1010
pH 4.0 value before calibration:		1/8/
pH 4.0 value after calibration:	LOTA 20010025 Exp. 08/2021	4.03
	22.4°C 1	1
pH 4.0 mV (range is 130 to 230 mV):		167.
Note: Span between ph 4 and 7, and 7 and 10 should be betw OXIDATION/REDUCTION POTENTIAL (0		
		In /
Calibration Temperature (°C):	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	20-6
Theoretical Calibration standard (mV)	The Cartesian Court of the Cour	228
Reading before calibration (mV):	21.296	227,
Reading after calibration (mV):		228
Note: mV theory will change with temperature		
TURBIDITY Note: Lens wiper should be parked 186	Before Cal: After Cal:	20,0
20NTU Turbidity Standard Cor # 1902		100
2CNTU Turbidity Standard LOT# 1902	Before Cal: After Cal:	102
2cNTU Turbidity Standard してサログラ OC NTU Turbidity Standard してサログラ NTU Turbidity Standard とアルAワン	Before Cal: After Cal:	815
2cNTU Turbidity Standard してサロクラ OC NTU Turbidity Standard してサログニ NTU Turbidity Standard とアルAマン NTU Turbidity Check STD しょテルA	Before Cal: After Cal: Before Cal: After Cal: Before Cal: After Cal: Before Cal: After Cal:	815
2cNTU Turbidity Standard してサログラ OC NTU Turbidity Standard してサログラ NTU Turbidity Standard とアルAワン	Before Cal: After Cal: Before Cal: After Cal: Before Cal: After Cal: Before Cal: After Cal:	_

Date: 10-7-20	
Time:06:50:50	
Prepared By: T. PARRER	
Checked By:	

Wood. Project No. 6122160170

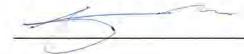
Pine Sonde ID: 541714	
Pine Handset ID:	
Battery Voltage %:	

CALIBRATION PRIOR TO SAMPLING

DISSOLVED OXYGEN (DO)	SKATION FRIOR TO SAMPLING	VALUE
Was DO membrane changed?	Yes No Date: Time: N/A w	fred De
Current Air Temperature °C (meter reading):	1	21.48
Current Barometric Pressure (from Weather		-
Channel or NOAA.gov, which is corrected to		757.0
sea level):		131.0
Elevation Corrected Barometric Pressure to enter into YSI DO calibration:	Ex.: 30.02 in. Hg x 25.4 = mm Hg; subtract 2.54 mm Hg for every 100 ft. above sea level: 565/100 x 2.54 = 14.4 mm Hg	NIA
Theoretical DO (mg/L) from DO table based on current temperature and elevation corrected pressure:		8,80
DO concentration before Calibration (mg/L):	Depending on meter version, this may not be available.	8,842
DO concentration after Calibration (mg/L):		2.79
% Recovery (actual/theory x 100)	Range is 90 to 110% Recovery	99.9%
DO Charge (DO ch):	Acceptable Range is 25 to 75	NIA
DO Gain (should be between -0.7 and 1.5):	Exit Calibration menu and go to Advanced/Cal Constants	12/14
Note:	Lan cultoution mend and go to retranect our constants	W
The first of the second of the	roid carry-over from pH standards (i.e. pH buffers are conductive)]	
Calibration standard used (mS/cm)		1 1/17
Temperature (°C)	1.413 LOT#19410200 HO Exp.	1.413
Reading before Calibration (mS/cm)	Date in	2230
Reading AFTER Calibration (mS/cm)	BUTTLE,	1.40
Conductivity Cell Constant (unitless):		1.4/
		MIH
Note: Be sure conductivity cell is submerged and free of bubl pH	bies (gently tap sonde on table)	
	odt ,	11 - 11
	1. LOT # 19740057 Exp. 18/2021	NOT AW
	22.9%	NOT AND
oH 7.0 mV (range is -50 to +50 mV):	,,	-7.6
pH 10 value before calibration:	LOT#19720102 Exp. 08/2021	
pH 10 value after calibration: (3)	22.9°C	10,00 4
pH 10 mV (range is -130 to -230 mV):		-180.9
oH 4.0 value before calibration:	LOT \$20010025 Exp. 08/2021	4.02
oH 4.0 value after calibration:	22.8%	
oH 4.0 mV (range is 130 to 230 mV):	9 2000 400	167.7
Note: Span between ph 4 and 7, and 7 and 10 should be betw OXIDATION/REDUCTION POTENTIAL (0		
Calibration Temperature (°C):	LOT# 19460/67 Exp. 08/2021	22.7
Theoretical Calibration standard (mV)	0.231+0.0013(25-T) x 1000 = mV (T is Temperature °C)	228
Reading before calibration (mV):		
		228.3 W
Reading after calibration (mV):		M
	s, so calculate based on your current temp.	74.3
Note: mV theory will change with temperature		
Note: mV theory will change with temperature TURBIDITY Note: Lens wiper should be parked 180	0 degrees from the optics.	19.7
Reading after calibration (mV): Note: mV theory will change with temperature TURBIDITY Note: Lens wiper should be parked 180 NTU Turbidity Standard Lor # AUL 1	0 degrees from the optics. Z1 Exp. 40. 202/ Before Cal; After Cal:	19.7
Note: mV theory will change with temperature TURBIDITY Note: Lens wiper should be parked 180 NTU Turbidity Standard Lot # A921	8 Lo Nov. 2021 Before Cal: After Cal: After Cal:	19.7 98.8
Note: mV theory will change with temperature TURBIDITY Note: Lens wiper should be parked 18020 NTU Turbidity Standard Lot # A4210 NTU Turbidity Standard Lot # A4210 NTU Turbidity Standard Lot # A4210	8 Esp. Nov. 2021 Before Cal: After Cal: After Cal: 4 Esp. 00f, 2021 Before Cal: After Cal: After Cal:	19.7 98.8 798
Note: mV theory will change with temperature TURBIDITY Note: Lens wiper should be parked 180 NTU Turbidity Standard Lot # AUZI 100 NTU Turbidity Standard NTU NTU Turbidity Standard NTU NTU Turbidity NTU	8 How 2021 Before Cal: After Cal: 4 How 2021 Before Cal: After Cal: 4 How 2021 Before Cal: After Cal: 4 How 2021 Before Cal: After Cal: 20 How 2021 Before Cal: After Cal: 20 How 2021 Before Cal: After Cal:	19.7 98.8

Froish 06:34 OSP All PASS.

e Name	Plant Mitchell	_		
rmit Number	201.0	_		
ell ID	PZ-01D	-		
te	10/05/2020	Jane .		7.0
1 Locatio	n/Identification	yes	no	n/a
	Is the well visible and accessible?			
a				
b	Is the well properly identified with the correct well ID?			-
С	Is the well in a high traffic area and does the well require protection from traffic?	1		
- 4	Is the drainage around the well acceptable? (no standing water,			-
d	nor is well located in obvious drainage flow path)	V		
2 Protocti				
	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?	V		
Ь	Is the casing free of degradation or deterioration?	1		-
C	Does the casing have a functioning weep hole?	-	_	-
d	Is the annular space between casings clear of debris and water,			-
7	or filled with pea gravel/sand?	V		
е	Is the well locked and is the lock in good condition?	V		
3 Surface	pad			
а	Is the well pad in good condition (not cracked or broken)?	-		
b	Is the well pad sloped away from the protective casing?	-		-
c	Is the well pad in complete contact with the protective casing?	-	_	_
d	Is the well pad in complete contact with the ground surface and			_
9	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	V		
е	Is the pad surface clean (not covered with sediment or debris)?	-7	_	=
			_	
4 Internal				
а	Does the cap prevent entry of foreign material into the well?	V		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	V		
d	Is the survey point clearly marked on the inner casing?	-		
е	Is the depth of the well consistent with the original well log?	_&_		V
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)			
5 Samplin	g: Groundwater Wells Only:	_		
а	Does well recharge adequately when purged?			V
b	If dedicated sampling equipment installed, is it in good condition			2
	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?			1
6 Based o	n your professional judgement, is the well construction / location	_		
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	V		
			_	_
7 Correctiv	ve actions as needed, by date:			-
			4	ZZIMIO



Site Name Permit Number	Plant Mitchell	-		
Vell ID	PZ-02D			
Date	3/23/2020 10/65/2020			
41	- Advantor and have	yes	no	n/a
1000	on/Identification Is the well visible and accessible?	1		
а	Is the well properly identified with the correct well ID?	-	_	_
Ь	Is the well in a high traffic area and does the well require	_	_	_
C	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,			_
4	nor is well located in obvious drainage flow path)	1_		
2 Protec	tive Casing			
a	Is the protective casing free from apparent damage and able to be			
-	secured?	1		
b	Is the casing free of degradation or deterioration?	*		
C	Does the casing have a functioning weep hole?	7		
d	Is the annular space between casings clear of debris and water,			-
	or filled with pea gravel/sand?	/		
е	Is the well locked and is the lock in good condition?	J		
3 Surfac	ne pad			
a	Is the well pad in good condition (not cracked or broken)?	1		
Ь	Is the well pad sloped away from the protective casing?	1		
C	Is the well pad in complete contact with the protective casing?	1	_	
d	Is the well pad in complete contact with the ground surface and		_	
	stable? (not undermined by erosion, animal burrows, and does no	t.		
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	1	=	
4 Interna	al casing			
a	Does the cap prevent entry of foreign material into the well?	7.7		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	7		
d	Is the survey point clearly marked on the inner casing?	1		
e	Is the depth of the well consistent with the original well log?	1	_	
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
5 Sampl	ing: Groundwater Wells Only:	_		
а	Does well recharge adequately when purged?			V
b	If dedicated sampling equipment installed, is it in good condition			
2	and specified in the approved groundwater plan for the facility?			V
c	Does the well require redevelopment (low flow, turbid)?	\equiv	\equiv	V
6 Based	on your professional judgement, is the well construction / location	-		
- 20000	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
33,0		=	_	
7 Correc	tive actions as needed, by date:			



Site Name	Plant Mitchell	27		
Permit Number				
Well ID	PZ-02S			
Date	10/05/2020	200		
11000	lion (Ideal) flootion	yes	no	n/a
	tion/Identification Is the well visible and accessible?			
а		_	-	
b	Is the well properly identified with the correct well ID?	_	$\overline{}$	
С	Is the well in a high traffic area and does the well require protection from traffic?	2		
d	Is the drainage around the well acceptable? (no standing water,			1
	nor is well located in obvious drainage flow path)	1		
2 Prote	ctive Casing			
a	Is the protective casing free from apparent damage and able to be	_		
4	secured?	1		
b	Is the casing free of degradation or deterioration?	7	-	_
c	Does the casing have a functioning weep hole?	-	_	
d	Is the annular space between casings clear of debris and water,			_
~	or filled with pea gravel/sand?	1		
e	Is the well locked and is the lock in good condition?	1		
2 Cumba	12414			1
3 <u>Surfa</u>	Is the well pad in good condition (not cracked or broken)?			
a b	Is the well pad sloped away from the protective casing?	-	_	-
		- 1		-
C	Is the well pad in complete contact with the protective casing?	~	_	
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no move when stepped on)			
	Is the pad surface clean (not covered with sediment or debris)?	-		
е	is the pad surface clear (not covered with sediment or depris)?			_
4 Intern	al casing			
а	Does the cap prevent entry of foreign material into the well?	/		
b	Is the casing free of kinks or bends, or any obstructions from	1		
	foreign objects (such as bailers)?			
C	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?			/
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	- X		
	couplings in construction)			
5 Samp	ling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			1
b	If dedicated sampling equipment installed, is it in good condition	_	_	_
	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?			=/
6 Bases	on your professional judgement, is the well construction / location			
o Dasec	appropriate to 1) achieve the objectives of the Groundwater	_		
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
	regarioritatio:		_	
7 Correc	ctive actions as needed, by date:			

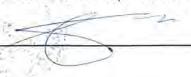


Site Name	Plant Mitchell			
Permit Number				
Well ID	PZ-03D			
Date	10/05/2020			5.62
d Legation	- Udentification	yes	no	n/a
	n/ldentification Is the well visible and accessible?	1		
а	Is the well properly identified with the correct well ID?			
b	Is the well in a high traffic area and does the well require			
C	그리아 아니는 이렇게 되었다면 그 이 가게 가득하다면 되었다. 그리고 있는 그 이 이 이 사람들은 그리고 이 이 가는 사람들은 이 이 가지를 보고 있다.	.)		
200	protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	V		
2 Protecti	ive Casing			
	Is the protective casing free from apparent damage and able to be	_		
а	secured?	1		
4	Is the casing free of degradation or deterioration?			
b	Does the casing have a functioning weep hole?			
C	Is the annular space between casings clear of debris and water,			
d	or filled with pea gravel/sand?	1		
4.2	Is the well locked and is the lock in good condition?	<u>~</u>		
е	is the well locked and is the lock in good condition:	V		-
3 Surface	<u>pad</u>			
а	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	_/_		
С	Is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not	2		
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	1		
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	V		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	1		A
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?	1		
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
E Carrelle	Carradurates Wells Only	_		
	ng: Groundwater Wells Only: Does well recharge adequately when purged?			1
a	If dedicated sampling equipment installed, is it in good condition			
Ь	and specified in the approved groundwater plan for the facility?			2
2.	Does the well require redevelopment (low flow, turbid)?			
С	Does the well require redevelopment (low now, turble):	_	_	~
6 Based	on your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	3		
	requirements?	1		
7 Correct	ive actions as needed, by date:			
Correct	ive actions as needed, by date.			STEFAN C.
and the state of the	W.		A.	Die Care
-			BAL	1111





lame	Plant Mitchell	_	
t Number	D7.04D	-5	
D	PZ-04D	21	
	10/05/2020	yes r	no n/a
1 Location	n/Identification	yes i	11/4
a	Is the well visible and accessible?	1	
b	Is the well properly identified with the correct well ID?	7 -	
C	Is the well in a high traffic area and does the well require protection from traffic?	7	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	2	
2 0-46	O-ele-		
	ve Casing		
а	Is the protective casing free from apparent damage and able to be secured?	1	
b	Is the casing free of degradation or deterioration?		
C	Does the casing have a functioning weep hole?		
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	1	
e	Is the well locked and is the lock in good condition?	V	
3 Surface	pad		
a	Is the well pad in good condition (not cracked or broken)?		
b	Is the well pad sloped away from the protective casing?		
C	Is the well pad in complete contact with the protective casing?		
d	Is the well pad in complete contact with the ground surface and		
· ·	stable? (not undermined by erosion, animal burrows, and does no move when stepped on)	· ,	
е	Is the pad surface clean (not covered with sediment or debris)?	7-	_
	The state of the s		
4 Internal			
а	Does the cap prevent entry of foreign material into the well?		
b	Is the casing free of kinks or bends, or any obstructions from	1	
	foreign objects (such as bailers)?		
C	Is the well properly vented for equilibration of air pressure?		
d	Is the survey point clearly marked on the inner casing?		
е	Is the depth of the well consistent with the original well log?	1	
f	Is the casing stable? (or does the pvc move easily when touched		
	or can it be taken apart by hand due to lack of grout or use of slip	1	
	couplings in construction)		
5 Complia	g: Groundwater Wells Only:		
	Does well recharge adequately when purged?		.20
a	If dedicated sampling equipment installed, is it in good condition		— <u> </u>
Ь	and specified in the approved groundwater plan for the facility?		1
0	Does the well require redevelopment (low flow, turbid)?		7
С	boes the well require redevelopment (low now, turbid):		_ <u>~</u>
6 Based o	on your professional judgement, is the well construction / location		
	appropriate to 1) achieve the objectives of the Groundwater		
	Monitoring Program and 2) comply with the applicable regulatory		
	requirements?	1	
3.5			
7 0	ve actions as needed, by date:		~**





Site Name	Plant Mitchell	200		
Permit Number	A. I			
Well ID	PZ-06S			
Date	10/05/2020			
1 Locatio	n/Identification	yes	no	n/a
a	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	1		
C	Is the well in a high traffic area and does the well require			
	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1	\equiv	
0.0				
	ive Casing			
а	Is the protective casing free from apparent damage and able to be secured?	1		
b	Is the casing free of degradation or deterioration?	1		
C	Does the casing have a functioning weep hole?	1		
d	Is the annular space between casings clear of debris and water,	,		
	or filled with pea gravel/sand?	1	_	
е	Is the well locked and is the lock in good condition?	1	_	_
3 Surface	pad			
a	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	1		
C	Is the well pad in complete contact with the protective casing?	1		V
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	V		=
4 Internal	casing			
a	Does the cap prevent entry of foreign material into the well?	7		
b	Is the casing free of kinks or bends, or any obstructions from			
D	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	1	_	_
d	Is the survey point clearly marked on the inner casing?	1	_	
e	Is the depth of the well consistent with the original well log?			1
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	V.		
5 Samplin	ng: Groundwater Wells Only:			- Air
а	Does well recharge adequately when purged?			W.
b	If dedicated sampling equipment installed, is it in good condition			-7
	and specified in the approved groundwater plan for the facility?			0
С	Does the well require redevelopment (low flow, turbid)?		_	V
6 Based o	on your professional judgement, is the well construction / location			
1.000	appropriate to 1) achieve the objectives of the Groundwater	_		
	Monitoring Program and 2) comply with the applicable regulatory	4		
	requirements?	1		
20 - Car of - A				
7 Correcti	ive actions as needed, by date:			-min



Site Name	Plant Mitchell			
Permit Number				
Well ID	PZ-07D	3		
Date	10/05/2020		-	474
1 Location	on/Identification	yes	no	n/a
а	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	1		
C	Is the well in a high traffic area and does the well require protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,		_	
	nor is well located in obvious drainage flow path)	1		
2 Protec	tive Casing			
а	Is the protective casing free from apparent damage and able to be			
	secured?	2		
b	Is the casing free of degradation or deterioration?	V		
C	Does the casing have a functioning weep hole?	1		
d	Is the annular space between casings clear of debris and water,	-		
	or filled with pea gravel/sand?	2-		
е	Is the well locked and is the lock in good condition?	1		
3 Surfac	e pad			
а	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	V		
C	Is the well pad in complete contact with the protective casing?	-V		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	t		
	move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?		_	
4 Interna	al casing			
а	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from	7		
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	V		
е	Is the depth of the well consistent with the original well log?	X		
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	/		
	couplings in construction)	-		-
5 Sampli	ng: Groundwater Wells Only:	_		
а	Does well recharge adequately when purged?			La Company
b	If dedicated sampling equipment installed, is it in good condition			20
glar of the said	and specified in the approved groundwater plan for the facility?			~
¢	Does the well require redevelopment (low flow, turbid)?			
6 Based	on your professional judgement, is the well construction / location			
- 2	appropriate to 1) achieve the objectives of the Groundwater			
Torsh Corn	Monitoring Program and 2) comply with the applicable regulatory	12		
	requirements?			
7 Correct	tive actions as needed, by date:			- 2 mm
r Correct	avions as needed, by date.	_	6	STEFAN STEFAN
-			8	D. C.



Site Name	Plant Mitchell	2,		
Permit Number Well ID	PZ-08D	9		
Date	10/05/2020	-		
8.2555.00		yes	no	n/a
V Committee	n/Identification	1		
а	Is the well visible and accessible?	- V-		
b	Is the well properly identified with the correct well ID?	_1_		_
С	Is the well in a high traffic area and does the well require protection from traffic?	-1/-		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	J		
2 Protectiv	ve Casing			
a	Is the protective casing free from apparent damage and able to be secured?	1		
b	Is the casing free of degradation or deterioration?	-	_	_
c	Does the casing have a functioning weep hole?	-	_	-
d	Is the annular space between casings clear of debris and water,			_
o o	or filled with pea gravel/sand?	1		
е	Is the well locked and is the lock in good condition?	V		\equiv
3 Surface	nad			
a	Is the well pad in good condition (not cracked or broken)?	1/		
b	Is the well pad sloped away from the protective casing?	-		_
C	Is the well pad in complete contact with the protective casing?	-	_	
d	Is the well pad in complete contact with the ground surface and	~		_
	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	4		
е	Is the pad surface clean (not covered with sediment or debris)?	1	=	
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	7		
b	Is the casing free of kinks or bends, or any obstructions from			_
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1	_	
е	Is the depth of the well consistent with the original well log?	V	_	
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)	1		
E Complin	Croundwater Wella Only			
4-4	g: Groundwater Wells Only: Does well recharge adequately when purged?	_		1
а	If dedicated sampling equipment installed, is it in good condition			
ь	and specified in the approved groundwater plan for the facility?			
С	Does the well require redevelopment (low flow, turbid)?	_		-
	And the second of the second o			-
6 Based or	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	-		
	requirements?	1		
7 Corrective	e actions as needed, by date:			
Concour	a delicita de modeles, ej delo.	_	6	THE PROPERTY.



Site Name	Plant Mitchell	2		
Permit Number				
Well ID	PZ-09D			
Date	10/05/2020	-0.5		17.13
1 Locatio	n/Identification	yes	no	n/a
а	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	-		-
C	Is the well in a high traffic area and does the well require		_	
	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1		
2 Protecti	ve Casing			
a	Is the protective casing free from apparent damage and able to be			
ų.	secured?	1		
b	Is the casing free of degradation or deterioration?	-		_
C	Does the casing have a functioning weep hole?	-V		
d	Is the annular space between casings clear of debris and water,			-
	or filled with pea gravel/sand?	1		
e	Is the well locked and is the lock in good condition?	1	_	
3 Surface	had			
a <u>ounace</u>	Is the well pad in good condition (not cracked or broken)?	-		
b	Is the well pad sloped away from the protective casing?	-		-
c	Is the well pad in complete contact with the protective casing?		$\overline{}$	_
d	Is the well pad in complete contact with the ground surface and	3/		-
· ·	stable? (not undermined by erosion, animal burrows, and does not	Jan Jan		
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	-	_	_
			_	-
4 Internal				
а	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from	1		
2	foreign objects (such as bailers)?			-
c	Is the well properly vented for equilibration of air pressure?	-		_
d	Is the survey point clearly marked on the inner casing?	1		
e	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched	V		
4	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
	odapinigo in donati detion)	_		-
5 Samplin	g: Groundwater Wells Only:			
а	Does well recharge adequately when purged?	355		1
b	If dedicated sampling equipment installed, is it in good condition			
	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?			8
6 Based o	n your professional judgement, is the well construction / location	_		
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
			_	_
7 Correctiv	ve actions as needed, by date:			
			AUS!	minim



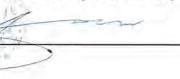
Site Name	Plant Mitchell			
Permit Number	D7 400			
Well ID	PZ-10S	Δy.		
Date	10/05/2020	-	42	-1-
1 Locatio	n/Identification	yes	no	n/a
a	Is the well visible and accessible?		1	
b	Is the well properly identified with the correct well ID?	-	-V-	
C	Is the well in a high traffic area and does the well require	1		
Ģ	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,		—	
	nor is well located in obvious drainage flow path)	1		
2 Destart	na Martina		-	
	ve Casing Is the protective casing free from apparent damage and able to be	ويست		
а	secured?	2		
b	Is the casing free of degradation or deterioration?	1		
C	Does the casing have a functioning weep hole?	1		
d	Is the annular space between casings clear of debris and water,			
	or filled with pea gravel/sand?	~		
е	Is the well locked and is the lock in good condition?	1		
3 Surface	pad	X		
a	Is the well pad in good condition (not cracked or broken)?	7		
b	Is the well pad sloped away from the protective casing?	7		
C	Is the well pad in complete contact with the protective casing?	-		_
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not	1		
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal	casing			
a	Does the cap prevent entry of foreign material into the well?	50		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	-7		_
d	Is the survey point clearly marked on the inner casing?	-1		_
е	Is the depth of the well consistent with the original well log?	1		
f	Is the casing stable? (or does the pvc move easily when touched	-1/		
	or can it be taken apart by hand due to lack of grout or use of slip	-/-		
	couplings in construction)	1		
F.O	0 1 1 1 W H 0 1			
	g: Groundwater Wells Only:			14
a	Does well recharge adequately when purged?		— .	V
b	If dedicated sampling equipment installed, is it in good condition			
	and specified in the approved groundwater plan for the facility? Does the well require redevelopment (low flow, turbid)?			
C	boes the well require redevelopment (low now, turbid)?			
6 Based o	n your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory requirements?	1		
			<u>-</u>	
	ve actions as needed, by date:			-anno
Well	usede construction area (lenced all	onea	STATE	STEFAN SHOT
>			B SON	The state of the s
			Dal.	1111

Signature and Seal of PE/PG responsible for inspection

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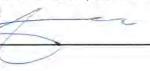
ame	Plant Mitchell	-		
Number	PZ-11S	-01		
0	10/05/2020	0		
	_3,01,00,12,000	yes	no	n/a
1 Location	n/Identification			
а	Is the well visible and accessible?		V	
ь	Is the well properly identified with the correct well ID?		V	
С	Is the well in a high traffic area and does the well require			
	protection from traffic?			1
d	Is the drainage around the well acceptable? (no standing water,			
	nor is well located in obvious drainage flow path)	1	_	
2 Protecti	ve Casing			
a	Is the protective casing free from apparent damage and able to be			
-	secured?	1		
b	Is the casing free of degradation or deterioration?	1		
C	Does the casing have a functioning weep hole?	1	_	
d	Is the annular space between casings clear of debris and water,			
9	or filled with pea gravel/sand?	1		
е	Is the well locked and is the lock in good condition?	V		
	and the second s			
3 Surface	ls the well pad in good condition (not cracked or broken)?	-		
а	그는 이렇게 하게 하면 하면 되면 되었다면 하는데 하는데 하는데 하게 되었다면 되었다면 되었다면 하셨다. 하지만 하는데 되었다면 하는데 그렇게 그렇게 되었다면 하는데 그렇게 되었다면 그렇게 되었다면 하는데 그렇게 되었다면 하는데 그렇게 되었다면 그렇게 그렇게 그렇게 그렇게 그렇게 그렇게 그렇게 그렇게 되었다면 그렇게	-	_	_
b	Is the well pad sloped away from the protective casing?		-	
С	Is the well pad in complete contact with the protective casing?		_	
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not	7		
	move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?	1		
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	/		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	V		
С	Is the well properly vented for equilibration of air pressure?	-/		
d	Is the survey point clearly marked on the inner casing?	1	_	
-	Is the depth of the well consistent with the original well log?		_	
e	Is the casing stable? (or does the pvc move easily when touched			
3	or can it be taken apart by hand due to lack of grout or use of slip	-4		
	couplings in construction)	1		
	oddpiings in donesi dostoriy		_	_
5 Samplin	g: Groundwater Wells Only:			1.0
а	Does well recharge adequately when purged?			-
b	If dedicated sampling equipment installed, is it in good condition			
	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?			1
6 Passal	on your professional judgement, is the well construction / legation			
o based (on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater	_		
	Monitoring Program and 2) comply with the applicable regulatory	1		
	requirements?		_	
7 Correct	ve actions as needed, by date:			ACMIDITY.
	ot access well for water level until 3/25/2020 due to site remediation w	ork.	S	S STEFAN SHE
Wo v	iell id and crosson underneath pad		A.S	11
1	i i		A*/	1 7
ure and Sea	al of PE/PG responsible for inspection		82	1

e Name	Plant Mitchell			
rmit Number	D7.100	5		
ell ID	PZ-12S	4		
ite	10/05/2020	-	122	-1.
1 Location	n/Identification	yes	no	n/a
a	Is the well visible and accessible?			
b	Is the well properly identified with the correct well ID?	-		-
c	Is the well in a high traffic area and does the well require		_	_
	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protecti	vo Coning			
2 <u>Protecti</u> a	Is the protective casing free from apparent damage and able to be			
a	secured?	14-		
b	Is the casing free of degradation or deterioration?	-		_
c	Does the casing have a functioning weep hole?			_
d	Is the annular space between casings clear of debris and water,			
9	or filled with pea gravel/sand?	22		
е	Is the well locked and is the lock in good condition?	-	$\overline{}$	_
			-	_
3 Surface				
а	Is the well pad in good condition (not cracked or broken)?	1	انک	
b	Is the well pad sloped away from the protective casing?	V		
C	Is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	_/_		
е	Is the pad surface clean (not covered with sediment or debris)?		_	_
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	-		
b	Is the casing free of kinks or bends, or any obstructions from			_
7	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	-	_	
d	Is the survey point clearly marked on the inner casing?	-		_
е	Is the depth of the well consistent with the original well log?	_	-/	_
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	/		
5.0	0 1 1 1 1 1 1 1 1 1			
	g: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			\sim
b	If dedicated sampling equipment installed, is it in good condition			
40	and specified in the approved groundwater plan for the facility?	_		
С	Does the well require redevelopment (low flow, turbid)?			V
6 Based o	n your professional judgement, is the well construction / location			
- 50000	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	1		
	requirements?	1		
	1.2.d cm 211,214,22			_
7 Correctiv	ve actions as needed, by date:			
				TITTE





Site Name	Plant Mitchell	2		
Permit Number				
Well ID	PZ-14			
Date	10/05/2020	-	-	nla
1 Locatio	n/Identification	yes	no	n/a
a	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	V		-
C	Is the well in a high traffic area and does the well require			
	protection from traffic?			
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1		
2 Protect	ive Casing			
a	Is the protective casing free from apparent damage and able to be	_		
	secured?	1		_
b	Is the casing free of degradation or deterioration?	1		
C	Does the casing have a functioning weep hole?	1		
d	Is the annular space between casings clear of debris and water,	30		
	or filled with pea gravel/sand?			
е	Is the well locked and is the lock in good condition?			
3 Surface	pad			
a	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	V		
C	Is the well pad in complete contact with the protective casing?	1	-	
d	Is the well pad in complete contact with the ground surface and	-	-	
	stable? (not undermined by erosion, animal burrows, and does no	1 /		
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal	casing			
a	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?			-
d	Is the survey point clearly marked on the inner casing?	V		
е	Is the depth of the well consistent with the original well log?			1
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	- 2		
	couplings in construction)			
5 Samplin	ng: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			1
b	If dedicated sampling equipment installed, is it in good condition			100
	and specified in the approved groundwater plan for the facility?			
C	Does the well require redevelopment (low flow, turbid)?	=	=	_/
6 Based o	on your professional judgement, is the well construction / location	_		
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
a decision of			_	
7 Correcti	ve actions as needed, by date:			
1-1(-)-				THE





Site Name	Plant Mitchell	4		
Permit Number	The state of the s	-		
Well ID	PZ-15	-		
Date	16/05/2020	2.22		12.
4 Lanatin	a lide atification	yes	no	n/a
0.00	n/Identification Is the well visible and accessible?	1		
a		-	$\overline{}$	=
b	Is the well properly identified with the correct well ID?			
C	Is the well in a high traffic area and does the well require protection from traffic?	1		
a	Is the drainage around the well acceptable? (no standing water,	_		_
d	nor is well located in obvious drainage flow path)	1		
	nor is well located in obvious drainage now pathy	_		_
2 Protect	ive Casing			
а	Is the protective casing free from apparent damage and able to be			
	secured?	1		
b	Is the casing free of degradation or deterioration?	/	5.	
C	Does the casing have a functioning weep hole?	1		
d	Is the annular space between casings clear of debris and water,			
	or filled with pea gravel/sand?	/		
е	Is the well locked and is the lock in good condition?	1		=
2 Curfoss	and and			
3 Surface	Is the well pad in good condition (not cracked or broken)?			
a b	Is the well pad sloped away from the protective casing?			
	Is the well pad in complete contact with the protective casing?			-
d d	Is the well pad in complete contact with the ground surface and		$\overline{}$	
u	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
	Is the pad surface clean (not covered with sediment or debris)?	-	_	
е	is the pad surface clear (not covered with scame in debris):		_	_
4 Internal	casing	-		
а	Does the cap prevent entry of foreign material into the well?	/		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	1		-
C	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?	×		1
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)	V		
5 Campli	ng: Groundwater Wells Only:			
-	Does well recharge adequately when purged?			1
b	If dedicated sampling equipment installed, is it in good condition		_	
U	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?	_		-1
	erest are well reduced as a search form that the part of the seal of			
6 Based	on your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	1		
	requirements?	1		
7.0	SIL CIRCLE LE CERTE DE GALLE			
/ Correct	ive actions as needed, by date:			45



Site Name	Plant Mitchell	_		
Permit Number	P7.10	_		
Well ID Date	PZ-16	-		
Date	10/05/2020	- 400	200	n/a
1 Locatio	n/Identification	yes	no	IIIa
a	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	-		_
C	Is the well in a high traffic area and does the well require			_
	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,		_	_
	nor is well located in obvious drainage flow path)	1		
2 Deptarti	va Casina			
	ve Casing	-		
а	Is the protective casing free from apparent damage and able to be secured?			
ь	Is the casing free of degradation or deterioration?	-		
C	Does the casing have a functioning weep hole?		$\overline{}$	
d	Is the annular space between casings clear of debris and water,			
ч	or filled with pea gravel/sand?	1		
е	Is the well locked and is the lock in good condition?	-		
			_	
3 Surface				
а	Is the well pad in good condition (not cracked or broken)?			
b	Is the well pad sloped away from the protective casing?	_/_		
C	Is the well pad in complete contact with the protective casing?			_
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	1		
	move when stepped on) Is the pad surface clean (not covered with sediment or debris)?	-		
е	is the pad surface clean (not covered with sediment or debris)?		_	_
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	V		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?		_	
C	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?			_/_
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	O.		
	couplings in construction)			_
5 Samplin	g: Groundwater Wells Only:	_		
a	Does well recharge adequately when purged?	_		1
b	If dedicated sampling equipment installed, is it in good condition			-
	and specified in the approved groundwater plan for the facility?			V
C	Does the well require redevelopment (low flow, turbid)?			1
c n		=		
o Based o	n your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory requirements?	1		
	requirements:	_		
7 Correctiv	ve actions as needed, by date:			
			~	amin .
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Site Name	Plant Mitchell	J		
Permit Number				
Well ID	PZ-17			
Date	10/05/2020			
2 4 5 5 5 6	Was also as a second se	yes	no	n/a
1 Location	n/Identification			
а	Is the well visible and accessible?			_
b	Is the well properly identified with the correct well ID?			
Ċ	Is the well in a high traffic area and does the well require protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1		
2 Protecti	vo Cocina			
-	Is the protective casing free from apparent damage and able to be	_		
а	secured?	1		
6	Is the casing free of degradation or deterioration?			
b	Does the casing have a functioning weep hole?	-		
C	Is the annular space between casings clear of debris and water,			
d		12		
. 2.	or filled with pea gravel/sand? Is the well locked and is the lock in good condition?	-	_	_
е	is the well locked and is the lock in good condition:		_	0
3 Surface				
a	Is the well pad in good condition (not cracked or broken)?	V		
ь	Is the well pad sloped away from the protective casing?	V		
C	Is the well pad in complete contact with the protective casing?	16		-
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not	jo .		
	move when stepped on)	1		
e	Is the pad surface clean (not covered with sediment or debris)?	V		
4 Internal	casing			
	Does the cap prevent entry of foreign material into the well?		1	
a b	Is the casing free of kinks or bends, or any obstructions from		V	
D	foreign objects (such as bailers)?	11		
	Is the well properly vented for equilibration of air pressure?			_
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d	Is the survey point clearly marked on the inner casing? Is the depth of the well consistent with the original well log?	_	_	1
e	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched	<u> </u>	_	\sim
7	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	11		
	couplings in construction,		-	-
5 Samplin	g: Groundwater Wells Only:			
а	Does well recharge adequately when purged?			1
b	If dedicated sampling equipment installed, is it in good condition			
	and specified in the approved groundwater plan for the facility?			V
C	Does the well require redevelopment (low flow, turbid)?			1
6 Based o	on your professional judgement, is the well construction / location			
5 Daseu C	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	. 1		
	requirements:		-	
7 Correcti	ve actions as needed, by date:			
The second secon		_		~

Signature and Seal of PE/PG responsible for inspection

Site Name	Plant Mitchell			
Permit Number Well ID	PZ-18	-		
Date	10/05/2020			
4.7.5		yes	no	n/a
200	n/Identification Is the well visible and accessible?			
а			_	_
b	Is the well properly identified with the correct well ID?		$\overline{}$	_
C	Is the well in a high traffic area and does the well require protection from traffic?	V		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	V	\equiv	
2 Protect	ive Casing			
a	Is the protective casing free from apparent damage and able to be secured?			
b	Is the casing free of degradation or deterioration?	1	_	-
	Does the casing have a functioning weep hole?	-	_	-
c d	Is the annular space between casings clear of debris and water,			_
ď	or filled with pea gravel/sand?	1		
е	Is the well locked and is the lock in good condition?	1		_
2 Curfoss	and the same of th			
3 Surface		-		
a	Is the well pad in good condition (not cracked or broken)? Is the well pad sloped away from the protective casing?			_
b	Is the well pad in complete contact with the protective casing?			-
d	Is the well pad in complete contact with the ground surface and			_
u	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	-/-		-
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4 Internal				
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Ь	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	1	_	-
d	Is the survey point clearly marked on the inner casing?		_	
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	or can it be taken apart by hand due to lack of grout or use of slip	100		
	couplings in construction)	1		
5 Samplin	ng: Groundwater Wells Only:			
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b	If dedicated sampling equipment installed, is it in good condition	_	_	-
	and specified in the approved groundwater plan for the facility?			V
C	Does the well require redevelopment (low flow, turbid)?	-		- 1/
6 Based o	on your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	12.		
	requirements?	1		_
7 Correcti	ve actions as needed, by date:			
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Signature and Seal of PE/PG responsible for inspection

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Permit Number Well ID Date 1	Site Name	Plant Mitchell	3		
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7 Corrective actions as needed, by date:			2		
		requirements (<u></u>	_
	7 Correcti	ve actions as needed, by date:			
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	- O F			E	STEFAN SHOOT

Signature and Seal of PE/PG responsible for inspection

Service May 25

e Name	Plant Mitchell	4		
mit Number		_		
II ID	PZ-20			
e	10/05/2020			
1 Locatio	n/Identification	yes	no	
а	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	1		_
C	Is the well in a high traffic area and does the well require			-
	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	7	\equiv	
2 Protect	ive Casing			
	Is the protective casing free from apparent damage and able to be			
а	secured?	1		
b	Is the casing free of degradation or deterioration?	1		
C	Does the casing have a functioning weep hole?	1	_	
d	Is the annular space between casings clear of debris and water,			_
	or filled with pea gravel/sand?	1		
e	Is the well locked and is the lock in good condition?	1		
3 Surface	e pad			
а	Is the well pad in good condition (not cracked or broken)?	-7		
b	Is the well pad sloped away from the protective casing?	7	_	-
C	Is the well pad in complete contact with the protective casing?		_	-
d	Is the well pad in complete contact with the ground surface and		-	-
-	stable? (not undermined by erosion, animal burrows, and does no	1		
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	7	_	-
				-
4 Internal				
а	Does the cap prevent entry of foreign material into the well?	_		_
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	7		
d	Is the survey point clearly marked on the inner casing?	1		-
e	Is the depth of the well consistent with the original well log?	-/	_	-
f	Is the casing stable? (or does the pvc move easily when touched			-
-	or can it be taken apart by hand due to lack of grout or use of slip	,,,		
	couplings in construction)	1		
5 Samplin	ig: Groundwater Wells Only:	_		
а	Does well recharge adequately when purged?	_		
b	If dedicated sampling equipment installed, is it in good condition	-		
	and specified in the approved groundwater plan for the facility?			
C	Does the well require redevelopment (low flow, turbid)?			-
6 Racad o	on your professional judgement, is the well construction / location			
o pased 0	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	/		
	reduitements t			_
7 Correction	ve actions as needed, by date:	_		
	C TOLORO DE MEDITAL EX COMO			~
				-



Site Name	Plant Mitchell	3		
Permit Number				
Well ID	PZ-21			
Date	10/05/2020	yes	no	n/a
1 Locatio	n/Identification	yes	110	IIIa
а	Is the well visible and accessible?	0		
b	Is the well properly identified with the correct well ID?	1		
C	Is the well in a high traffic area and does the well require	9		
	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			
2 Protecti	ive Casing			
a	Is the protective casing free from apparent damage and able to be secured?	1		
ь	Is the casing free of degradation or deterioration?	1	-	
c	Does the casing have a functioning weep hole?	1		
d	Is the annular space between casings clear of debris and water,			
	or filled with pea gravel/sand?	W		
е	Is the well locked and is the lock in good condition?			
3 Surface	pad			
а	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?			
C	Is the well pad in complete contact with the protective casing?	1		700
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	t		
	move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from	1		-
	foreign objects (such as bailers)?	V		-
C	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?			
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	15		
	couplings in construction)		_	
5 Samplin	ng: Groundwater Wells Only:			- 24
а	Does well recharge adequately when purged?			1
b	If dedicated sampling equipment installed, is it in good condition			-2.
	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?			-
6 Based	on your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	1		
	requirements?	1		
7 Correct	ive actions as peeded by date:			
/ Correct	ive actions as needed, by date:			man
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Signature and Seal of PE/PG responsible for inspection

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Site Name	Plant Mitchell	500		
Permit Number				
Well ID	PZ-22			
Date	10/05/2020	- 1100		
1 Locatio	n/Identification	yes	no	n/a
а	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	1		_
C	Is the well in a high traffic area and does the well require			
16	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,	-		_
	nor is well located in obvious drainage flow path)	1		
2 Protecti	ve Casing			
a	Is the protective casing free from apparent damage and able to be			
	secured?	1		
b	Is the casing free of degradation or deterioration?	-		
c	Does the casing have a functioning weep hole?	-		
d	Is the annular space between casings clear of debris and water,			-
	or filled with pea gravel/sand?	V		
e	Is the well locked and is the lock in good condition?	7		_
			_	_
3 Surface	pad			
а	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	/		
C	Is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	t		
	move when stepped on)	V		
е	Is the pad surface clean (not covered with sediment or debris)?	V		
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	6		
С	Is the well properly vented for equilibration of air pressure?	7	_	_
d	Is the survey point clearly marked on the inner casing?			_
е	Is the depth of the well consistent with the original well log?	-1/		_
f	Is the casing stable? (or does the pvc move easily when touched		_	
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	/		
5 Samplin	g: Groundwater Wells Only:	=		
a <u>Sampiiri</u>	Does well recharge adequately when purged?			VI
b	If dedicated sampling equipment installed, is it in good condition		-	
D	and specified in the approved groundwater plan for the facility?			1
- 4	Does the well require redevelopment (low flow, turbid)?	-	_	
С	boes the well require redevelopment (low flow, turbid)?	_		
6 Based o	n your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater	_		
	Monitoring Program and 2) comply with the applicable regulatory	100		
	requirements?	1		
22.00				
7 Correctiv	ve actions as needed, by date:			A
- >				STEPANO
			0	W - WITC



Site Name	Plant Mitchell	4		
Permit Number	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
Well ID	PZ-23A			
Date	10/05/2020	VOC	no	n/a
1 Locatio	n/Identification	yes	110	IIIa
a	Is the well visible and accessible?		/	
b	Is the well properly identified with the correct well ID?	V		
С	Is the well in a high traffic area and does the well require protection from traffic?	V		
d	Is the drainage around the well acceptable? (no standing water,	1		
	nor is well located in obvious drainage flow path)	1	-	\leftarrow
2 Protecti	ve Casing			
a	Is the protective casing free from apparent damage and able to be secured?	1		
ь	Is the casing free of degradation or deterioration?	-	=	
C	Does the casing have a functioning weep hole?	./	1	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	1		
е	Is the well locked and is the lock in good condition?	1		
3 Surface	pad			
a	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	1		
C	Is the well pad in complete contact with the protective casing?	V		
ď	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	V		
е	Is the pad surface clean (not covered with sediment or debris)?	X	V	
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	_/		
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	1		
С	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	J		
е	Is the depth of the well consistent with the original well log?			V
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)		-	
5 Samplin	ng: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			1
b	If dedicated sampling equipment installed, is it in good condition			
	and specified in the approved groundwater plan for the facility?		0	_X
C	Does the well require redevelopment (low flow, turbid)?	_	_	1
6 Based	on your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater	=		
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
7 Correct	ive actions as needed, by date:	_		
Well.	is currently difficult to access due	Lo C	onstr	nction:
& Pad	surface is covered with soil from exc	avay	for	Contraction of

Site Name	Plant Mitchell			
Permit Number	75.71	J		
Well ID	PZ-24A			
Date	10/05/2020	-		- 7-
4 Leantle	n (I do ntification	yes	no	n/a
	n/Identification Is the well visible and accessible?	1		
a b	Is the well properly identified with the correct well ID?	-	_	
	Is the well in a high traffic area and does the well require			
C	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,			
u	nor is well located in obvious drainage flow path)	1		
	not to well received in obvious drainage new party			
2 Protecti	ve Casing			
а	Is the protective casing free from apparent damage and able to be			
	secured?	1/		
b	Is the casing free of degradation or deterioration?	1		
C	Does the casing have a functioning weep hole?	/		
d	Is the annular space between casings clear of debris and water,	- 2		
	or filled with pea gravel/sand?	1		
e	Is the well locked and is the lock in good condition?	V		
3 Surface	nad			
a	Is the well pad in good condition (not cracked or broken)?	-		
b	Is the well pad sloped away from the protective casing?		_	_
C	Is the well pad in complete contact with the protective casing?		$\overline{}$	$\overline{}$
d	Is the well pad in complete contact with the ground surface and			_
u	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
e	Is the pad surface clean (not covered with sediment or debris)?	V		\equiv
4 Internal	easing			
a	Does the cap prevent entry of foreign material into the well?	-		
b	Is the casing free of kinks or bends, or any obstructions from			-
D	foreign objects (such as bailers)?	1		
С	Is the well properly vented for equilibration of air pressure?	-		_
ď	Is the survey point clearly marked on the inner casing?			_
e	Is the depth of the well consistent with the original well log?		1	_
f	Is the casing stable? (or does the pvc move easily when touched	_		
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)			
5 Camplio	g: Groundwater Wells Only:			
a <u>Samplin</u>	Does well recharge adequately when purged?			1
b	If dedicated sampling equipment installed, is it in good condition	<u> </u>	_	- 4
D .	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?		_	7
6 Based o	n your professional judgement, is the well construction / location	0.00		
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	Echa.		
	requirements?	yes		
7 Correctiv	ve actions as needed, by date:	_		



Name	Plant Mitchell			
nit Number	New Action			
ID	PZ-25	-		
9	10/05/2020	- was	-	
1 Location	n/Identification	yes	no	J
a	Is the well visible and accessible?	V		
b	Is the well properly identified with the correct well ID?	-	-	~
C	Is the well in a high traffic area and does the well require			-
C	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,	_		-
u	nor is well located in obvious drainage flow path)	V		
2 Protectiv	ve Casing			
a	Is the protective casing free from apparent damage and able to be			
ч	secured?	1		
ь	Is the casing free of degradation or deterioration?	1		-
C	Does the casing have a functioning weep hole?	7	_	-
ď	Is the annular space between casings clear of debris and water,	_	_	-
u	or filled with pea gravel/sand?	V		
- 2	Is the well locked and is the lock in good condition?	-		-
е	is the well locked and is the lock in good condition?		_	-
3 Surface		-		
а	Is the well pad in good condition (not cracked or broken)?	_/_		-
b	Is the well pad sloped away from the protective casing?	1		
C	Is the well pad in complete contact with the protective casing?	_		_
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	t ,		
	move when stepped on)	1		-
е	Is the pad surface clean (not covered with sediment or debris)?			_
4 Internal	casing			
a	Does the cap prevent entry of foreign material into the well?	/		
b	Is the casing free of kinks or bends, or any obstructions from			
3	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	7		
d	Is the survey point clearly marked on the inner casing?	1		_
е	Is the depth of the well consistent with the original well log?			4
f	Is the casing stable? (or does the pvc move easily when touched			_
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
	document of the second of the	_		
5 Samplin	g: Groundwater Wells Only:			
a	Does well recharge adequately when purged?			2
ь	If dedicated sampling equipment installed, is it in good condition			
	and specified in the approved groundwater plan for the facility?			
C	Does the well require redevelopment (low flow, turbid)?			L
6 Based o	on your professional judgement, is the well construction / location			
- 20000 0	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	0		
	ioquiomon.		$\overline{}$	-
7 Correcti	ve actions as needed, by date:			
A STATE OF S	THE COURT OF THE C	-		



Site Name	Plant Mitchell			
Permit Number				
Well ID	PZ-26			
Date	10/05/2020	2000		
1 Locatio	n/Identification	yes	no	n/a
a	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	-	_	-
c	Is the well in a high traffic area and does the well require			-
	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1		
2 Protecti	ive Casing			
a	Is the protective casing free from apparent damage and able to be			
a	secured?	1		
Ь	Is the casing free of degradation or deterioration?			_
c	Does the casing have a functioning weep hole?	-	_	_
d	Is the annular space between casings clear of debris and water,		_	_
	or filled with pea gravel/sand?	1		
е	Is the well locked and is the lock in good condition?	1	_	
3 Surface				
a	Is the well pad in good condition (not cracked or broken)?	-		_
b	Is the well pad sloped away from the protective casing?	-	_	_
C	Is the well pad in complete contact with the protective casing?		_	_
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	1		
1.0	move when stepped on)	-/-		_
е	Is the pad surface clean (not covered with sediment or debris)?	V		-
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	1	_	
C	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?	V		100
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)			
5 Samplin	g: Groundwater Wells Only:			
а	Does well recharge adequately when purged?			1
b	If dedicated sampling equipment installed, is it in good condition			-
-	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?			7
6 Based o	n your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	. /		
	requirements?			
7 Correctiv	ve actions as needed, by date:	_		
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Contract of the contract of th			1	ATEF/



Site Name	Plant Mitchell			
Permit Number	THE STATE OF THE S	-		
Well ID	PZ-27	-		
Date	10/05/2020			n/a
1 Locatio	n/Identification	yes	no	ma
	Is the well visible and accessible?	1/		
a	Is the well properly identified with the correct well ID?	-		
b	Is the well in a high traffic area and does the well require			
C	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,			
	nor is well located in obvious drainage flow path)	1		
2 Protect	ive Casing			
a	Is the protective casing free from apparent damage and able to be			
- 4	secured?	1		
b	Is the casing free of degradation or deterioration?	7		7
C	Does the casing have a functioning weep hole?	-/	_	
d	Is the annular space between casings clear of debris and water,			
Q	or filled with pea gravel/sand?	V.		
е	Is the well locked and is the lock in good condition?	1		=
3 Surface	anad			
	Is the well pad in good condition (not cracked or broken)?			
a b	Is the well pad sloped away from the protective casing?	1	-	
	Is the well pad in complete contact with the protective casing?	7	_	\leftarrow
C	Is the well pad in complete contact with the ground surface and	_	_	-
d	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
2.	Is the pad surface clean (not covered with sediment or debris)?	-		
е	is the pad surface clear (not covered with sediment or debris)?		_	
4 Internal				
а	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from	2		
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	12		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?	/		
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)			
5 Samplin	ng: Groundwater Wells Only:			
а	Does well recharge adequately when purged?			/
b	If dedicated sampling equipment installed, is it in good condition			/
	and specified in the approved groundwater plan for the facility?			1
-C	Does the well require redevelopment (low flow, turbid)?	=		V
6 Paged	on your professional judgement, is the well construction / location	-		
o based (appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	yes		
	requirements:	700		
7 Correct	ive actions as needed, by date:			THE PARTY OF THE P
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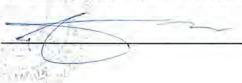
Site Name	Plant Mitchell	_		
Permit Number	D7.00	_		
Well ID Date	PZ-28	-0		
Date	10/05/2020	-	no	nla
1 Locatio	n/Identification	yes	no	n/a
a	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	-/-		_
C	Is the well in a high traffic area and does the well require			
1,2	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,			
	nor is well located in obvious drainage flow path)	1		
0 D1	no Carta			
	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?			
b	Is the casing free of degradation or deterioration?		-	_
	Does the casing have a functioning weep hole?	-	$\overline{}$	-
c d	Is the annular space between casings clear of debris and water,		_	-
u	or filled with pea gravel/sand?	. 7		
е	Is the well locked and is the lock in good condition?	-		
			-	_
3 Surface				
а	Is the well pad in good condition (not cracked or broken)?	_/		
b	Is the well pad sloped away from the protective casing?	V		
С	Is the well pad in complete contact with the protective casing?	_/_		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	t		
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	_/		
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from		-	
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?	1		=
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	O.		
	couplings in construction)	1		
5 Samplin	g: Groundwater Wells Only:			
a <u>Samplin</u>	Does well recharge adequately when purged?			7
b	If dedicated sampling equipment installed, is it in good condition			~
.0	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?	_	$\overline{}$	-
	Server Street tradents is asserted in Street House House House House			
6 Based o	n your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	100		
	requirements?	V		
7 Correction	ve actions as needed, by date:			
Corrective	adiona de nocaca, by date.			THE PARTY OF THE P

Site Name	Plant Mitchell	5		
Permit Number Well ID	PZ-29			
Date	10/05/2020	5		
Date	1,02,1000	yes	no	n/a
1 Location	/Identification			
a	Is the well visible and accessible?	V		
b	Is the well properly identified with the correct well ID?	1		
С	Is the well in a high traffic area and does the well require	- 1		
	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,	1		
	nor is well located in obvious drainage flow path)			
2 Protectiv	o Casing			
a	Is the protective casing free from apparent damage and able to be			
a	secured?	1		
b	Is the casing free of degradation or deterioration?	•/		
C	Does the casing have a functioning weep hole?	1	_	
d	Is the annular space between casings clear of debris and water,	Tai		
	or filled with pea gravel/sand?	V		
е	Is the well locked and is the lock in good condition?	V		
12.2		77.7		
3 Surface				
a	Is the well pad in good condition (not cracked or broken)?	-	_	_
b	Is the well pad sloped away from the protective casing? Is the well pad in complete contact with the protective casing?		_	_
C	Is the well pad in complete contact with the ground surface and	3/	_	_
d	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	7	_	
2 3 7 7 7	Visite Para Carrier Street Visite Street Carrier St			
4 Internal of	casing			
а	Does the cap prevent entry of foreign material into the well?		-	
Ь	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?		-	
C	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?		_	
e	Is the depth of the well consistent with the original well log?		-	
1	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
	couplings in construction/	_		
5 Sampling	g: Groundwater Wells Only:			10.00
a	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition			-
	and specified in the approved groundwater plan for the facility?		-	
C	Does the well require redevelopment (low flow, turbid)?	_		1
6 Rosed or	your professional judgement, is the well construction / location			
O Dased Of	appropriate to 1) achieve the objectives of the Groundwater	_		
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	/		
/ Correctiv	e actions as needed, by date:			animor-
1 -21-			ES US	TEFAN SHOPE
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Name	Plant Mitchell			
nit Number				
ID	PZ-31			
	10/05/2020	300		
1 Locatio	n/Identification	yes	no	n/a
a	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	-/-	$\overline{}$	-
	Is the well in a high traffic area and does the well require			_
С	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1		Ī
2 Protect	ive Casing			
a	Is the protective casing free from apparent damage and able to be			
	secured?	1		
b	Is the casing free of degradation or deterioration?	T		_
С	Does the casing have a functioning weep hole?	1	_	
d	Is the annular space between casings clear of debris and water,	- 1		
	or filled with pea gravel/sand?	/		
е	Is the well locked and is the lock in good condition?	1	=	
3 Surface	e pad			
а	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	1		_
C	Is the well pad in complete contact with the protective casing?	1		_
d	Is the well pad in complete contact with the ground surface and		-	_
	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	7	_	
4 Internal	agging			
	Does the cap prevent entry of foreign material into the well?	-		
a	Is the casing free of kinks or bends, or any obstructions from			_
Ь	foreign objects (such as bailers)?	1		
	Is the well properly vented for equilibration of air pressure?			_
C				_
d	Is the survey point clearly marked on the inner casing?			_
e f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched	X		V
T.	or can it be taken apart by hand due to lack of grout or use of slip	- 22		
	couplings in construction)	1		
Land to the			_	-
5 Samplin	g: Groundwater Wells Only:			
а	Does well recharge adequately when purged?			J
ь	If dedicated sampling equipment installed, is it in good condition			
	and specified in the approved groundwater plan for the facility?			/
C	Does the well require redevelopment (low flow, turbid)?	_		V
6 Based o	n your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater	_		
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
44				
7 Correctiv	ve actions as needed, by date:			
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Site Name	Plant Mitchell	_		
Permit Number		-		
Vell ID	PZ-32	-		
Date	10/05/2020	yes	no	n/a
1 Locatio	n/Identification	yes	110	10.4
a	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	1		
C	Is the well in a high traffic area and does the well require	-		
200	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,	17.		
	nor is well located in obvious drainage flow path)			
2 Protect	ive Casing			
а	Is the protective casing free from apparent damage and able to be	7		
	secured?	V		
b	Is the casing free of degradation or deterioration?	1		
C	Does the casing have a functioning weep hole?	V		-
d	Is the annular space between casings clear of debris and water,		-	-
u	or filled with pea gravel/sand?	1		
	Is the well locked and is the lock in good condition?		_	-
е	Is the well locked and is the lock in good condition:		_	+
3 Surface	e pad			
a	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	V		
C	Is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	t		
	move when stepped on)	V		
е	Is the pad surface clean (not covered with sediment or debris)?	1		
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from		(
	foreign objects (such as bailers)?	1		
С	Is the well properly vented for equilibration of air pressure?	V		
d	Is the survey point clearly marked on the inner casing?	7		
	Is the depth of the well consistent with the original well log?			1
e	Is the casing stable? (or does the pvc move easily when touched	_	_	
.0	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	/		
	odupiningo in content desiren)			
5 Samplin	ng: Groundwater Wells Only:			3
а	Does well recharge adequately when purged?			V
b	If dedicated sampling equipment installed, is it in good condition			1
	and specified in the approved groundwater plan for the facility?			V
C	Does the well require redevelopment (low flow, turbid)?			
6 Rased	on your professional judgement, is the well construction / location			
o Daseu i	appropriate to 1) achieve the objectives of the Groundwater	-		
	Monitoring Program and 2) comply with the applicable regulatory	100		
	requirements?	1		
	requirements:		_	-
7 Correct	ive actions as needed, by date:			
-41	THE STATE OF THE S			
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e Name	Plant Mitchell	_);		
rmit Number	Walter and the second s	_		
ell ID	PZ-33			
ite	19/05/2020		444	4.62
1 Location	n/Identification	yes	no	n/a
a	Is the well visible and accessible?	112		
b	Is the well properly identified with the correct well ID?		\rightarrow	-
c	Is the well in a high traffic area and does the well require		_	
· ·	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	7	3	
2 Protectiv	ve Casina			
a	Is the protective casing free from apparent damage and able to be	_		
a	secured?	1		
b	Is the casing free of degradation or deterioration?	7		
C	Does the casing have a functioning weep hole?		_	_
d	Is the annular space between casings clear of debris and water,		_	_
_	or filled with pea gravel/sand?	V		
e	Is the well locked and is the lock in good condition?	7 -		-
			_	
3 Surface				
а	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?			
C	Is the well pad in complete contact with the protective casing?			
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not	A		
	move when stepped on)	V		
е	Is the pad surface clean (not covered with sediment or debris)?			
4 Internal	casing			
a	Does the cap prevent entry of foreign material into the well?			
b	Is the casing free of kinks or bends, or any obstructions from		_	
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?		_	_
d	Is the survey point clearly marked on the inner casing?		_	
e	Is the depth of the well consistent with the original well log?		_	-7
f	Is the casing stable? (or does the pvc move easily when touched		_	1/
30	or can it be taken apart by hand due to lack of grout or use of slip			
17. 1	couplings in construction)	1		
3				
5 Sampling	g: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	-3-		
b	If dedicated sampling equipment installed, is it in good condition			4
100 (1)	and specified in the approved groundwater plan for the facility?	نے سے		
C	Does the well require redevelopment (low flow, turbid)?			
6 Based or	n your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	,OK		
	requirements?	1		
			_	
7 Correctiv	ve actions as needed, by date:			-centra-
			5	C STEFAN CO.



me Number	Plant Mitchell N/A	-		
vumber	MH-B-034 PZ-01R	-		
	10/05/2020			
4 1		Yes	No	n/a
1 Location	/Identification	1		
b	Is the well visible and accessible?		_	_
С	Is the well properly identified with the correct well ID? Is the well in a high traffic area and does the well require protection from traffic?	_	_	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)			1
2 Protective	e Casing			
а	Is the protective casing free from apparent damage and able to be secured?		_	V
b	Is the casing free of degradation or deterioration?			1.6
C	Does the casing have a functioning weep hole?			~
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			V
е	Is the well locked and is the lock in good condition?			1
3 Surface p				-
a a	Is the well pad in good condition (not cracked or broken)?			V
b	Is the well pad sloped away from the protective casing?		_	-
C	Is the well pad in complete contact with the protective casing?	_		
d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			v
е	Is the pad surface clean (not covered with sediment or debris)?			V
4 Internal c	asing			
a	Does the cap prevent entry of foreign material into the well?	V		
b	그렇게 하셨다면 가게 되면 그렇게 되는 것이 없는 것이 되었다면 하다.	_		-
	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	8		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?	1		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip		=	_
	couplings in construction)	N	_	_
Sampling	: Groundwater Wells Only:			-
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition	_		~
U	and specified in the approved groundwater plan for the facility?			V
C	Does the well require redevelopment (low flow, turbid)?			V
Based on	your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory requirements?	1		
Corrective	e actions as needed, by date:			STATISTICS

Signature and Seal of PE/PG responsible for inspection

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ame	Plant Mitchell	200		
Number	N/A	-		
O	MH-B-12 PZ-02R	0		
	TAINALDARA	Yes	No	n/a
1 Location	n/Identification	-450	1225	-50
a	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	71		
Ċ	Is the well in a high traffic area and does the well require protection from traffic?	+	2	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	×		1
2 Protectiv	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?		_	_2_
b	Is the casing free of degradation or deterioration?			1
C	Does the casing have a functioning weep hole?			1
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			7
е	Is the well locked and is the lock in good condition?			7
		_	_	
3 Surface a	하다면 하는 다른 사람들에게 하면 하는 것 같아. 이 사람들이 아니는 아니는 것이다.			3.
	Is the well pad in good condition (not cracked or broken)?		_	-
b	Is the well pad sloped away from the protective casing?			
C	Is the well pad in complete contact with the protective casing?	_		1
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			>
e	Is the pad surface clean (not covered with sediment or debris)?	_		1
4 months		-		
4 Internal a	casing			
u	Does the cap prevent entry of foreign material into the well?	V		
ь	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?	1		
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip		_	_
	couplings in construction)		_	
5 Sampling	g: Groundwater Wells Only:			
a b	Does well recharge adequately when purged? If dedicated sampling equipment installed, is it in good condition			
D	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?			
6 Based or	n your professional judgement, is the well construction / location appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	100		THE STATE OF THE PARTY OF THE P
	e actions as needed, by date:			SSTEFAN SA





Number	N/A			
	10/05/2020			
1 Location	n/Identification	Yes	No	n/a
a	Is the well visible and accessible?	211		
b	Is the well properly identified with the correct well ID?		-	_
C	Is the well in a high traffic area and does the well require protection from traffic?		-	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	\equiv	Ĭ	
2 Protecti	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?			~
b	Is the casing free of degradation or deterioration?			7
С	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?			~
е	Is the well locked and is the lock in good condition?			
2 0		_		
3 <u>Surface</u> a				
b	Is the well pad in good condition (not cracked or broken)?			_
	Is the well pad sloped away from the protective casing?	_		
d	Is the well pad in complete contact with the protective casing? Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)			
e	Is the pad surface clean (not covered with sediment or debris)?	_	_	
		_		
4 Internal a				
	Does the cap prevent entry of foreign material into the well?	1		_
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	V		
d				
е	Is the survey point clearly marked on the inner casing?		_	
f	Is the depth of the well consistent with the original well log? Is the casing stable? (or does the pvc move easily when touched	1		
	or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	1		
Sampling	g: Groundwater Wells Only:			
а	Does well recharge adequately when purged?			V
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?			V
C	Does the well require redevelopment (low flow, turbid)?			-/
Based or	n your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program and 2) comply with the applicable regulatory requirements?	1	₫.	- criffing
Correctiv	re actions as needed, by date:			STEFAN STEFAN

Signature and Seal of PE/PG responsible for inspection

4

Name	Plant Mitchell			
mit Number	THAY 400			
II ID	MW-102	-5		
е	10/05/2020	yes	no	n/a
1 Location	n/Identification	yes	110	III
a	Is the well visible and accessible?	N		
b	Is the well properly identified with the correct well ID?	-7	_	_
C	Is the well in a high traffic area and does the well require			
· ·	protection from traffic?	V		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1		
2 Protecti	ve Casing			
a	Is the protective casing free from apparent damage and able to be			
a	secured?	1		
b	Is the casing free of degradation or deterioration?	-	_	
C	Does the casing have a functioning weep hole?		-	
d	Is the annular space between casings clear of debris and water,			_
U	or filled with pea gravel/sand?	1		
е	Is the well locked and is the lock in good condition?	-		
C	13 the Well looked and to the look in good condition.		_	_
3 Surface				
а	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	/		
C	Is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1	_	
е	Is the pad surface clean (not covered with sediment or debris)?	1		
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from		_	_
	foreign objects (such as bailers)?	/		
C	Is the well properly vented for equilibration of air pressure?	7		_
d	Is the survey point clearly marked on the inner casing?	-		
е	Is the depth of the well consistent with the original well log?			1
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	1		
5 Samplin	g: Groundwater Wells Only:	_		
a <u>Sampiii</u>	Does well recharge adequately when purged?	X		1
b	If dedicated sampling equipment installed, is it in good condition		_	
U	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?			
6 Based o	on your professional judgement, is the well construction / location			
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	100		
	requirements?			_
7 Correcti	ve actions as needed, by date;			
ATACH STATE	or menous naturation of agrical			THUMIN .



Site Name	Plant Mitchell			
Permit Number	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
Well ID	MW-108	-(
Date	10/05/2020	yes	no	n/a
1 Locat	ion/Identification	yes	110	illa
а	Is the well visible and accessible?	1		
ь	Is the well properly identified with the correct well ID?	-	_	
С	Is the well in a high traffic area and does the well require			
	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,	$\overline{}$	_	
	nor is well located in obvious drainage flow path)	1		
2 Protec	ctive Casing			
а	Is the protective casing free from apparent damage and able to be			
-	secured?	1		
Ь	Is the casing free of degradation or deterioration?	-	_	
c	Does the casing have a functioning weep hole?	-	_	
d	Is the annular space between casings clear of debris and water,		_	
u	or filled with pea gravel/sand?			
6	Is the well locked and is the lock in good condition?	4		
е	is the well locked and is the lock in good condition?	~	-	_
3 Surfac	ce pad			
а	Is the well pad in good condition (not cracked or broken)?	1		
ь	Is the well pad sloped away from the protective casing?	1		
С	Is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	2		_
Atabasa	Distriction			
4 Interna				
a	Does the cap prevent entry of foreign material into the well?	_		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?	1		
f	Is the casing stable? (or does the pvc move easily when touched	-		
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)			
5 Sampl	ing: Groundwater Wells Only:	_		
a	Does well recharge adequately when purged?			11
b	If dedicated sampling equipment installed, is it in good condition			
U	and specified in the approved groundwater plan for the facility?			
	Does the well require redevelopment (low flow, turbid)?	_		
C	Does the well require redevelopment (low now, turbid)?	_	_	3/
6 Based	on your professional judgement, is the well construction / location	_		
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
9.4	PLANTING AND ADDRESS OF THE PARTY.	=		
/ Correc	tive actions as needed, by date:		555	AS STEFAN
William Jake	e		30	HOOM
No.	74		B #/	31113
Signature and So	eal of PE/PG responsible for inspection		8	100



Number	MW-111	=		
)	10/05/2020	-3		
	10/08 (2000	yes	no	n/a
1 Locatio	n/Identification	,		711-61
а	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	5.7		
C	Is the well in a high traffic area and does the well require			
	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1		
0.5		_	_	_
	ve Casing			
а	Is the protective casing free from apparent damage and able to be secured?	1		_
Ь	Is the casing free of degradation or deterioration?	1		_
C	Does the casing have a functioning weep hole?	1.		
d	Is the annular space between casings clear of debris and water,			
	or filled with pea gravel/sand?	1		
е	Is the well locked and is the lock in good condition?	/		
3 Surface	pad			
а	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	1	_	
C	Is the well pad in complete contact with the protective casing?	-/-		_
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	1		
4 Internal	casing			
a	Does the cap prevent entry of foreign material into the well?	-7		
b	Is the casing free of kinks or bends, or any obstructions from			
U	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?	1_		
e	Is the depth of the well consistent with the original well log?	_		_
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	/		
	couplings in construction)			_
5 Samplin	g: Groundwater Wells Only:			
а	Does well recharge adequately when purged?			1
b	If dedicated sampling equipment installed, is it in good condition			
	and specified in the approved groundwater plan for the facility?			0
C	Does the well require redevelopment (low flow, turbid)?			1
6 Basad o	n your professional judgement, is the well construction / location			
o pased 0	appropriate to 1) achieve the objectives of the Groundwater	$\overline{}$		
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
			_	
7 Correctiv	ve actions as needed, by date:		SSISS	S STEFAN S
du S	3		E MARK	R
190	Te .		B #/	11

it Number	MW 112	-		
ID	MW-113 10/05/2020	-0		
	10/05/2020	yes	00	n/a
1 Location	n/Identification	yes	no	1116
а	Is the well visible and accessible?	2		
b	Is the well properly identified with the correct well ID?	/		_
С	Is the well in a high traffic area and does the well require protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	1		Ξ
2 Protectiv	ve Casing			
a	Is the protective casing free from apparent damage and able to be	-		
a	secured?	/		
b	Is the casing free of degradation or deterioration?		-	
C	Does the casing have a functioning weep hole?	-7		-
d	Is the annular space between casings clear of debris and water,			-
	or filled with pea gravel/sand?	1		
е	Is the well locked and is the lock in good condition?	1		
3 Surface	pad			
а	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	-	-	_
C	Is the well pad in complete contact with the protective casing?	7	_	_
d	Is the well pad in complete contact with the ground surface and		_	_
9	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?		\equiv	
4 Internal	rasing			
a	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from			_
-	foreign objects (such as bailers)?	1/		
С	Is the well properly vented for equilibration of air pressure?			
d	Is the survey point clearly marked on the inner casing?	1		_
е	Is the depth of the well consistent with the original well log?	-	_	_
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip			
	couplings in construction)	V		
5 Sampling	g: Groundwater Wells Only:	_		
а	Does well recharge adequately when purged?			V
b	If dedicated sampling equipment installed, is it in good condition			_
	and specified in the approved groundwater plan for the facility?			1
C	Does the well require redevelopment (low flow, turbid)?			V
6 Based or	your professional judgement, is the well construction / location			
2 20000 01	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
	The state of the s		_	
	e actions as needed, by date:			amin
The prote	ective casing is rusting and deteriorting. May need replacing soon.		STATE	STEFAN S



Site Name	Plant Mitchell			
Permit Number				
Well ID	MW-115			
Date	10/05/2020	250.		600
1 Locatio	n/Identification	yes	no	n/a
a	Is the well visible and accessible?	2/		
b	Is the well properly identified with the correct well ID?	<u>~</u>		_
c	Is the well in a high traffic area and does the well require			_
	protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,		-	
	nor is well located in obvious drainage flow path)	1		
2 Protecti	ive Casing			
a	Is the protective casing free from apparent damage and able to be			
4.	secured?	1		
b	Is the casing free of degradation or deterioration?	~	_	_
C	Does the casing have a functioning weep hole?			
d	Is the annular space between casings clear of debris and water,			
	or filled with pea gravel/sand?	1		
е	Is the well locked and is the lock in good condition?	1		
3 Surface	pad			
а	Is the well pad in good condition (not cracked or broken)?	7		
b	Is the well pad sloped away from the protective casing?	1		-
C	Is the well pad in complete contact with the protective casing?	1		
d	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does not			
	move when stepped on)	1		
е	Is the pad surface clean (not covered with sediment or debris)?	1		
4 Internal	casing			
а	Does the cap prevent entry of foreign material into the well?	7		
b	Is the casing free of kinks or bends, or any obstructions from			
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	7		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?			V
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)			
5 Samplin	g: Groundwater Wells Only:	_		
а	Does well recharge adequately when purged?			-
b	If dedicated sampling equipment installed, is it in good condition			_
	and specified in the approved groundwater plan for the facility?			~
C	Does the well require redevelopment (low flow, turbid)?			V
6 Based o	n your professional judgement, is the well construction / location	-		
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory			
	requirements?	1		
4 4 2000	to the state of th			7
/ Corrective	ve actions as needed, by date:			Manny.
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Site Name	Plant Mitchell			
Permit Number	Contract to the contract to th	-		
Well ID	MW-116	-0		
Date	10/05/2020	- 1/06	no	n/a
1 Loca	tion/Identification	yes	no	IIIa
a	Is the well visible and accessible?	1		
b	Is the well properly identified with the correct well ID?	-	_	
c	Is the well in a high traffic area and does the well require protection from traffic?	1		
d	Is the drainage around the well acceptable? (no standing water,			
177	nor is well located in obvious drainage flow path)	1	تست	
2 Prote	ctive Casing			
a <u>11010</u>	Is the protective casing free from apparent damage and able to be			
u	secured?	1		
b	Is the casing free of degradation or deterioration?	-1	_	_
C	Does the casing have a functioning weep hole?	-	_	_
	Is the annular space between casings clear of debris and water,		_	
ď	or filled with pea gravel/sand?	1		
е	Is the well locked and is the lock in good condition?	7		_
			_	_
3 Surfa	ce pad			
a	Is the well pad in good condition (not cracked or broken)?	1		
b	Is the well pad sloped away from the protective casing?	_	-	
C	Is the well pad in complete contact with the protective casing?	_		
ď	Is the well pad in complete contact with the ground surface and			
	stable? (not undermined by erosion, animal burrows, and does no	t		
	move when stepped on)			
е	Is the pad surface clean (not covered with sediment or debris)?	V		
4 Intern	nal casing			
a	Does the cap prevent entry of foreign material into the well?	1		
b	Is the casing free of kinks or bends, or any obstructions from			-
	foreign objects (such as bailers)?	1		
C	Is the well properly vented for equilibration of air pressure?	1		
d	Is the survey point clearly marked on the inner casing?	1		
е	Is the depth of the well consistent with the original well log?			V
f	Is the casing stable? (or does the pvc move easily when touched			
	or can it be taken apart by hand due to lack of grout or use of slip	1		
	couplings in construction)		_	_
5 Samo	oling: Groundwater Wells Only:	_		11
a	Does well recharge adequately when purged?			
b	If dedicated sampling equipment installed, is it in good condition			-
	and specified in the approved groundwater plan for the facility?			
C	Does the well require redevelopment (low flow, turbid)?			V
6 D===	d on your professional judgement, is the well construction / location	_		
o base				
	appropriate to 1) achieve the objectives of the Groundwater			
	Monitoring Program and 2) comply with the applicable regulatory	./		
	requirements?		-	
7.0	This walland as accorded by defer			

Signature and Seal of PE/PG responsible for inspection

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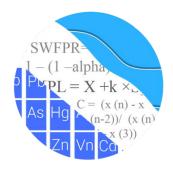
APPENDIX C

STATISTICAL ANALYSES

GROUNDWATER STATS CONSULTING

February 23, 2021

Southern Company Services Attn: Mr. Joju Abraham 241 Ralph McGill Blvd NE, Bin 10160 Atlanta, Georgia 30308-3374



Re: Plant Mitchell Ash Pond

1st Semi-Annual 2020 Statistical Analysis - October Sample Event

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the October 2020 Semi-Annual Groundwater Monitoring and Corrective Action Statistical summary 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 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:

- o **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, and PZ-33

Note that well PZ-23 was abandoned and was replaced with well PZ-23A. Since the new well PZ-23A was installed in close proximity to well PZ-23A, the historical data and new data have been combined. Well PZ-23A was first sampled during the March 2020 event.

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager for Groundwater Stats Consulting.

The 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% nondetects since 2016 for Appendix IV constituents follow this letter. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event. During the annual Scan event conducted in August 2020, arsenic, beryllium, and cadmium were not detected, and therefore, were not required to be sampled during the October 2020 event. Those three constituents were included on time series and box plots, but were not included in statistical analyses. For all constituents, a substitution of the most recent reporting limit is used for nondetect data. For calculating prediction limits, the substitution is performed for individual wells and may differ across wells. This generally gives the most conservative limit in each case. In the time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Based on the previous screening, 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 boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against Ground Water 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 nondetects, 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 nondetects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. 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.

Background Screening – Conducted in March 2019

Outlier and Trend Testing

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 are 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 will 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 outliers identified by Tukey's method, only a few of these values were flagged in the database as all other values are similar to remaining measurements within a given well or neighboring wells or were nondetects.

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.

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.

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 sets.

<u>Appendix III – Determination of Spatial Variation</u>

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 will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters - October 2020 Sample Event

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged as outlier and a summary of previously flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2020 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs).

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, PZ-16, PZ-17, PZ-18, and PZ-23A

pH: PZ-18, PZ-19, PZ-23A, and PZ-25

• 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-17, PZ-18, PZ-19, PZ-23A, PZ-33, and PZ-7D

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. 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

Sulfate: PZ-14 and PZ-23A

TDS: PZ-23A

Decreasing:

• Boron: PZ-7D

• Chloride: PZ-31 (upgradient)

• Sulfate: PZ-25, PZ-31 (upgradient), and PZ-33

Statistical Analysis of Appendix IV Parameters - October 2020 Sample Event

For Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Ground Water Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% ND or trace values below the reporting limits do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through October 2020 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then used when determining the

groundwater protection standard (GWPS) under Georgia EPD Rule 391-3-4-.10(6)(a). As described in 40 CFR §257.95(h) (1-3), the GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the October 2020 sample event for the state rules (Figure G). To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the state requirements in each downgradient well (Figure H). 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 Georgia 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, 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.

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

Kristina L. Rayner

Groundwater Statistician

Sanitas™ v.9.6.27 . U0

100% Non-Detects

Analysis Run 12/8/2020 1:54 PM View: Appendix IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Antimony (mg/L) PZ-25, PZ-32

Arsenic (mg/L)

PZ-16, PZ-18, PZ-1D, PZ-31, PZ-7D

Beryllium (mg/L)

PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-23A, PZ-25, PZ-31, PZ-32, PZ-33, PZ-7D

Cadmium (mg/L)

PZ-14, PZ-15, PZ-16, PZ-17, PZ-18, PZ-19, PZ-1D, PZ-25, PZ-2D, PZ-31, PZ-32, PZ-7D

Chromium (mg/L)

PZ-15, PZ-17, PZ-25

Cobalt (mg/L)

PZ-1D, PZ-2D, PZ-7D

Lead (mg/L)

PZ-14, PZ-17, PZ-25, PZ-7D

Lithium (mg/L)

PZ-16, PZ-1D, PZ-31, PZ-32, PZ-33

Mercury (mg/L)

PZ-32

Molybdenum (mg/L)

PZ-18, PZ-32, PZ-33, PZ-7D

Selenium (mg/L)

PZ-16, PZ-17, PZ-18, PZ-1D, PZ-25, PZ-2D, PZ-31, PZ-32, PZ-33

Thallium (mg/L)

PZ-1D

Interwell Predicition Limit - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 1:43 PM

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Constituent	<u>Well</u>	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Boron (mg/L)	PZ-15	0.02691	n/a	10/7/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02691	n/a	10/6/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02691	n/a	10/7/2020	0.3	Yes	48	4.167	None	In(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02691	n/a	10/7/2020	0.39	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02691	n/a	10/7/2020	0.52	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02691	n/a	10/6/2020	0.16	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02691	n/a	10/7/2020	0.18	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02691	n/a	10/7/2020	0.35	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02691	n/a	10/7/2020	0.2	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	119.9	n/a	10/7/2020	129	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	119.9	n/a	10/7/2020	144	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	119.9	n/a	10/6/2020	144	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.705	n/a	10/7/2020	6.6	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.705	n/a	10/6/2020	6.4	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-17	4.705	n/a	10/7/2020	5.7	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.705	n/a	10/7/2020	5	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.705	n/a	10/6/2020	7	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
pH (SU)	PZ-18	9.48	6.96	10/7/2020	6.91	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	10/7/2020	6.78	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	10/6/2020	6.78	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-25	9.48	6.96	10/7/2020	6.95	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	7.172	n/a	10/6/2020	11	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	7.172	n/a	10/7/2020	80.7	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	7.172	n/a	10/6/2020	42.4	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	7.172	n/a	10/7/2020	89.1	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	7.172	n/a	10/7/2020	87.3	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	7.172	n/a	10/7/2020	83.3	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	7.172	n/a	10/6/2020	71.2	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	7.172	n/a	10/7/2020	38.1	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	7.172	n/a	10/7/2020	54.6	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	7.172	n/a	10/7/2020	48.9	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	314	n/a	10/7/2020	336	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	314	n/a	10/7/2020	392	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	314	n/a	10/7/2020	425	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	314	n/a	10/7/2020	492	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	314	n/a	10/6/2020	462	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-33	314	n/a	10/7/2020	337	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	314	n/a	10/7/2020	334	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2

Interwell Predicition Limit - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 1:43 PM

		Plant M	itchell Client:	Southern Co	mpany	Data: M	tchell A	Ish Pond	CCR Pr	nted 12/8/20	20, 1:43 PM	
Constituent	Well	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Boron (mg/L)	PZ-14	0.02691	n/a	10/6/2020	0.026J	No	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-15	0.02691	n/a	10/7/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02691	n/a	10/6/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02691	n/a	10/7/2020	0.3	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02691	n/a	10/7/2020	0.39	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02691	n/a	10/7/2020	0.52	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02691	n/a	10/6/2020	0.16	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02691	n/a	10/7/2020	0.18	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02691	n/a	10/7/2020	0.35	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02691	n/a	10/7/2020	0.2	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-14	119.9	n/a	10/6/2020	111	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	119.9	n/a	10/7/2020	93.5	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	119.9	n/a	10/6/2020	84	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	119.9	n/a	10/7/2020	112	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	119.9	n/a	10/7/2020	129	Yes		2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	119.9	n/a	10/7/2020	144	Yes		2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	119.9	n/a	10/6/2020	144	Yes		2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-25	119.9	n/a	10/7/2020	84.2	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L) Calcium (mg/L)	PZ-33	119.9	n/a	10/7/2020	94.7	No	47	2.128 2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2 Param Inter 1 of 2
, ,	PZ-7D PZ-14	119.9 4.705	n/a	10/7/2020 10/6/2020	109 4.4	No No	47 48	0	None	sqrt(x)	0.0007523 0.0007523	
Chloride (mg/L)			n/a n/a		6.6	No Yes		0	None	sqrt(x)	0.0007523	Param Inter 1 of 2 Param Inter 1 of 2
Chloride (mg/L)	PZ-15 PZ-16	4.705 4.705	n/a n/a	10/7/2020 10/6/2020	6.4	Yes		0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L) Chloride (mg/L)	PZ-10	4.705	n/a	10/7/2020	5.7	Yes		0	None None	sqrt(x) sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.705	n/a	10/7/2020	5	Yes		0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-19	4.705	n/a	10/7/2020	4.5	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.705	n/a	10/6/2020	7	Yes		0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.705	n/a	10/7/2020	1.8	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.705	n/a	10/7/2020	2	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.705	n/a	10/7/2020	3.9	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	10/6/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	10/6/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	10/7/2020	0.064J	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	10/6/2020	0.052J	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	10/7/2020	0.13	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
pH (SU)	PZ-14 PZ-15	9.48 9.48	6.96 6.96	10/6/2020 10/7/2020	7.01 7.11	No	48 48	0	n/a n/a	n/a	0.001612 0.001612	NP Inter (normality) 1 of 2 NP Inter (normality) 1 of 2
pH (SU) pH (SU)	PZ-16	9.48	6.96	10/7/2020	7.11	No No	48	0	n/a	n/a n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	10/7/2020	7.04	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	10/7/2020	6.91	Yes		0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	10/7/2020	6.78	Yes		0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	10/6/2020	6.78	Yes		0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-25	9.48	6.96	10/7/2020	6.95	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	10/7/2020	7.04	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	10/7/2020	6.98	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	7.172	n/a	10/6/2020	11	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	7.172	n/a	10/7/2020	80.7	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	7.172	n/a	10/6/2020	42.4	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	7.172	n/a	10/7/2020	89.1	Yes		0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	7.172	n/a	10/7/2020	87.3	Yes		0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	7.172	n/a	10/7/2020	83.3	Yes		0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	7.172	n/a	10/6/2020	71.2	Yes		0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	7.172 7.172	n/a n/a	10/7/2020 10/7/2020	38.1 54.6	Yes Yes		0	None	ln(x)	0.0007523 0.0007523	Param Inter 1 of 2 Param Inter 1 of 2
Sulfate (mg/L) Sulfate (mg/L)	PZ-33 PZ-7D	7.172 7.172	n/a n/a	10/7/2020	48.9	Yes		0	None None	ln(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-10 PZ-14	314	n/a	10/6/2020	241	No	48	0	None	In(x) No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-14	314	n/a	10/0/2020	336	Yes		0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-16	314	n/a	10/6/2020	261	No	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	314	n/a	10/7/2020	392	Yes		0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	314	n/a	10/7/2020	425	Yes		0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	314	n/a	10/7/2020	492	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	314	n/a	10/6/2020	462	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-25	314	n/a	10/7/2020	280	No	48	0	None	No	0.0007523	Param Inter 1 of 2

Trend Test - Significant Results

	Plant Mitchell Clie		Client: Southern Company		Data: Mitchell Ash Pond CCR			8/2020, 1:49 F	PM		
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	PZ-7D	-0.04195	-41	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-18	5.393	40	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-31 (bg)	-0.4113	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-14	1.958	47	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-23A	5.866	58	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-25	-3.585	-42	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-31 (bg)	-1.363	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-33	-10.95	-54	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-23A	15.05	44	38	Yes	12	0	n/a	n/a	0.01	NP

Trend Test - All Results

		11011	u i C	οι - <i>Γ</i> λιι	110	Sui	ıs				
	Plant Mitchell	Client: Southern Co	ata: Mitchell Ash Pond CCR			Printed 12/8/2020, 1:49 PM					
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	PZ-15	-0.002874	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0.001543	9	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-17	0.004918	15	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0.003211	10	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.01512	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0000869	1	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	0	1	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.002074	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	0	-3	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	-0.001685	-23	-38	No	12	8.333	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	-0.0005995	-7	-38	No	12	8.333	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.006909	-28	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-7D	-0.04195	-41	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-18	5.393	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-19	1.884	14	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-10 (bg)	1.69	27	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	5.176	29	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	4.25	20	38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg) PZ-31 (bg)	2.303	33	38	No	12	0.555	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-31 (bg) PZ-32 (bg)	1.918	24	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.09612	-7	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-16	-0.2544	-32	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-10 PZ-17	-0.09058	-32 -7	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-17	-0.1529	-32	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-10 PZ-1D (bg)	-0.1529	-32 -12	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-23A	0	-2	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	0	-6	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-31 (bg)	-0.4113	-43	-38	Yes	12	0	n/a		0.01	NP
Chloride (mg/L) Chloride (mg/L)	PZ-31 (bg) PZ-32 (bg)	-0.4113 -0.2351	- 43 -31	-3 6 -38	No	12	0	n/a	n/a n/a	0.01	NP NP
pH (SU)	PZ-32 (bg) PZ-18	-0.2331	-14	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.009125	10	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19 PZ-1D (bg)	-0.0333	-22	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.014	12	43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-25A	-0.01978	-17	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.2188	-8	-21	No	8	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	-0.001297	-4	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	-0.006728	-8	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-14	1.958	47	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-15	2.592	34	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-16	-2.14	-32	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-17	-0.8819	-7	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-0.07746	-3	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-0.9091	-21	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-1D (bg)	0.1329	22	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-23A	5.866	58	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-25	-3.585	-42	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-2D (bg)	-0.8052	-26	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-31 (bg)	-1.363	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-32 (bg)	0.03898	11	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-33	-10.95	-54	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-7D	-1.28	-13	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-15	17.51	34	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-17	-7.105	-14	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	-1.308	-3	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-11.97	-22	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	6.855	27	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-23A	15.05	44	38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-2D (bg)	16.45	20	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	-0.1691	-1	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	2.604	13	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-33	-18.86	-12	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-7D	-11.45	-20	-38	No	12	0	n/a	n/a	0.01	NP
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Upper Tolerance Limit

		Plant Mitchell Client: Southern Company		Data: Mitchell Ash Pond CCR			Printed 12/8/2020, 3:30 PM				
Constituent	<u>Well</u>	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig.	Bg N	%NDs	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	n/a	0.0035	n/a	n/a	n/a	n/a	48	54.17	n/a	0.08526	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	44	86.36	n/a	0.1047	NP Inter(NDs)
Barium (mg/L)	n/a	0.05872	n/a	n/a	n/a	n/a	48	2.083	ln(x)	0.05	Inter
Beryllium (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	36	94.44	n/a	0.1578	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	36	100	n/a	0.1578	NP Inter(NDs)
Chromium (mg/L)	n/a	0.011	n/a	n/a	n/a	n/a	48	25	n/a	0.08526	NP Inter(normality)
Cobalt (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	48	95.83	n/a	0.08526	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.783	n/a	n/a	n/a	n/a	46	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.29	n/a	n/a	n/a	n/a	52	42.31	n/a	0.06944	NP Inter(normality)
Lead (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	48	77.08	n/a	0.08526	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	48	81.25	n/a	0.08526	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	40	90	n/a	0.1285	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	48	79.17	n/a	0.08526	NP Inter(NDs)
Selenium (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	48	100	n/a	0.08526	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	48	87.5	n/a	0.08526	NP Inter(NDs)

PLANT MITC	HELL ASH PO	OND GWPS	
Constituent Name	MCL	Background Limit	GWPS
Antimony, Total (mg/L)	0.006	0.0035	0.006
Arsenic, Total (mg/L)	0.01	0.005	0.01
Barium, Total (mg/L)	2	0.059	2
Beryllium, Total (mg/L)	0.004	0.003	0.004
Cadmium, Total (mg/L)	0.005	0.0025	0.005
Chromium, Total (mg/L)	0.1	0.011	0.1
Cobalt, Total (mg/L)	n/a	0.005	0.005
Combined Radium, Total (pCi/L)	5	1.8	5
Fluoride, Total (mg/L)	4	0.29	4
Lead, Total (mg/L)	n/a	0.005	0.005
Lithium, Total (mg/L)	n/a	0.03	0.03
Mercury, Total (mg/L)	0.002	0.0005	0.002
Molybdenum, Total (mg/L)	n/a	0.01	0.01
Selenium, Total (mg/L)	0.05	0.01	0.05
Thallium, Total (mg/L)	0.002	0.001	0.002

^{*}MCL = Maximum Contaminant Level

Confidence Intervals Summary - All Results (No Significant)

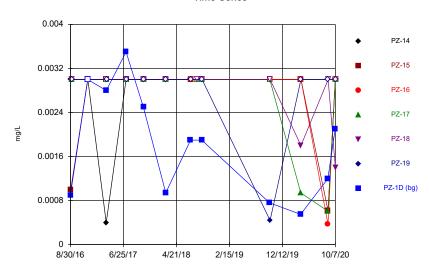
Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 4:07 PM Constituent <u>Well</u> Compliance Sig. N Mean Std. Dev. %NDs ND Adj. Transform Alpha Method Upper Lim. Lower Lim. NP (NDs) PZ-14 0.003 0.0004 12 0.002783 0.0007506 91.67 None Antimony (mg/L) No No 0.01 Antimony (mg/L) 83.33 None PZ-15 0.003 0.001 0.006 No 12 0.002635 0.0008563 No 0.01 NP (NDs) PZ-16 0.003 12 0.002781 0.0007592 NP (NDs) Antimony (ma/L) 0.00037 0.006 No 91.67 None 0.01 No Antimony (mg/L) P7-17 0.003 0.00094 0.006 No 12 0.002629 0.0008689 83.33 None No 0.01 NP (NDs) Antimony (mg/L) PZ-18 0.003 0.0018 0.006 No 12 0.002767 0.0005516 0.01 NP (NDs) 83.33 None No No Antimony (mg/L) PZ-19 0.003 0.00044 12 0.002787 0.000739 0.01 NP (NDs) 0.006 91.67 None No PZ-23A 0.003 0.00038 12 0.002782 0.0007563 NP (NDs) Antimony (mg/L) 0.006 No 91.67 None No 0.01 Antimony (mg/L) PZ-33 0.003 0.00037 0.006 No 12 0.002781 0.0007592 No 0.01 NP (NDs) 0.002335 Antimony (mg/L) PZ-7D 0.003 0.00031 0.006 No 12 0.001203 75 None Nο 0.01 NP (NDs) Barium (mg/L) PZ-14 0.03714 0.01838 2 No 0.02816 0.01364 None sqrt(x) 0.01 PZ-15 0.07246 0.04991 No 12 0.06183 Barium (mg/L) 2 0.0165 0 None In(x) 0.01 Param. PZ-16 2 No 12 0.04591 Barium (mg/L) 0.0689 0.034 0.01408 0 0.01 NP (normality) PZ-17 2 0.07719 0 Barium (mg/L) 0.08083 0.07355 No 12 0.004635 0.01 Param. None No Barium (mg/L) PZ-18 0.0513 0.023 2 No 12 0.03133 0.01488 None No NP (normality) P7-19 Barium (mg/L) 0.06019 0.0528 2 Nο 12 0.05649 0.004707 n None Nο 0.01 Param Barium (mg/L) 0.03699 2 No 0.04593 0.01139 No 0.01 None Barium (mg/L) P7-25 0.11 0.0997 2 Nο 12 0.1034 0.005199 0 None Nο 0.01 NP (normality) Barium (mg/L) PZ-33 0.07679 0.05702 2 No 11 0.06691 0.01186 0 0.01 Param. None No Barium (mg/L) P7-7D 0.01075 0.007288 2 No 12 0.009017 0.002203 0 None No 0.01 Chromium (ma/L) P7-14 0.01 0.0011 0.1 No 12 0.007782 0.004014 75 No 0.01 NP (NDs) None Chromium (mg/L) PZ-16 0.01 8000.0 0.1 Nο 12 0.006209 0.004689 58.33 None Nο 0.01 NP (NDs) Chromium (mg/L) PZ-18 0.01 12 0.009213 NP (NDs) 0.00056 0.1 No 0.002725 91.67 None No 0.01 Chromium (mg/L) PZ-19 0.01 0.00073 0.1 No 12 0.009227 0.002676 0.01 NP (NDs) 91.67 None No 0.01 0.0012 No 0.003933 0.003761 NP (normality) Chromium (mg/L) PZ-23A 0.1 12 25 None No 0.01 Chromium (mg/L) PZ-33 0.01 0.0017 0.1 No 12 0.009308 0.002396 91.67 None 0.01 NP (NDs) Chromium (ma/L) PZ-7D 0.01 0.0005 0.1 No 12 0.004875 0.004575 41.67 None 0.01 NP (normality) Nο Cobalt (mg/L) P7-14 0.005 0.002 0.005 No 12 0.004358 0.001542 0.01 NP (NDs) 83.33 None No 0.003167 Cobalt (mg/L) PZ-15 0.005 0.0004 12 0.002275 NP (NDs) 0.005 No 58.33 None 0.01 No Cobalt (mg/L) PZ-16 0.005 0.0005 12 0.004625 0.001299 NP (NDs) 0.005 No 0.01 PZ-17 0.005 12 0.002802 NP (normality) Cobalt (mg/L) 0.0005 0.005 No 0.002303 50 None No 0.01 Cobalt (mg/L) PZ-18 0.005 0.0011 0.005 No 12 0.004675 0.001126 None NP (NDs) P7-19 0.005 0.0012 Nο 0.004342 0.001539 0.01 NP (NDs) Cobalt (mg/L) 0.005 12 83.33 None Nο Cobalt (mg/L) PZ-23A 0.005 0.00058 0.005 No 0.003529 0.002175 None No 0.01 NP (NDs) Cobalt (mg/L) PZ-25 0.0018 0.0008 12 0.001496 0.001162 0.01 NP (normality) 0.005 No 8.333 None Nο Cobalt (mg/L) PZ-33 0.005 0.00053 0.005 No 12 0.003152 0.002146 50 No 0.01 NP (normality) None Combined Radium 226 + 228 (pCi/L) PZ-14 1.152 0.3085 5 No 12 0.7628 0.6096 0 None sqrt(x) 0.01 Param. Combined Radium 226 + 228 (pCi/L) PZ-15 1.172 0.6466 5 Nο 12 0.9188 0.3714 None sqrt(x) 0.01 Param. Combined Radium 226 + 228 (pCi/L) PZ-16 0.9753 0.4541 5 Nο 12 0.7147 0.3321 0 None No 0.01 Param. Combined Radium 226 + 228 (pCi/L) 1.35 5 No 0 PZ-17 0.6643 11 1.007 0.4112 0.01 Param. None No Combined Radium 226 + 228 (pCi/L) PZ-18 1.432 0.4765 5 No 10 0.9541 0.5353 0 None 0.01 Param. No Combined Radium 226 + 228 (pCi/L) PZ-19 1.473 0.7657 5 No 12 1.119 0.4508 0 0.01 Param. None No Combined Radium 226 + 228 (pCi/L) P7-23A 1.326 0.766 5 No 12 1.046 0.3565 0 None No 0.01 Param. Combined Radium 226 + 228 (pCi/L) PZ-25 1.287 0.841 5 No 12 1.064 0.2843 0 0.01 Param. No None Combined Radium 226 + 228 (pCi/L) PZ-33 1.106 0.5856 5 No 12 0.846 0.3319 0 0.01 Param. None No Combined Radium 226 + 228 (pCi/L) 12 0 PZ-7D 0.6563 0.1595 5 No 0.4285 0.3741 0.01 Param. None sart(x) PZ-14 0.11 0.05 4 No 13 0.08892 0.02636 NP (NDs) Fluoride (mg/L) None No 0.01 Fluoride (mg/L) PZ-15 0.1387 0.07074 4 No 13 0.1118 0.05007 0.01 Param. 23.08 Kaplan-Meier sqrt(x) Fluoride (mg/L) PZ-16 0.1 0.05 No 13 0.08177 0.02548 53.85 Kaplan-Meier NP (NDs) 4 0.01 Fluoride (ma/L) PZ-17 0.1562 0.05733 4 Nο 13 0.1289 0.06857 30.77 Kaplan-Meier 0.01 Param. Nο 0.05633 13 Fluoride (mg/L) PZ-18 0.1194 4 No 0.103 0.03767 Kaplan-Meier 0.01 0.1462 0.06916 4 Nο 13 0.1216 0.08232 Fluoride (mg/L) PZ-19 15.38 Kaplan-Meier In(x) 0.01 Param. Fluoride (mg/L) PZ-23A 0.101 0.04841 No 13 0.1009 0.06622 Kaplan-Meier ln(x) 0.01 Param. Fluoride (mg/L) PZ-25 0.2679 0.1614 4 Nο 13 0.2146 0.0716 0 None Nο 0.01 Param. PZ-33 No Fluoride (mg/L) 0.18 0.06 4 13 0.1076 0.04758 None NP (NDs) P7-7D 0.15 0.041 4 Nο 0.08815 0.03377 61.54 None 0.01 NP (NDs) Fluoride (ma/L) 13

Confidence Intervals Summary - All Results (No Significant)

Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 4:07 PM Constituent <u>Well</u> Compliance Sig. N Mean Std. Dev. %NDs ND Adj. Transform Alpha Method Upper Lim. Lower Lim. PZ-15 0.005 0.00005 0.005 No 12 0.004587 0.001429 91.67 None 0.01 NP (NDs) Lead (mg/L) No 0.000081 Lead (mg/L) PZ-16 0.005 0.005 No 12 0.00459 0.00142 91.67 None No 0.01 NP (NDs) PZ-18 0.005 0.00043 12 0.004206 0.001856 NP (NDs) Lead (mg/L) 0.005 No 83.33 None 0.01 No 91.67 None Lead (mg/L) PZ-19 0.005 0.000042 0.005 No 12 0.004587 0.001431 No 0.01 NP (NDs) Lead (mg/L) PZ-23A 0.005 0.00015 0.005 No 12 0.004183 0.001908 0.01 NP (NDs) 83.33 None No 83.33 None Lead (mg/L) PZ-33 0.005 0.00009 0.005 12 0.004178 0.00192 0.01 NP (NDs) No No Lithium (mg/L) PZ-14 0.03 0.003 12 0.02775 0.007794 NP (NDs) 0.03 No 91.67 None No 0.01 Lithium (mg/L) PZ-15 0.03 0.0012 0.03 No 12 0.01324 0.01479 41.67 None No 0.01 NP (normality) 0.03 Lithium (mg/L) PZ-17 0.002 0.03 No 12 0.00705 0.01073 16.67 None Nο 0.01 NP (normality) Lithium (mg/L) PZ-18 0.03 0.0024 0.03 No 0.007217 0.01064 None NP (normality) PZ-19 0.01467 12 0.01208 0 Param. Lithium (mg/L) 0.009498 0.03 No 0.003295 None Nο 0.01 PZ-23A 0.03 0.0011 12 0.02276 0.01309 NP (NDs) Lithium (mg/L) 0.03 No 75 0.01 Lithium (mg/L) 0.005958 PZ-25 0.006773 0.005229 No 12 0.001097 0 x^2 0.01 Param. 0.03 None Lithium (mg/L) PZ-7D 0.0038 0.0022 0.03 12 0.005083 0.007865 No NP (normality) P7-14 Mercury (mg/L) 0.0005 0.00015 0.002 No 10 0.000422 0.0001655 80 None Nο 0.011 NP (NDs) Mercury (mg/L) PZ-15 0.0005 0.0005 0.002 No 0.0004597 0.0001274 No 0.011 NP (NDs) None 0.011 NP (NDs) Mercury (mg/L) P7-16 0.0005 0.0005 0.002 No 10 0.0004568 0.0001366 90 None Nο No 10 Mercury (mg/L) PZ-17 0.0005 0.0005 0.002 0.0004586 0.0001309 0.011 NP (NDs) 90 None No Mercury (mg/L) PZ-18 0.0005 0.0005 0.002 No 10 0.0004557 0.0001401 90 None No 0.011 NP (NDs) Mercury (ma/L) PZ-19 0.0005 0.0001 0.002 No 10 0.0004145 0.0001807 80 No 0.011 NP (NDs) None Mercury (mg/L) PZ-23A 0.0005 0.00017 0.002 No 10 0.000426 0.0001571 80 None Nο 0.011 NP (NDs) 0.0005 0.0005 10 0.011 NP (NDs) Mercury (mg/L) PZ-25 0.002 No 0.0004553 0.0001414 90 No None Mercury (mg/L) PZ-33 0.0005 0.000043 0.002 No 10 0.0003694 0.0002111 No 0.011 NP (NDs) 70 None Mercury (mg/L) 0.0005 0.00006 0.0004113 0.000187 0.011 NP (NDs) PZ-7D 0.002 No 10 80 None No Molybdenum (mg/L) PZ-14 0.01 0.0005 0.01 No 0.009208 0.002742 91.67 None No 0.01 NP (NDs) Molybdenum (mg/L) PZ-15 0.01 0.0004 0.01 No 12 0.0092 0.002771 91.67 None 0.01 NP (NDs) Nο Molybdenum (mg/L) PZ-16 0.01 0.0004 0.01 No 12 0.0092 0.002771 91.67 None 0.01 NP (NDs) No 0.002771 PZ-17 0.01 0.0004 12 0.0092 NP (NDs) Molybdenum (mg/L) 0.01 No 91.67 None 0.01 No Molybdenum (mg/L) PZ-19 0.0027 0.002 12 0.002883 0.002252 NP (normality) 0.01 8.333 None 0.01 PZ-23A 0.01 0.0011 12 0.008475 0.003563 NP (NDs) Molybdenum (mg/L) 0.01 No 83.33 None No 0.01 Molybdenum (mg/L) PZ-25 0.01 0.001 0.01 No 12 0.00925 0.002598 91.67 None NP (NDs) P7-14 0.01 0.0015 Nο 0.008558 0.003368 0.01 NP (NDs) Selenium (mg/L) 0.05 12 83.33 None Nο Selenium (mg/L) PZ-15 0.01 0.0018 0.05 No 0.009317 0.002367 91.67 None No NP (NDs) PZ-19 0.01 0.0016 No 12 0.006925 0.003847 0.01 NP (NDs) Selenium (mg/L) 0.05 58.33 None Nο Selenium (mg/L) PZ-23A 0.01 0.0018 0.05 No 12 0.006792 0.003986 58.33 None No 0.01 NP (NDs) Selenium (mg/L) PZ-7D 0.01 0.0018 0.05 No 12 0.008625 0.003211 83.33 None Nο 0.01 NP (NDs) Thallium (mg/L) PZ-14 0.001 0.00006 0.002 No 12 0.0009217 0.0002714 91.67 None No 0.01 NP (NDs) Thallium (mg/L) PZ-15 0.001 0.00016 0.002 No 12 0.0007325 0.0003963 66.67 None No 0.01 NP (NDs) 0.001 0.00017 NP (normality) Thallium (mg/L) PZ-16 0.002 No 12 0.0005836 0.0004366 No 0.01 50 None Thallium (mg/L) PZ-17 0.001 0.0002 0.002 No 0.0007358 0.0003907 66.67 None No 0.01 NP (NDs) Thallium (mg/L) PZ-18 0.001 0.00005 0.002 No 0.0007634 0.000428 0.01 NP (NDs) 75 None No Thallium (mg/L) PZ-19 0.0007625 0.0004325 0.002 No 12 0.0005975 0.0002103 8.333 None No 0.01 Thallium (mg/L) PZ-23A 0.001 0.00015 0.002 No 12 0.0004625 0.0004001 0.01 NP (normality) 33.33 None No Thallium (mg/L) PZ-25 0.001 0.00027 0.002 No 12 0.0007708 0.0003403 66.67 None No 0.01 NP (NDs) PZ-33 NP (NDs) Thallium (mg/L) 0.001 0.0001 0.002 No 12 0.0006358 0.0004506 0.01 58.33 None No Thallium (mg/L) PZ-7D 0.001 0.000085 0.002 12 0.0006303 0.0004579 58.33 None 0.01 NP (NDs)

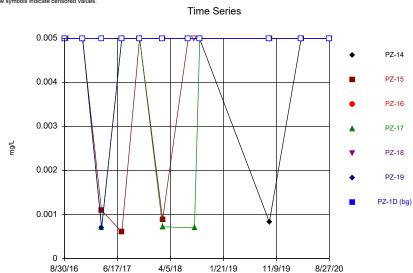
FIGURE A.





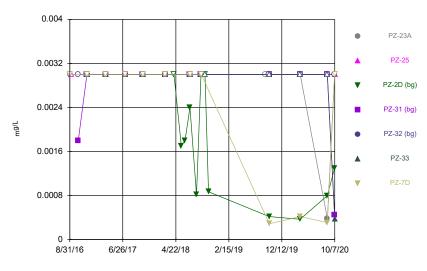
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG Hollow symbols indicate censored values



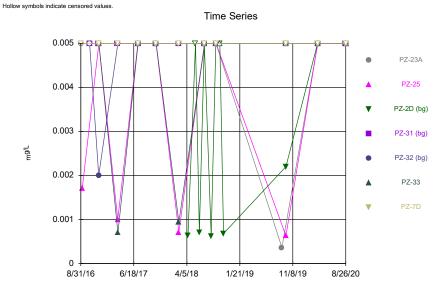
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



Constituent: Antimony Analysis Run 12/8/2020 1:34 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

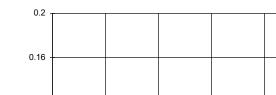


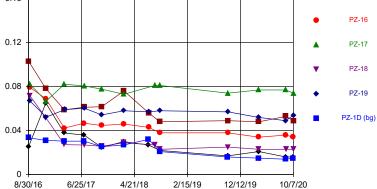
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

mg/L

PZ-14

PZ-15

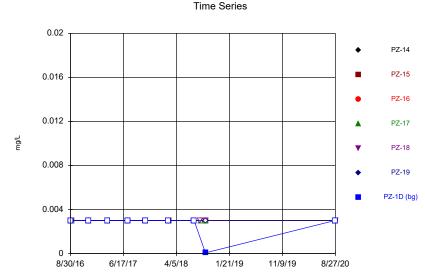




Time Series

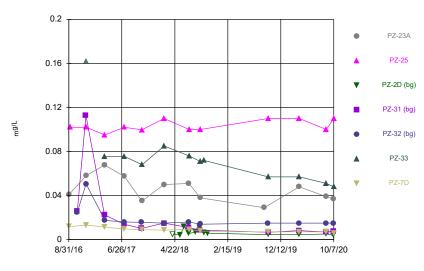
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG Hollow symbols indicate censored values.



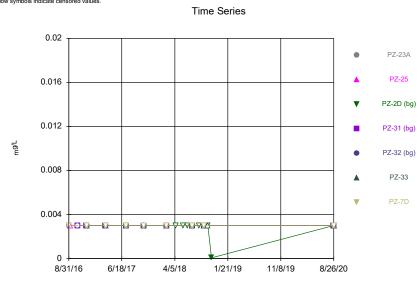
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR





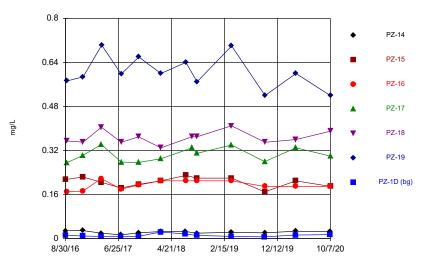
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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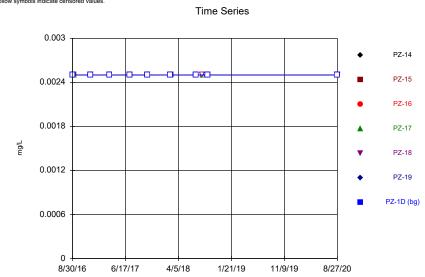
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR





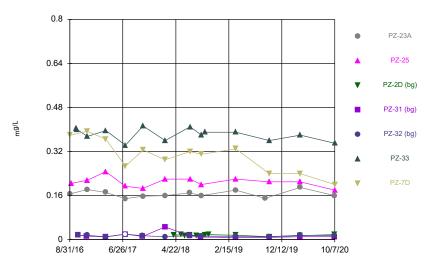
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG Hollow symbols indicate censored values



Constituent: Cadmium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

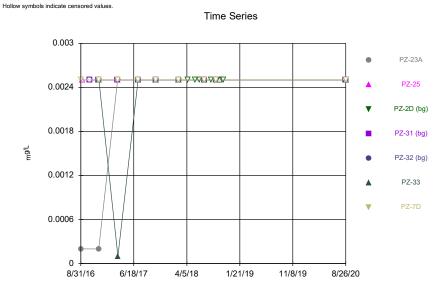
Time Series



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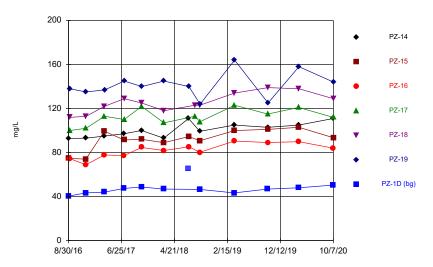
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

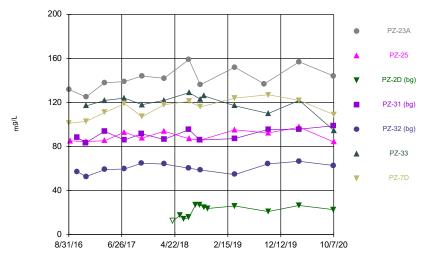


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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR





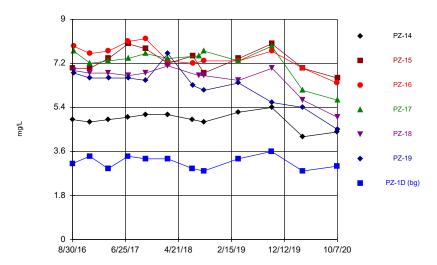
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Calcium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

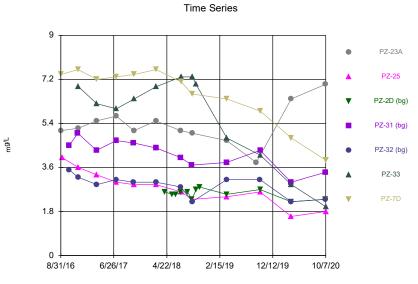
Sanitas™ v.9.6.27 . UG

Time Series



Constituent: Chloride Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

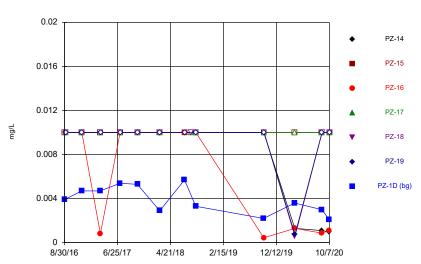
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Constituent: Chloride Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

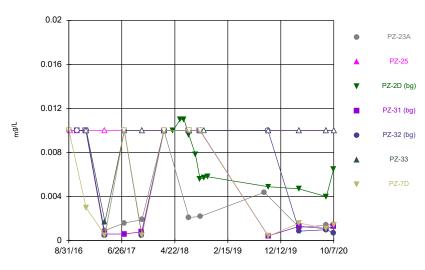
Sanitas™ v.9.6.27 . UG Hollow symbols indicate censored values





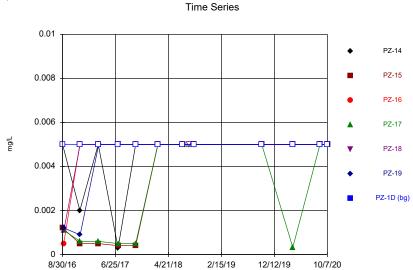
Constituent: Chromium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Time Series



Constituent: Chromium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

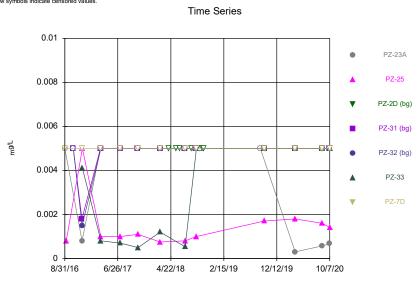
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Constituent: Cobalt Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

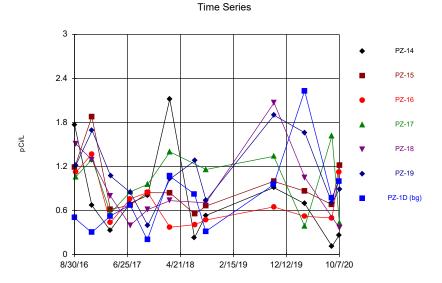
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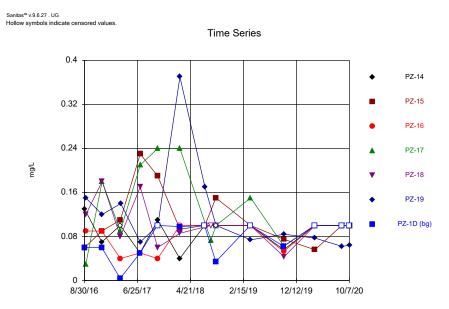
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

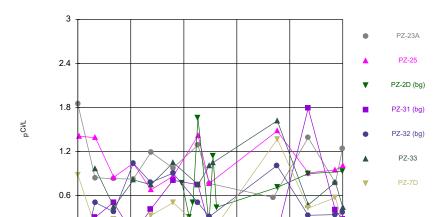
Sanitas™ v.9.6.27 . UG



Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Fluoride Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Time Series

Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

4/22/18

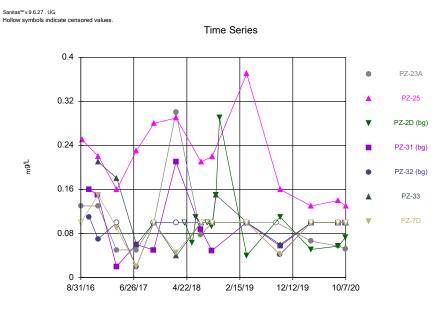
2/15/19

12/12/19

10/7/20

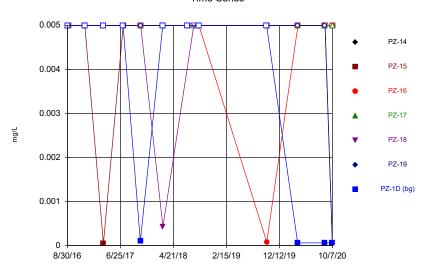
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6/26/17



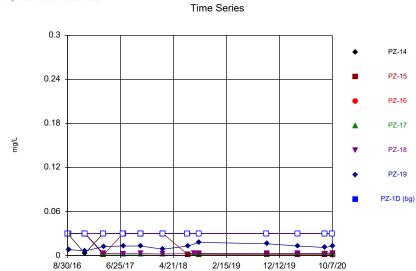
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR





Constituent: Lead Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

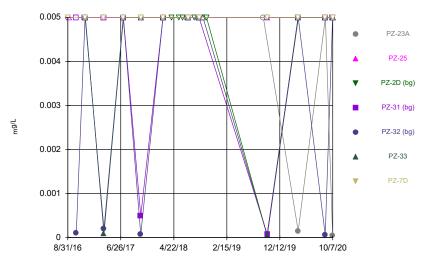
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Constituent: Lithium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV

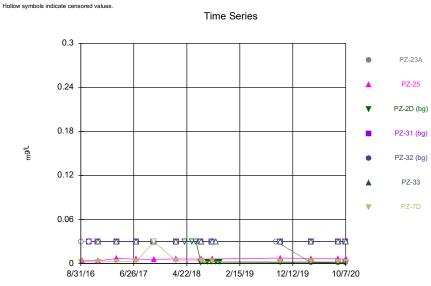
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Time Series

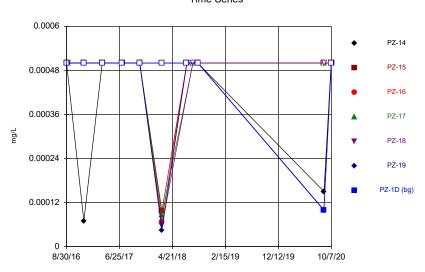


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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

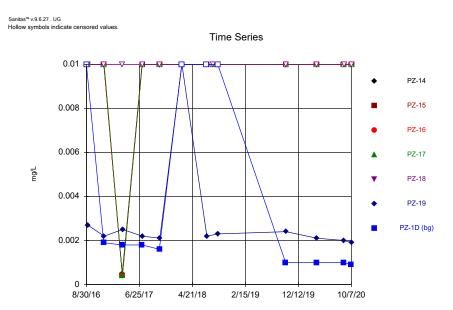
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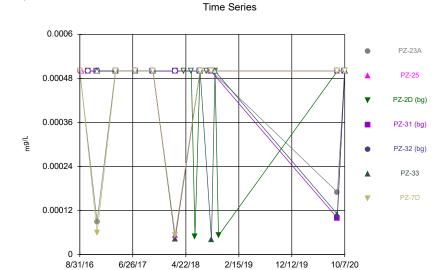
Constituent: Lithium Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



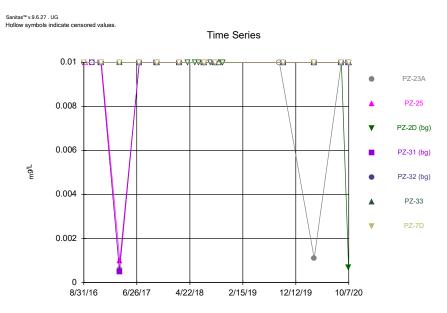
Constituent: Mercury Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Molybdenum Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

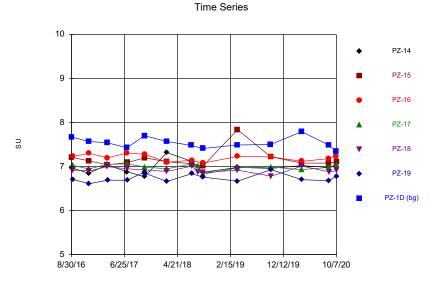


Constituent: Mercury Analysis Run 12/8/2020 1:35 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

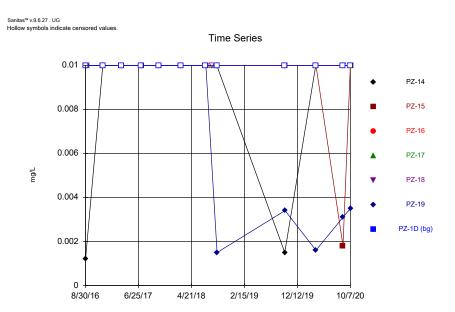


Constituent: Molybdenum Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

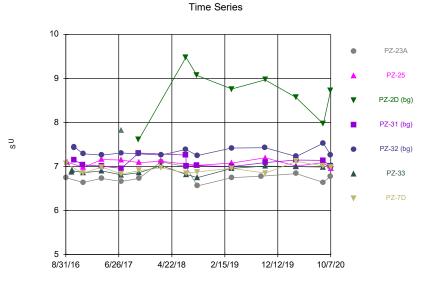
Sanitas™ v.9.6.27 . UG



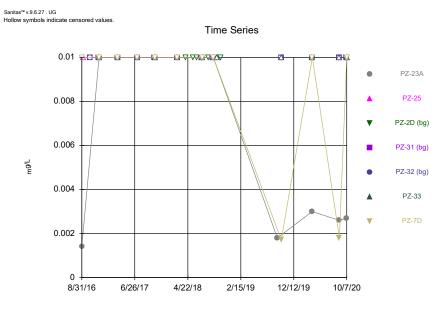
Constituent: pH Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Selenium Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

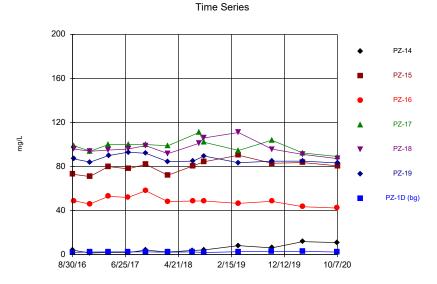


Constituent: pH Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

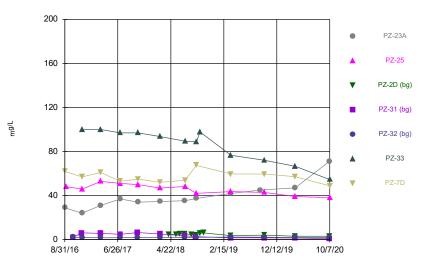


Constituent: Selenium Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG Sanitas™ v.9.6.27 . UG



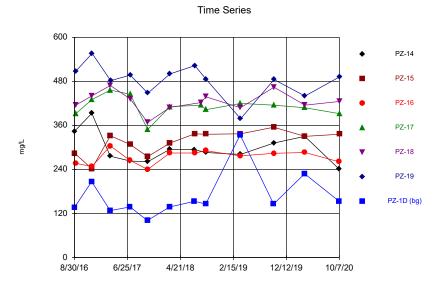
Constituent: Sulfate Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Time Series

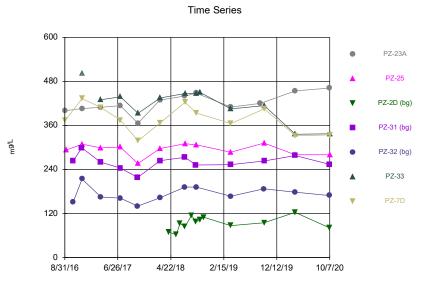
Constituent: Sulfate Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



Constituent: TDS Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

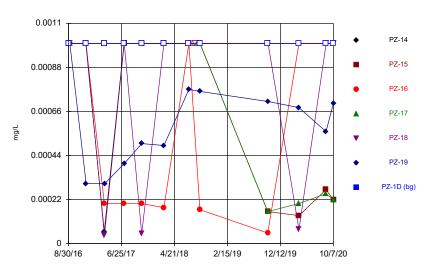
Sanitas™ v.9.6.27 . UG



Constituent: TDS Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

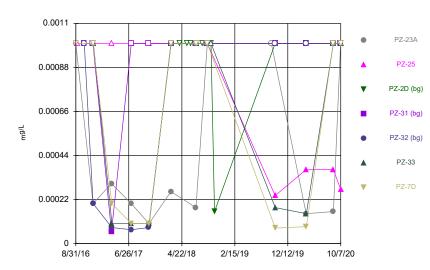
Time Series



Constituent: Thallium Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG
Hollow symbols indicate censored values

Time Series



Constituent: Thallium Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Constituent: Antimony (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV 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)
8/30/2016							0.0009 (J)
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	
12/6/2016							<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)						0.0028 (J)
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
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		
10/19/2017						<0.003	
2/20/2018	<0.003						0.00094 (J)
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003	
7/11/2018	<0.003						0.0019 (J)
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		
9/14/2018				<0.003		<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)			
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	
8/27/2020					<0.003		
10/6/2020	<0.003		<0.003				0.0021 (J)
10/7/2020		<0.003		<0.003	0.0014 (J)	<0.003	

Constituent: Antimony (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.003						
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		<0.003
12/8/2016		<0.003				<0.003	
3/21/2017	<0.003			<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	<0.003		
7/12/2017						<0.003	<0.003
10/17/2017				<0.003	<0.003		
10/18/2017	<0.003	<0.003					
10/19/2017						<0.003	<0.003
2/20/2018	<0.003			<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	<0.003		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		<0.003
9/14/2018						<0.003	
10/4/2018			<0.003			<0.003	
10/24/2018			0.00087 (J)				
9/10/2019	<0.003						
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	<0.003		
3/26/2020						<0.003	0.00042 (J)
8/25/2020				<0.003	<0.003		
8/26/2020	0.00038 (J)	<0.003	0.0008 (J)			<0.003	0.00031 (J)
10/6/2020	<0.003		0.0013 (J)	0.00045 (J)	<0.003		
10/7/2020		<0.003				0.00037 (J)	<0.003

Constituent: Arsenic (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV 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)
8/30/2016							<0.005
8/31/2016	<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				
12/8/2016				<0.005	<0.005	<0.005	
3/21/2017	<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
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		
10/19/2017						<0.005	
2/20/2018	<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
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		
9/14/2018				<0.005		<0.005	
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			
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	
8/27/2020					<0.005		

Constituent: Arsenic (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.005						
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	<0.005				0.002 (J)		<0.005
12/8/2016		<0.005				<0.005	
3/21/2017	<0.005			<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	<0.005		
7/12/2017						<0.005	<0.005
10/17/2017				<0.005	<0.005		
10/18/2017	<0.005	<0.005					
10/19/2017						<0.005	<0.005
2/20/2018	<0.005			<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	<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		<0.005
9/14/2018						<0.005	
10/4/2018			<0.005			<0.005	
10/24/2018			0.00068 (J)				
9/10/2019	0.00036 (X)						
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	<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	<0.005

Constituent: Barium (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV 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)
8/30/2016							0.0335
8/31/2016	0.0253						
9/1/2016		0.103					
9/6/2016			0.0794				
9/7/2016				0.0823	0.0717	0.067	
12/6/2016							0.0311
12/7/2016	0.065	0.0781	0.0689				
12/8/2016				0.0668	0.0513	0.0522	
3/21/2017	0.0379						0.0305
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
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		
10/19/2017						0.0542	
2/20/2018	0.03						0.027
2/21/2018		0.076	0.046	0.073	0.029	0.058	
7/11/2018	0.027						0.032
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		
9/14/2018				0.081		0.058	
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			
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	
8/27/2020					0.023		
10/6/2020	0.016		0.034				0.015
10/7/2020		0.049		0.074	0.023	0.054	

Constituent: Barium (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	0.0407						
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	0.0581				0.0506		0.0133
12/8/2016		0.102				0.162 (o)	
3/21/2017	0.0678			0.0226			
3/22/2017		0.0951					0.0114
3/23/2017					0.0175	0.0753	
7/11/2017	0.0574	0.102		0.0139	0.0161		
7/12/2017						0.0756	0.0097 (J)
10/17/2017				0.0103	0.0158		
10/18/2017	0.0351	0.0997					
10/19/2017						0.0681	0.0091 (J)
2/20/2018	0.05			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	0.051		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	0.038	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)				
9/10/2019	0.029						
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	0.048	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	0.039	0.1	0.0051 (J)			0.051	0.007 (J)
10/6/2020	0.037		0.0039 (J)	0.0075 (J)	0.015		
10/7/2020		0.11				0.048	0.0061 (J)

Constituent: Beryllium (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV 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)
8/30/2016							<0.003
8/31/2016	<0.003						
9/1/2016		<0.003					
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				
12/8/2016				<0.003	<0.003	<0.003	
3/21/2017	<0.003						<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				<0.003
7/12/2017		<0.003		<0.003	<0.003	<0.003	
10/17/2017							<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						<0.003
2/21/2018		<0.003	<0.003	<0.003	<0.003	<0.003	
7/11/2018	<0.003						<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						6.1E-05 (J)
9/13/2018		<0.003	<0.003		<0.003		
9/14/2018				<0.003		<0.003	
8/25/2020							<0.003
8/26/2020	<0.003	<0.003	<0.003	<0.003		<0.003	
8/27/2020					<0.003		

Constituent: Beryllium (mg/L) Analysis Run 12/8/2020 1:36 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.003						
9/1/2016							<0.003
9/8/2016		<0.003					
10/18/2016				<0.003	<0.003		
12/6/2016				<0.003			
12/7/2016	<0.003				<0.003		<0.003
12/8/2016		<0.003				<0.003	
3/21/2017	<0.003			<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	<0.003		
7/12/2017						<0.003	<0.003
10/17/2017				<0.003	<0.003		
10/18/2017	<0.003	<0.003					
10/19/2017						<0.003	<0.003
2/20/2018	<0.003			<0.003	<0.003		
2/21/2018		<0.003				<0.003	<0.003
4/12/2018			<0.003				
5/23/2018			<0.003				
6/13/2018			<0.003				
7/11/2018	<0.003		<0.003	<0.003	<0.003		
7/12/2018		<0.003				<0.003	<0.003
8/17/2018			<0.003				
9/12/2018			<0.003	<0.003			
9/13/2018	<0.003	<0.003			<0.003		<0.003
9/14/2018						<0.003	
10/4/2018			<0.003			<0.003	
10/24/2018			6E-05 (J)				
8/25/2020				<0.003	<0.003		
8/26/2020	<0.003	<0.003	<0.003			<0.003	<0.003

Constituent: Boron (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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)
8/30/2016							0.0132 (J)
8/31/2016	0.0285 (J)						
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				
12/8/2016				0.303	0.351	0.588	
3/21/2017	0.0198 (J)						0.0082 (J)
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)
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		
10/19/2017						0.66	
2/20/2018	0.026 (J)						0.024 (J)
2/21/2018		0.21	0.21	0.29	0.33	0.6	
7/11/2018	0.026 (J)						0.017 (J)
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		
9/14/2018				0.31		0.57	
3/26/2019							0.0082
3/27/2019	0.023		0.21		0.41		
3/28/2019		0.22		0.34		0.7	
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			
3/26/2020		0.21	0.19		0.36	0.6	
10/6/2020	0.026 (J)		0.19				0.015 (J)
10/7/2020		0.19		0.3	0.39	0.52	

Constituent: Boron (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	0.166						
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	0.182				0.0157 (J)		0.394
12/8/2016		0.216				0.375	
3/21/2017	0.172			0.0103 (J)			
3/22/2017		0.247					0.365
3/23/2017					0.0103 (J)	0.396	
7/11/2017	0.149	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	0.158	0.186					
10/19/2017						0.413	0.326
2/20/2018	0.16			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	0.17		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	0.16	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	0.18	0.22	0.016		0.012		
3/28/2019						0.39	0.33
9/10/2019	0.15						
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	0.19	0.21		0.011 (J)	0.016 (J)		
3/26/2020						0.38	0.24
10/6/2020	0.16		0.018 (J)	0.011 (J)	0.015 (J)		
10/7/2020		0.18				0.35	0.2

Constituent: Cadmium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV 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)
8/30/2016							<0.0025
8/31/2016	<0.0025						
9/1/2016		<0.0025					
9/6/2016			<0.0025				
9/7/2016				<0.0025	<0.0025	<0.0025	
12/6/2016							<0.0025
12/7/2016	<0.0025	<0.0025	<0.0025				
12/8/2016				<0.0025	<0.0025	<0.0025	
3/21/2017	<0.0025						<0.0025
3/22/2017		<0.0025	<0.0025	<0.0025	<0.0025		
3/23/2017						<0.0025	
7/11/2017	<0.0025		<0.0025				<0.0025
7/12/2017		<0.0025		<0.0025	<0.0025	<0.0025	
10/17/2017							<0.0025
10/18/2017	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025		
10/19/2017						<0.0025	
2/20/2018	<0.0025						<0.0025
2/21/2018		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
7/11/2018	<0.0025						<0.0025
7/12/2018		<0.0025	<0.0025			<0.0025	
8/15/2018					<0.0025		
8/16/2018				<0.0025			
9/12/2018	<0.0025						<0.0025
9/13/2018		<0.0025	<0.0025		<0.0025		
9/14/2018				<0.0025		<0.0025	
8/25/2020							<0.0025
8/26/2020	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	
8/27/2020					<0.0025		

Constituent: Cadmium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	0.0002 (J)						
9/1/2016							<0.0025
9/8/2016		<0.0025					
10/18/2016				<0.0025	<0.0025		
12/6/2016				<0.0025			
12/7/2016	0.0002 (J)				<0.0025		<0.0025
12/8/2016		<0.0025				<0.0025	
3/21/2017	<0.0025			<0.0025			
3/22/2017		<0.0025					<0.0025
3/23/2017					<0.0025	0.0001 (J)	
7/11/2017	<0.0025	<0.0025		<0.0025	<0.0025		
7/12/2017						<0.0025	<0.0025
10/17/2017				<0.0025	<0.0025		
10/18/2017	<0.0025	<0.0025					
10/19/2017						<0.0025	<0.0025
2/20/2018	<0.0025			<0.0025	<0.0025		
2/21/2018		<0.0025				<0.0025	<0.0025
4/12/2018			<0.0025				
5/23/2018			<0.0025				
6/13/2018			<0.0025				
7/11/2018	<0.0025		<0.0025	<0.0025	<0.0025		
7/12/2018		<0.0025				<0.0025	<0.0025
8/17/2018			<0.0025				
9/12/2018			<0.0025	<0.0025			
9/13/2018	<0.0025	<0.0025			<0.0025		<0.0025
9/14/2018						<0.0025	
10/4/2018			<0.0025			<0.0025	
10/24/2018			<0.0025				
8/25/2020				<0.0025	<0.0025		
8/26/2020	<0.0025	<0.0025	<0.0025			<0.0025	<0.0025

Constituent: Calcium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV 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)
8/30/2016							40.4
8/31/2016	92.9						
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				
12/8/2016				102	113	135	
3/21/2017	95						44.1
3/22/2017		99.3	77.8	113	122		
3/23/2017						137	
7/11/2017	97.1		77.3				47.4
7/12/2017		91.4		110	129	145	
10/17/2017							48.7
10/18/2017	100	92	84.7	122	125		
10/19/2017						140	
2/20/2018	93.1						46.8
2/21/2018		89	81.8	107	118	145	
7/11/2018	111						65.3 (o)
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		
9/14/2018				108		124	
3/26/2019							43.3
3/27/2019	105		90.5		134		
3/28/2019		100		123		164	
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			
3/26/2020		103	89.8		138	158	
10/6/2020	111		84				50.5
10/7/2020		93.5		112	129	144	

Constituent: Calcium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

					,			
	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	
8/31/2016	132							
9/1/2016							101	
9/8/2016		85.2						
10/18/2016				88.3	57.2			
12/6/2016				83.4				
12/7/2016	125				52.8		103	
12/8/2016		84.5				117		
3/21/2017	138			94				
3/22/2017		85.3					111	
3/23/2017					59.1	122		
7/11/2017	139	93		86	59.7			
7/12/2017						124	119	
10/17/2017				91.6	64.9			
10/18/2017	144	87.6						
10/19/2017						118	107	
2/20/2018	142			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	159		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	136	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	152	95.2	26.1		54.6			
3/28/2019						117	124	
9/10/2019	137							
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	157	97.5		95.8	66.6			
3/26/2020						122	122	
10/6/2020	144		22.7	98.8	62.8			
10/7/2020		84.2				94.7	109	

Constituent: Chloride (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV 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)
8/30/2016							3.1
8/31/2016	4.9						
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				
12/8/2016				7.2	6.8	6.6	
3/21/2017	4.9						2.9
3/22/2017		7.4	7.7	7.3	6.8		
3/23/2017						6.6	
7/11/2017	5		8.1				3.4
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		
10/19/2017						6.5	
2/20/2018	5.1						3.3
2/21/2018		7.2	7.3	7.4	7.1	7.6	
7/11/2018	4.9						2.9
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		
9/14/2018				7.7		6.1	
3/26/2019							3.3
3/27/2019	5.2		7.3		6.5		
3/28/2019		7.4		7.3		6.4	
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			
3/26/2020		7	7		5.7	5.4	
10/6/2020	4.4		6.4				3
10/7/2020		6.6		5.7	5	4.5	

Constituent: Chloride (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	5.1						
9/1/2016							7.4
9/8/2016		4					
10/18/2016				4.5	3.5		
12/6/2016				5			
12/7/2016	5.2				3.2		7.6
12/8/2016		3.6				6.9	
3/21/2017	5.5			4.3			
3/22/2017		3.3					7.2
3/23/2017					2.9	6.2	
7/11/2017	5.7	3		4.7	3.1		
7/12/2017						6	7.3
10/17/2017				4.6	3		
10/18/2017	5.1	2.9					
10/19/2017					_	6.4	7.4
2/20/2018	5.5			4.4	3	0.0	7.0
2/21/2018		2.9	0.0			6.9	7.6
4/12/2018			2.6				
5/23/2018 6/13/2018			2.5 2.5				
7/11/2018	5.1		2.6	4	2.8		
7/12/2018	5.1	2.6	2.0	4	2.0	7.3	7.1
8/17/2018		2.0	2.6			7.5	7.1
9/12/2018			2.3	3.7			
9/13/2018	5	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	4.7	2.4	2.5		3.1		
3/28/2019						4.8	6.4
9/10/2019	3.8						
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	6.4	1.6		3	2.2		
3/26/2020						2.9	4.8
10/6/2020	7		2.3	3.4	2.3		
10/7/2020		1.8				2	3.9

Constituent: Chromium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							0.0039 (J)
8/31/2016	<0.01						
9/1/2016		<0.01					
9/6/2016			<0.01				
9/7/2016				<0.01	<0.01	<0.01	
12/6/2016							0.0047 (J)
12/7/2016	<0.01	<0.01	<0.01				
12/8/2016				<0.01	<0.01	<0.01	
3/21/2017	<0.01						0.0047 (J)
3/22/2017		<0.01	0.0008 (J)	<0.01	<0.01		
3/23/2017						<0.01	
7/11/2017	<0.01		<0.01				0.0054 (J)
7/12/2017		<0.01		<0.01	<0.01	<0.01	
10/17/2017							0.0053 (J)
10/18/2017	<0.01	<0.01	<0.01	<0.01	<0.01		
10/19/2017						<0.01	
2/20/2018	<0.01						0.0029 (J)
2/21/2018		<0.01	<0.01	<0.01	<0.01	<0.01	
7/11/2018	<0.01						0.0057 (J)
7/12/2018		<0.01	<0.01			<0.01	
8/15/2018					<0.01		
8/16/2018				<0.01			
9/12/2018	<0.01						0.0033 (J)
9/13/2018		<0.01	<0.01		<0.01		
9/14/2018				<0.01		<0.01	
10/1/2019							0.0022 (X)
10/2/2019	<0.01	<0.01	0.00044 (X)	<0.01			
10/3/2019					<0.01	<0.01	
3/24/2020							0.0036 (J)
3/25/2020	0.0013 (J)			<0.01			
3/26/2020		<0.01	0.0013 (J)		0.00056 (J)	0.00073 (J)	
8/25/2020							0.003 (J)
8/26/2020	0.0011 (J)	<0.01	0.00087 (J)	<0.01		<0.01	
8/27/2020					<0.01		
10/6/2020	0.00098 (J)		0.0011 (J)				0.0021 (J)
10/7/2020		<0.01		<0.01	<0.01	<0.01	

Constituent: Chromium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

					,			
	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	
8/31/2016	<0.01							
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		0.003 (J)	
12/8/2016		<0.01				<0.01		
3/21/2017	0.0009 (J)			0.0006 (J)				
3/22/2017		<0.01					0.0005 (J)	
3/23/2017					0.0005 (J)	0.0017 (J)		
7/11/2017	0.0016 (J)	<0.01		0.0006 (J)	<0.01			
7/12/2017						<0.01	<0.01	
10/17/2017				0.0008 (J)	0.0005 (J)			
10/18/2017	0.0019 (J)	<0.01						
10/19/2017						<0.01	0.0005 (J)	
2/20/2018	<0.01			<0.01	<0.01			
2/21/2018		<0.01				<0.01	<0.01	
4/12/2018			0.01					
5/23/2018			0.011					
6/13/2018			0.011					
7/11/2018	0.0021 (J)		0.0096 (J)	<0.01	<0.01			
7/12/2018		<0.01				<0.01	<0.01	
8/17/2018			0.0078 (J)					
9/12/2018			0.0056 (J)	<0.01				
9/13/2018	0.0022 (J)	<0.01			<0.01		<0.01	
9/14/2018						<0.01		
10/4/2018			0.0057 (J)			<0.01		
10/24/2018			0.0058 (J)					
9/10/2019	0.0044 (X)							
10/1/2019					<0.01			
10/2/2019		<0.01	0.0049 (X)	0.00043 (X)				
10/3/2019						<0.01	0.0004 (X)	
3/24/2020			0.0047 (J)					
3/25/2020	0.0012 (J)	<0.01		0.0013 (J)	0.00086 (J)			
3/26/2020						<0.01	0.0016 (J)	
8/25/2020				0.0011 (J)	0.001 (J)			
8/26/2020	0.0014 (J)	<0.01	0.004 (J)			<0.01	0.0011 (J)	
10/6/2020	0.0015 (J)		0.0065 (J)	0.0013 (J)	0.00072 (J)			
10/7/2020		<0.01				<0.01	0.0014 (J)	

Constituent: Cobalt (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV 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)
8/30/2016							<0.005
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)	
12/6/2016							<0.005
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						<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
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		
10/19/2017						<0.005	
2/20/2018	<0.005						<0.005
2/21/2018		<0.005	<0.005	<0.005	<0.005	<0.005	
7/11/2018	<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		
9/14/2018				<0.005		<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)			
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	
8/27/2020					<0.005		
10/6/2020	<0.005		<0.005				<0.005
10/7/2020		<0.005		<0.005	<0.005	<0.005	

Constituent: Cobalt (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.005						
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	0.0008 (J)				0.0015 (J)		<0.005
12/8/2016		<0.005				0.0041 (J)	
3/21/2017	<0.005			<0.005			
3/22/2017		0.001 (J)					<0.005
3/23/2017					<0.005	0.0008 (J)	
7/11/2017	<0.005	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	<0.005	0.0011 (J)					
10/19/2017						0.0005 (J)	<0.005
2/20/2018	<0.005			<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	<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	<0.005	0.001 (J)			<0.005		<0.005
9/14/2018						<0.005	
10/4/2018			<0.005			<0.005	
10/24/2018			<0.005				
9/10/2019	<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	0.0003 (J)	0.0018 (J)		<0.005	<0.005		
3/26/2020						<0.005	<0.005
8/25/2020				<0.005	<0.005		
8/26/2020	0.00058 (J)	0.0016 (J)	<0.005			<0.005	<0.005
10/6/2020	0.00067 (J)		<0.005	<0.005	<0.005		
10/7/2020		0.0014 (J)				<0.005	<0.005

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							0.503 (U)
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	
12/6/2016							0.302 (U)
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)						0.526 (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)
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)		
10/19/2017						0.398 (U)	
2/20/2018	2.12						1.07 (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)
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)		
9/14/2018				1.16		0.74 (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)			
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)	
10/6/2020	0.265 (U)		1.12 (U)				0.996 (U)
10/7/2020		1.22 (U)		0.432 (U)	0.365 (U)	0.893	

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	1.85						
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	0.844 (U)				0.507 (U)		0.179 (U)
12/8/2016		1.39				0.968 (U)	
3/21/2017	0.832 (U)			0.506 (U)			
3/22/2017		0.852 (U)					0.279 (U)
3/23/2017					0.378 (U)	0.444 (U)	
7/11/2017	0.824 (U)	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	1.19	0.678 (U)					
10/19/2017						0.748 (U)	0.329 (U)
2/20/2018	0.975 (U)			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	1.29		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	0.765 (U)	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)				
9/10/2019	0.575 (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	1.39	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	0.774 (U)	0.95 (U)				0.782 (U)	0.572 (U)
10/6/2020	1.24 (U)		0.929 (U)	0.276 (U)	0.371 (U)		
10/7/2020		1.01 (U)				0.442 (U)	0.232 (U)

Constituent: Fluoride (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV 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)
8/30/2016							0.06 (J)
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)	
12/6/2016							0.06 (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						0.004 (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)
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)		
10/19/2017						<0.1	
2/20/2018	0.04 (J)						0.098 (J)
2/21/2018		0.093 (J)	<0.1	0.24 (J)	0.086 (J)	0.37	
7/11/2018	<0.1						<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						0.034 (J)
9/13/2018		0.15 (J)	<0.1		<0.1		
9/14/2018				<0.1		<0.1	
3/26/2019							<0.1
3/27/2019	<0.1		<0.1		<0.1		
3/28/2019		0.1		0.15		0.074	
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			
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)	
8/27/2020					<0.1		
10/6/2020	<0.1		<0.1				<0.1
10/7/2020		<0.1		<0.1	<0.1	0.064 (J)	

Constituent: Fluoride (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	0.13 (J)						
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	0.13 (J)				0.07 (J)		0.15 (J)
12/8/2016		0.22 (J)				0.21 (J)	
3/21/2017	0.05 (J)			0.02 (J)			
3/22/2017		0.16 (J)					0.09 (J)
3/23/2017					<0.1	0.18 (J)	
7/11/2017	0.05 (J)	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	<0.1	0.28 (J)					
10/19/2017						<0.1	<0.1
2/20/2018	0.3 (J)			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	0.077 (J)		<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	<0.1	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	<0.1	0.37	0.04		<0.1		
3/28/2019						<0.1	<0.1
9/10/2019	<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	0.066 (J)	0.13 (J)		<0.1	<0.1		
3/26/2020						<0.1	<0.1
8/25/2020				<0.1	<0.1		
8/26/2020	0.057 (J)	0.14	0.057 (J)			<0.1	<0.1
10/6/2020	0.052 (J)		0.073 (J)	<0.1	<0.1		
10/7/2020		0.13				<0.1	<0.1

Constituent: Lead (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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)
8/30/2016							<0.005
8/31/2016	<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				
12/8/2016				<0.005	<0.005	<0.005	
3/21/2017	<0.005						<0.005
3/22/2017		5E-05 (J)	<0.005	<0.005	<0.005		
3/23/2017						<0.005	
7/11/2017	<0.005		<0.005				<0.005
7/12/2017		<0.005		<0.005	<0.005	<0.005	
10/17/2017							0.0001 (J)
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		<0.005	<0.005	<0.005	0.00043 (J)	<0.005	
7/11/2018	<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		
9/14/2018				<0.005		<0.005	
10/1/2019							<0.005
10/2/2019	<0.005	<0.005	8.1E-05 (X)	<0.005			
10/3/2019					<0.005	<0.005	
3/24/2020							6.2E-05 (J)
3/25/2020	<0.005			<0.005			
3/26/2020		<0.005	<0.005		<0.005	<0.005	
8/25/2020							6.5E-05 (J)
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				6.6E-05 (J)
10/7/2020		<0.005		<0.005	4.2E-05 (J)	4.2E-05 (J)	

Constituent: Lead (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.005						
9/1/2016							<0.005
9/8/2016		<0.005					
10/18/2016				<0.005	0.0001 (J)		
12/6/2016				<0.005			
12/7/2016	<0.005				<0.005		<0.005
12/8/2016		<0.005				<0.005	
3/21/2017	<0.005			<0.005			
3/22/2017		<0.005					<0.005
3/23/2017					0.0002 (J)	9E-05 (J)	
7/11/2017	<0.005	<0.005		<0.005	<0.005		
7/12/2017						<0.005	<0.005
10/17/2017				0.0005 (J)	7E-05 (J)		
10/18/2017	<0.005	<0.005					
10/19/2017						<0.005	<0.005
2/20/2018	<0.005			<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	<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		<0.005
9/14/2018						<0.005	
10/4/2018			<0.005			<0.005	
10/24/2018			<0.005				
9/10/2019	<0.005						
10/1/2019					<0.005		
10/2/2019		<0.005	4.7E-05 (X)	8.1E-05 (X)			
10/3/2019						4.7E-05 (X)	<0.005
3/24/2020			<0.005				
3/25/2020	0.00015 (J)	<0.005		<0.005	<0.005		
3/26/2020						<0.005	<0.005
8/25/2020				<0.005	6.3E-05 (J)		
8/26/2020	<0.005	<0.005	<0.005			<0.005	<0.005
10/6/2020	4.7E-05 (J)		<0.005	<0.005	<0.005		
10/7/2020		<0.005				<0.005	<0.005

Constituent: Lithium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.03
8/31/2016	<0.03						
9/1/2016		<0.03					
9/6/2016			<0.03				
9/7/2016				<0.03	<0.03	0.0082 (J)	
12/6/2016							<0.03
12/7/2016	0.003 (J)	<0.03	<0.03				
12/8/2016				<0.03	<0.03	0.0061 (J)	
3/21/2017	<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
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)		
10/19/2017						0.013 (J)	
2/20/2018	<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
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)		
9/14/2018				0.0025 (J)		0.018 (J)	
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)			
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)	
8/27/2020					0.0025 (J)		
10/6/2020	<0.03		<0.03				<0.03
10/7/2020		0.0013 (J)		0.0029 (J)	0.003 (J)	0.013 (J)	
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Constituent: Lithium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.03						
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				<0.03		0.0023 (J)
12/8/2016		0.0038 (J)				<0.03	
3/21/2017	<0.03			<0.03			
3/22/2017		0.0068 (J)					0.0025 (J)
3/23/2017					<0.03	<0.03	
7/11/2017	<0.03	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	<0.03	0.0057 (J)					
10/19/2017						<0.03	<0.03
2/20/2018	<0.03			<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	<0.03		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	<0.03	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)				
9/10/2019	<0.03						
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	0.0011 (J)	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	0.0011 (J)	0.0065 (J)	0.0015 (J)			<0.03	0.0023 (J)
10/6/2020	0.00097 (J)		0.00099 (J)	<0.03	<0.03		
10/7/2020		0.0063 (J)				<0.03	0.0023 (J)

Constituent: Mercury (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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)
8/30/2016							<0.0005
8/31/2016	<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	7E-05 (J)	<0.0005	<0.0005				
12/8/2016				<0.0005	<0.0005	<0.0005	
3/21/2017	<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
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		
10/19/2017						<0.0005	
2/20/2018	<0.0005						<0.0005
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	<0.0005						<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		
9/14/2018				<0.0005		<0.0005	
8/25/2020							9.9E-05 (J)
8/26/2020	0.00015 (J)	<0.0005	<0.0005	<0.0005		0.0001 (J)	
8/27/2020					<0.0005		
10/6/2020	<0.0005		<0.0005				<0.0005
10/7/2020		<0.0005		<0.0005	<0.0005	<0.0005	

Constituent: Mercury (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.0005						
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	9E-05 (J)				<0.0005		6E-05 (J)
12/8/2016		<0.0005				<0.0005	
3/21/2017	<0.0005			<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	<0.0005		
7/12/2017						<0.0005	<0.0005
10/17/2017				<0.0005	<0.0005		
10/18/2017	<0.0005	<0.0005					
10/19/2017						<0.0005	<0.0005
2/20/2018	<0.0005			<0.0005	<0.0005		
2/21/2018		5.3E-05 (J)				4.3E-05 (J)	5.3E-05 (J)
4/12/2018			<0.0005				
5/23/2018			<0.0005				
6/13/2018			4.9E-05 (J)				
7/11/2018	<0.0005		<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		<0.0005
9/14/2018						4.1E-05 (J)	
10/4/2018			<0.0005			<0.0005	
10/24/2018			5.2E-05 (J)				
8/25/2020				0.0001 (J)	<0.0005		
8/26/2020	0.00017 (J)	<0.0005	<0.0005			0.00011 (J)	<0.0005
10/6/2020	<0.0005		<0.0005	<0.0005	<0.0005		
10/7/2020		<0.0005				<0.0005	<0.0005

Constituent: Molybdenum (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV 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)
8/30/2016							<0.01
8/31/2016	<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				
12/8/2016				<0.01	<0.01	0.0022 (J)	
3/21/2017	0.0005 (J)						0.0018 (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)
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		
10/19/2017						0.0021 (J)	
2/20/2018	<0.01						<0.01
2/21/2018		<0.01	<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)	
8/15/2018					<0.01		
8/16/2018				<0.01			
9/12/2018	<0.01						<0.01
9/13/2018		<0.01	<0.01		<0.01		
9/14/2018				<0.01		0.0023 (J)	
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			
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)	
8/27/2020					<0.01		
10/6/2020	<0.01		<0.01				0.0009 (J)
10/7/2020		<0.01		<0.01	<0.01	0.0019 (J)	

Constituent: Molybdenum (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.01						
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		<0.01
12/8/2016		<0.01				<0.01	
3/21/2017	0.0006 (J)			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	<0.01		
7/12/2017						<0.01	<0.01
10/17/2017				<0.01	<0.01		
10/18/2017	<0.01	<0.01					
10/19/2017						<0.01	<0.01
2/20/2018	<0.01			<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	<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		<0.01
9/14/2018						<0.01	
10/4/2018			<0.01			<0.01	
10/24/2018			<0.01				
9/10/2019	<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	0.0011 (J)	<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	<0.01
10/6/2020	<0.01		0.00069 (J)	<0.01	<0.01		
10/7/2020		<0.01				<0.01	<0.01

Constituent: pH (SU) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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)
8/30/2016							7.67
8/31/2016	6.97						
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				
12/8/2016				6.95	6.9	6.61	
3/21/2017	7.04						7.54
3/22/2017		7.04	7.2	7.05	7		
3/23/2017						6.69	
7/11/2017	6.88		7.31				7.43
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	
10/19/2017						6.85	
2/20/2018	7.32 (D)						7.57
2/21/2018		7.11	7.1	6.95	6.89	6.66	
7/11/2018	7.12						7.48
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		
9/14/2018				6.83		6.76	
3/26/2019							7.49
3/27/2019	6.98		7.23		6.92		
3/28/2019		7.84		6.97		6.67	
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			
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	
8/27/2020					6.88		
10/6/2020	7.01		7.24				7.35
10/7/2020		7.11		7.04	6.91	6.78	

Constituent: pH (SU) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	
8/31/2016	6.75							
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	6.64				7.29		6.85	
12/8/2016		6.98				6.86		
3/21/2017	6.73			7.01				
3/22/2017		7.16					6.99	
3/23/2017					7.26	6.9		
7/11/2017	6.66	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	6.73	7.09						
10/19/2017						6.86	6.91	
2/20/2018	7.11				7.26			
2/21/2018		7.12				7.02	6.97	
7/11/2018	7		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	6.56	7.03			7.25		6.88	
9/14/2018						6.75		
3/26/2019				7				
3/27/2019	6.75	7.08	8.76		7.42			
3/28/2019						6.96	6.96	
9/10/2019	6.78							
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	6.84	7.01		7.15	7.23			
3/26/2020						7	7.12	
8/25/2020				7.14	7.53			
8/26/2020	6.64	7.09	7.97			6.99	7.01	
10/6/2020	6.78		8.72	7.01	7.27			
10/7/2020		6.95				7.04	6.98	

Constituent: Selenium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV 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)
8/30/2016							<0.01
8/31/2016	0.0012 (J)						
9/1/2016		<0.01					
9/6/2016			<0.01				
9/7/2016				<0.01	<0.01	<0.01	
12/6/2016							<0.01
12/7/2016	<0.01	<0.01	<0.01				
12/8/2016				<0.01	<0.01	<0.01	
3/21/2017	<0.01						<0.01
3/22/2017		<0.01	<0.01	<0.01	<0.01		
3/23/2017						<0.01	
7/11/2017	<0.01		<0.01				<0.01
7/12/2017		<0.01		<0.01	<0.01	<0.01	
10/17/2017							<0.01
10/18/2017	<0.01	<0.01	<0.01	<0.01	<0.01		
10/19/2017						<0.01	
2/20/2018	<0.01						<0.01
2/21/2018		<0.01	<0.01	<0.01	<0.01	<0.01	
7/11/2018	<0.01						<0.01
7/12/2018		<0.01	<0.01			<0.01	
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		
9/14/2018				<0.01		0.0015 (J)	
10/1/2019							<0.01
10/2/2019	0.0015 (X)	<0.01	<0.01	<0.01			
10/3/2019					<0.01	0.0034 (X)	
3/24/2020							<0.01
3/25/2020	<0.01			<0.01			
3/26/2020		<0.01	<0.01		<0.01	0.0016 (J)	
8/25/2020							<0.01
8/26/2020	<0.01	0.0018 (J)	<0.01	<0.01		0.0031 (J)	
8/27/2020					<0.01		
10/6/2020	<0.01		<0.01				<0.01
10/7/2020		<0.01		<0.01	<0.01	0.0035 (J)	

Constituent: Selenium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D	
8/31/2016	0.0014 (J)							
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		<0.01	
12/8/2016		<0.01				<0.01		
3/21/2017	<0.01			<0.01				
3/22/2017		<0.01					<0.01	
3/23/2017					<0.01	<0.01		
7/11/2017	<0.01	<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	<0.01						
10/19/2017						<0.01	<0.01	
2/20/2018	<0.01			<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	<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		<0.01	
9/14/2018						<0.01		
10/4/2018			<0.01			<0.01		
10/24/2018			<0.01					
9/10/2019	0.0018 (X)							
10/1/2019					<0.01			
10/2/2019		<0.01	<0.01	<0.01				
10/3/2019						<0.01	0.0017 (X)	
3/24/2020			<0.01					
3/25/2020	0.003 (J)	<0.01		<0.01	<0.01			
3/26/2020						<0.01	<0.01	
8/25/2020				<0.01	<0.01			
8/26/2020	0.0026 (J)	<0.01	<0.01			<0.01	0.0018 (J)	
10/6/2020	0.0027 (J)		<0.01	<0.01	<0.01			
10/7/2020		<0.01				<0.01	<0.01	

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV 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)
8/30/2016							2.1
8/31/2016	4.1						
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				
12/8/2016				94	94	84	
3/21/2017	2						2.5
3/22/2017		80	53	100	95		
3/23/2017						90	
7/11/2017	2		52				2.6
7/12/2017		78		100	96	93	
10/17/2017							2.5
10/18/2017	4.2	82	58	100	99		
10/19/2017						92	
2/20/2018	2.4						2.3
2/21/2018		72.2	48.2	98.8	91.8	84.5	
7/11/2018	3.8						2.5
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		
9/14/2018				102		89.5	
3/26/2019							2.7
3/27/2019	8.2		46.5		111		
3/28/2019		90.3		94.7		83.5	
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			
3/26/2020		83.6	43.5		91	84.9	
10/6/2020	11		42.4				2.4
10/7/2020		80.7		89.1	87.3	83.3	

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	29						
9/1/2016							62
9/8/2016		48					
10/18/2016				2.2	2.3		
12/6/2016				6.1			
12/7/2016	24				1.9		57
12/8/2016		46				100	
3/21/2017	31			5.7			
3/22/2017		53					61
3/23/2017					1.7	100	
7/11/2017	37	51		4.8	1.8		
7/12/2017						97	53
10/17/2017				6.4	1.9		
10/18/2017	34	50					
10/19/2017						97	55
2/20/2018	34.7			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	35.4		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	37.4	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	41.9	43.7	3.7		2.4		
3/28/2019						76.7	59.6
9/10/2019	45.1						
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	47	39.1		1.5	1.9		
3/26/2020						66.6	57.1
10/6/2020	71.2		3.1	0.98 (J)	1.9		
10/7/2020		38.1				54.6	48.9

Constituent: TDS (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
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)
8/30/2016							136
8/31/2016	344						
9/1/2016		284					
9/6/2016			257				
9/7/2016				392	415	508	
12/6/2016							207
12/7/2016	393	242	248				
12/8/2016				431	441	556	
3/21/2017	276						128
3/22/2017		332	304	456	469		
3/23/2017						482	
7/11/2017	263		265				138
7/12/2017		308		445	432	497	
10/17/2017							101
10/18/2017	261	275	240	349	368		
10/19/2017						448	
2/20/2018	295						138
2/21/2018		312	285	411	409	500	
7/11/2018	294						153
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		
9/14/2018				403		486	
3/26/2019							334
3/27/2019	281		277		408		
3/28/2019		337		420		378	
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			
3/26/2020		330	286		415	440	
10/6/2020	241		261				153
10/7/2020		336		392	425	492	

Constituent: TDS (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	400						
9/1/2016							373
9/8/2016		293					
10/18/2016				264	152		
12/6/2016				299			
12/7/2016	406				214		433
12/8/2016		309				503 (o)	
3/21/2017	409			260			
3/22/2017		299					409
3/23/2017					165	430	
7/11/2017	414	301		244	162		
7/12/2017						438	374
10/17/2017				218	140		
10/18/2017	366	256					
10/19/2017						393	318
2/20/2018	429			264	163		
2/21/2018		297				435	367
4/12/2018			69				
5/23/2018			62				
6/13/2018			93				
7/11/2018	440		84	273	192		
7/12/2018		310				447	423
8/17/2018			115				
9/12/2018			97	252			
9/13/2018	448	307			192		394
9/14/2018						447	
10/4/2018			103			450	
10/24/2018			110				
3/26/2019				253			
3/27/2019	410	287	87		167		
3/28/2019						405	365
9/10/2019	420						
10/1/2019					187		
10/2/2019		312	95	263			
10/3/2019						414	405
3/24/2020			123				
3/25/2020	454	280		278	178		
3/26/2020						336	332
10/6/2020	462		81	254	169		
10/7/2020		280				337	334

Constituent: Thallium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

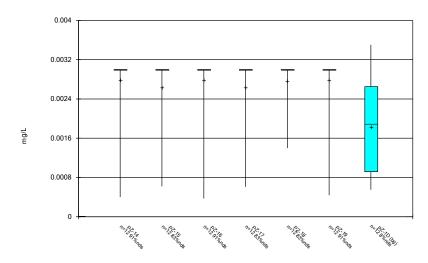
	PZ-14	PZ-15	PZ-16	PZ-17	PZ-18	PZ-19	PZ-1D (bg)
8/30/2016							<0.001
8/31/2016	<0.001						
9/1/2016		<0.001					
9/6/2016			<0.001				
9/7/2016				<0.001	<0.001	<0.001	
12/6/2016							<0.001
12/7/2016	<0.001	<0.001	<0.001				
12/8/2016				<0.001	<0.001	0.0003 (J)	
3/21/2017	6E-05 (J)						<0.001
3/22/2017		<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
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)		
10/19/2017						0.0005 (J)	
2/20/2018	<0.001						<0.001
2/21/2018		<0.001	0.00018 (J)	<0.001	<0.001	0.00049 (J)	
7/11/2018	<0.001						<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						<0.001
9/13/2018		<0.001	0.00017 (J)		<0.001		
9/14/2018				<0.001		0.00076 (J)	
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)			
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)	
8/27/2020					<0.001		
10/6/2020	<0.001		<0.001				<0.001
10/7/2020		0.00022 (J)		0.00022 (J)	<0.001	0.0007 (J)	

Constituent: Thallium (mg/L) Analysis Run 12/8/2020 1:37 PM View: Appendix III and IV Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	PZ-23A	PZ-25	PZ-2D (bg)	PZ-31 (bg)	PZ-32 (bg)	PZ-33	PZ-7D
8/31/2016	<0.001						
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)				0.0002 (J)		<0.001
12/8/2016		<0.001				<0.001	
3/21/2017	0.0003 (J)			6E-05 (J)			
3/22/2017		<0.001					0.0002 (J)
3/23/2017					8E-05 (J)	0.0001 (J)	
7/11/2017	0.0002 (J)	<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	0.0001 (J)	<0.001					
10/19/2017						0.0001 (J)	0.0001 (J)
2/20/2018	0.00026 (J)			<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	0.00018 (J)		<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		<0.001
9/14/2018						<0.001	
10/4/2018			<0.001			<0.001	
10/24/2018			0.00016 (J)				
9/10/2019	<0.001						
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	0.00015 (J)	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	0.00016 (J)	0.00037 (J)	<0.001			<0.001	<0.001
10/6/2020	<0.001		<0.001	<0.001	<0.001		
10/7/2020		0.00027 (J)				<0.001	<0.001

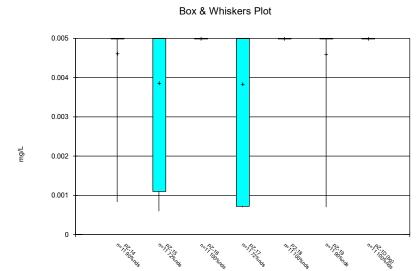
FIGURE B.

Box & Whiskers Plot



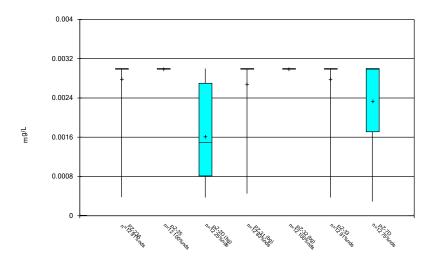
Constituent: Antimony Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



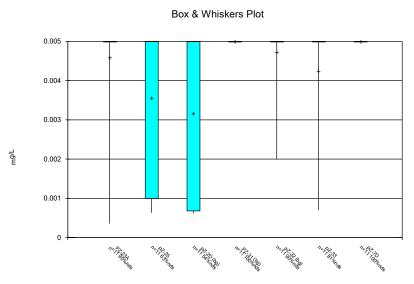
Constituent: Arsenic Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



Constituent: Antimony Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

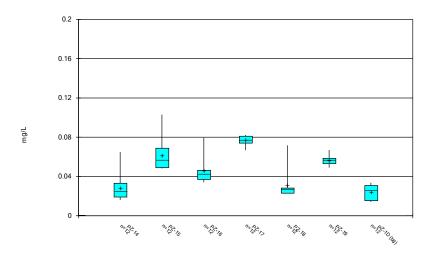
Sanitas™ v.9.6.27 . UG



Constituent: Arsenic Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

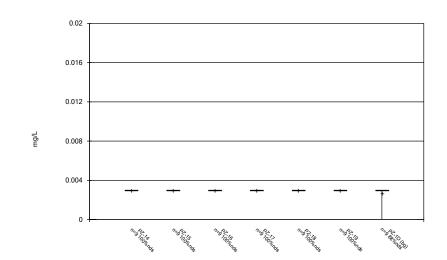
Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



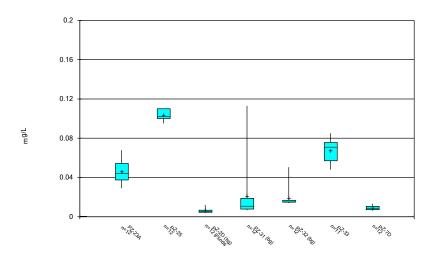
Constituent: Barium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

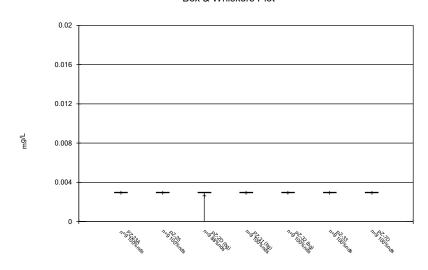
Box & Whiskers Plot



Constituent: Barium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

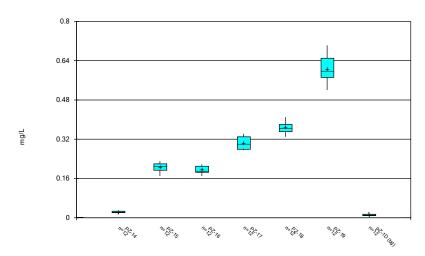
Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

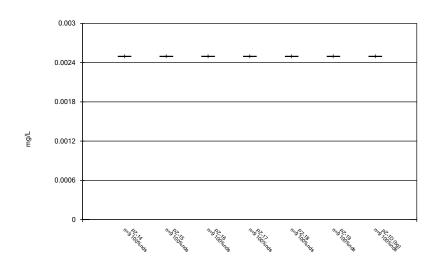
Box & Whiskers Plot



Constituent: Boron Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

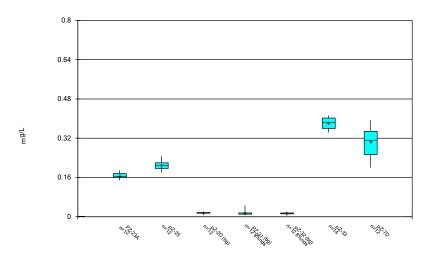
Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

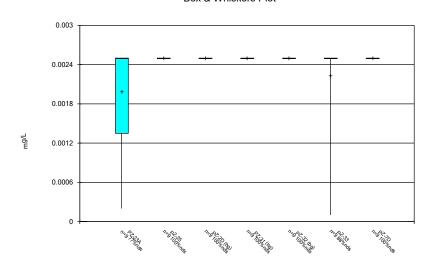
Box & Whiskers Plot



Constituent: Boron Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

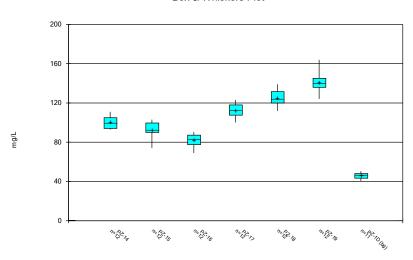
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

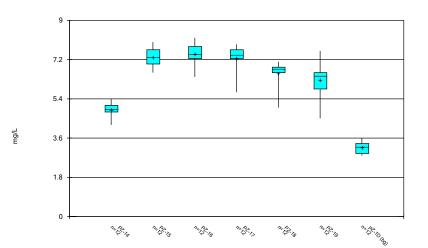
Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



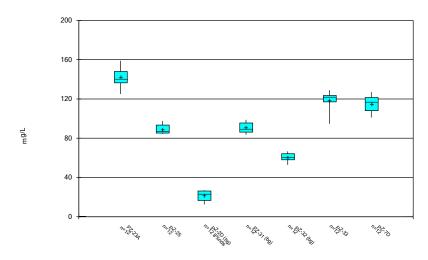
Constituent: Calcium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



Constituent: Chloride Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

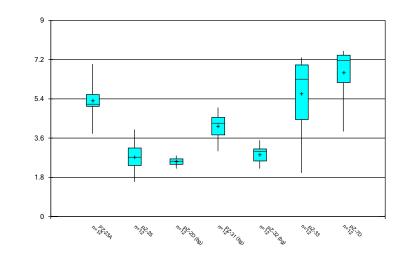
Box & Whiskers Plot



Constituent: Calcium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

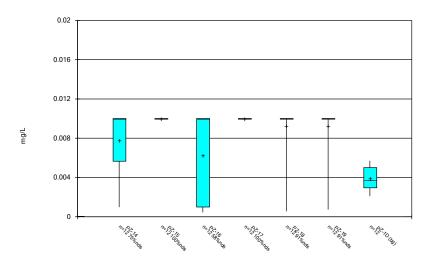
Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



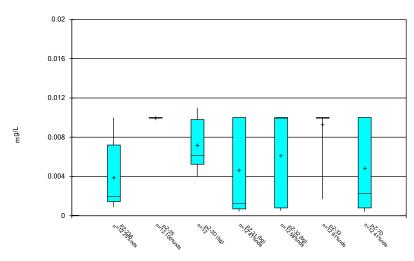
Constituent: Chloride Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



Constituent: Chromium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

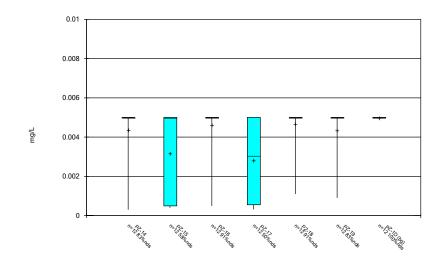
Box & Whiskers Plot



Constituent: Chromium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot

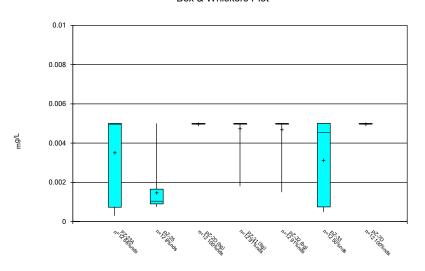


Constituent: Cobalt Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

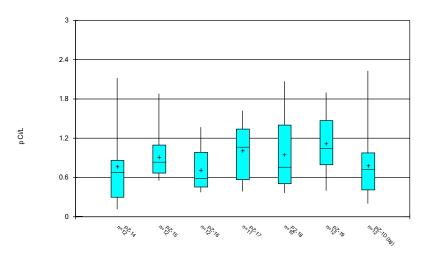
Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



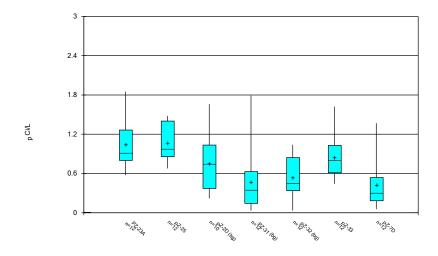
Constituent: Cobalt Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

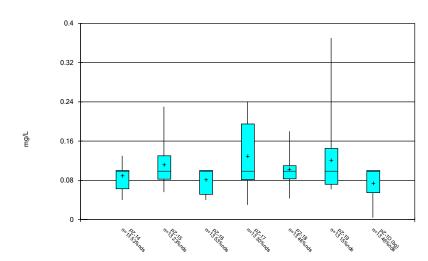
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

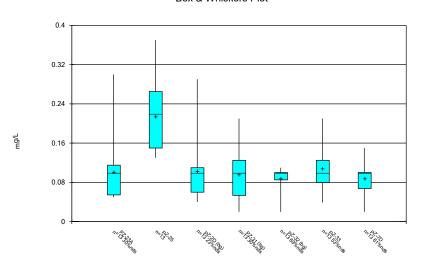
Box & Whiskers Plot



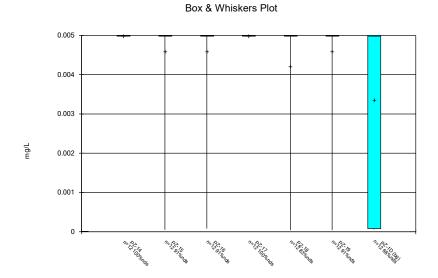
Constituent: Fluoride Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

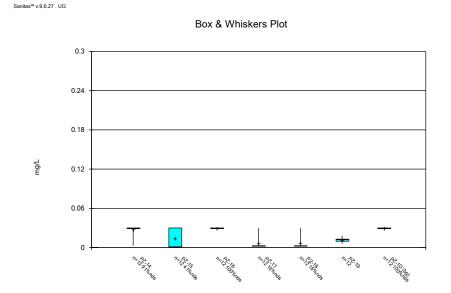
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

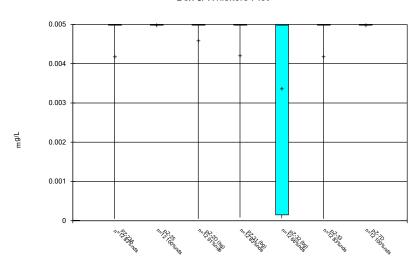


Constituent: Lead Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Lithium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



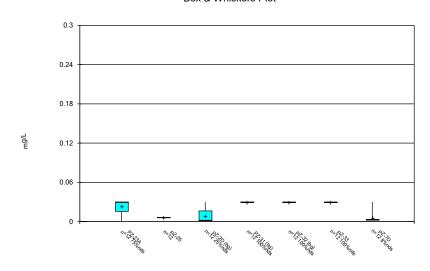


Constituent: Lead Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

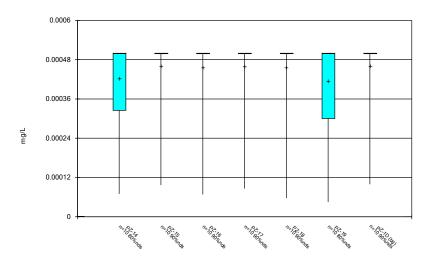
Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



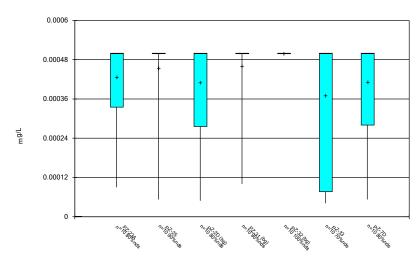
Constituent: Lithium Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



Constituent: Mercury Analysis Run 12/8/2020 1:38 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

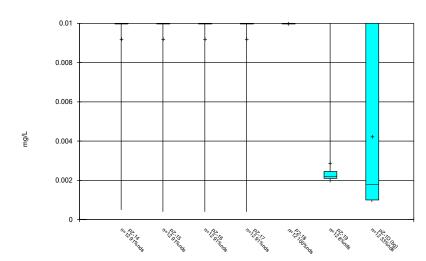
Box & Whiskers Plot



Constituent: Mercury Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

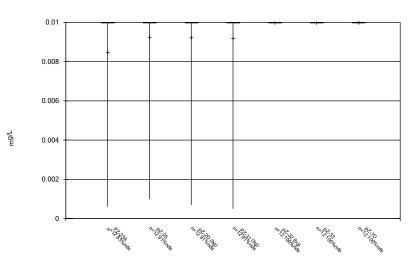
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

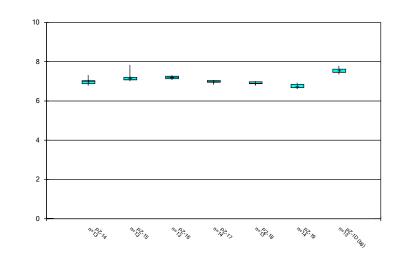
Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



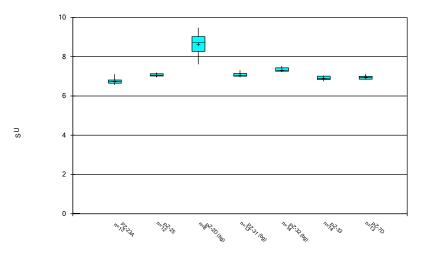
Constituent: Molybdenum Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



Constituent: pH Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

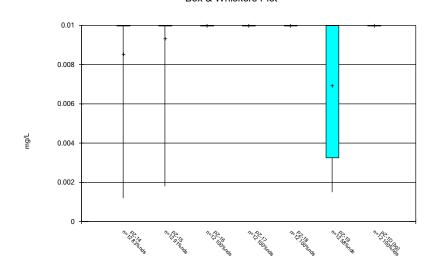
Box & Whiskers Plot



Constituent: pH Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

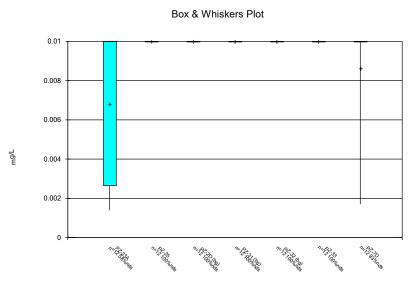
Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



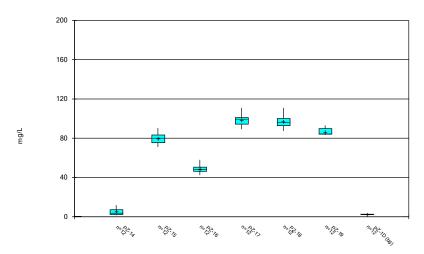
Constituent: Selenium Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



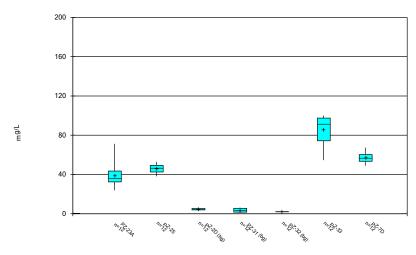
Constituent: Selenium Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Box & Whiskers Plot



Constituent: Sulfate Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

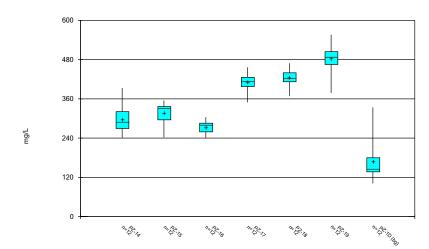
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

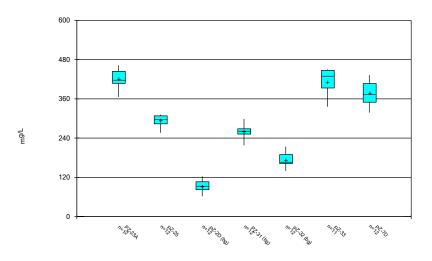
Box & Whiskers Plot



Constituent: TDS Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

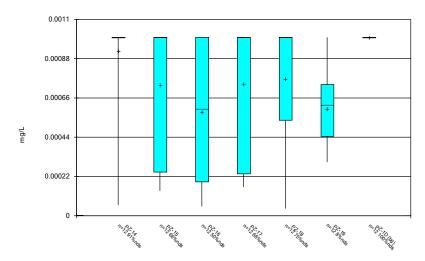
Box & Whiskers Plot



Constituent: TDS Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

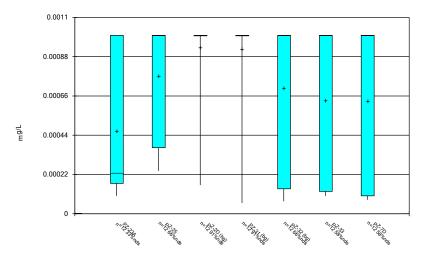




Constituent: Thallium Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Box & Whiskers Plot



Constituent: Thallium Analysis Run 12/8/2020 1:39 PM View: Appendix III and IV
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 12/8/2020, 2:13 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.

Interwell Predicition Limit - Significant Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 1:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Boron (mg/L)	PZ-15	0.02691	n/a	10/7/2020	0.19	Yes	48	4.167	None	In(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02691	n/a	10/6/2020	0.19	Yes	48	4.167	None	In(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02691	n/a	10/7/2020	0.3	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02691	n/a	10/7/2020	0.39	Yes	48	4.167	None	In(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02691	n/a	10/7/2020	0.52	Yes	48	4.167	None	In(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02691	n/a	10/6/2020	0.16	Yes	48	4.167	None	In(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02691	n/a	10/7/2020	0.18	Yes	48	4.167	None	In(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02691	n/a	10/7/2020	0.35	Yes	48	4.167	None	In(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02691	n/a	10/7/2020	0.2	Yes	48	4.167	None	In(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	119.9	n/a	10/7/2020	129	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	119.9	n/a	10/7/2020	144	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	119.9	n/a	10/6/2020	144	Yes	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-15	4.705	n/a	10/7/2020	6.6	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-16	4.705	n/a	10/6/2020	6.4	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-17	4.705	n/a	10/7/2020	5.7	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.705	n/a	10/7/2020	5	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.705	n/a	10/6/2020	7	Yes	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
pH (SU)	PZ-18	9.48	6.96	10/7/2020	6.91	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	10/7/2020	6.78	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	10/6/2020	6.78	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-25	9.48	6.96	10/7/2020	6.95	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	7.172	n/a	10/6/2020	11	Yes	48	0	None	In(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	7.172	n/a	10/7/2020	80.7	Yes	48	0	None	In(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	7.172	n/a	10/6/2020	42.4	Yes	48	0	None	In(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	7.172	n/a	10/7/2020	89.1	Yes	48	0	None	In(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	7.172	n/a	10/7/2020	87.3	Yes	48	0	None	In(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	7.172	n/a	10/7/2020	83.3	Yes	48	0	None	In(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	7.172	n/a	10/6/2020	71.2	Yes	48	0	None	In(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	7.172	n/a	10/7/2020	38.1	Yes	48	0	None	In(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-33	7.172	n/a	10/7/2020	54.6	Yes	48	0	None	In(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-7D	7.172	n/a	10/7/2020	48.9	Yes	48	0	None	In(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-15	314	n/a	10/7/2020	336	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	314	n/a	10/7/2020	392	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	314	n/a	10/7/2020	425	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	314	n/a	10/7/2020	492	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	314	n/a	10/6/2020	462	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-33	314	n/a	10/7/2020	337	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	314	n/a	10/7/2020	334	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2

Interwell Predicition Limit - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 1:43 PM

		Plant M	itchell Client:	Southern Co	mpany	Data: M	tchell A	Ish Pond	CCR Pr	nted 12/8/20	20, 1:43 PM	
Constituent	Well	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig.	Bg N	%NDs	ND Adj.	Transform	<u>Alpha</u>	Method
Boron (mg/L)	PZ-14	0.02691	n/a	10/6/2020	0.026J	No	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-15	0.02691	n/a	10/7/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-16	0.02691	n/a	10/6/2020	0.19	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-17	0.02691	n/a	10/7/2020	0.3	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-18	0.02691	n/a	10/7/2020	0.39	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-19	0.02691	n/a	10/7/2020	0.52	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-23A	0.02691	n/a	10/6/2020	0.16	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-25	0.02691	n/a	10/7/2020	0.18	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-33	0.02691	n/a	10/7/2020	0.35	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Boron (mg/L)	PZ-7D	0.02691	n/a	10/7/2020	0.2	Yes	48	4.167	None	ln(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-14	119.9	n/a	10/6/2020	111	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-15	119.9	n/a	10/7/2020	93.5	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-16	119.9	n/a	10/6/2020	84	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-17	119.9	n/a	10/7/2020	112	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-18	119.9	n/a	10/7/2020	129	Yes		2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-19	119.9	n/a	10/7/2020	144	Yes		2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-23A	119.9	n/a	10/6/2020	144	Yes		2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L)	PZ-25	119.9	n/a	10/7/2020	84.2	No	47	2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Calcium (mg/L) Calcium (mg/L)	PZ-33	119.9	n/a	10/7/2020	94.7	No	47	2.128 2.128	None	sqrt(x)	0.0007523	Param Inter 1 of 2 Param Inter 1 of 2
, ,	PZ-7D PZ-14	119.9 4.705	n/a	10/7/2020 10/6/2020	109 4.4	No No	47 48	0	None	sqrt(x)	0.0007523 0.0007523	
Chloride (mg/L)			n/a n/a		6.6	No Yes		0	None	sqrt(x)	0.0007523	Param Inter 1 of 2 Param Inter 1 of 2
Chloride (mg/L)	PZ-15 PZ-16	4.705 4.705	n/a n/a	10/7/2020 10/6/2020	6.4	Yes		0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L) Chloride (mg/L)	PZ-10	4.705	n/a	10/7/2020	5.7	Yes		0	None None	sqrt(x) sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-18	4.705	n/a	10/7/2020	5	Yes		0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-19	4.705	n/a	10/7/2020	4.5	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-23A	4.705	n/a	10/6/2020	7	Yes		0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-25	4.705	n/a	10/7/2020	1.8	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-33	4.705	n/a	10/7/2020	2	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Chloride (mg/L)	PZ-7D	4.705	n/a	10/7/2020	3.9	No	48	0	None	sqrt(x)	0.0007523	Param Inter 1 of 2
Fluoride (mg/L)	PZ-14	0.29	n/a	10/6/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-15	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-16	0.29	n/a	10/6/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-17	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-18	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-19	0.29	n/a	10/7/2020	0.064J	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-23A	0.29	n/a	10/6/2020	0.052J	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-25	0.29	n/a	10/7/2020	0.13	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-33	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
Fluoride (mg/L)	PZ-7D	0.29	n/a	10/7/2020	0.1ND	No	52	42.31	n/a	n/a	0.0006878	NP Inter (normality) 1 of 2
pH (SU)	PZ-14 PZ-15	9.48 9.48	6.96 6.96	10/6/2020 10/7/2020	7.01 7.11	No	48 48	0	n/a n/a	n/a	0.001612 0.001612	NP Inter (normality) 1 of 2 NP Inter (normality) 1 of 2
pH (SU) pH (SU)	PZ-16	9.48	6.96	10/7/2020	7.11	No No	48	0	n/a	n/a n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-17	9.48	6.96	10/7/2020	7.04	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-18	9.48	6.96	10/7/2020	6.91	Yes		0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-19	9.48	6.96	10/7/2020	6.78	Yes		0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-23A	9.48	6.96	10/6/2020	6.78	Yes		0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-25	9.48	6.96	10/7/2020	6.95	Yes	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-33	9.48	6.96	10/7/2020	7.04	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
pH (SU)	PZ-7D	9.48	6.96	10/7/2020	6.98	No	48	0	n/a	n/a	0.001612	NP Inter (normality) 1 of 2
Sulfate (mg/L)	PZ-14	7.172	n/a	10/6/2020	11	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-15	7.172	n/a	10/7/2020	80.7	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-16	7.172	n/a	10/6/2020	42.4	Yes	48	0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-17	7.172	n/a	10/7/2020	89.1	Yes		0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-18	7.172	n/a	10/7/2020	87.3	Yes		0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-19	7.172	n/a	10/7/2020	83.3	Yes		0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-23A	7.172	n/a	10/6/2020	71.2	Yes		0	None	ln(x)	0.0007523	Param Inter 1 of 2
Sulfate (mg/L)	PZ-25	7.172 7.172	n/a n/a	10/7/2020 10/7/2020	38.1 54.6	Yes Yes		0	None	ln(x)	0.0007523 0.0007523	Param Inter 1 of 2 Param Inter 1 of 2
Sulfate (mg/L) Sulfate (mg/L)	PZ-33 PZ-7D	7.172 7.172	n/a n/a	10/7/2020	48.9	Yes		0	None None	ln(x)	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-10 PZ-14	314	n/a	10/6/2020	241	No	48	0	None	In(x) No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-14	314	n/a	10/0/2020	336	Yes		0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-16	314	n/a	10/6/2020	261	No	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-17	314	n/a	10/7/2020	392	Yes		0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-18	314	n/a	10/7/2020	425	Yes		0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-19	314	n/a	10/7/2020	492	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-23A	314	n/a	10/6/2020	462	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-25	314	n/a	10/7/2020	280	No	48	0	None	No	0.0007523	Param Inter 1 of 2

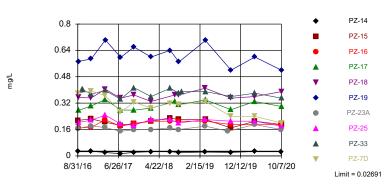
Interwell Predicition Limit - All Results

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 1:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig.	Bg N	%NDs	ND Adj.	<u>Transform</u>	<u>Alpha</u>	Method
TDS (mg/L)	PZ-33	314	n/a	10/7/2020	337	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2
TDS (mg/L)	PZ-7D	314	n/a	10/7/2020	334	Yes	48	0	None	No	0.0007523	Param Inter 1 of 2

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=-4.326, Std. Dev.=0.3488, n=48, 4.167% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9553, critical = 0.929. Kappa = 2.039 (c=7, w=10, of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

Constituent: Boron Analysis Run 12/8/2020 1:41 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

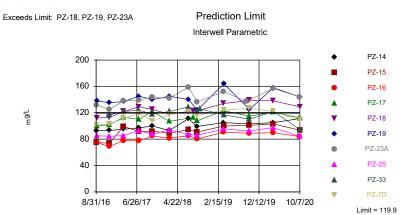
Sanitas™ v.9.6.27 . UG

Prediction Limit Exceeds Limit: PZ-15, PZ-16, PZ-17, PZ-18, PZ-23A Interwell Parametric PZ-14 PZ-15 PZ-16 P7-17 PZ-18 PZ-19 3.6 P7-23A PZ-25 1.8 PZ-33 8/31/16 6/26/17 4/22/18 2/15/19 12/12/19 10/7/20

Background Data Summary (based on square root transformation): Mean=1.77, Std. Dev.=0,1957, n=48. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.936, critical = 0.929. Kappa = 2.039 (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.

Limit = 4.705

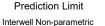
Sanitas™ v.9.6.27 . UG

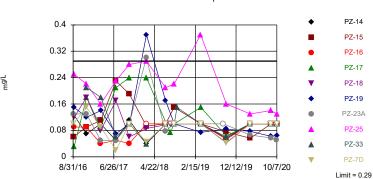


Background Data Summary (based on square root transformation): Mean=7.178, Std. Dev.=1.847, n=47, 2.128% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9324, critical = 0.928. Kappa = 2.042 (c=7, w=10, of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.0007523. Comparing 10 points to limit.

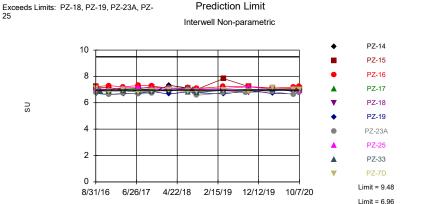
Constituent: Calcium Analysis Run 12/8/2020 1:41 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG Hollow symbols indicate censored values. Within Limit





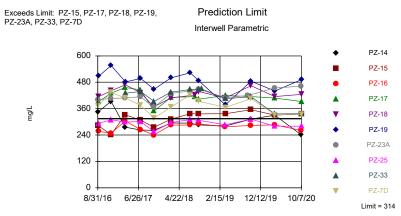
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 52 background values. 42.31% NDs. Annual perconstituent alpha = 0.01367. Individual comparison alpha = 0.0006878 (1 of 2). Comparing 10 points to limit.



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 48 background values. Annual perconstituent alpha = 0.03199. Individual comparison alpha = 0.001612 (1 of 2). Comparing 10 points to limit.

Constituent: pH Analysis Run 12/8/2020 1:41 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

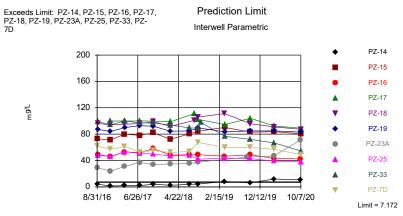
Sanitas™ v.9.6.27 . UG



Background Data Summary: Mean=173.5, Std. Dev.=68.91, n=48. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9489, critical = 0.929. Kappa = 2.039 (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 12/8/2020 1:41 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



Background Data Summary (based on natural log transformation): Mean=1.046, Std. Dev.=0.4535, n=48. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9403, critical = 0.929. Kappa = 2.039 (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 12/8/2020 1:41 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Constituent: Boron (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III

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	0.0132 (J)								
8/31/2016		0.0285 (J)	0.166						
9/1/2016				0.379	0.215				
9/6/2016						0.17			
9/7/2016							0.355	0.573	0.276
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	0.394	0.224	0.173			
12/8/2016							0.351	0.588	0.303
3/21/2017	0.0082 (J)	0.0198 (J)	0.172						
3/22/2017				0.365	0.205	0.218	0.405		0.342
3/23/2017								0.703	
7/11/2017	0.0067 (J)	0.0137 (J)	0.149			0.18			
7/12/2017				0.267	0.184		0.35	0.598	0.278
10/17/2017	0.0083 (J)								
10/18/2017		0.0212 (J)	0.158	0.000	0.197	0.195	0.37	0.00	0.277
10/19/2017	0.004 (1)	0.000 (1)	0.10	0.326				0.66	
2/20/2018	0.024 (J)	0.026 (J)	0.16	0.00	0.01	0.01	0.00	0.0	0.00
2/21/2018				0.29	0.21	0.21	0.33	0.6	0.29
4/12/2018									
5/23/2018									
6/13/2018	0.017 (1)	0.036 (1)	0.17						
7/11/2018 7/12/2018	0.017 (J)	0.026 (J)	0.17	0.32	0.23	0.21		0.64	
8/15/2018				0.32	0.23	0.21	0.37	0.04	
8/16/2018							0.37		0.33
8/17/2018									0.55
9/12/2018	0.012 (J)	0.02 (J)							
9/13/2018	0.012 (0)	0.02 (0)	0.16	0.31	0.22	0.21	0.37		
9/14/2018			0.10	0.51	0.22	0.21	0.37	0.57	0.31
10/4/2018								0.37	0.51
10/24/2018									
3/26/2019	0.0082								
3/27/2019	0.0002	0.023	0.18			0.21	0.41		
3/28/2019		0.020	0.10	0.33	0.22	0.2.		0.7	0.34
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			0.35	0.52	
3/24/2020	0.013 (J)								
3/25/2020	* *	0.027 (J)	0.19						0.33
3/26/2020		. ,		0.24	0.21	0.19	0.36	0.6	
10/6/2020	0.015 (J)	0.026 (J)	0.16			0.19			
10/7/2020				0.2	0.19		0.39	0.52	0.3

Constituent: Boron (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
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		0.101	0.0174 (J)	0.0156 (J)	
12/6/2016			0.0133 (J)	0.0100 (0)	
12/7/2016			0.0133 (0)	0.0157 (J)	
12/8/2016	0.216	0.375		0.0137 (3)	
3/21/2017	0.210	0.373	0.0103 (1)		
	0.047		0.0103 (J)		
3/22/2017	0.247	0.000		0.0100 ())	
3/23/2017	0.40.	0.396	.0.61	0.0103 (J)	
7/11/2017	0.194	0.010	<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)	
10/1/2019	0.21		0.0084 (X)	0.011(//)	0.011 (X)
10/3/2019	U.Z.1	0.36	0.0004 (A)		0.011(A)
3/24/2020		0.30			0.015 (1)
	0.21		0.01171	0.016 (1)	0.015 (J)
3/25/2020 3/26/2020	0.21	0.39	0.011 (J)	0.016 (J)	
		0.38	0.04470	0.015 (1)	0.019 (1)
10/6/2020	0.46	0.5-	0.011 (J)	0.015 (J)	0.018 (J)
10/7/2020	0.18	0.35			

Constituent: Calcium (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
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	40.4								
8/31/2016		92.9	132						
9/1/2016				101	74.8				
9/6/2016						74.6			
9/7/2016							112	138	100
9/8/2016									
10/18/2016									
12/6/2016	43.3								
12/7/2016		93.1	125	103	74	68.9			
12/8/2016							113	135	102
3/21/2017	44.1	95	138						
3/22/2017				111	99.3	77.8	122		113
3/23/2017								137	
7/11/2017	47.4	97.1	139			77.3			
7/12/2017				119	91.4		129	145	110
10/17/2017	48.7								
10/18/2017		100	144		92	84.7	125		122
10/19/2017				107				140	
2/20/2018	46.8	93.1	142						
2/21/2018				118	89	81.8	118	145	107
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								124	108
10/4/2018									
10/24/2018									
3/26/2019	43.3								
3/27/2019		105	152			90.5	134		
3/28/2019				124	100			164	123
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	100	00.5	84	100		440
10/7/2020				109	93.5		129	144	112

Constituent: Calcium (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
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					
	95.0				
9/8/2016	85.2	22.2	57.0		
10/18/2016		88.3	57.2		
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	86	59.7		
7/12/2017				124	
10/17/2017		91.6	64.9		
10/18/2017	87.6				
10/19/2017	37.0			118	
		96 F	64.1	110	
2/20/2018	00.0	86.5	64.1	100	
2/21/2018	93.9			122	
4/12/2018					<25
5/23/2018					17.6 (J)
6/13/2018					14.3
7/11/2018		95.4	60.4		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		20.0
9/13/2018	00.0		30.7	123	
					25
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	95.8	66.6		
3/26/2020				122	
10/6/2020		98.8	62.8	122	22.7
10/6/2020	84.2	30.0	02.0	04.7	22. <i>1</i>
10///2020	84.2			94.7	

Constituent: Chloride (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
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-17	PZ-19
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	7.7	6.8
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	7.2	6.6
3/21/2017	2.9	4.9	5.5						
3/22/2017	2.0		0.0	7.2	7.4	7.7	6.8	7.3	
3/23/2017				7.2	7.4	7.7	0.0	7.5	6.6
7/11/2017	3.4	5	5.7			8.1			0.0
7/11/2017	3.4	3	3.7	7.3	0	0.1	6.7	7.4	6.6
10/17/2017	2.2			7.3	8		0.7	7.4	0.0
10/17/2017	3.3	F 1	E 1		7.0	9.2	6.9	7.6	
		5.1	5.1	7.4	7.8	8.2	6.8	7.6	0.5
10/19/2017	0.0			7.4					6.5
2/20/2018	3.3	5.1	5.5	7.0	7.0	7.0	7.4	7.4	7.0
2/21/2018				7.6	7.2	7.3	7.1	7.4	7.6
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								7.7	6.1
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			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				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	5.7	4.5

Constituent: Chloride (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

			Plant IVIII	icheli Client: 50	Dutiern Company Data: Milchell 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		

Constituent: Fluoride (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
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	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)	0.12 (J)	0.15 (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)	0.18 (J)	0.12 (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)	0.17 (J)	0.07 (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)	0.086 (J)	0.37
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)			0.043 (X)	0.084 (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		<0.1	0.077 (J)
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	<0.1	0.064 (J)

Constituent: Fluoride (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

	D7.05	D7.00 (1.)	D7 01 (b)		DZ OD //s-2	
8/30/2016	PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)	
8/31/2016						
9/1/2016						
9/6/2016						
9/7/2016						
9/8/2016	0.25 (J)					
10/18/2016		0.11 (J)	0.16 (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)	0.02 (J)	0.06 (J)			
7/12/2017				0.06 (J)		
10/17/2017		<0.1	0.05 (J)			
10/18/2017	0.28 (J)					
10/19/2017				<0.1		
2/20/2018		<0.1	0.21 (J)			
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		<0.1	0.087 (J)		<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	0.0.0(0)		3.000 (0)	
9/14/2018	J.LL (U)	-0.1		<0.1		
10/4/2018				0.15 (J)	0.15 (J)	
				0.15(3)		
10/24/2018			-0.1		0.29 (J)	
3/26/2019	0.07	-0.1	<0.1		0.04	
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		

Constituent: pH (SU) Analysis Run 12/8/2020 1:43 PM View: Appendix III 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	7.67								
8/31/2016		6.97	6.75						
9/1/2016				7.07	7.21				
9/6/2016						7.23			
9/7/2016							6.71	6.92	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							6.61	6.9	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		6.69	6.95	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	6.66	6.89	6.95
7/11/2018	7.48	7.12	7						
7/12/2018				6.85	7.07	7.14	6.84	7.01	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			6.93	6.78	
3/24/2020	7.79								
3/25/2020		7.02	6.84						6.93
3/26/2020				7.12	7.08	7.12	6.7	7.01	
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		6.78	6.91	7.04

Constituent: pH (SU) Analysis Run 12/8/2020 1:43 PM View: Appendix III Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

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	·	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				
		7.1	0.00			
	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			
			0.00	7.26		
	2/20/2018	7.10	7.00	7.26		
	2/21/2018	7.12	7.02	7.00	7.00	0.40
	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			
			7.01			9.57
	3/24/2020	7.01		7.00	7.15	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			

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III 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-17	PZ-19
8/30/2016	2.1								
8/31/2016		4.1	29						
9/1/2016				62	73				
9/6/2016						49			
9/7/2016							96	99	87
9/8/2016									
10/18/2016									
12/6/2016	2.4								
12/7/2016		1.5	24	57	71	46			
12/8/2016							94	94	84
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	100	93
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	98.8	84.5
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								102	89.5
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			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				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	89.1	83.3

Constituent: Sulfate (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

8/3/02/16 8/3/12/16 9/1/2016 9/1/2016 9/1/2016 9/1/2016 9/1/2016 9/1/2016 9/1/2016 9/1/2016 9/1/2016 9/1/2016 9/1/2016 9/1/2016 1/1/2016 1/1/2016 1/1/2016 1/1/2016 1/1/2016 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2017 1/1/2018 1		PZ-25	PZ-32 (bg)	PZ-31 (bg)	PZ-33	PZ-2D (bg)	
8/12/2016 9/17/2016 9/17/2016 9/17/2016 9/17/2016 9/17/2016 9/17/2016 9/17/2016 19/17/2016 10/18/2016 10/18/2016 10/18/2016 10/18/2016 10/18/2016 10/18/2016 10/18/2016 10/18/2017 10/17/2017 10/17/2017 10/17/2017 10/17/2017 10/17/2017 10/17/2017 10/17/2017 10/17/2017 10/17/2017 10/17/2017 10/17/2017 10/17/2018 2.1 20/2018 2.1 20/202018 2.1 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7 2.7	8/30/2016						
98/2016 98/2016 98/2016 98/2016 98/2016 98/2016 98/2016 48 10118/2016 2.3 2.2 12/202016 1.9 1.9 12/202016 46 1.9 12/202016 46 1.9 12/202017 53 3/22/2017 53 3/22/2017 51 1.8 4.8 7/11/2017 51 1.8 4.8 7/11/2017 51 1.8 4.8 7/11/2017 51 1.8 4.8 7/11/2017 51 1.9 6.4 10/19/2017 97 10/17/2017 97 20/202018 2.1 5.2 22/12/2018 46.8 93.6 4/12/2018 46.8 93.6 4/12/2018 46.8 93.6 4/12/2018 47/11/2018 48.3 4.8 48.3 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48/12/2018 48.3 4.8 48.3 48/12/2018 48.3 4.8 48.3 48/12/2018 48.3 4.8 48.3 48/12/2018 48.3 48/12/2018 49/12/2018 40 4.1 40/12/2018 41 4.1 41/12/2019 42 4.1 41/12/2019 43.7 2.4 44 49/12/2019 43.7 2.4 44 49/12/2019 43.7 2.4 47 48/12/2019 49/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2019 43.7 2.4 48/12/2018 48/12/2019 43.7 2.4 48/12/2018 48/12/2019 43.7 2.4 48/12/2018 48/12/2							
996/2016 997/2016 997/2016 997/2016 48 1048/2016 48 1048/2016 48 1048/2016 48 109 100							
98/2016							
98/2016 48							
1018/2016 2.3 2.2		40					
12/6/2016 1.9		48					
12/7/2016			2.3				
12/8/2016 46				6.1			
3/21/2017 53 53 53 53 53 53 53 5			1.9				
3/22/2017 53 1.7 100	12/8/2016	46			100		
3/23/2017	3/21/2017			5.7			
3/23/2017	3/22/2017	53					
7/11/2017 51 1.8 4.8 7/12/2017 1.9 6.4 10/18/2017 50 97 10/18/2017 50 97 2/20/2018 2.1 5.2 2/21/2018 46.8 4.8 4/12/2018 4.8 4.5 5/23/2018 4.5 4.5 6/13/2018 2 3.6 5.3 7/11/2018 2 3.6 5.4 7/12/2018 48.3 4.5 5.3 8/15/2018 48.3 4.5 4.5 8/17/2018 42 2.7 4.5 9/12/2018 42 2.1 4.5 9/13/2018 42 2.1 4.5 9/13/2018 42 2.1 97.8 5.8 10/4/2018 43.7 2.4 3.7 6.2 3/26/2019 43.7 2.4 3.7 76.7 9/10/2019 43 1.6 4.1 10/3/2019 43 1.6 4.1 3/26/2020 39.1 1.9 1.5	3/23/2017		1.7		100		
7/12/2017		51		4.8			
10/17/2017 1.9 6.4 1.9 1.9 1.9 1.0					97		
10/18/2017 50 50 52 52 52 52 52 52			1.9	6.4			
10/19/2017		50		5. .			
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 6/3/2018 5.3 7/11/2018 2 3.6 5.4 7/12/2018 48.3 8/15/2018 48.3 8/16/2018 48.3 8/16/2018 4.5 8/17/2018 4.5 9/12/2018 2.7 9/13/2018 42 10/4/2018 42 10/4/2018 42 10/4/2018 79.8 3/26/2019 43.7 3/26/2019 43.7 10/1/2019 43.7 10/1/2019 43 10/1/2019 43 10/2/2019 43 10/2/2019 43 10/2/2019 43 10/2/2019 43 10/2/2019 43 10/2/2019 43 10/2/2019 43 10/2/2019 43 10/2/2019 43 10/2/2019		50			97		
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 89.4 8/15/2018 88.7/2018 4.5 8/17/2018 4.5 4.5 9/13/2018 42 2.1 4.4 9/13/2018 42 2.1 4.4 9/14/2018 42 2.1 88.9 10/4/2018 5.8 6.2 3/26/2019 43.7 2.4 3.6 3/27/2019 43.7 2.4 3.7 3/28/2019 2.2 76.7 9/10/2019 2.2 4.1 10/2/2019 43 1.6 4.1 10/3/2019 72.1 3.1 3/28/2020 39.1 1.9 1.5 3/26/2020 39.1 1.9 0.98 (J) 3.1			2.1	F 2	31		
4/12/2018		40.0	۷.۱	5.∠	00.0		
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 48.3 8/15/2018 48.3 48.3 48.3 48.3 8/15/2018 48.3 48.3 48.3 48.3 48.3 8/15/2018 48.3 48.3 48.3 48.3 49.4 49.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 6.2 33/26/2019 30.7 33.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.2 4.1 4.1 4.1		46.8			93.6	40.40	
6/13/2018 5.3 7/11/2018 2 3.6 5.4 7/12/2018 48.3 89.4 89.4 8/15/2018 8/16/2018 89.4 89.4 8/17/2018 4.5 4.5 9/12/2018 2.7 4.4 9/13/2018 42 2.1 9/14/2018 88.9 97.8 10/4/2018 6.2 3/26/2019 1.6 3/27/2019 43.7 2.4 3/28/2019 76.7 9/10/2019 2.2 10/1/2019 2.2 10/2/2019 43 1.6 10/3/2019 72.1 3/24/2020 39.1 1.9 3/25/2020 39.1 1.9 10/6/2020 1.9 0.98 (J)							
7/11/2018 2 3.6 5.4 7/12/2018 48.3 89.4 89.4 8/15/2018 8/16/2018 88.7 4.5 8/17/2018 4.5 4.4 9/12/2018 42 2.1 4.4 9/14/2018 42 2.1 88.9 10/4/2018 42 2.1 6.2 3/26/2019 1.6 3/27/2019 43.7 2.4 3.7 3/28/2019 76.7 76.7 9/10/2019 43 1.6 4.1 10/3/2019 43 1.6 4.1 10/3/2019 3.1 3/24/2020 39.1 1.9 1.5 3.1 3/26/2020 1.9 0.98 (J) 3.1							
7/12/2018 48.3 89.4 8/15/2018 48.3 48.3 8/16/2018 4.5 9/12/2018 2.7 4.4 9/13/2018 42 2.1 9/14/2018 88.9 4.2 10/4/2018 5.8 6.2 3/26/2019 43.7 2.4 3.7 3/28/2019 43.7 2.4 3.7 9/10/2019 76.7 3.7 10/1/2019 2.2 4.1 10/2/2019 43 1.6 4.1 10/3/2019 3.24 72.1 3.1 3/24/2020 39.1 1.9 1.5 3.1 3/26/2020 1.9 0.98 (J) 3.1							
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 10/4/2018 97.8 5.8 10/24/2018 6.2 3/26/2019 1.6 3/27/2019 43.7 2.4 9/10/2019 76.7 9/10/2019 2.2 10/2/2019 43 1.6 10/2/2019 43 1.6 10/3/2019 72.1 3/24/2020 39.1 1.9 3/25/2020 39.1 1.9 10/6/2020 1.9 0.98 (J)	7/11/2018		2	3.6		5.4	
8/16/2018 4.5 9/12/2018 2.7 4.4 9/13/2018 42 2.1 9/14/2018 88.9 5.8 10/4/2018 97.8 5.8 10/24/2018 6.2 3/26/2019 1.6 3.7 3/27/2019 43.7 2.4 76.7 9/10/2019 76.7 9/10/2019 10/1/2019 2.2 4.1 10/3/2019 72.1 3/24/2020 3/24/2020 39.1 1.9 1.5 3/26/2020 1.9 0.98 (J) 3.1	7/12/2018	48.3			89.4		
8/16/2018 4.5 9/12/2018 2.7 4.4 9/13/2018 42 2.1 9/14/2018 88.9 5.8 10/4/2018 97.8 5.8 10/24/2018 6.2 3/26/2019 1.6 3.7 3/27/2019 43.7 2.4 3.7 3/28/2019 76.7 76.7 9/10/2019 2.2 72.1 10/2/2019 43 1.6 4.1 10/3/2019 72.1 3/24/2020 3/24/2020 39.1 1.9 1.5 3/26/2020 1.9 0.98 (J) 3.1	8/15/2018						
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 3.7 3/28/2019 76.7 9/10/2019 10/1/2019 2.2 72.1 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 1.9 0.98 (J) 3.1	8/16/2018						
9/12/2018 2.7 4.4 9/13/2018 42 2.1 9/14/2018 88.9 5.8 10/24/2018 97.8 5.8 10/24/2019 1.6 3/27/2019 3/27/2019 43.7 2.4 3.7 3/28/2019 76.7 9/10/2019 10/1/2019 2.2 72.1 10/3/2019 72.1 3/24/2020 3/25/2020 39.1 1.9 1.5 3/26/2020 1.9 0.98 (J) 3.1						4.5	
9/13/2018 42 2.1 9/14/2018 88.9 10/24/2018 97.8 5.8 10/24/2018 6.2 3/26/2019 1.6 3/27/2019 43.7 2.4 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 3/24/2020 39.1 1.9 1.5 3/26/2020 1.9 0.98 (J) 3.1				2.7			
9/14/2018 88.9 10/4/2018 97.8 5.8 10/24/2018 6.2 3/26/2019 1.6 3.7 3/27/2019 43.7 2.4 3.7 3/28/2019 76.7 9/10/2019 10/1/2019 2.2 43 1.6 4.1 10/3/2019 43 1.6 4.1 3/24/2020 39.1 1.9 1.5 3/25/2020 39.1 1.9 0.98 (J) 3.1		42	2.1				
10/4/2018 97.8 5.8 10/24/2018 6.2 3/26/2019 1.6 3/27/2019 43.7 2.4 3/28/2019 76.7 9/10/2019 10/1/2019 10/2/2019 43 1.6 4.1 10/3/2019 72.1 3/24/2020 3/24/2020 39.1 1.9 1.5 3/26/2020 1.9 0.98 (J) 3.1					88 Q		
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 43 1.6 4.1 10/3/2019 72.1 3/24/2020 3.1 3/24/2020 39.1 1.9 1.5 3/26/2020 1.9 0.98 (J) 3.1						5.9	
3/26/2019 1.6 3/27/2019 43.7 2.4 3.7 3/28/2019 76.7 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 3/24/2020 39.1 1.9 1.5 3/26/2020 66.6 66.6 10/6/2020 1.9 0.98 (J) 3.1					37.0		
3/27/2019 43.7 2.4 3.7 3/28/2019 76.7 76.7 9/10/2019 2.2 43 1.6 4.1 10/3/2019 43 72.1 3/24/2020 3/24/2020 3.1 3.1 3/25/2020 39.1 1.9 1.5 3/26/2020 66.6 3.1 10/6/2020 1.9 0.98 (J) 3.1				1.0		0.2	
3/28/2019 76.7 9/10/2019 76.7 10/1/2019 2.2 10/2/2019 43 1.6 4.1 10/3/2019 72.1 3/24/2020 3.1 3/24/2020 39.1 1.9 1.5 3/26/2020 66.6 66.6 10/6/2020 1.9 0.98 (J) 3.1				1.6			
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		43.7	2.4			3.7	
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					76.7		
10/2/2019 43 1.6 4.1 10/3/2019 72.1 3/24/2020 3/24/2020 39.1 1.9 1.5 3/26/2020 66.6 10/6/2020 1.9 0.98 (J) 3.1							
10/3/2019 72.1 3/24/2020 39.1 1.9 1.5 3/26/2020 1.9 0.98 (J) 3.1	10/1/2019		2.2				
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	10/2/2019	43		1.6		4.1	
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	10/3/2019				72.1		
3/25/2020 39.1 1.9 1.5 3/26/2020 66.6 10/6/2020 1.9 0.98 (J) 3.1						3.1	
3/26/2020 66.6 10/6/2020 1.9 0.98 (J) 3.1		39.1	1.9	1.5			
10/6/2020 1.9 0.98 (J) 3.1					66.6		
			19	0.98 (.1)		3.1	
10/1/2020 30.1		38 1	1.5	0.50 (3)	54.6	J. I	
	10///2020	JU. I			J4.U		

Constituent: TDS (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
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				.00		2.0	441	556	431
3/21/2017	128	276	409					000	401
3/22/2017	120	270	409	409	332	304	469		456
				409	332	304	409	492	450
3/23/2017	120	262	414			265		482	
7/11/2017	138	263	414	074	000	265	100	407	445
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

Constituent: TDS (mg/L) Analysis Run 12/8/2020 1:43 PM View: Appendix III
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		. 0,	. 3,		. 0,
8/31/2016					
9/1/2016					
9/6/2016					
9/7/2016	000				
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	
		162	264	333	
2/20/2018	207	163	264	425	
2/21/2018	297			435	00
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	307	102		447	
					102
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	100	207	337	· ·
10/1/2020	200			557	

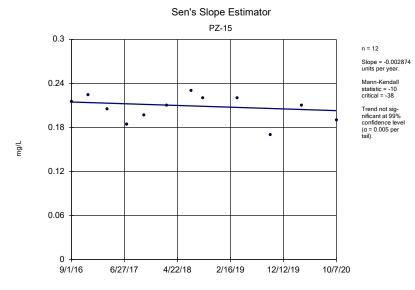
FIGURE E.

Trend Test - Significant Results

	Plant Mitchell	Client: Southern Company		Data: Mitchell Ash Pond CCR			Printed 12/	8/2020, 1:49 F	PM		
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	PZ-7D	-0.04195	-41	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-18	5.393	40	38	Yes	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-31 (bg)	-0.4113	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-14	1.958	47	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-23A	5.866	58	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-25	-3.585	-42	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-31 (bg)	-1.363	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-33	-10.95	-54	-38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-23A	15.05	44	38	Yes	12	0	n/a	n/a	0.01	NP

Trend Test - All Results

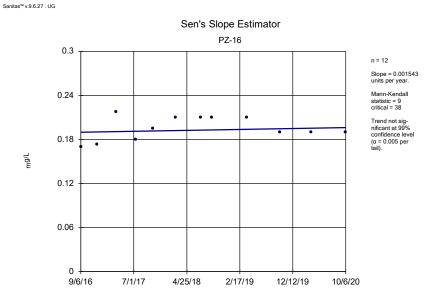
		11011	u i C	οι - <i>Γ</i> λιι	110	Sui	ıs				
	Plant Mitchell	Client: Southern Co	mpany D	Data: Mitchell Ash Pond CCR			Printed 12/8/2020, 1:49 PM				
Constituent	Well	Slope	Calc.	Critical	Sig.	<u>N</u>	%NDs	Normality	<u>Xform</u>	<u>Alpha</u>	Method
Boron (mg/L)	PZ-15	-0.002874	-10	-38	No.	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-16	0.001543	9	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-17	0.004918	15	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-18	0.003211	10	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-19	-0.01512	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-1D (bg)	0.0000869	1	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-23A	0	1	38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-25	-0.002074	-10	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-2D (bg)	0	-3	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-31 (bg)	-0.001685	-23	-38	No	12	8.333	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-32 (bg)	-0.0005995	-7	-38	No	12	8.333	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-33	-0.006909	-28	-48	No	14	0	n/a	n/a	0.01	NP
Boron (mg/L)	PZ-7D	-0.04195	-41	-38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-18	5.393	40	38	Yes	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-19	1.884	14	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-10 (bg)	1.69	27	34	No	11	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-23A	5.176	29	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg)	4.25	20	38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-2D (bg) PZ-31 (bg)	2.303	33	38	No	12	0.555	n/a	n/a	0.01	NP
Calcium (mg/L)	PZ-31 (bg) PZ-32 (bg)	1.918	24	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-15	-0.09612	-7	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-16	-0.2544	-32	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-10 PZ-17	-0.09058	-32 -7	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-17	-0.1529	-32	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-10 PZ-1D (bg)	-0.1529	-32 -12	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-23A	0	-2	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-2D (bg)	0	-6	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	PZ-31 (bg)	-0.4113	-43	-38	Yes	12	0	n/a		0.01	NP
Chloride (mg/L) Chloride (mg/L)	PZ-31 (bg) PZ-32 (bg)	-0.4113 -0.2351	- 43 -31	-3 6 -38	No	12	0	n/a	n/a n/a	0.01	NP NP
pH (SU)	PZ-32 (bg) PZ-18	-0.2331	-14	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19	0.009125	10	48	No	14	0	n/a	n/a	0.01	NP
pH (SU)	PZ-19 PZ-1D (bg)	-0.0333	-22	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-23A	0.014	12	43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-25A	-0.01978	-17	-38	No	12	0	n/a	n/a	0.01	NP
pH (SU)	PZ-2D (bg)	-0.2188	-8	-21	No	8	0	n/a	n/a	0.01	NP
pH (SU)	PZ-31 (bg)	-0.001297	-4	-43	No	13	0	n/a	n/a	0.01	NP
pH (SU)	PZ-32 (bg)	-0.006728	-8	-48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-14	1.958	47	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-15	2.592	34	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-16	-2.14	-32	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-17	-0.8819	-7	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-18	-0.07746	-3	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-19	-0.9091	-21	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-1D (bg)	0.1329	22	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-23A	5.866	58	38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-25	-3.585	-42	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-2D (bg)	-0.8052	-26	-38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-31 (bg)	-1.363	-43	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-32 (bg)	0.03898	11	38	No	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-33	-10.95	-54	-38	Yes	12	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	PZ-7D	-1.28	-13	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-15	17.51	34	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-17	-7.105	-14	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-18	-1.308	-3	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-19	-11.97	-22	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-1D (bg)	6.855	27	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-23A	15.05	44	38	Yes	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-2D (bg)	16.45	20	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-31 (bg)	-0.1691	-1	-38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-32 (bg)	2.604	13	38	No	12	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-33	-18.86	-12	-34	No	11	0	n/a	n/a	0.01	NP
TDS (mg/L)	PZ-7D	-11.45	-20	-38	No	12	0	n/a	n/a	0.01	NP
. • ,											



Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG Sen's Slope Estimator PZ-17 0.4 n = 12 Slope = 0.004918 units per year. 0.32 Mann-Kendall critical = 38 Trend not sig-nificant at 99% confidence level 0.24 (α = 0.005 per tail). mg/L 0.16 0.08 9/7/16 7/2/17 4/26/18 2/18/19 12/13/19 10/7/20

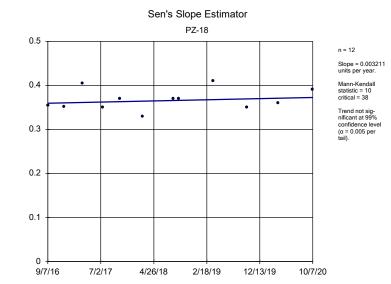
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



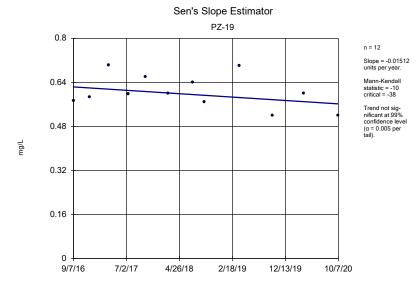
Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



mg/L



Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

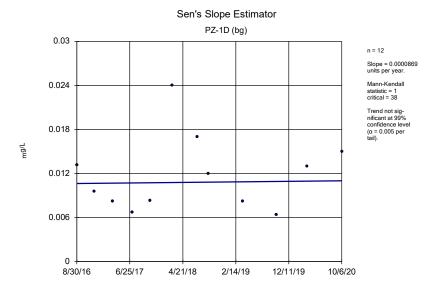


Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator PZ-23A 0.2 n = 12 Slope = 0 units per year. 0.16 Mann-Kendall critical = 38 Trend not sig-nificant at 99% confidence level 0.12 (α = 0.005 per tail). mg/L 0.08 0.04 8/31/16 6/26/17 4/21/18 2/15/19 12/11/19 10/6/20

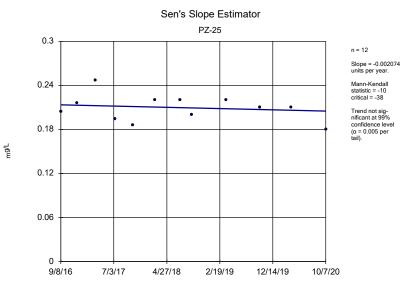
Sanitas™ v.9.6.27 . UG

Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



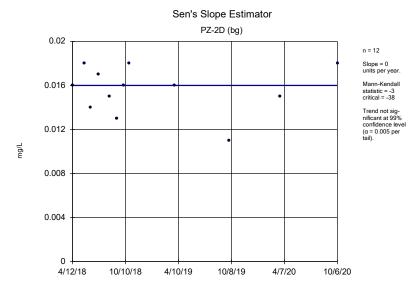


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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

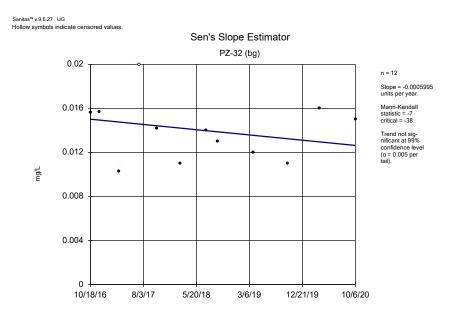
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10/5/16

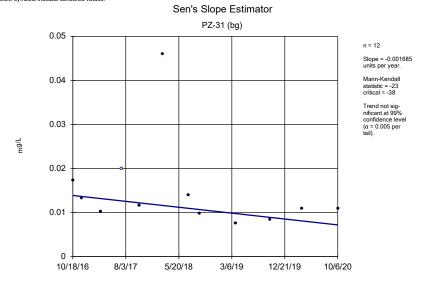
7/24/17



Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



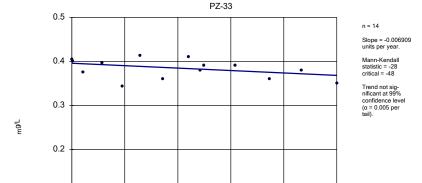
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Boron Analysis Run 12/8/2020 1:46 PM View: Appendix III

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator



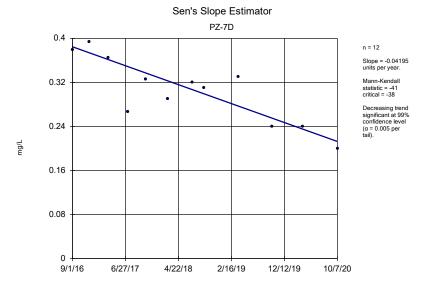
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

3/1/19

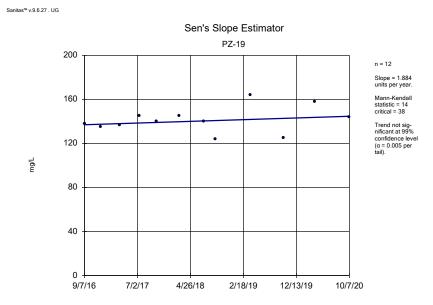
12/19/19

10/7/20

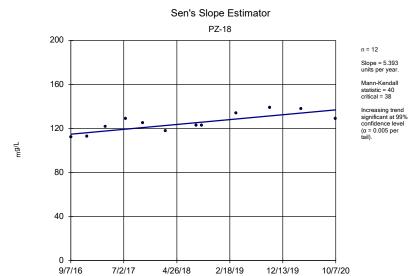
5/13/18



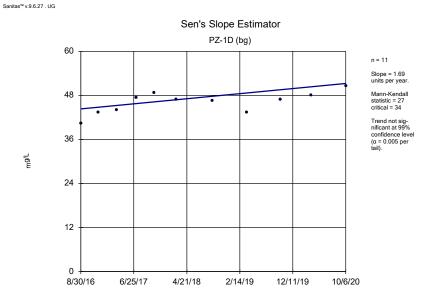
Constituent: Boron Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

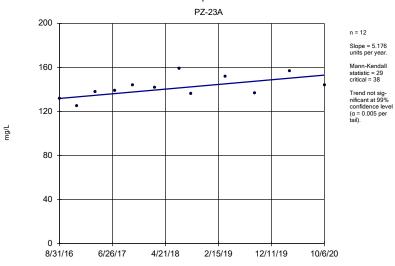


Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR





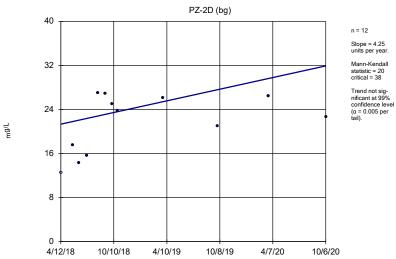
Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

Sen's Slope Estimator PZ-31 (bg) 100 n = 12 Slope = 2.303 units per year. Mann-Kendall 80 statistic = 33 critical = 38 Trend not sig-nificant at 99% confidence level 60 (α = 0.005 per tail). mg/L 40 20 10/18/16 8/3/17 5/20/18 3/6/19 12/21/19 10/6/20

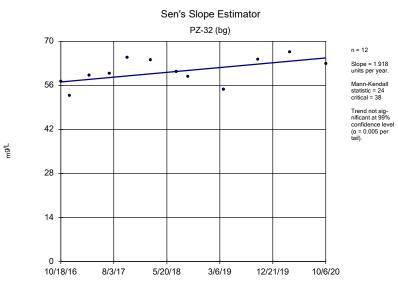
Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



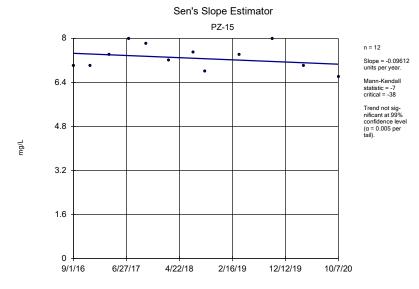


Constituent: Calcium Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

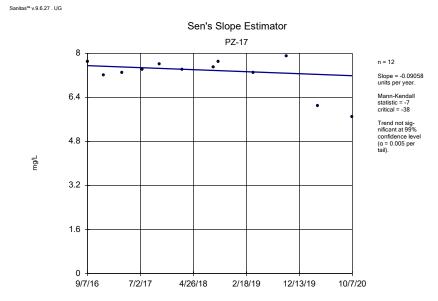
Sanitas™ v.9.6.27 . UG



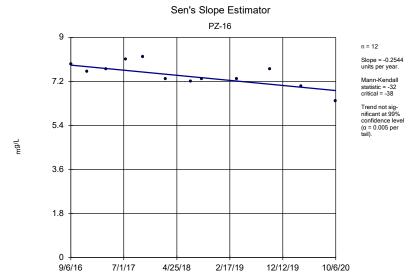
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



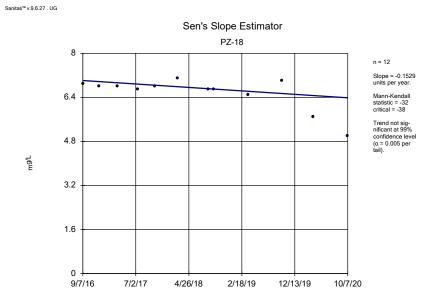
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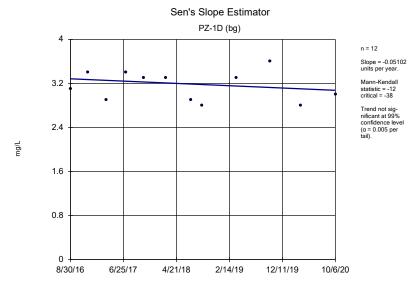
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

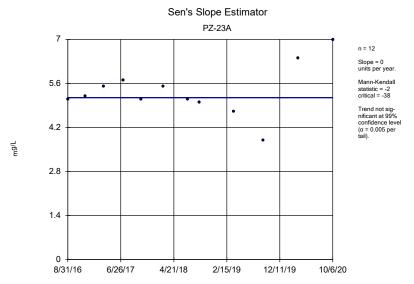


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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

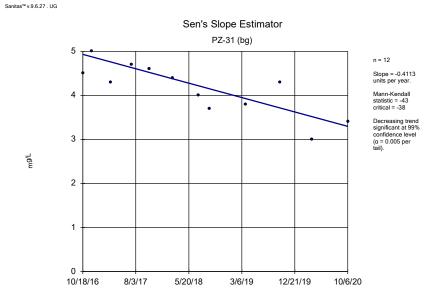
Sen's Slope Estimator PZ-2D (bg) n = 12 Slope = 0 units per year. Mann-Kendall 2.4 statistic = -6 critical = -38 Trend not sig-nificant at 99% confidence level 1.8 (α = 0.005 per tail). mg/L 1.2 0.6 4/12/18 10/10/18 4/10/19 10/8/19 4/7/20 10/6/20

Sanitas™ v.9.6.27 . UG

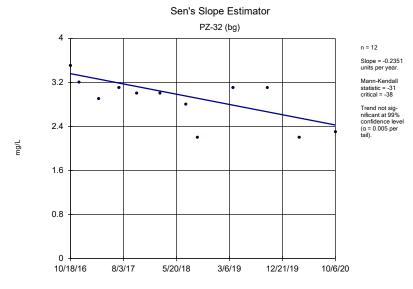
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



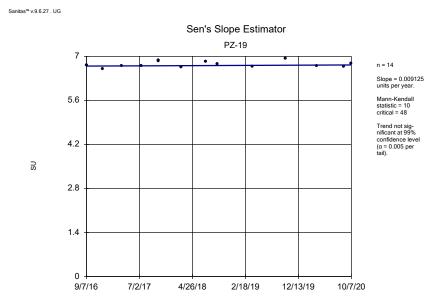
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



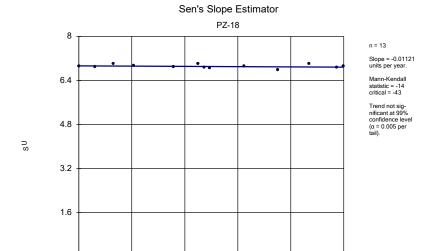
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Chloride Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

2/18/19

12/13/19

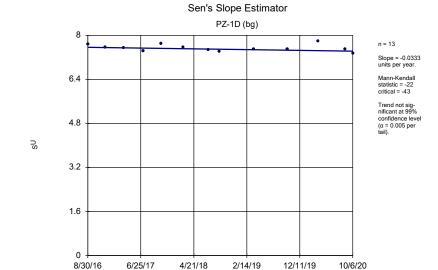
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4/26/18

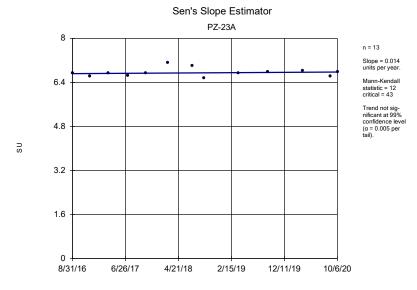
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Sanitas™ v.9.6.27 . UG

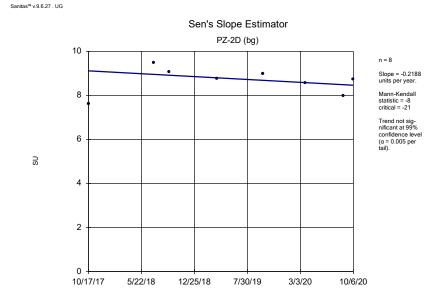
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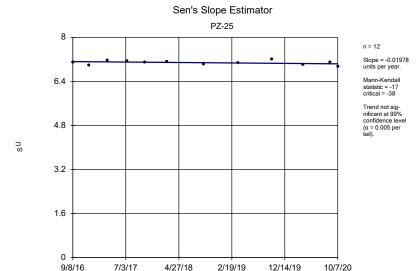
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



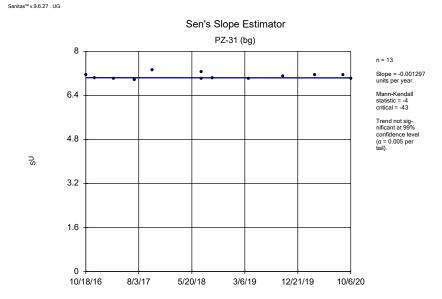
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



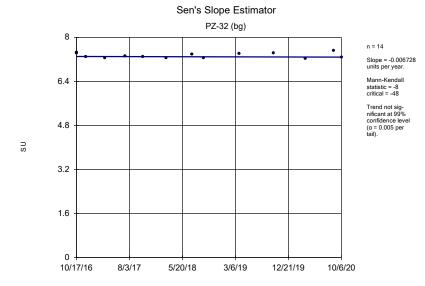
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



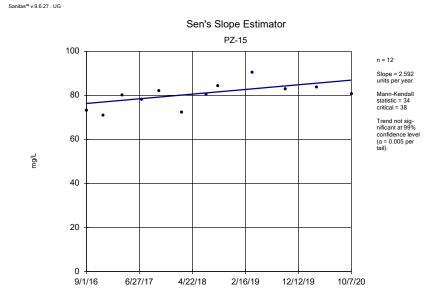
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: pH Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



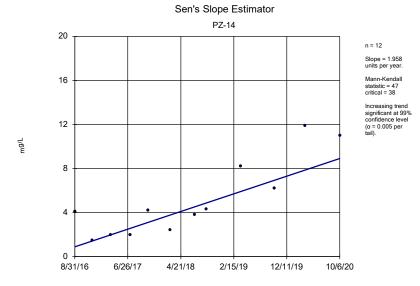
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

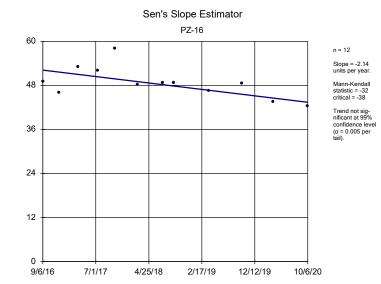
v.9.6.27 . UG



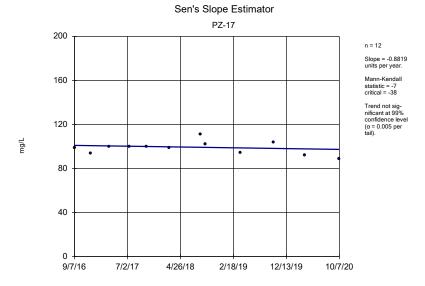
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG

mg/L



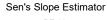
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

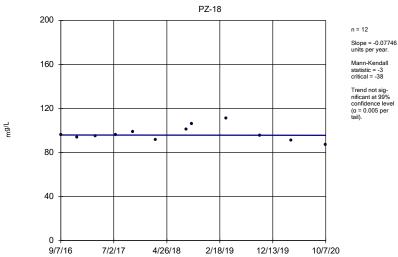


Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG Sen's Slope Estimator PZ-19 100 n = 12 Slope = -0.9091 units per year. Mann-Kendall 80 statistic = -21 critical = -38 Trend not sig-nificant at 99% confidence level 60 (α = 0.005 per tail). mg/L 40 20 9/7/16 7/2/17 4/26/18 2/18/19 12/13/19 10/7/20

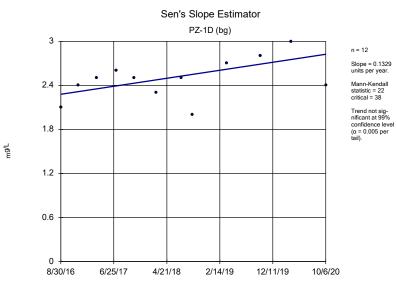
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



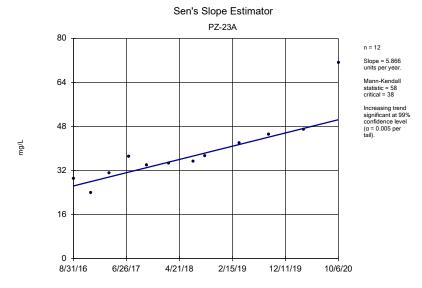


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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 . UG



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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

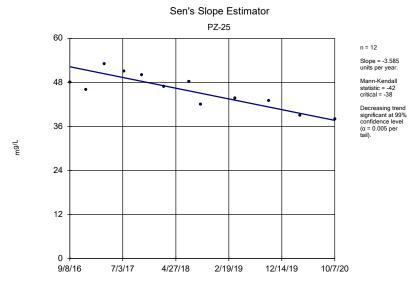


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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

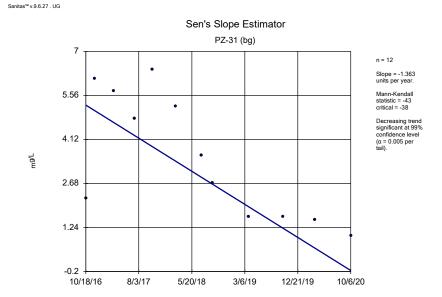
Sen's Slope Estimator PZ-2D (bg) n = 12 Slope = -0.8052 units per year. 5.6 Mann-Kendall statistic = -26 critical = -38 Trend not sig-nificant at 99% confidence level 4.2 (α = 0.005 per tail). mg/L 2.8 1.4 4/12/18 10/10/18 4/10/19 10/8/19 4/7/20 10/6/20

Sanitas™ v.9.6.27 . UG

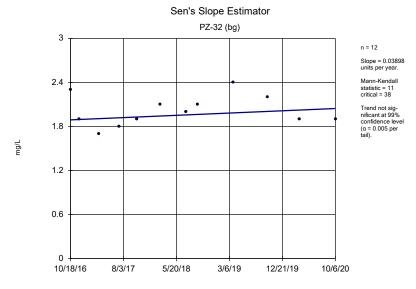
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



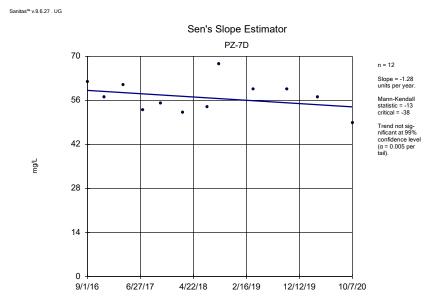
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



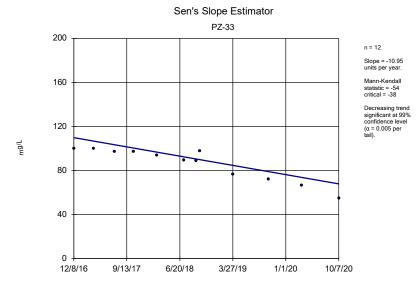
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



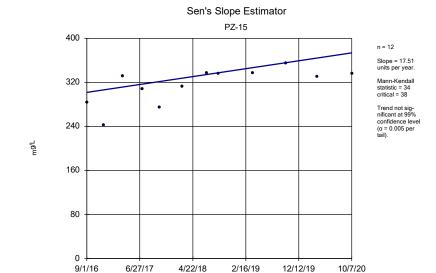
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: Sulfate Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

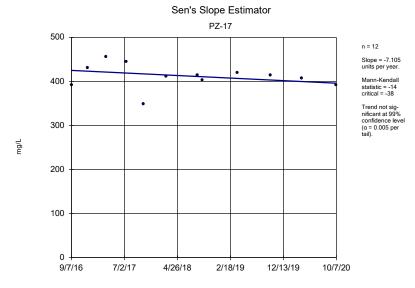


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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

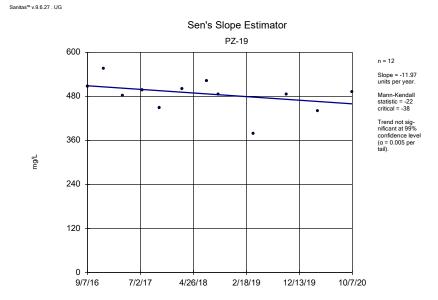


Sanitas™ v.9.6.27 . UG

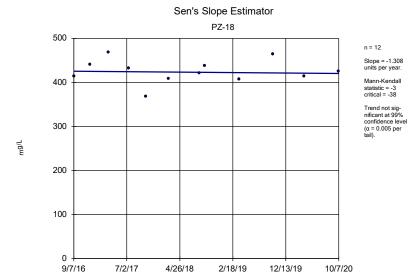
Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



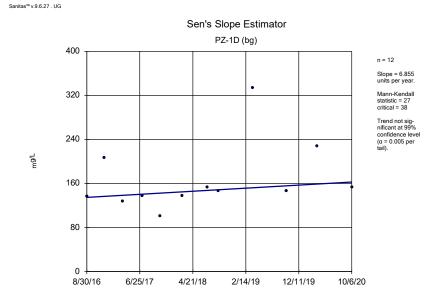
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

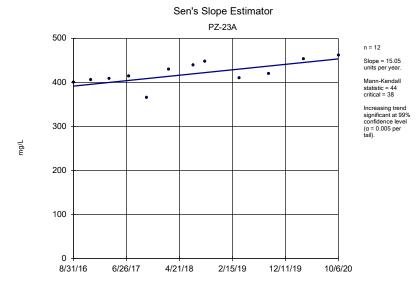


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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

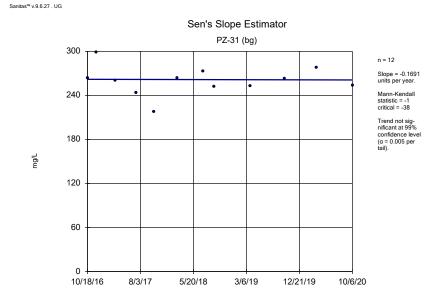


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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas** v.9.6.27 . UG

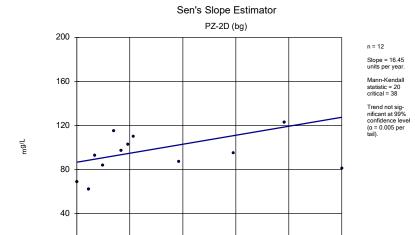


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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



Constituent: TDS Analysis Run 12/8/2020 1:47 PM View: Appendix III

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR



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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

10/8/19

4/7/20

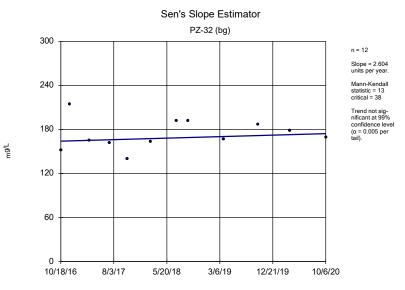
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4/10/19



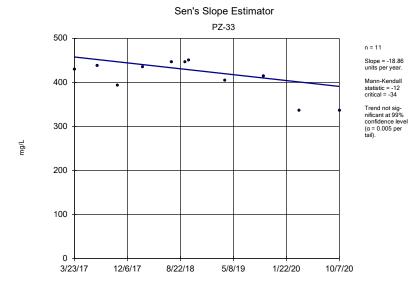
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10/10/18



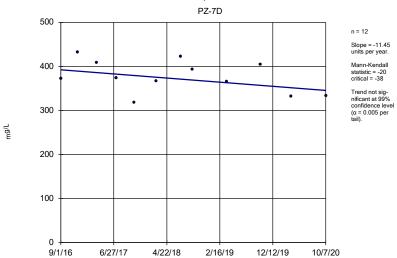
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Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas** v.9.6.27 . UG



Constituent: TDS Analysis Run 12/8/2020 1:48 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sen's Slope Estimator



Constituent: TDS Analysis Run 12/8/2020 1:48 PM View: Appendix III
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

FIGURE F.

Upper Tolerance Limit

		Plant Mitchell Clie	nt: Southern Co	mpany	Data: Mitchell Ash	Pond (CCR	Printed 12	2/8/2020, 3:30 PM		
Constituent	<u>Well</u>	Upper Lim.	Lower Lim.	<u>Date</u>	Observ.	Sig.	Bg N	%NDs	Transform	<u>Alpha</u>	Method
Antimony (mg/L)	n/a	0.0035	n/a	n/a	n/a	n/a	48	54.17	n/a	0.08526	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	44	86.36	n/a	0.1047	NP Inter(NDs)
Barium (mg/L)	n/a	0.05872	n/a	n/a	n/a	n/a	48	2.083	ln(x)	0.05	Inter
Beryllium (mg/L)	n/a	0.003	n/a	n/a	n/a	n/a	36	94.44	n/a	0.1578	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	36	100	n/a	0.1578	NP Inter(NDs)
Chromium (mg/L)	n/a	0.011	n/a	n/a	n/a	n/a	48	25	n/a	0.08526	NP Inter(normality)
Cobalt (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	48	95.83	n/a	0.08526	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	1.783	n/a	n/a	n/a	n/a	46	0	sqrt(x)	0.05	Inter
Fluoride (mg/L)	n/a	0.29	n/a	n/a	n/a	n/a	52	42.31	n/a	0.06944	NP Inter(normality)
Lead (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	48	77.08	n/a	0.08526	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	48	81.25	n/a	0.08526	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	40	90	n/a	0.1285	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	48	79.17	n/a	0.08526	NP Inter(NDs)
Selenium (mg/L)	n/a	0.01	n/a	n/a	n/a	n/a	48	100	n/a	0.08526	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	48	87.5	n/a	0.08526	NP Inter(NDs)

FIGURE G.

PLANT MITCHELL ASH POND GWPS									
Constituent Name	MCL	Background Limit	GWPS						
Antimony, Total (mg/L)	0.006	0.0035	0.006						
Arsenic, Total (mg/L)	0.01	0.005	0.01						
Barium, Total (mg/L)	2	0.059	2						
Beryllium, Total (mg/L)	0.004	0.003	0.004						
Cadmium, Total (mg/L)	0.005	0.0025	0.005						
Chromium, Total (mg/L)	0.1	0.011	0.1						
Cobalt, Total (mg/L)	n/a	0.005	0.005						
Combined Radium, Total (pCi/L)	5	1.8	5						
Fluoride, Total (mg/L)	4	0.29	4						
Lead, Total (mg/L)	n/a	0.005	0.005						
Lithium, Total (mg/L)	n/a	0.03	0.03						
Mercury, Total (mg/L)	0.002	0.0005	0.002						
Molybdenum, Total (mg/L)	n/a	0.01	0.01						
Selenium, Total (mg/L)	0.05	0.01	0.05						
Thallium, Total (mg/L)	0.002	0.001	0.002						

^{*}MCL = Maximum Contaminant Level

FIGURE H.

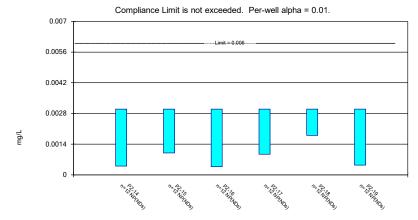
Confidence Intervals Summary - All Results (No Significant)

Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 4:07 PM Constituent <u>Well</u> $\underline{\text{Compliance Sig. N}}$ Mean Std. Dev. %NDs ND Adj. Transform Alpha Method Upper Lim. Lower Lim. NP (NDs) PZ-14 0.003 0.0004 12 0.002783 0.0007506 91.67 None Antimony (mg/L) No No 0.01 Antimony (mg/L) 83.33 None PZ-15 0.003 0.001 0.006 No 12 0.002635 0.0008563 No 0.01 NP (NDs) PZ-16 0.003 12 0.002781 0.0007592 NP (NDs) Antimony (ma/L) 0.00037 0.006 No 91.67 None 0.01 No Antimony (mg/L) P7-17 0.003 0.00094 0.006 No 12 0.002629 0.0008689 83.33 None No 0.01 NP (NDs) Antimony (mg/L) PZ-18 0.003 0.0018 0.006 No 12 0.002767 0.0005516 0.01 NP (NDs) 83.33 None No No Antimony (mg/L) PZ-19 0.003 0.00044 12 0.002787 0.000739 0.01 NP (NDs) 0.006 91.67 None No PZ-23A 0.003 0.00038 12 0.002782 0.0007563 NP (NDs) Antimony (mg/L) 0.006 No 91.67 None No 0.01 Antimony (mg/L) PZ-33 0.003 0.00037 0.006 No 12 0.002781 0.0007592 No 0.01 NP (NDs) 0.002335 Antimony (mg/L) PZ-7D 0.003 0.00031 0.006 No 12 0.001203 75 None Nο 0.01 NP (NDs) Barium (mg/L) PZ-14 0.03714 0.01838 2 No 0.02816 0.01364 None sqrt(x) 0.01 PZ-15 0.07246 0.04991 No 12 0.06183 Barium (mg/L) 2 0.0165 0 None In(x) 0.01 Param. PZ-16 2 No 12 0.04591 Barium (mg/L) 0.0689 0.034 0.01408 0 0.01 NP (normality) PZ-17 2 0.07719 0 Barium (mg/L) 0.08083 0.07355 No 12 0.004635 0.01 Param. None No Barium (mg/L) PZ-18 0.0513 0.023 2 No 12 0.03133 0.01488 None No NP (normality) P7-19 Barium (mg/L) 0.06019 0.0528 2 Nο 12 0.05649 0.004707 n None Nο 0.01 Param Barium (mg/L) 0.03699 2 No 0.04593 0.01139 No 0.01 None Barium (mg/L) P7-25 0.11 0.0997 2 Nο 12 0.1034 0.005199 0 None Nο 0.01 NP (normality) Barium (mg/L) PZ-33 0.07679 0.05702 2 No 11 0.06691 0.01186 0 0.01 Param. None No Barium (mg/L) P7-7D 0.01075 0.007288 2 No 12 0.009017 0.002203 0 None No 0.01 Chromium (ma/L) P7-14 0.01 0.0011 0.1 No 12 0.007782 0.004014 75 No 0.01 NP (NDs) None Chromium (mg/L) PZ-16 0.01 8000.0 0.1 Nο 12 0.006209 0.004689 58.33 None Nο 0.01 NP (NDs) Chromium (mg/L) PZ-18 0.01 12 0.009213 NP (NDs) 0.00056 0.1 No 0.002725 91.67 None No 0.01 Chromium (mg/L) PZ-19 0.01 0.00073 0.1 No 12 0.009227 0.002676 0.01 NP (NDs) 91.67 None No 0.01 0.0012 No 0.003933 0.003761 NP (normality) Chromium (mg/L) PZ-23A 0.1 12 25 None No 0.01 Chromium (mg/L) PZ-33 0.01 0.0017 0.1 No 12 0.009308 0.002396 91.67 None 0.01 NP (NDs) Chromium (ma/L) PZ-7D 0.01 0.0005 0.1 No 12 0.004875 0.004575 41.67 None 0.01 NP (normality) Nο Cobalt (mg/L) P7-14 0.005 0.002 0.005 No 12 0.004358 0.001542 0.01 NP (NDs) 83.33 None No 0.003167 Cobalt (mg/L) PZ-15 0.005 0.0004 12 0.002275 NP (NDs) 0.005 No 58.33 None 0.01 No Cobalt (mg/L) PZ-16 0.005 0.0005 12 0.004625 0.001299 NP (NDs) 0.005 No 0.01 PZ-17 0.005 12 0.002802 NP (normality) Cobalt (mg/L) 0.0005 0.005 No 0.002303 50 None No 0.01 Cobalt (mg/L) PZ-18 0.005 0.0011 0.005 No 12 0.004675 0.001126 None NP (NDs) P7-19 0.005 0.0012 Nο 0.004342 0.001539 0.01 NP (NDs) Cobalt (mg/L) 0.005 12 83.33 None Nο Cobalt (mg/L) PZ-23A 0.005 0.00058 0.005 No 0.003529 0.002175 None No 0.01 NP (NDs) Cobalt (mg/L) PZ-25 0.0018 0.0008 12 0.001496 0.001162 0.01 NP (normality) 0.005 No 8.333 None Nο Cobalt (mg/L) PZ-33 0.005 0.00053 0.005 No 12 0.003152 0.002146 50 No 0.01 NP (normality) None Combined Radium 226 + 228 (pCi/L) PZ-14 1.152 0.3085 5 No 12 0.7628 0.6096 0 None sqrt(x) 0.01 Param. Combined Radium 226 + 228 (pCi/L) PZ-15 1.172 0.6466 5 Nο 12 0.9188 0.3714 None sqrt(x) 0.01 Param. Combined Radium 226 + 228 (pCi/L) PZ-16 0.9753 0.4541 5 Nο 12 0.7147 0.3321 0 None No 0.01 Param. Combined Radium 226 + 228 (pCi/L) 1.35 5 No 0 PZ-17 0.6643 11 1.007 0.4112 0.01 Param. None No Combined Radium 226 + 228 (pCi/L) PZ-18 1.432 0.4765 5 No 10 0.9541 0.5353 0 None 0.01 Param. No Combined Radium 226 + 228 (pCi/L) PZ-19 1.473 0.7657 5 No 12 1.119 0.4508 0 0.01 Param. None No Combined Radium 226 + 228 (pCi/L) P7-23A 1.326 0.766 5 No 12 1.046 0.3565 0 None No 0.01 Param. Combined Radium 226 + 228 (pCi/L) PZ-25 1.287 0.841 5 No 12 1.064 0.2843 0 0.01 Param. No None Combined Radium 226 + 228 (pCi/L) PZ-33 1.106 0.5856 5 No 12 0.846 0.3319 0 0.01 Param. None No Combined Radium 226 + 228 (pCi/L) 12 0 PZ-7D 0.6563 0.1595 5 No 0.4285 0.3741 0.01 Param. None sart(x) PZ-14 0.11 0.05 4 No 13 0.08892 0.02636 NP (NDs) Fluoride (mg/L) None No 0.01 Fluoride (mg/L) PZ-15 0.1387 0.07074 4 No 13 0.1118 0.05007 0.01 Param. 23.08 Kaplan-Meier sqrt(x) Fluoride (mg/L) PZ-16 0.1 0.05 No 13 0.08177 0.02548 53.85 Kaplan-Meier NP (NDs) 4 0.01 Fluoride (ma/L) PZ-17 0.1562 0.05733 4 Nο 13 0.1289 0.06857 30.77 Kaplan-Meier 0.01 Param. Nο 0.05633 13 Fluoride (mg/L) PZ-18 0.1194 4 No 0.103 0.03767 Kaplan-Meier 0.01 0.1462 0.06916 4 Nο 13 0.1216 0.08232 Fluoride (mg/L) PZ-19 15.38 Kaplan-Meier In(x) 0.01 Param. Fluoride (mg/L) PZ-23A 0.101 0.04841 No 13 0.1009 0.06622 Kaplan-Meier ln(x) 0.01 Param. Fluoride (mg/L) PZ-25 0.2679 0.1614 4 Nο 13 0.2146 0.0716 0 None Nο 0.01 Param. PZ-33 No Fluoride (mg/L) 0.18 0.06 4 13 0.1076 0.04758 None NP (NDs) P7-7D 0.15 0.041 4 Nο 0.08815 0.03377 61.54 None 0.01 NP (NDs) Fluoride (ma/L) 13

Confidence Intervals Summary - All Results (No Significant)

Client: Southern Company Data: Mitchell Ash Pond CCR Printed 12/8/2020, 4:07 PM Constituent <u>Well</u> $\underline{\text{Compliance Sig. N}}$ Mean Std. Dev. %NDs ND Adj. Transform Alpha Method Upper Lim. Lower Lim. PZ-15 0.005 0.00005 0.005 No 12 0.004587 0.001429 91.67 None 0.01 NP (NDs) Lead (mg/L) No 0.000081 Lead (mg/L) PZ-16 0.005 0.005 No 12 0.00459 0.00142 91.67 None No 0.01 NP (NDs) PZ-18 0.005 0.00043 12 0.004206 0.001856 NP (NDs) Lead (mg/L) 0.005 No 83.33 None 0.01 No 91.67 None Lead (mg/L) PZ-19 0.005 0.000042 0.005 No 12 0.004587 0.001431 No 0.01 NP (NDs) Lead (mg/L) PZ-23A 0.005 0.00015 0.005 No 12 0.004183 0.001908 0.01 NP (NDs) 83.33 None No 83.33 None Lead (mg/L) PZ-33 0.005 0.00009 0.005 12 0.004178 0.00192 0.01 NP (NDs) No No Lithium (mg/L) PZ-14 0.03 0.003 12 0.02775 0.007794 NP (NDs) 0.03 No 91.67 None No 0.01 Lithium (mg/L) PZ-15 0.03 0.0012 0.03 No 12 0.01324 0.01479 41.67 None No 0.01 NP (normality) 0.03 Lithium (mg/L) PZ-17 0.002 0.03 No 12 0.00705 0.01073 16.67 None Nο 0.01 NP (normality) Lithium (mg/L) PZ-18 0.03 0.0024 0.03 No 0.007217 0.01064 None NP (normality) PZ-19 0.01467 12 0.01208 0 Param. Lithium (mg/L) 0.009498 0.03 No 0.003295 None Nο 0.01 PZ-23A 0.03 0.0011 12 0.02276 0.01309 NP (NDs) Lithium (mg/L) 0.03 No 75 0.01 Lithium (mg/L) 0.005958 PZ-25 0.006773 0.005229 No 12 0.001097 0 x^2 0.01 Param. 0.03 None Lithium (mg/L) PZ-7D 0.0038 0.0022 0.03 12 0.005083 0.007865 No NP (normality) P7-14 Mercury (mg/L) 0.0005 0.00015 0.002 No 10 0.000422 0.0001655 80 None Nο 0.011 NP (NDs) Mercury (mg/L) PZ-15 0.0005 0.0005 0.002 No 0.0004597 0.0001274 No 0.011 NP (NDs) None 0.011 NP (NDs) Mercury (mg/L) P7-16 0.0005 0.0005 0.002 No 10 0.0004568 0.0001366 90 None Nο No 10 Mercury (mg/L) PZ-17 0.0005 0.0005 0.002 0.0004586 0.0001309 0.011 NP (NDs) 90 None No Mercury (mg/L) PZ-18 0.0005 0.0005 0.002 No 10 0.0004557 0.0001401 90 None No 0.011 NP (NDs) Mercury (ma/L) PZ-19 0.0005 0.0001 0.002 No 10 0.0004145 0.0001807 80 No 0.011 NP (NDs) None Mercury (mg/L) PZ-23A 0.0005 0.00017 0.002 No 10 0.000426 0.0001571 80 None Nο 0.011 NP (NDs) 0.0005 0.0005 10 0.011 NP (NDs) Mercury (mg/L) PZ-25 0.002 No 0.0004553 0.0001414 90 No None Mercury (mg/L) PZ-33 0.0005 0.000043 0.002 No 10 0.0003694 0.0002111 No 0.011 NP (NDs) 70 None Mercury (mg/L) 0.0005 0.00006 0.0004113 0.000187 0.011 NP (NDs) PZ-7D 0.002 No 10 80 None No Molybdenum (mg/L) PZ-14 0.01 0.0005 0.01 No 0.009208 0.002742 91.67 None No 0.01 NP (NDs) Molybdenum (mg/L) PZ-15 0.01 0.0004 0.01 No 12 0.0092 0.002771 91.67 None 0.01 NP (NDs) Nο Molybdenum (mg/L) PZ-16 0.01 0.0004 0.01 No 12 0.0092 0.002771 91.67 None 0.01 NP (NDs) No 0.002771 PZ-17 0.01 0.0004 12 0.0092 NP (NDs) Molybdenum (mg/L) 0.01 No 91.67 None 0.01 No Molybdenum (mg/L) PZ-19 0.0027 0.002 12 0.002883 0.002252 NP (normality) 0.01 8.333 None 0.01 PZ-23A 0.01 0.0011 12 0.008475 0.003563 NP (NDs) Molybdenum (mg/L) 0.01 No 83.33 None No 0.01 Molybdenum (mg/L) PZ-25 0.01 0.001 0.01 No 12 0.00925 0.002598 91.67 None NP (NDs) P7-14 0.01 0.0015 Nο 0.008558 0.003368 0.01 NP (NDs) Selenium (mg/L) 0.05 12 83.33 None Nο Selenium (mg/L) PZ-15 0.01 0.0018 0.05 No 0.009317 0.002367 91.67 None No NP (NDs) PZ-19 0.01 0.0016 No 12 0.006925 0.003847 0.01 NP (NDs) Selenium (mg/L) 0.05 58.33 None Nο Selenium (mg/L) PZ-23A 0.01 0.0018 0.05 No 12 0.006792 0.003986 58.33 None No 0.01 NP (NDs) Selenium (mg/L) PZ-7D 0.01 0.0018 0.05 No 12 0.008625 0.003211 83.33 None Nο 0.01 NP (NDs) Thallium (mg/L) PZ-14 0.001 0.00006 0.002 No 12 0.0009217 0.0002714 91.67 None No 0.01 NP (NDs) Thallium (mg/L) PZ-15 0.001 0.00016 0.002 No 12 0.0007325 0.0003963 66.67 None No 0.01 NP (NDs) 0.001 0.00017 NP (normality) Thallium (mg/L) PZ-16 0.002 No 12 0.0005836 0.0004366 No 0.01 50 None Thallium (mg/L) PZ-17 0.001 0.0002 0.002 No 0.0007358 0.0003907 66.67 None No 0.01 NP (NDs) Thallium (mg/L) PZ-18 0.001 0.00005 0.002 No 0.0007634 0.000428 0.01 NP (NDs) 75 None No Thallium (mg/L) PZ-19 0.0007625 0.0004325 0.002 No 12 0.0005975 0.0002103 8.333 None No 0.01 Thallium (mg/L) PZ-23A 0.001 0.00015 0.002 No 12 0.0004625 0.0004001 0.01 NP (normality) 33.33 None No Thallium (mg/L) PZ-25 0.001 0.00027 0.002 No 12 0.0007708 0.0003403 66.67 None No 0.01 NP (NDs) PZ-33 NP (NDs) Thallium (mg/L) 0.001 0.0001 0.002 No 12 0.0006358 0.0004506 0.01 58.33 None No Thallium (mg/L) PZ-7D 0.001 0.000085 0.002 12 0.0006303 0.0004579 58.33 None 0.01 NP (NDs)

Non-Parametric Confidence Interval

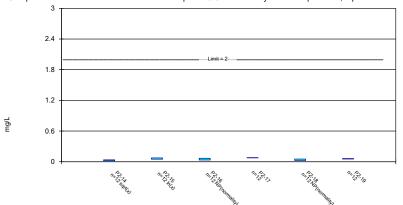


Constituent: Antimony Analysis Run 12/8/2020 4:04 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.

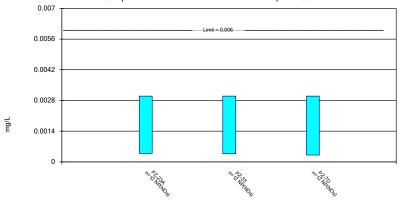


Constituent: Barium Analysis Run 12/8/2020 4:04 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

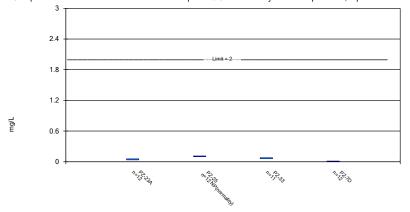


Constituent: Antimony Analysis Run 12/8/2020 4:04 PM

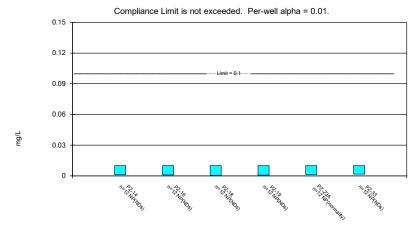
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.



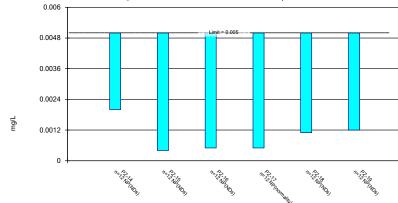
Non-Parametric Confidence Interval



Constituent: Chromium Analysis Run 12/8/2020 4:05 PM Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

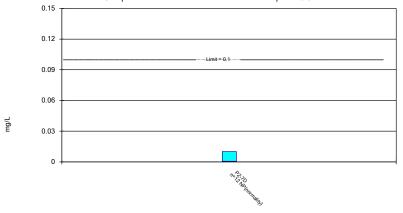
Non-Parametric Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 12/8/2020 4:05 PM Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Non-Parametric Confidence Interval

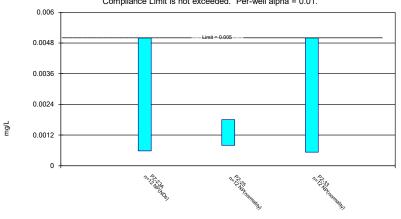
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Constituent: Chromium Analysis Run 12/8/2020 4:05 PM Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

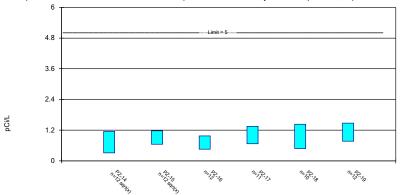
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval Compliance Limit is not exceeded. Per-well alpha = 0.01.



Parametric Confidence Interval

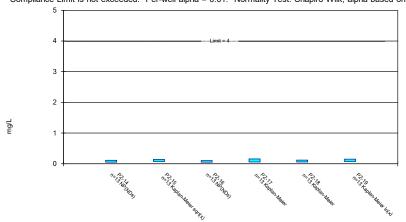
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 4:05 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 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.

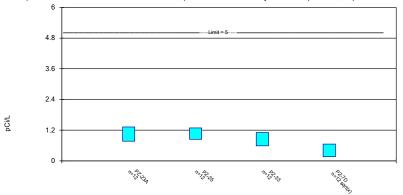


Constituent: Fluoride Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

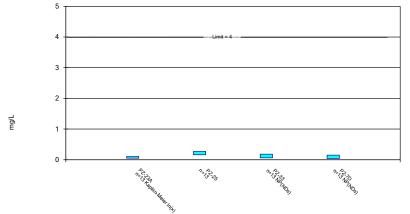


Constituent: Combined Radium 226 + 228 Analysis Run 12/8/2020 4:05 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

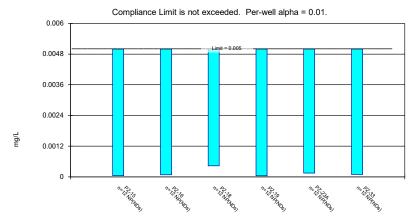
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

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.





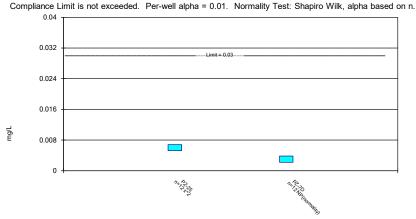


Constituent: Lead Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

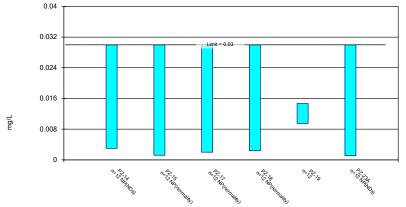


Constituent: Lithium Analysis Run 12/8/2020 4:05 PM

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.

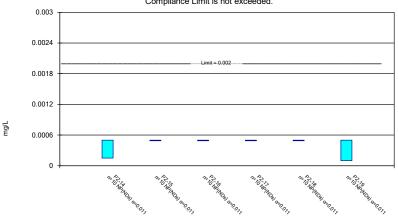


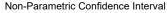
Constituent: Lithium Analysis Run 12/8/2020 4:05 PM

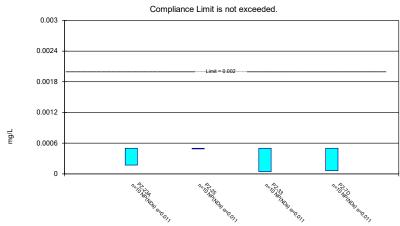
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval Compliance Limit is not exceeded.







Constituent: Mercury Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

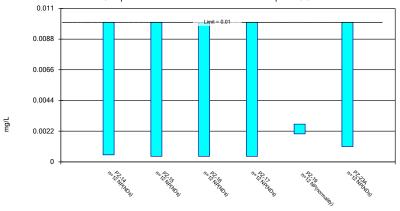
Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval



Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

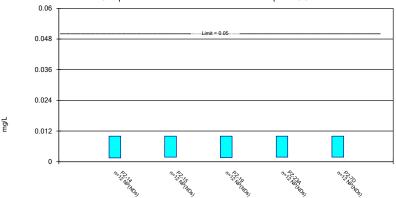


Constituent: Molybdenum Analysis Run 12/8/2020 4:05 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

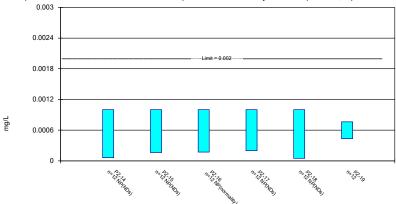
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Sanitas™ v.9.6.27 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.

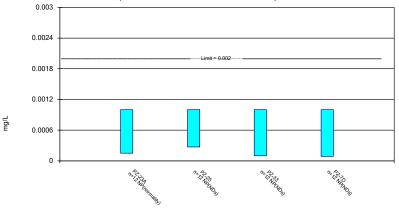


Constituent: Thallium Analysis Run 12/8/2020 4:05 PM
Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR

Sanitas™ v.9.6.27 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 12/8/2020 4:05 PM

Plant Mitchell Client: Southern Company Data: Mitchell Ash Pond CCR