January 22, 2025

Mr. Trent Jones, P.E.
Chief, Waste Division
Mississippi Department of Environmental Quality
PO Box 2261
Jackson, MS 39225

Re: **Notification of Availability of 2024 Annual CCR Report**
Choctaw Generation Limited Partnership, L.L.L.P.
Ackerman, Mississippi (Choctaw County)
Agency Interest No. 677

Dear Mr. Jones:

In accordance with the requirements of 40 CFR 257.106(h)(1), Choctaw Generation Limited Partnership, L.L.L.P. (Choctaw Generation) is hereby notifying the Mississippi Department of Environmental Quality that the Coal Combustion Residuals (CCR) Groundwater Monitoring and Corrective Action Annual Report for calendar year 2024 has been placed in the facility's Operating Record and is available for review on the publicly accessible internet site.

Should you have any questions regarding this notification, please contact Jim Ward of Choctaw Generation at (662) 387-5758 or myself at (662) 840-5945.

Sincerely,

Brian Ketchum, PE
Principal, Senior Engineer

Cc: Jim Ward, PG, Environmental Compliance, Choctaw Generation (via email)
Rob Watson, VP, Asset Management, Choctaw Generation (via email)
Kirk Shelton, ECS (via email)

COAL COMBUSTION RESIDUALS (CCR) GROUNDWATER MONITORING AND CORRECTIVE ACTION ANNUAL REPORT

CHOCTAW GENERATION LIMITED PARTNERSHIP, L.L.L.P.
2391 PENSACOLA ROAD
ACKERMAN, MS 39735
(662) 387-5758

JANUARY 22, 2025

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1.0 INTRODUCTION

1.1 SITE DESCRIPTION AND REGULATORY APPLICABILITY

Choctaw Generation Limited Partnership, L.L.L.P. (Choctaw Generation) is located near the City of Ackerman in Choctaw County, Mississippi. Choctaw Generation is in north central Mississippi on a 170-acre site. Choctaw Generation is bounded on the south by Pensacola Road and is located ½ mile west of US Highway 9. Figure 1 shows the location of the site. Choctaw Generation operates a single unit electrical generation facility designed to generate electricity for dispatch to the Tennessee Valley Authority (TVA) electrical system. The primary boiler fuel is lignite coal. As a result of combusting lignite coal, ash is created and must be disposed of or re-purposed. Choctaw Generation owns and operates an existing Ash Management Unit (AMU) for the placement and disposal of ash. The AMU (or CCR unit) is located in the northeastern portion of the property and consists of three (3) cells, as shown in Figure 2. The CCR unit encompasses approximately sixty-four (64) acres of the Choctaw Generation site.

The site is currently regulated by the Mississippi Department of Environmental Quality (MDEQ) Solid Waste Regulations and Solid Waste Permit No. SW0100040462. The site is also required to comply with the Groundwater Monitoring and Corrective Action requirements of 40 CFR Part 257, Subpart D – Standards for the Disposal of Coal Combustion Residuals (CCR) in Landfills and Surface Impoundments. As an existing CCR landfill, the site was required to be in compliance with the following groundwater monitoring requirements by October 17, 2017:

- Install a groundwater monitoring system as required by §257.91;
- Develop a groundwater sampling and analysis program to include selection of the statistical procedures to be used for evaluating groundwater monitoring data as required by §257.93;
- Initiate the detection monitoring program to include obtaining a minimum of eight (8) independent samples for each background and downgradient well as required by §257.94(b); and
- Evaluate groundwater monitoring data for statistically significant increases over background levels for the constituents listed in Appendix III of Subpart D as required by §257.94.

The Choctaw Generation groundwater monitoring system was completed in accordance with the groundwater monitoring performance standards of §257.91 by June 2016. The initial Choctaw Generation CCR unit groundwater monitoring system consisted of three (3) background or upgradient wells and eight (8) downgradient wells. A Groundwater Monitoring Plan was developed in August 2016 in accordance with the groundwater sampling and analysis program requirements of §257.93. The Groundwater Monitoring Plan was updated in January 2019 to address an additional well installed at the site. The current Groundwater Monitoring Plan is available in the Choctaw Generation Operating Record and CCR Website. Sampling of the groundwater wells is conducted in accordance with the most current version of the

Groundwater Monitoring Plan. Eight (8) independent samples were collected and analyzed prior to October 17, 2017, initiating the groundwater monitoring program at the site.

Over time, wells have been replaced, added, and removed due to compromised well integrity as well as change in monitoring requirements. These changes are discussed further in Section 3.0. The current Choctaw Generation CCR unit groundwater monitoring system consists of three (3) background or upgradient wells and seven (7) downgradient wells which ensure complete coverage of the CCR unit. A facility diagram showing the monitoring well locations is included as Figure 2.

1.2 ANNUAL REPORT REQUIREMENTS

Choctaw Generation is required to prepare an annual groundwater monitoring and corrective action report (the Annual Report) no later than January 31, 2018, and annually thereafter, and place the report in the Operating Record. The Annual Report is also made available on the CCR Website within 30 days of filing the report in the Operating Record. The Annual Report must be maintained in the Operating Record and on the CCR Website for at least five (5) years.

Per §257.90(e), the Annual Report must document the status of the groundwater monitoring and corrective action program for the CCR unit, summarize key actions completed, describe any problems encountered, discuss actions to resolve the problems, and project key activities for the upcoming year. At a minimum, the Annual Report must contain the following information, to the extent available:

- A map, aerial image, or diagram showing the CCR unit and all background (or upgradient) and downgradient monitoring wells, to include the well identification numbers, that are part of the groundwater monitoring program for the CCR unit;
- Identification of any monitoring wells that were installed or decommissioned during the preceding year, along with a narrative description of why those actions were taken;
- In addition to all the monitoring data obtained under §§257.90 through 257.98, a summary including the number of groundwater samples that were collected for analysis for each background and downgradient well, the dates the samples were collected, and whether the sample was required by the detection monitoring or assessment monitoring programs;
- A narrative discussion of any transition between monitoring programs (e.g., the date and circumstances for transitioning from detection monitoring to assessment monitoring in addition to identifying the constituent(s) detected at a statistically significant increase over background levels); and
- Other information required to be included in the annual report as specified in §§257.90 through 257.98.

- A section at the beginning of the annual report that provides an overview of the current status of groundwater monitoring and corrective action programs for the CCR unit. At a minimum, the summary must specify all of the following:
    - At the start of the current annual reporting period, whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;
    - At the end of the current annual reporting period whether the CCR unit was operating under the detection monitoring program in §257.94 or the assessment monitoring program in §257.95;
    - If it was determined that there was a statistically significant increase over background for one or more constituents listed in Appendix III to the part pursuant to §257.94(e);
        - Identify those constituents listed in Appendix III to this part and the names of the monitoring wells associated with such an increase; and
        - Provide the date when the assessment monitoring program was initiated for the CCR unit.
    - If it was determined that there was a statistically significant level above the groundwater protection standard for one or more constituents listed in appendix IV to this part pursuant to §257.95(g) include all of the following:
        - Identify those constituents listed in Appendix IV to this part and the names of the monitoring wells associated with such an increase;
        - Provide the date when the assessment of corrective measures was initiated for the CCR unit;
        - Provide the date when the public meeting was held for the assessment of corrective measures for the CCR unit; and
        - Provide the date when the assessment of corrective measures was completed for the CCR unit.
    - Whether a remedy was selected pursuant to §257.97 during the current annual reporting period, and if so, the date of the remedy selection; and
    - Whether remedial activities were initiated or are ongoing pursuant to §257.98 during the current annual reporting period.

To comply with the requirements above, a map of the CCR unit and all upgradient and downgradient monitoring wells that are part of the current groundwater monitoring system are shown on Figure 2. Section 2 contains an overview and discussion of the status and any transition between monitoring programs (i.e., detection monitoring versus assessment monitoring) and the reason such monitoring program is in place. A discussion of the current monitoring well system and any monitoring wells installed or decommissioned is provided in Section 3.0. A summary of the monitoring data obtained during the annual reporting period is provided in Section 4.0. Section 5.0 presents additional information required by §§257.90 through 257.98 to be included in the Annual Report and which is not already addressed in the prior sections. Finally, Section 6.0 summarized actions completed during the reporting year and projects key activities planned for the following reporting year.

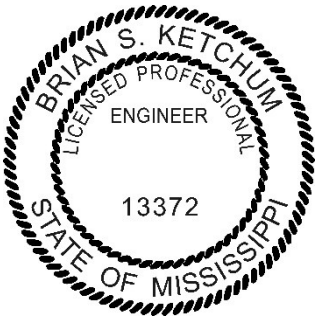
1.3 PROFESSIONAL ENGINEER CERTIFICATION

The undersigned Registered Professional Engineer is familiar with the requirements of 40 CFR Part 257, Subpart D and certifies that the Groundwater Monitoring and Corrective Action Annual Report was prepared under his/her direct supervision, in accordance with the requirements of 40 CFR 257.90 through 257.98. The undersigned Registered Professional Engineer certifies under penalty of the law that all information and statements provided in this report (including attachments), based on information and belief formed after reasonable inquiry, are true, accurate, and complete.

1/22/2025

Brian S. Ketchum, PE
Registration Number: 13372
State of Mississippi

Date Signed



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2.0 OVERVIEW: DETECTION AND ASSESSMENT MONITORING

Choctaw Generation began the reporting year and is currently subject to the Assessment Monitoring Program requirements of §257.95, and groundwater monitoring as required by this program is discussed in Section 4.0. It was previously determined that there was a statistically significant increase over background for more than one constituent listed in Appendix III (e.g., chloride, sulfate, and TDS). A description of both the Detection Monitoring Program and Assessment Monitoring Program is provided below and includes a history of the monitoring as well any changes that occurred during the previous calendar year. It was determined in 2018 that there was a statistically significant level above the groundwater protection standard (GWPS) for lithium in monitoring wells CCR-3 and MW-9, cobalt in monitoring wells MW-9, MW-12, and MW-15, and later beryllium in MW-9. A review of the monitoring data suggested that the detection of lithium, cobalt, and beryllium above the GWPS could have been from an alternate source rather than a potential release of the CCR unit resulting in an Alternate Source Demonstration (ASD) being completed in December 2019. Therefore, the site continues in assessment monitoring.

2.1 DETECTION MONITORING PROGRAM

For existing CCR landfills, including the Choctaw Generation AMU, a minimum of eight (8) independent samples from each background and downgradient well must be collected and analyzed for the constituents listed in Appendix III and Appendix IV of 40 CFR 257, Subpart D by no later than October 17, 2017. These constituents are listed in Tables 4-1 and 4-2. After the eight (8) initial sampling events are completed to develop background data, the detection monitoring must be performed on a semiannual basis during the active life of the CCR unit and the post-closure period unless assessment monitoring is triggered.

In accordance with the requirements of the Detection Monitoring Program in §257.94(b), one (1) sample from each background (or upgradient) and downgradient well was analyzed for the seven (7) parameters in Appendix III on February 6-7, 2018. An evaluation of these results indicated statistically significant increases (SSI) above the prediction limits established during background monitoring for the following parameters in the associated wells: chloride (MW-9, MW-12, and MW-16), fluoride (MW-9 and OW-2), sulfate (CCR-3, MW-9, MW-12, MW-16, and OW-2), and TDS (CCR-3, MW-9, and MW-16). Therefore, the requirements of the Assessment Monitoring Program were triggered.

2.2 ASSESSMENT MONITORING PROGRAM

Due to SSI exceedances determined during the initial detection monitoring event on February 6-7, 2018, Choctaw Generation triggered the Assessment Monitoring Program under §257.95.

- On May 15-16, 2018, Choctaw Generation conducted the initial annual assessment monitoring event for all Appendix IV constituents. Choctaw Generation then conducted the first semiannual

assessment monitoring event on September 10-11, 2018, and the subsequent semiannual assessment monitoring event on March 19-20, 2019, for all Appendix III constituents and the ten (10) Appendix IV constituents previously detected during the annual Appendix IV monitoring event.

- On May 29-30, 2019, the annual monitoring event for all Appendix IV constituents was conducted. Based on the sampling results, twelve (12) Appendix IV constituents were detected, adding selenium and molybdenum to the Appendix IV constituents to be monitored during semiannual assessment monitoring events. The next two (2) semiannual assessment monitoring events were conducted on September 10-11, 2019, and March 25-26, 2020. These events included sampling for all Appendix III constituents and those Appendix IV constituents detected during the 2018 and 2019 annual monitoring events.

- On May 18, 2020, the annual monitoring event for all Appendix IV constituents was conducted. No new Appendix IV constituents were detected requiring no new constituents to be sampled in subsequent semiannual assessment monitoring events. The next two (2) semiannual assessment monitoring events were conducted on September 28, 2020, and March 15-16, 2021. These events included sampling for all Appendix III constituents and those Appendix IV constituents detected during previous annual monitoring events.

- On May 26, 2021, the annual monitoring event for all Appendix IV constituents was conducted. No new Appendix IV constituents were detected requiring no new constituents to be sampled in subsequent semiannual assessment monitoring events. The semiannual assessment monitoring events occurred on September 8, 2021, and March 23-24, 2022. Although the 2021 annual monitoring event is required to include Appendix IV constituents only, the laboratory analyzed the samples for boron and calcium (Appendix III) in addition to all Appendix IV constituents. Therefore, these results were included as part of the 2021 annual report.

- On May 31, 2022, the annual monitoring event for all Appendix IV constituents was conducted. No new Appendix IV constituents were detected requiring no new constituents to be monitored during subsequent semiannual monitoring events. The next two (2) semiannual assessment monitoring events were conducted on September 12-13, 2022, and March 13, 2023. These events included sampling for all Appendix III constituents and those Appendix IV constituents detected during previous annual monitoring events.

- On May 10, 2023, the annual monitoring event for all Appendix IV constituents was conducted. No new Appendix IV constituents were detected requiring no new constituents to be sampled in subsequent semiannual assessment monitoring events. The next two (2) semiannual events were conducted on September 13, 2023, and March 13-14, 2024. These events included sampling for

all Appendix III constituents and those Appendix IV constituents detected during previous annual monitoring events.

- On May 21, 2024, the annual monitoring event for all Appendix IV constituents was conducted. No new Appendix IV constituents were detected requiring no new constituents to be sampled in subsequent semiannual assessment monitoring events. The next semiannual event occurred on September 18, 2024. The bladder pump for MW-13 was observed damaged during the September 18, 2024 sampling event. The bladder pump was replaced, and the well was sampled on October 30, 2024. The follow up semiannual event is planned for March 2025.

GWPS for all constituents detected during the initial and subsequent assessment monitoring events were established per the procedures in §257.95(h). All current Appendix IV constituents that are sampled during the semiannual assessment monitoring events are listed in Section 4.3.

The Appendix III and Appendix IV results from the sampling conducted during the reporting period, the background concentrations (or "prediction limits") established under §257.94(b), and the GWPS established under §257.95(d)(2) are included in Appendix D of the Annual Report.

Due to a verified statistically significant increase (SSI) of Appendix IV constituents above the GWPS (lithium in monitoring wells CCR-3 and MW-9 and cobalt in monitoring wells MW-9, MW-12, and MW-15), Choctaw Generation initiated an assessment of corrective measures on January 30, 2019. The Assessment of Corrective Measures (ACM) Report was completed on June 29, 2019, after a 60-day extension.

After review of the monitoring analytical data from the 2019 period, trends in groundwater concentration led to the prospect that the detection of lithium, cobalt, beryllium (not verified), and molybdenum (not verified) at a SSL above the GWPS could have been from an alternate source rather than a potential release of the CCR unit or associated AMU basin. As discussed in Section 5.2, An ASD was then successfully completed on December 17, 2019, providing an evidential conclusion that cobalt and lithium detected at SSLs were a result of an alternate source. Due to the successful ASD, Choctaw Generation immediately ceased and discontinued corrective measure activities and continued assessment monitoring. Beryllium was then detected at a SSL above the GWPS in MW-9 during the 2020 annual assessment monitoring event and verified in the second semiannual assessment monitoring event on September 28, 2020. After research and review of analytical data, the ASD was then revised on August 20, 2020, to successfully address beryllium. Therefore, Choctaw Generation has continued in assessment monitoring.

3.0 GROUNDWATER MONITORING SYSTEM

3.1 CURRENT GROUNDWATER MONITORING SYSTEM

The owner or operator of a CCR unit must install a groundwater monitoring system that consists of a sufficient number of wells, installed at appropriate locations and depths, to yield groundwater samples from the uppermost aquifer. The system should accurately represent the quality of background groundwater that has not been affected by leakage from a CCR unit (i.e., upgradient wells). In addition, the system should accurately represent the quality of groundwater passing the waste boundary of the CCR unit (i.e., downgradient wells). The downgradient wells should be installed at the waste boundary to ensure detection of groundwater contamination in the uppermost aquifer. The number, spacing, and depths of groundwater monitoring wells within the system were determined based upon site-specific technical information that included an assessment of items such as:

- Aquifer thickness and groundwater flow direction; and
- Saturated and unsaturated geologic units and fill materials overlying the uppermost aquifer, materials comprising the uppermost aquifer, and materials comprising the confining unit defining the lower boundary of the uppermost aquifer, including, but not limited to, thicknesses, stratigraphy, lithology, hydraulic conductivities, porosities and effective porosities.

The groundwater monitoring system must include a minimum number of monitoring wells necessary to meet the performance standards and information specified above. The direction of groundwater flow through the CCR unit is to the northwest, which has been consistently determined through ongoing solid waste permit groundwater monitoring events. The locations for the monitoring wells were based upon the known direction of groundwater movement. The monitoring wells screen the uppermost laterally continuous aquifer below the base of ash fill. The base of ash fill is at an approximate elevation of 480 feet mean sea level (msl). The zone is screened and monitored at an approximate elevation of 470 feet msl, but varies across the site and through the unit.

The system must contain a minimum of at least one (1) upgradient and three (3) downgradient monitoring wells. The initial Choctaw Generation CCR unit groundwater monitoring system consisted of three (3) background or upgradient wells and eight (8) downgradient wells to ensure complete coverage of the CCR unit, which consists of three (3) ash disposal cells covering approximately 64 acres. Additional downgradient wells CCR5 (2018) and CCR-6, CCR-7, and CCR-8 (2019) were added to the groundwater monitoring system. The integrity of downgradient well, MW-16, was compromised and was replaced by downgradient well, MW-17 (2019). Downgradient wells, MW-15 and MW-17, were also compromised (2020) and were abandoned and removed from the groundwater monitoring system. In addition, downgradient wells CCR-6, CCR-7, and CCR-8 that are located on the mine property were removed from the current groundwater system as they are no longer needed for delineation in response to corrective

measure requirements. As a result, the current CCR unit groundwater monitoring system consists of three (3) background or upgradient wells (i.e., MW-7, MW-13, and MW-14) and seven (7) downgradient wells (i.e., MW-9, MW-12, OW-2, CCR-2, CCR-3, CCR-4, and CCR-5). A map showing the monitoring well locations is included as Figure 2, and a summary of the current monitoring wells is included as Table 3-1 below. Monitoring wells were installed according to the guidelines established in the 1994 USEPA Region IV RCRA Subtitle D Training Manual (SDTM, 1994), or other generally accepted guidelines, and are believed to meet the requirements of 40 CFR Part 257, Subpart D. For more detailed procedures related to the installation of the current groundwater monitoring system, refer to the CCR Groundwater Monitoring Plan available in the facility Operating Record and CCR Website.

Table 3-1: Groundwater Monitoring Wells

Well No.	Background or Downgradient	Elevation [1] (ft)	Well Depth (ft)	Well Dia. (inches)
CCR-2	Downgradient	542.50	84.50	4
CCR-3	Downgradient	504.78	53.00	4
CCR-4	Downgradient	505.68	53.00	4
CCR-5	Downgradient	470.46	34.55	4
MW-7	Background (Upgradient)	571.76	56.92	4
MW-9	Downgradient	480.04	21.74	4
MW-12	Downgradient	474.19	19.09	4
MW-13	Background (Upgradient)	584.48	106.00	4
MW-14	Background (Upgradient)	593.84	60.97	4
OW-2	Downgradient	489.40	27.05	4

(1) Elevations were re-surveyed on November 14, 2019. Updated elevations will be used to determine groundwater elevation in subsequent monitoring events.

Sections 3.2 and 3.3 discuss changes to the groundwater monitoring system that took place during the reporting period.

3.2 MONITORING WELL INSTALLATION

There were no new wells installed in 2024.

3.3 MONITORING WELL DECOMMISSIONING

Monitoring wells must be maintained and appropriately cased in a manner that maintains the integrity of the monitoring well borehole throughout the life of the monitoring program. As noted in Section 3.1, the integrity of downgradient wells MW-15 and MW-17 were compromised during the 2020 period. The monitoring well plug and abandonment project for these wells was then conducted on August 26, 2021, in accordance with the Mississippi water well plugging guidelines, and the well abandonment/

decommissioning forms were submitted to MDEQ on August 30, 2021. No monitoring wells were decommissioned in 2024.

4.0 GROUNDWATER MONITORING DATA

4.1 SAMPLING REQUIREMENTS

The monitoring well samples collected for laboratory analysis along with the duplicate samples and field blanks were submitted to Micro-Methods Laboratories in Ocean Springs, Mississippi. Sampling was conducted in accordance with the CCR Groundwater Monitoring Plan. The samples were analyzed for constituents listed in Appendix III and/or Appendix IV of 40 CFR 257, Subpart D (depending on the type of monitoring event) as listed in Tables 4-1 and 4-2 below. Metals were analyzed as total recoverable metals from unfiltered samples.

Table 4-1: Appendix III Constituents

40 CFR 257, Subpart D, Appendix III					
Parameter	Analytical Method	Container		Preservative	Holding Time
Boron	EPA 200.7	P	500mL	NA	6 months
Calcium	EPA 200.7	P	500mL	NA	6 months
Chloride (1)	ASTM D512-12 or SM 4110 B	P	1000mL	NA	28 days
Fluoride	SM 4500-F C	P	1000mL	NA	28 days
pH	Measured and monitored in the field.				
Sulfate(1)	ASTM D512-12 or SM 4110 B	P	1000mL	NA	28 days
TDS	SM 2540 C	P	1000mL	NA	7 days

(1) The lab contracted for this analysis normally uses SM 4110 B method for chloride and sulfate. However, they have previously used method ASTM D512-12 for chloride and method SM 4500-SO for sulfate due to their main IC instrument failing.

(2) T = Teflon, P = Plastic, G = Glass, NA = Not Applicable

Table 4-2: Appendix IV Constituents

40 CFR 257, Subpart D, Appendix IV					
Parameter	Analytical Method	Container		Preservative	Holding Time
Antimony	EPA 200.8	P	500mL	NA	6 months
Arsenic	EPA 200.8	P	500mL	NA	6 months
Barium	EPA 200.7 or 200.8	P	500mL	NA	6 months
Beryllium	EPA 200.8	P	500mL	NA	6 months
Cadmium	EPA 200.8	P	500mL	NA	6 months
Chromium	EPA 200.8	P	500mL	NA	6 months
Cobalt	EPA 200.8	P	500mL	NA	6 months
Fluoride	SM 4500-F C	P	1000mL	NA	28 days
Lead	EPA 200.8	P	500mL	NA	6 months
Lithium	EPA 200.7	P	500mL	NA	6 months

40 CFR 257, Subpart D, Appendix IV					
Parameter	Analytical Method	Container		Preservative	Holding Time
Mercury	EPA 245.1	P	500mL	NA	28 days
Molybdenum	EPA 200.8	P	500mL	NA	6 months
Selenium	EPA 200.8	P	500mL	NA	6 months
Thallium	EPA 200.8	P	500mL	NA	6 months
Radium 226/228	EPA 903.1 / EPA 904.0	P	1000mL	NA	NA

(1) T = Teflon, P = Plastic, G = Glass, NA = Not Applicable

4.2 GROUNDWATER ELEVATION AND FLOW

Groundwater elevation is measured in each monitoring well immediately prior to purging each time groundwater is sampled. Table 4-3 provides a summary of the groundwater elevation recorded for each well during each of the monitoring events. A potentiometric surface map was developed for each monitoring event based on the measured static water levels and the top-of-case (TOC) elevations. Also, the rate of groundwater flow is determined for each event and the direction of flow is summarized in the table and provided on the potentiometric surface maps included in Appendix A. Groundwater flow velocity (v) is estimated using the hydraulic conductivity (K) of the groundwater zone, the effective porosity (η_e), and the hydraulic gradient (dh/dl). The groundwater flow velocity in feet/year is estimated using the following equation: $v = \frac{K}{\eta_e}\left(\frac{dh}{dl}\right)$.

Conductivity and porosity are dependent on the soil type in the saturated zone. Based on boring logs, the soils in the screened saturated zone are predominantly silt, clay, and silty-clay units. These Clayey Wilcox sediments were investigated and found to have hydraulic conductivities generally less than 1.0×10^{-6} cm/sec, and in many cases 1.0×10^{-8} cm/sec or less, as noted in the Special/Industrial Waste Permit Application prepared by Malcolm Pirnie (March 1998). As a conservative measure of groundwater flow the highest permeability measured at the site of 2.0×10^{-5} cm/sec has been used. An effective porosity of 0.44 was used based on a mix of silty clay and clay of varying plasticity found in the saturated zone. Previously, the hydraulic gradient was determined for each monitoring event using the difference in groundwater elevations at upgradient monitoring well, MW-14, and downgradient monitoring well, MW-15, which are approximately 3,025 feet apart. Since the integrity of the downgradient well, MW-15, was compromised, the hydraulic gradient is now determined for each monitoring event using an average of the difference in groundwater elevations at upgradient well, MW-14, and downgradient monitoring well, CCR-2, which are approximately 2,050 feet apart, and of the difference in groundwater elevations at upgradient well, MW-13, and downgradient monitoring well, CCR-4, which are approximately 1,860 feet apart. The distance between

MW-14 and CCR-2 was updated to 2,050 feet (formerly 1,800 feet) apart in the 2024 CCR Annual Report using a more accurate map distance (i.e., Google Earth).

As noted in Table 4-3 and from the potentiometric surface maps (provided in Appendix A), groundwater in the vicinity of the CCR unit flows northwest. Also, as noted during the background sampling period, groundwater elevation changed very little in each monitoring well sampled during the 2024 reporting period, indicating that seasonal variability does not significantly impact groundwater at the site. Groundwater flow is relatively slow due to the low hydraulic conductivity of the soils and was calculated to be 1.3 feet per year based on the 2024 data. This is consistent with the flows calculated for previous monitoring events, as shown in Table 4-3.

4.3 GROUNDWATER SAMPLING RESULTS

The analytical results from the collected samples, the chain-of-custody, and the laboratory quality assurance and quality control (QA/QC) information are provided in Appendix B. In addition to the groundwater samples taken from each of the monitoring wells, a duplicate sample and field blank were collected and analyzed for the required constituents. Temperature, pH, conductivity, turbidity, purge volume, and elapsed purge time were monitored while purging each well. The field data collected while purging and sampling each well using the low stress purging and sampling methodology is included in Appendix C. The data includes monitored field parameters (pH, temperature, turbidity, conductivity), water levels, well depth, drawdown, purge rate, purge volume, and purge time. The EPA Laboratory Services & Applied Science Division (LSASD) Groundwater Sampling Operating Procedure that was updated April 22, 2023, states that measured groundwater temperature during purging is subject to changes related to surface ambient conditions, pumping rates and pump temperature. Therefore, its usefulness is subject to question for the purpose of determining parameter stability. As such, it has been removed from LSASD's list of parameters used for stability determination. Even though temperature is not used to determine stability, it is still advisable to record the temperature of purge water.

The summary of results for sampling conducted during the reporting year is available in Appendix D. For those constituents not detected during a given monitoring event, the value is indicated as "less than" (or <) the minimum reporting level (MRL). Results from the upgradient wells were used to establish the background groundwater quality for each constituent, which is the interwell prediction limit determined using the approved statistical procedures. Because statistically significant increases (SSI) of constituents were verified during the initial detection monitoring event in 2018, GWPS were established per the requirements of §257.95(d)(2) for Appendix IV constituents and are compared to current and future sampling results.

Semiannual assessment monitoring was conducted on March 13-14, 2024. During this event, all Appendix III constituents and those Appendix IV constituents previously detected were analyzed. The following

Appendix IV constituents exceeded the GWPS at the well locations noted below for this monitoring event:

- Cobalt: CCR-3, CCR-5, and MW-9
- Lithium: CCR-3

The annual monitoring event for all Appendix IV constituents, required by §257.95(b), was conducted May 21, 2024. The following Appendix IV constituents will be monitored during the next two semiannual assessment monitoring events:

- Antimony
- Arsenic
- Barium
- Beryllium
- Cadmium
- Chromium
- Cobalt
- Fluoride
- Lead
- Lithium
- Molybdenum
- Selenium
- Radium 226 and 228 combined

Additionally, the results from this annual event were compared to the GWPS. The following Appendix IV constituents exceeded the GWPS at the well locations noted below for this monitoring event:

- Cobalt: CCR-3, MW-9, and MW-12
- Lithium: CCR-3

The next semiannual assessment monitoring event was conducted on September 18, 2024. The bladder pump for MW-13 was observed damaged during the September 18, 2024, sampling event. The bladder pump was replaced, and the well was sampled on October 30, 2024. The following Appendix IV constituents exceeded the GWPS at the well locations noted below for this monitoring event:

- Cobalt: CCR-3, MW-7, and MW-9
- Lithium: CCR-3 and MW-9

Although antimony, arsenic, cadmium, chromium, lead, and molybdenum were not detected in the 2024 annual monitoring event, these Appendix IV constituents will still be monitored during the semiannual events since they were detected in a previous assessment monitoring event. Lithium, cobalt, and beryllium were determined to be from an alternate source rather than a potential release of the AMU basin. The ASD

is discussed in Section 5.2, and Choctaw Generation has continued assessment monitoring. A summary of the results from each monitoring event (annual and semiannual) is provided in Appendix D, and the full laboratory analytical reports are provided as Appendix B.

Table 4-3: Groundwater Elevation (feet) and Flow Rate (feet/yr)

Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2	Flow Rate[2]	Flow Direction
Background Monitoring																		
7/26-27/16	488.60	473.59	478.46					538.60	471.49	466.92	499.10	564.91	477.50	480.26		476.80	1.3	NW
8/22-23/16	488.63	473.33	478.41					538.03	471.74	466.97	498.85	563.94	477.19	480.49		476.50	1.3	NW
9/12-13/16	488.22	472.96	478.36					538.02	470.97	466.09	498.82	563.12	476.74	480.15		476.20	1.3	NW
10/17-18/16	488.05	472.69	478.61					537.93	471.17	465.56	498.48	560.56	476.19	479.24		476.00	1.2	NW
11/9-10/16	487.69	472.41	478.16					537.52	471.32	465.45	497.83	559.08	475.78	479.10		475.50	1.2	NW
11/28-29/16	487.55	472.38	478.17					536.13	471.47	465.97	497.60	560.51	476.16	479.61		475.64	1.2	NW
2/8-9/17	488.17	474.06	478.95					537.95	473.34	471.27	498.21	563.49	478.87	481.70		477.60	1.3	NW
3/29-30/17	488.36	474.82	478.81					537.74	472.44	470.17	498.58	565.88	478.83	486.60		477.40	1.3	NW
Detection Monitoring																		
2/6-7/18	489.83	475.11	478.84					537.58	473.60	471.47	499.40	562.15	478.92	481.87		477.49	1.2	NW
Assessment Monitoring																		
5/15-16/18	489.73	476.19	478.98					538.66	472.82	468.07	501.08	566.41	478.93	481.36		478.19	1.3	NW
9/10-11/18	488.34	473.95	478.28	460.73				537.84	472.98	468.60	499.16	562.19	477.16	480.72		476.59	1.3	NW
3/19-20/19[1]	491.92	479.69	481.38	463.41				538.06	482.28	470.24	521.24	565.69	480.70	NS		478.80	1.4	NW
5/29-30/19[1]	491.62	478.76	480.84	462.75	459.91	487.14	462.79	538.47	471.56	466.67	521.42	565.63	480.20	NS	478.65	478.98	1.4	NW
9/10-11/19[1]	491.28	479.91	480.43	462.02	458.71	487.01	462.04	538.35	470.61	466.33	521.15	565.16	478.83	NS	477.73	477.57	1.4	NW
3/25-26/20	493.83	479.8	481.27	463.93	NS	NS	NS	541.78	472.53	470.5	525.6	565.94	NS	NS	479.84	479.48	1.5	NW
5/18/20	491.75	477.25	480.78	463.05	NS	NS	NS	538.71	471.23	468.88	526.48	565.59	NS	NS	480.64	479.36	1.5	NW
9/28/20	493.95	478	480.41	463.57	NS	NS	NS	537.85	471.24	468.51	525.58	565.01	NS	NS	NS	478.59	1.5	NW
3/15-16/21	494.5	479.93	480.78	463.1	NS	NS	NS	537.61	471.54	469.19	525.68	565.52	NS	NS	NS	479.05	1.5	NW
5/26/21	494.45	479.28	479.9	462.75	NS	NS	NS	537.56	471.32	467.29	526.34	565.12	NS	NS	NS	478.94	1.5	NW
9/8/21	494.35	479.58	480.83	464.45	NS	NS	NS	536.84	472.46	468.89	525.55	565.33	NS	NS	NS	478.9	1.5	NW
3/23-24/22	493.62	480.36	480.95	463.71	NS	NS	NS	537.71	473.15	470.49	523.34	565.22	NS	NS	NS	479.51	1.5	NW
5/31-6/1/22	493.24	478.74	480.15	462.73	NS	NS	NS	537.68	471.39	466.44	523.40	564.88	NS	NS	NS	478.72	1.5	NW
9/12-13/22	492.25	477.81	480.12	463.15	NS	NS	NS	537.18	472.05	469.51	521.78	563.38	NS	NS	NS	478.43	1.5	NW
3/13/23	492.56	480.1	480.81	463.81	NS	NS	NS	537.5	472.94	470.62	521.19	565.24	NS	NS	NS	478.82	1.5	NW

Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2	Flow Rate(2)	Flow Direction
5/10/23	492.14	479.26	480.55	462.98	NS	NS	NS	537.96	471.65	468.2	521.79	565.43	NS	NS	NS	478.47	1.5	NW
9/13/23	491.13	477.39	480.02	462.52	NS	NS	NS	537.51	470.62	465.3	520.54	564.59	NS	NS	NS	477.14	1.5	NW
3/13-14/24(2)	491.60	478.64	480.87	463.53	NS	NS	NS	537.19	472.46	470.61	520.00	564.30	NS	NS	NS	478.38	1.3	NNW
5/21/24(2)	491.65	478.66	480.26	463.18	NS	NS	NS	537.57	471.26	467.62	520.53	564.87	NS	NS	NS	478.19	1.3	NNW
9/18/24(2)(3)	490.90	476.58	479.78	462.89	NS	NS	NS	536.76	472.06	461.94	519.38	558.54	NS	NS	NS	481.70	1.3	NNW
10/30/24(2)(4)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	519.48	NS	NS	NS	NS	NS	-	-

(1) TOC elevations were resurveyed on November 14, 2019, and groundwater elevations were revised using the correct TOC elevations.
(2) Flow rate is calculated using an average hydraulic gradient between MW-14 and CCR-2 as well as MW-13 and CCR-4. The distance between MW-14 and CCR-2 was updated to 2,050 feet (formerly 1,800 feet) in the 2024 CCR Annual Report using a more accurate map distance (i.e., Google Earth).
(3) Samples were not collected for MW-13 on 9/18/2024 due to a damaged pump; however, the static water level was measured for MW-13 during the sampling event.
(4) Samples were collected for MW-13 on 10/30/2024 during the semi-annual MDEQ monitoring event.

5.0 ADDITIONAL INFORMATION

5.1 ALTERNATIVE MONITORING FREQUENCY

Based on the availability of groundwater, an alternative monitoring frequency may be proposed under both the detection monitoring program and the assessment monitoring program per §§257.94(d) and 257.95(c), respectively. In lieu of semiannual sampling, sampling may be conducted less frequently but no less than annually. Choctaw Generation must obtain a certification from a qualified professional engineer stating that the demonstration for an alternative groundwater sampling and analysis frequency meets the requirements of §§257.94(d) or 257.95(c). Choctaw Generation must include the demonstration providing the basis for the alternative monitoring frequency and the certification by a qualified professional engineer in the Annual Report. *With this Annual Report, Choctaw Generation is not making an alternative monitoring frequency demonstration.*

5.2 DEMONSTRATION OF INVALID STATISTICALLY SIGNIFICANT INCREASE

Within 90 days of finding that any of the Appendix III or IV constituents have been detected at a statistically significant level, Choctaw Generation may demonstrate that a source other than the CCR unit caused the contamination or that the statistically significant increase resulted from error in sampling, analysis, statistical evaluation, or natural variation in groundwater quality. Such demonstration is allowed by both the detection monitoring program and assessment monitoring program per §257.94(e)(2) and §257.95(g)(3), respectively. Any such demonstration must be supported by a report that includes the factual or evidentiary basis for any conclusions and must be certified to be accurate by a qualified professional engineer. If a successful demonstration is made, Choctaw Generation must continue monitoring in accordance with the detection or assessment monitoring program, as applicable. Choctaw Generation must also include the demonstration in the Annual Report, as well as the certification by a qualified professional engineer. *With this Annual Report, Choctaw Generation is not demonstrating that any additional constituents were detected at a SSL above the GWPS as a result from an alternate source.* A history of the ASD is provided below.

Sampling to evaluate the composition of the natural soil at the site was conducted on October 29, 2019, which included drilling soil borings in three (3) locations at the Choctaw Generation site. The samples were collected at a variety of depths ranging from four (4) to twenty (20) feet to capture the natural, differing geologies in the soil and material near and within the monitored aquifer. Based on review of the analytical results, the initial ASD was developed and certified on December 17, 2019, demonstrating that elevated lithium and cobalt concentrations above each GWPS were a result of natural variation in the groundwater quality as a result of the aquifer material rather than a potential release from the CCR unit. Beryllium was then detected above the GWPS in March 2020 and then verified in the following event in May of 2020. In response, the ASD was revised and certified on August 20, 2020, demonstrating that the elevated beryllium

concentration detected above the GWPS was a result of natural variation in the groundwater quality as a result of the aquifer material rather than a potential release from the CCR unit. The initial and revised ASD were submitted with each respective annual report and can be found in the Choctaw Generation Operating Record and on the CCR Website.

It should be noted, the molybdenum exceedance was never confirmed or verified upon resampling events; therefore, molybdenum is not believed to have exceeded the GWPS. As a result of the successfully revised ASD, Choctaw Generation has continued in assessment monitoring.

5.3 TIME EXTENSION FOR CORRECTIVE MEASURES ASSESSMENT

An assessment of corrective measures must be completed within 90 days of finding any Appendix IV constituent has been detected at a statistically significant level exceeding the GWPS. A demonstration of the need for up to an additional 60 days to complete this assessment may be made as a result of site-specific conditions or circumstances. Certification from a qualified professional engineer attesting that this demonstration is accurate must be provided, and both the demonstration and certification must be included in the Annual Report. *With this Annual Report, Choctaw Generation is not requesting additional time to assess corrective measures, since such assessment was not required during the period covered by the report.*

6.0 CONCLUSION

6.1 SUMMARY OF KEY ACTIONS COMPLETED

During the reporting period, two semiannual assessment monitoring events were conducted, revealing continued exceedances of the GWPS for cobalt and lithium. These constituent exceedances are detailed in the ASD. There were no new exceedances of the GWPS; therefore, assessment monitoring was continued.

6.2 KEY ACTIVITIES FOR UPCOMING YEAR

During calendar year 2025, Choctaw Generation anticipates conducting at least two (2) semiannual monitoring events and an annual Appendix IV monitoring event in accordance with the assessment monitoring program as outlined by §257.95(g). If any constituent, other than those addressed by the revised ASD, is detected at an SSL above the GWPS, the ASD will be amended or corrective measures will be initiated to address the constituents of concern.

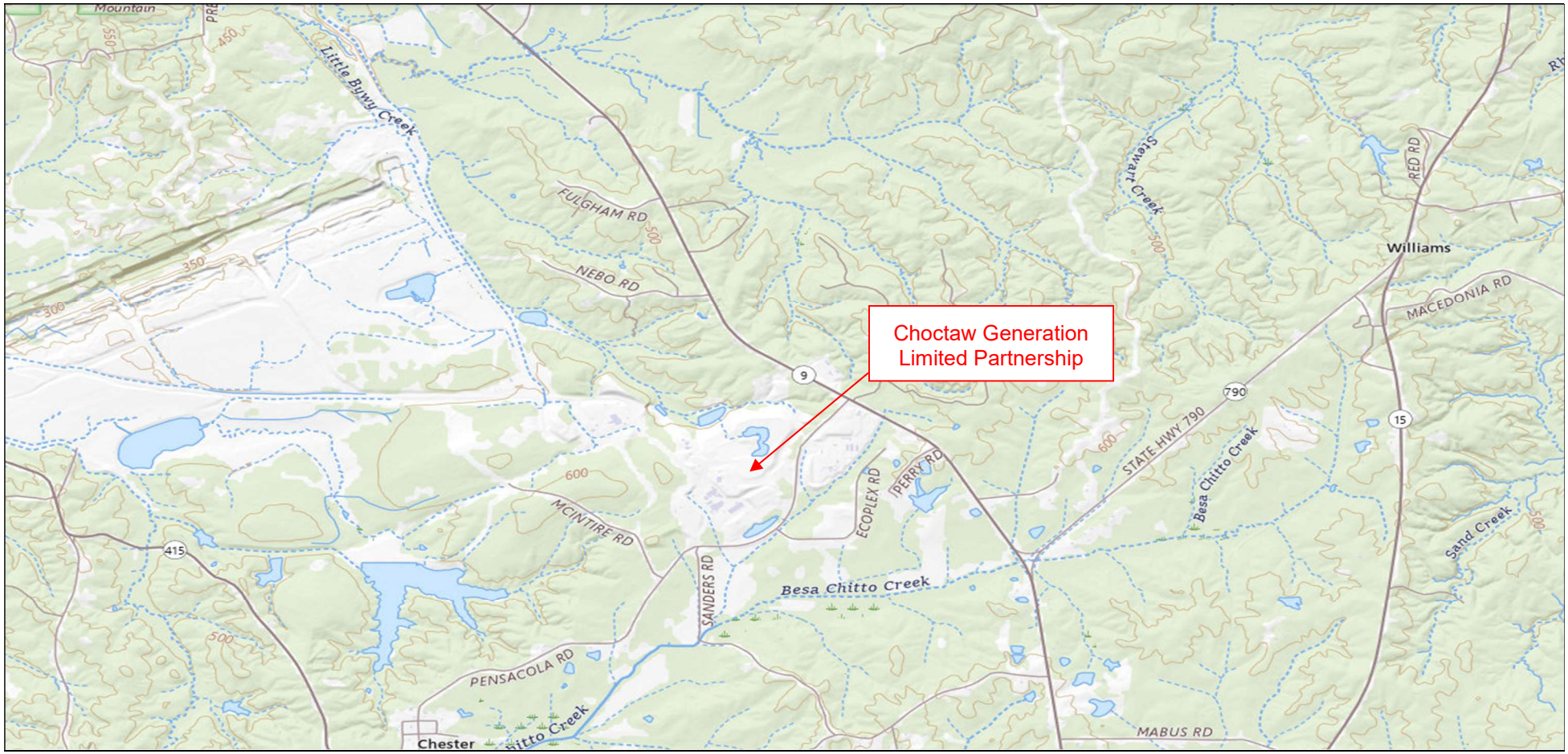
In 2024, EPA finalized changes to the CCR regulations to extend certain requirements governing the disposal of CCR in inactive surface impoundments at inactive power plants and CCR Management Units (CCRMU), a new category of CCR unit established by the Final Rule. According to 40 CFR 257.75(a)-(b), owners or operators of active facilities must conduct a facility evaluation to identify the presence or absence of CCRMUs at the facility (i.e., Facility Evaluation Reports (FER) Part 1 and Part 2).

40 CFR 257.75(c)(1) states by no later than February 9, 2026, the facility must prepare a FER Part 1 that contains the information specified in 40 CFR 257.75(c)(1)(i)-(xiv) and place the report in the facility's operating record. 40 CFR 257.75(d)(1) further states by no later than February 8, 2027, the owner or operator of an active facility must prepare a FER Part 2 that contains the information specified in 40 CFR 257.75(d)(1)(i)-(xiv) and place the report in the facility's operating record.

Choctaw Generation will conduct a facility evaluation and complete the FER Part 1 and Part 2 if and as required.

FIGURE 1

SITE LOCATION MAP



Legend:

Source:
USGS US Topo (April 2024)

Drawn By: CAJ	Checked By: BSK
Date: 1/8/2025	Scale: 1:24,000
Project No.:	Drawing No: N/A

Choctaw Generation Limited Partnership
2391 Pensacola Road
Ackerman, Mississippi

Trinity Consultants
ECS
PO Box 356
Sherman, MS 38869

Figure 1: Site Location Map

FIGURE 2

FACILITY DIAGRAM

Trinity Consultants

ECS

P.O. Box 356
Sherman, MS 38869
(662) 840-5945

Choctaw Generation Limited Partnership, L.L.L.P.
2391 Pensacola Road
Ackerman, Mississippi

Facility Diagram

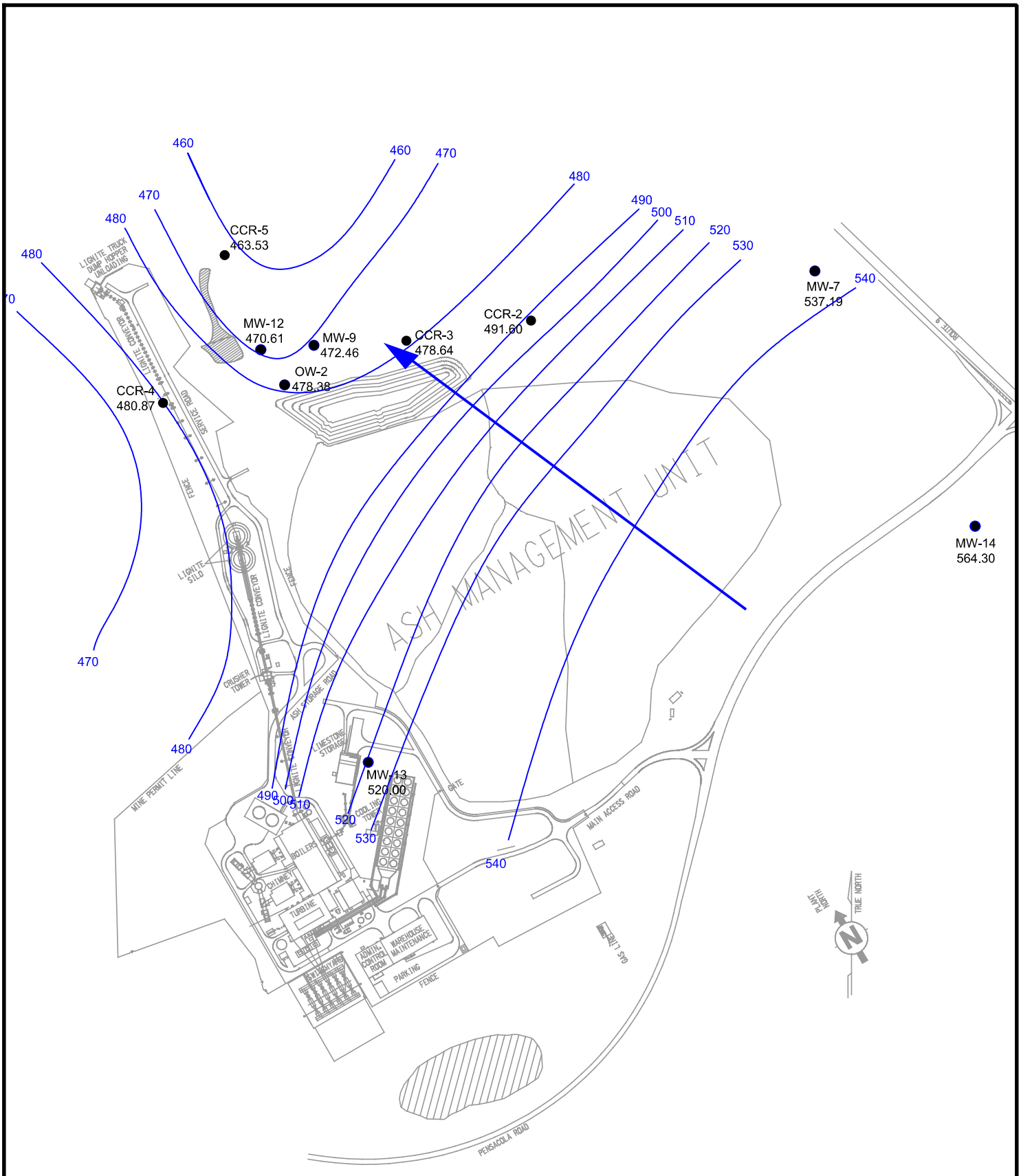
Figure 2

Legend:
Monitoring Well MW-14 E=593.84

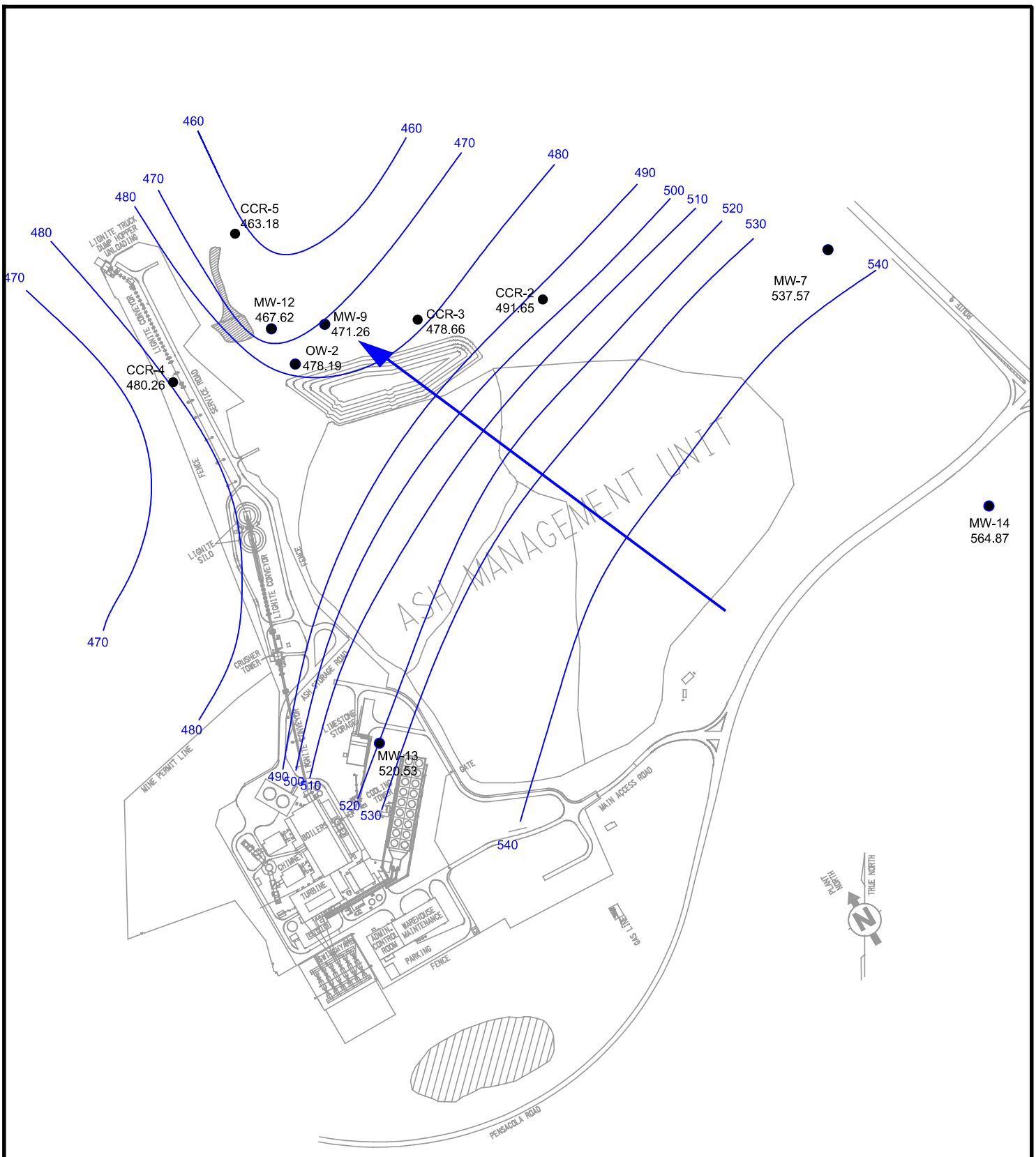
Scale: Not Determined
Drawn By: JTB Revised By: CAJ
Date: 8/27/2018 Date: 12/31/2024

APPENDIX A

POTENTIOMETRIC SURFACE MAPS



Trinity Consultants / ECS P.O. Box 356 Sherman, MS 38869	Choctaw Generation Limited Partnership, L.L.L.P. 2391 Pensacola Road Ackerman, Mississippi	Legend: Monitoring Well Designation and Groundwater Elevation (feet) — MW-7 537.19 Groundwater Elevation Contours (ft) — 500
	Potentiometric Surface Map (March 2024 GW Event)	Scale: NTS Drawn By: CAJ Date: 1/8/2025
	Figure 1	



Trinity Consultants / ECS P.O. Box 356 Sherman, MS 38869	Choctaw Generation Limited Partnership, L.L.L.P. 2391 Pensacola Road Ackerman, Mississippi	Legend: Monitoring Well Designation and Groundwater Elevation (feet) — MW-7 537.57 Groundwater Elevation Contours (ft) — 500
	Potentiometric Surface Map (May 2024 GW Event)	Scale: NTS
	Figure 1	Drawn By: CAJ Date: 1/8/2025

Trinity Consultants / ECS P.O. Box 356 Sherman, MS 38869	Choctaw Generation Limited Partnership, L.L.L.P. 2391 Pensacola Road Ackerman, Mississippi	Legend: Monitoring Well Designation and Groundwater Elevation (feet) MW-7 536.76 Groundwater Elevation Contours (ft) 500
	Potentiometric Surface Map (September/October 2024 GW Event)	Scale: NTS
	Figure 1	Drawn By: CAJ Date: 1/8/2025

APPENDIX B

ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY FORMS

Mailing Address:
PO Box 1410
Ocean Springs, MS
39566-1410

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

April 05, 2024

Jim Ward

Work Order # : 2403287

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman, MS 39735

Purchase Order #: RDH19587 - Yr 2024

RE: CGLP CCR Semi Annual

Enclosed are Micro-Methods Laboratory, Inc. results of analyses performed on samples received 03/15/2024 11:35. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director
Micro-Methods Laboratory, Inc.

DISCLAIMER

The results only relate to the items or the sample and/or samples received by the laboratory. This report shall not be reproduced except in full, without the approval of the laboratory. All NELAP certified test methods performed meet the requirements of NELAC 2009 Standards. Any variances and/or deviations specific to this analytical report are referenced in the lab report using qualifiers and detailed explanations found in the case narrative.

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/05/2024 08:37

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
MW-9	2403287-01	Water	03/13/2024 12:35	*Caleb James*	03/15/2024 11:35
OW-2	2403287-02	Water	03/13/2024 15:25	*Caleb James*	03/15/2024 11:35
MW-13	2403287-03	Water	03/13/2024 13:30	*Caleb James*	03/15/2024 11:35
MW-7	2403287-04	Water	03/13/2024 10:45	*Caleb James*	03/15/2024 11:35
MW-14	2403287-05	Water	03/14/2024 09:40	*Caleb James*	03/15/2024 11:35
Field Blank	2403287-06	Water	03/13/2024 10:20	*Caleb James*	03/15/2024 11:35
Duplicate	2403287-07	Water	03/13/2024 00:00	*Caleb James*	03/15/2024 11:35
MW-12	2403287-08	Water	03/13/2024 14:15	*Caleb James*	03/15/2024 11:35
CCR-2	2403287-09	Water	03/13/2024 16:25	*Caleb James*	03/15/2024 11:35
CCR-3	2403287-10	Water	03/13/2024 13:18	*Caleb James*	03/15/2024 11:35
CCR-4	2403287-11	Water	03/13/2024 11:19	*Caleb James*	03/15/2024 11:35
CCR-5	2403287-12	Water	03/13/2024 15:35	*Caleb James*	03/15/2024 11:35

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/05/2024 08:37

Sample Receipt Conditions

Date/Time Received: 3/15/2024 11:35:00AM
Received by: Sarah E. Tomek
Date/Time Logged: 3/15/2024 12:31:00PM
Cooler ID: client cooler #1

Shipped by: Fed Ex
Submitted by: Caleb James
Logged by: Sarah E. Tomek
Receipt Temperature: 2.5 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/05/2024 08:37

Cooler ID: client cooler #2

Receipt Temperature: 3.5 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP 2391 Pensacola Rd. Ackerman MS, 39735	Project: CGLP CCR Semi Annual Project Number: [none] Project Manager: Jim Ward	**Reported:** 04/05/2024 08:37

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

See attached results from Sub-Contract Laboratory

Total Metals-EPA 200.7 Rev 4.4

Qualifiers:

M1 MS/MSD Recovery limit exceeded.

Calcium 315.887 [Radial]
4C18023-MS1

Total Metals-EPA 200.8 Rev 5.4

Qualifiers:

M2 MS/MSD Recovery below acceptable limit.

Beryllium [He]
4C18024-MS1

M3 MS/MSD Precision Limit exceeded.

Beryllium [He]
4C18024-MSD1

Total Dissolved Solids-SM 2540 C-2015

Qualifiers:

RPD04 The RPD between the sample and sample duplicate exceeded the acceptance limits.

Total Dissolved Solids
4C19028-DUP1

MICRO-METHODS LABORATORY, INC.

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Ocean Springs, MS 39564
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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/05/2024 08:37

MW-9

2403287-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**299**	8.00	mg/L	4.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	**0.30**	0.22	"	1.0	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**98.7**	20.0	"	4.0	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**686**	1	"	1.0	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.080**	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 16:47	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**32.3**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	**0.043**	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 18:10	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	**0.00182**	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.0118**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	**0.00149**	0.00100	"	"	"	SCH	"	"	"	

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/05/2024 08:37

OW-2

2403287-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**82.6**	2.00	mg/L	1.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	**0.23**	0.22	"	"	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**118**	20.0	"	4.0	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**368**	1	"	1.0	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.020**	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 16:50	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**36.2**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 18:16	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

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04/05/2024 08:37

MW-13

2403287-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**3.33**	2.00	mg/L	1.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	ND	0.22	"	"	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**6.66**	5.00	"	"	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**151**	1	"	"	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.136**	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 16:54	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**16.4**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 18:23	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

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04/05/2024 08:37

MW-7

2403287-04 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**3.49**	2.00	mg/L	1.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	**0.36**	0.22	"	"	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**37.7**	5.00	"	"	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**148**	1	"	"	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.051**	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 16:57	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**17.8**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 18:29	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

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MW-14

2403287-05 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**17.5**	2.00	mg/L	1.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	ND	0.22	"	"	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**10.5**	5.00	"	"	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**88**	1	"	"	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	ND	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 17:01	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**0.657**	0.250	"	5.0	"	CLV	"	04/02/2024 12:19	"	
Lithium 610.362 [Axial]	ND	0.040	"	1.0	"	CLV	"	04/01/2024 17:01	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 18:35	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

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Field Blank

2403287-06 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**4.55**	2.00	mg/L	1.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	ND	0.22	"	"	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**13.0**	5.00	"	"	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**6**	1	"	"	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	ND	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 17:12	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**0.133**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 19:18	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	03/21/2024 12:01	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	03/20/2024 19:18	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

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Duplicate

2403287-07 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**2.77**	2.00	mg/L	1.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	**0.27**	0.22	"	"	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**41.1**	5.00	"	"	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**144**	1	"	"	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.052**	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 17:16	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**17.3**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 19:24	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	03/21/2024 12:06	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	03/20/2024 19:24	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

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MW-12

2403287-08 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**6.21**	2.00	mg/L	1.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	ND	0.22	"	"	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**83.3**	10.0	"	2.0	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**312**	1	"	1.0	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.172**	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 17:19	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**28.8**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 19:30	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	03/21/2024 12:10	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	03/20/2024 19:30	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00288**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

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CCR-2

2403287-09 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**2.08**	2.00	mg/L	1.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	ND	0.22	"	"	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**11.6**	5.00	"	"	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**115**	1	"	"	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.102**	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 17:23	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**13.4**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 19:37	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	03/21/2024 12:14	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	03/20/2024 19:37	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

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CCR-3

2403287-10 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**5.78**	2.00	mg/L	1.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	ND	0.22	"	"	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**179**	20.0	"	4.0	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**419**	1	"	1.0	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.086**	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 17:26	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**33.5**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	**0.087**	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 19:43	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	03/21/2024 12:19	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	03/20/2024 19:43	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.0119**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
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Project Manager: Jim Ward

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CCR-4

2403287-11 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**9.12**	2.00	mg/L	1.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	ND	0.22	"	"	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**28.4**	5.00	"	"	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**182**	1	"	"	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.131**	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 17:45	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**20.9**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 20:02	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	03/21/2024 12:32	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	03/20/2024 20:02	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00350**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

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CCR-5

2403287-12 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	**7.64**	2.00	mg/L	1.0	4C19033	DLW	03/19/2024 12:10	03/19/2024 14:37	ASTM D 512-12C	
Fluoride	ND	0.22	"	"	4C25056	CRG	03/25/2024 13:30	03/25/2024 16:13	SM 4500-F C 2011	
Sulfate as SO4	**240**	50.0	"	10.0	4C18027	DLW	03/18/2024 12:00	03/18/2024 15:28	SM 4500-SO42 E 2011	
Total Dissolved Solids	**613**	1	"	1.0	4C19028	DLW	03/19/2024 11:50	03/21/2024 00:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.124**	0.010	mg/L	1.0	4C18023	CLV	03/18/2024 10:30	04/01/2024 17:48	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	**0.061**	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**88.8**	0.250	"	5.0	"	CLV	"	04/02/2024 12:45	"	
Lithium 610.362 [Axial]	ND	0.040	"	1.0	"	CLV	"	04/01/2024 17:48	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4C18024	SCH	"	03/20/2024 20:08	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	03/21/2024 12:36	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	03/20/2024 20:08	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00623**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	**0.00209**	0.00100	"	"	"	SCH	"	"	"	

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Project Manager: Jim Ward

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4C18027 - Default Prep GenChem											
Blank (4C18027-BLK1)											
Sulfate as SO4	3/18/24 15:28	ND	5.00	mg/L							
LCS (4C18027-BS1)											
Sulfate as SO4	3/18/24 15:28	10.4	5.00	mg/L	10.0		104	88-108			
LCS Dup (4C18027-BSD1)											
Sulfate as SO4	3/18/24 15:28	10.4	5.00	mg/L	10.0		104	88-108	0.00	20	
Duplicate (4C18027-DUP1)			**Source: 2403287-03**								
Sulfate as SO4	3/18/24 15:28	6.45	5.00	mg/L		6.66			3.20	20	
Duplicate (4C18027-DUP2)			**Source: 2403287-12**								
Sulfate as SO4	3/18/24 16:08	238	50.0	mg/L		240			0.702	20	
Matrix Spike (4C18027-MS1)			**Source: 2403287-03**								
Sulfate as SO4	3/18/24 15:28	29.4	5.00	mg/L	30.0	6.66	75.8	74.1-129			
Matrix Spike Dup (4C18027-MSD1)			**Source: 2403287-03**								
Sulfate as SO4	3/18/24 15:28	31.7	5.00	mg/L	30.0	6.66	83.5	74.1-129	7.55	20	
Batch 4C19028 - Default Prep GenChem											
Blank (4C19028-BLK1)											
Total Dissolved Solids	3/21/24 0:00	ND	1	mg/L							
LCS (4C19028-BS1)											
Total Dissolved Solids	3/21/24 0:00	86	1	mg/L	99.8		86.2	69.8-100			

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4C19028 - Default Prep GenChem											
LCS Dup (4C19028-BSD1)											
Total Dissolved Solids	3/21/24 0:00	82	1	mg/L	99.8		82.2	69.8-100	4.76	10	
Duplicate (4C19028-DUP1)			**Source: 2403287-06**								
Total Dissolved Solids	3/21/24 0:00	7	1	mg/L		6			15.4	10	RPD04
Duplicate (4C19028-DUP2)			**Source: 2403287-12**								
Total Dissolved Solids	3/21/24 0:00	618	1	mg/L		613			0.812	10	
Batch 4C19033 - Default Prep GenChem											
Blank (4C19033-BLK1)											
Chloride	3/19/24 14:37	ND	2.00	mg/L							
LCS (4C19033-BS1)											
Chloride	3/19/24 14:37	24.0	2.00	mg/L	25.0		96.0	85-115			
LCS Dup (4C19033-BSD1)											
Chloride	3/19/24 14:37	24.1	2.00	mg/L	25.0		96.4	85-115	0.416	30	
Duplicate (4C19033-DUP1)			**Source: 2403287-06**								
Chloride	3/19/24 14:37	4.36	2.00	mg/L		4.55			4.26	20	
Duplicate (4C19033-DUP2)			**Source: 2403287-12**								
Chloride	3/19/24 14:37	7.44	2.00	mg/L		7.64			2.65	20	
Matrix Spike (4C19033-MS1)			**Source: 2403287-06**								
Chloride	3/19/24 14:37	23.8	2.00	mg/L	20.0	4.55	96.3	80-120			

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Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4C19033 - Default Prep GenChem											
Matrix Spike Dup (4C19033-MSD1)			**Source: 2403287-06**								
Chloride	3/19/24 14:37	23.5	2.00	mg/L	20.0	4.55	94.8	80-120	1.27	20	
Batch 4C25056 - Default Prep GenChem											
Blank (4C25056-BLK1)											
Fluoride	3/25/24 16:13	ND	0.22	mg/L							
LCS (4C25056-BS1)											
Fluoride	3/25/24 16:13	2.00	0.22	mg/L	2.00		100	88.5-110			
LCS Dup (4C25056-BSD1)											
Fluoride	3/25/24 16:13	2.07	0.22	mg/L	2.00		104	88.5-110	3.44	30	
Duplicate (4C25056-DUP1)			**Source: 2403424-02**								
Fluoride	3/25/24 16:13	ND	0.22	mg/L		ND				20	
Matrix Spike (4C25056-MS1)			**Source: 2403287-01**								
Fluoride	3/25/24 16:13	2.31	0.22	mg/L	2.00	0.30	101	81.9-110			
Matrix Spike Dup (4C25056-MSD1)			**Source: 2403287-01**								
Fluoride	3/25/24 16:13	2.30	0.22	mg/L	2.00	0.30	100	81.9-110	0.434	30	

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Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4C18023 - EPA 200.2 DCN 1017 Rev 10											
Blank (4C18023-BLK1)											
Barium 455.403 [Radial]	4/1/24 16:36	ND	0.010	mg/L							
Boron 249.773 [Radial]	4/1/24 16:36	ND	0.050	"							
Calcium 315.887 [Radial]	4/1/24 16:36	ND	0.050	"							
Lithium 610.362 [Axial]	4/1/24 16:36	ND	0.040	"							
LCS (4C18023-BS1)											
Barium 455.403 [Radial]	4/1/24 16:39	0.217	0.010	mg/L	0.200		108	85-115			
Boron 249.773 [Radial]	4/1/24 16:39	0.214	0.050	"	0.200		107	85-115			
Calcium 315.887 [Radial]	4/1/24 16:39	0.213	0.050	"	0.200		107	85-115			
Lithium 610.362 [Axial]	4/1/24 16:39	0.200	0.040	"	0.200		100	85-115			
LCS Dup (4C18023-BSD1)											
Barium 455.403 [Radial]	4/1/24 16:43	0.213	0.010	mg/L	0.200		107	85-115	1.61	20	
Boron 249.773 [Radial]	4/1/24 16:43	0.210	0.050	"	0.200		105	85-115	2.33	20	
Calcium 315.887 [Radial]	4/1/24 16:43	0.213	0.050	"	0.200		106	85-115	0.123	20	
Lithium 610.362 [Axial]	4/1/24 16:43	0.198	0.040	"	0.200		98.8	85-115	1.23	20	
Duplicate (4C18023-DUP1)			**Source: 2403287-10**								
Calcium 315.887 [Radial]	4/1/24 17:30	36.3	0.050	mg/L		33.5			8.02	20	
Matrix Spike (4C18023-MS1)			**Source: 2403287-05**								
Barium 455.403 [Radial]	4/1/24 17:05	0.226	0.010	mg/L	0.200	0.009	108	70-130			
Boron 249.773 [Radial]	4/1/24 17:05	0.217	0.050	"	0.200	ND	109	70-130			
Calcium 315.887 [Radial]	4/2/24 12:23	0.930	0.250	"	0.200	0.657	136	70-130			M1
Lithium 610.362 [Axial]	4/1/24 17:05	0.207	0.040	"	0.200	ND	103	70-130			
Matrix Spike (4C18023-MS2)			**Source: 2403287-10**								
Barium 455.403 [Radial]	4/1/24 17:30	0.303	0.010	mg/L	0.200	0.086	108	70-130			
Boron 249.773 [Radial]	4/1/24 17:30	0.208	0.050	"	0.200	ND	104	70-130			
Lithium 610.362 [Axial]	4/1/24 17:30	0.287	0.040	"	0.200	0.087	100	70-130			

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Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4C18023 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike Dup (4C18023-MSD1)			**Source: 2403287-05**								
Barium 455.403 [Radial]	4/1/24 17:08	0.216	0.010	mg/L	0.200	0.009	103	70-130	4.75	20	
Boron 249.773 [Radial]	4/1/24 17:08	0.206	0.050	"	0.200	ND	103	70-130	5.39	20	
Calcium 315.887 [Radial]	4/2/24 12:38	0.898	0.250	"	0.200	0.657	120	70-130	3.50	20	
Lithium 610.362 [Axial]	4/1/24 17:08	0.200	0.040	"	0.200	ND	100	70-130	3.13	20	
Matrix Spike Dup (4C18023-MSD2)			**Source: 2403287-10**								
Barium 455.403 [Radial]	4/1/24 17:34	0.310	0.010	mg/L	0.200	0.086	112	70-130	2.14	20	
Boron 249.773 [Radial]	4/1/24 17:34	0.208	0.050	"	0.200	ND	104	70-130	0.0541	20	
Lithium 610.362 [Axial]	4/1/24 17:34	0.288	0.040	"	0.200	0.087	101	70-130	0.553	20	

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Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4C18024 - EPA 200.2 DCN 1017 Rev 10											
Blank (4C18024-BLK1)											
Antimony [He]	3/20/24 17:52	ND	0.00200	mg/L							
Arsenic [NG]	3/20/24 17:52	ND	0.00200	"							
Arsenic [He]	3/20/24 17:52	ND	0.00200	"							
Beryllium [He]	3/20/24 17:52	ND	0.00100	"							
Cadmium [He]	3/20/24 17:52	ND	0.00100	"							
Chromium [He]	3/20/24 17:52	ND	0.00100	"							
Cobalt [He]	3/20/24 17:52	ND	0.00100	"							
Lead [He]	3/20/24 17:52	ND	0.00100	"							
Molybdenum [He]	3/20/24 17:52	ND	0.00100	"							
Selenium [He]	3/20/24 17:52	ND	0.00100	"							
Selenium [NG]	3/20/24 17:52	ND	0.00500	"							
LCS (4C18024-BS1)											
Antimony [He]	3/20/24 17:58	0.101	0.00200	mg/L	0.100		101	85-115			
Arsenic [He]	3/20/24 17:58	0.101	0.00200	"	0.100		101	85-115			
Arsenic [NG]	3/20/24 17:58	0.100	0.00200	"	0.100		100	85-115			
Beryllium [He]	3/20/24 17:58	0.095	0.00100	"	0.100		95.5	85-115			
Cadmium [He]	3/20/24 17:58	0.101	0.00100	"	0.100		101	85-115			
Chromium [He]	3/20/24 17:58	0.100	0.00100	"	0.100		100	85-115			
Cobalt [He]	3/20/24 17:58	0.099	0.00100	"	0.100		99.4	85-115			
Lead [He]	3/20/24 17:58	0.099	0.00100	"	0.100		98.7	85-115			
Molybdenum [He]	3/20/24 17:58	0.098	0.00100	"	0.100		98.4	85-115			
Selenium [He]	3/20/24 17:58	0.101	0.00100	"	0.100		101	85-115			
Selenium [NG]	3/20/24 17:58	0.096	0.00500	"	0.100		96.2	85-115			
LCS Dup (4C18024-BSD1)											
Antimony [He]	3/20/24 18:04	0.101	0.00200	mg/L	0.100		101	85-115	0.256	20	
Arsenic [He]	3/20/24 18:04	0.102	0.00200	"	0.100		102	85-115	1.02	20	
Arsenic [NG]	3/20/24 18:04	0.100	0.00200	"	0.100		99.7	85-115	0.760	20	
Beryllium [He]	3/20/24 18:04	0.096	0.00100	"	0.100		95.7	85-115	0.222	20	
Cadmium [He]	3/20/24 18:04	0.101	0.00100	"	0.100		101	85-115	0.446	20	
Chromium [He]	3/20/24 18:04	0.101	0.00100	"	0.100		101	85-115	0.479	20	
Cobalt [He]	3/20/24 18:04	0.100	0.00100	"	0.100		99.8	85-115	0.404	20	
Lead [He]	3/20/24 18:04	0.098	0.00100	"	0.100		98.2	85-115	0.586	20	
Molybdenum [He]	3/20/24 18:04	0.097	0.00100	"	0.100		97.1	85-115	1.34	20	
Selenium [He]	3/20/24 18:04	0.097	0.00100	"	0.100		97.5	85-115	3.50	20	
Selenium [NG]	3/20/24 18:04	0.096	0.00500	"	0.100		95.6	85-115	0.576	20	

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Project Manager: Jim Ward

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Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4C18024 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (4C18024-MS1)			**Source: 2403287-05**								
Antimony [He]	3/20/24 18:41	0.100	0.00200	mg/L	0.100	ND	99.5	70-130			
Arsenic [He]	3/20/24 18:41	0.100	0.00200	"	0.100	0.00006	99.8	70-130			
Arsenic [NG]	3/20/24 18:41	0.092	0.00200	"	0.100	ND	92.3	70-130			
Beryllium [He]	3/20/24 18:41	0.067	0.00100	"	0.100	ND	67.0	70-130			M2
Cadmium [He]	3/20/24 18:41	0.100	0.00100	"	0.100	ND	100	70-130			
Chromium [He]	3/20/24 18:41	0.096	0.00100	"	0.100	0.0004	96.0	70-130			
Cobalt [He]	3/20/24 18:41	0.095	0.00100	"	0.100	0.0006	94.3	70-130			
Lead [He]	3/20/24 18:41	0.097	0.00100	"	0.100	ND	96.6	70-130			
Molybdenum [He]	3/20/24 18:41	0.098	0.00100	"	0.100	ND	97.8	70-130			
Selenium [He]	3/20/24 18:41	0.094	0.00100	"	0.100	ND	94.1	70-130			
Selenium [NG]	3/20/24 18:41	0.093	0.00500	"	0.100	0.002	91.9	70-130			
Matrix Spike (4C18024-MS2)			**Source: 2403287-10**								
Antimony [He]	3/20/24 19:49	0.092	0.00200	mg/L	0.100	ND	92.3	70-130			
Arsenic [NG]	3/20/24 19:49	0.097	0.00200	"	0.100	0.0005	96.1	70-130			
Arsenic [He]	3/20/24 19:49	0.091	0.00200	"	0.100	0.0003	90.8	70-130			
Beryllium [He]	3/21/24 12:23	0.099	0.00100	"	0.100	0.0004	98.6	70-130			
Cadmium [He]	3/20/24 19:49	0.090	0.00100	"	0.100	ND	89.5	70-130			
Chromium [He]	3/20/24 19:49	0.085	0.00100	"	0.100	0.0002	85.2	70-130			
Cobalt [He]	3/20/24 19:49	0.094	0.00100	"	0.100	0.012	82.2	70-130			
Lead [He]	3/20/24 19:49	0.088	0.00100	"	0.100	ND	88.4	70-130			
Molybdenum [He]	3/20/24 19:49	0.091	0.00100	"	0.100	ND	91.1	70-130			
Selenium [NG]	3/20/24 19:49	0.093	0.00500	"	0.100	0.002	90.7	70-130			
Selenium [He]	3/20/24 19:49	0.086	0.00100	"	0.100	ND	86.0	70-130			
Matrix Spike Dup (4C18024-MSD1)			**Source: 2403287-05**								
Antimony [He]	3/20/24 18:48	0.098	0.00200	mg/L	0.100	ND	98.5	70-130	1.02	20	
Arsenic [He]	3/20/24 18:48	0.099	0.00200	"	0.100	0.00006	98.6	70-130	1.19	20	
Arsenic [NG]	3/20/24 18:48	0.098	0.00200	"	0.100	ND	98.1	70-130	6.16	20	
Beryllium [He]	3/20/24 18:48	0.082	0.00100	"	0.100	ND	82.5	70-130	20.7	20	M3
Cadmium [He]	3/20/24 18:48	0.099	0.00100	"	0.100	ND	98.8	70-130	1.33	20	
Chromium [He]	3/20/24 18:48	0.095	0.00100	"	0.100	0.0004	94.2	70-130	1.88	20	
Cobalt [He]	3/20/24 18:48	0.093	0.00100	"	0.100	0.0006	92.2	70-130	2.30	20	
Lead [He]	3/20/24 18:48	0.096	0.00100	"	0.100	ND	96.2	70-130	0.445	20	
Molybdenum [He]	3/20/24 18:48	0.097	0.00100	"	0.100	ND	97.4	70-130	0.461	20	
Selenium [NG]	3/20/24 18:48	0.095	0.00500	"	0.100	0.002	93.9	70-130	2.17	20	
Selenium [He]	3/20/24 18:48	0.095	0.00100	"	0.100	ND	95.1	70-130	1.13	20	

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/05/2024 08:37

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4C18024 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike Dup (4C18024-MSD2)			**Source: 2403287-10**								
Antimony [He]	3/20/24 19:56	0.100	0.00200	mg/L	0.100	ND	99.5	70-130	7.53	20	
Arsenic [NG]	3/20/24 19:56	0.097	0.00200	"	0.100	0.0005	96.0	70-130	0.0330	20	
Arsenic [He]	3/20/24 19:56	0.099	0.00200	"	0.100	0.0003	98.9	70-130	8.49	20	
Beryllium [He]	3/20/24 19:56	0.084	0.00100	"	0.100	0.0004	83.4	70-130	16.7	20	
Cadmium [He]	3/20/24 19:56	0.097	0.00100	"	0.100	ND	97.3	70-130	8.28	20	
Chromium [He]	3/20/24 19:56	0.092	0.00100	"	0.100	0.0002	91.9	70-130	7.60	20	
Cobalt [He]	3/20/24 19:56	0.102	0.00100	"	0.100	0.012	90.0	70-130	8.01	20	
Lead [He]	3/20/24 19:56	0.096	0.00100	"	0.100	ND	96.1	70-130	8.33	20	
Molybdenum [He]	3/20/24 19:56	0.100	0.00100	"	0.100	ND	100	70-130	9.49	20	
Selenium [NG]	3/20/24 19:56	0.093	0.00500	"	0.100	0.002	91.3	70-130	0.666	20	
Selenium [He]	3/20/24 19:56	0.094	0.00100	"	0.100	ND	94.0	70-130	8.83	20	

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
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Choctaw Generation LP 2391 Pensacola Rd. Ackerman MS, 39735	Project: CGLP CCR Semi Annual Project Number: [none] Project Manager: Jim Ward	**Reported:** 04/05/2024 08:37

Certified Analyses Included in this Report

Analyte	Certification Code
ASTM D 512-12C in Water	
Chloride	C01,C02
EPA 200.7 Rev 4.4 in Water	
Aluminum 394.401 [Radial]	C01,C02
Aluminum 396.152 [Radial]	C01,C02
Antimony 206.833 [Axial]	C01,C02
Arsenic 193.759 [Axial]	C01,C02
Barium 455.403 [Radial]	C01,C02
Barium 493.409 [Radial]	C01,C02
Beryllium 313.042 [Axial]	C01,C02
Boron 249.773 [Radial]	C01,C02
Cadmium 228.802 [Axial]	C01,C02
Calcium 315.887 [Radial]	C01,C02
Chromium 283.563 [Axial]	C01,C02
Cobalt 228.616 [Axial]	C01,C02
Copper 324.754 [Axial]	C01,C02
Iron 259.940 [Axial]	C01,C02
Iron 259.940 [Radial]	C01,C02
Lead 220.353 [Axial]	C01,C02
Magnesium 285.213 [Radial]	C01,C02
Manganese 257.610 [Axial]	C01,C02
Molybdenum 202.030 [Axial]	C01,C02
Nickel 231.604 [Axial]	C01,C02
Potassium 766.490 [Radial]	C01,C02
Phosphorus 178.284 [Axial]	C01,C02
Phosphorus 178.284 [Radial]	C01,C02
Selenium 196.090 [Axial]	C01,C02
Silver 328.068 [Axial]	C01,C02
Sodium 589.592 [Axial]	C01,C02
Sodium 589.592 [Radial]	C01,C02
Strontium 346.446 [Radial]	C01,C02
Strontium 421.552 [Radial]	C01,C02
Thallium 190.856 [Axial]	C01,C02
Vanadium 309.311 [Axial]	C01,C02
Zinc 213.856 [Axial]	C01,C02
EPA 200.8 Rev 5.4 in Water	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [NG]	C01,C02
Arsenic [He]	C01,C02
Arsenic [NG]	C01,C02

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Choctaw Generation LP 2391 Pensacola Rd. Ackerman MS, 39735	Project: CGLP CCR Semi Annual Project Number: [none] Project Manager: Jim Ward	**Reported:** 04/05/2024 08:37

Barium [He]	C01,C02
Beryllium [He]	C01,C02
Boron [NG]	C01,C02
Cadmium [He]	C01,C02
Cadmium [NG]	C01,C02
Chromium [He]	C01,C02
Cobalt [He]	C01,C02
Copper [He]	C01,C02
Copper [NG]	C01,C02
Iron [He]	C01,C02
Lead [He]	C01,C02
Lead [NG]	C01,C02
Manganese [He]	C01,C02
Molybdenum [He]	C01,C02
Nickel [He]	C01,C02
Selenium [He]	C01,C02
Selenium [NG]	C01,C02
Silver [He]	C01,C02
Silver [NG]	C01,C02
Strontium [He]	C01,C02
Thallium [He]	C01,C02
Vanadium [He]	C01,C02
Zinc [He]	C01,C02

SM 2540 C-2015 in Water

Total Dissolved Solids	C01,C02

SM 4500-SO42 E 2011 in Water

Sulfate as SO4	C01,C02

****Only compounds included in this list are associated with accredited analyses****

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
04/05/2024 08:37

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	*LA Environmental Lab Accreditation Program*	*01960*	*06/30/2024*
C02	*The NELAC Institute (NELAP)*	*TNI01397*	*06/30/2024*
C03	*MS Dept of Health (Drinking Water Microbiology)*	*MS00021*	*12/31/2024*
C04	*MS Dept of Health (Drinking Water Chemistry)*	*MS00021*	*12/31/2024*
C05	*MS DEQ Lead Firm Certification*	*PBF-00000028*	*03/31/2024*
C06	*MSDEQ Asbestos Inspector : C.D. Bingham*	*ABI-00001348*	*02/09/2024*
C07	*MSDEQ Air Monitor : C.D. Bingham*	*AM-011572*	*02/10/2024*
C08	*MSDEQ Asbestos Inspector: C. W. Meins*	*ABI-00001821*	*09/09/2022*
C09	*MSDEQ Air Monitor : C.W. Meins*	*AM-011189*	*02/10/2024*
C10	*ADEM (Drinking Water Microbiology)*	*43500*	*12/31/2024*
C11	*ADEM (Drinking Water Chemistry)*	*43500*	*12/31/2024*
C14	*MSDEQ Lead Paint Inspector : C.D. Bingham*	*PBI-00003690*	*02/07/2024*
C15	*MSDEQ Lead Paint Inspector : C.W. Meins*	*PBI-00001740*	*02/07/2024*

Report Definitions

TNC	Too Numerous To Count
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the minimum reporting limit
NR	Not Reported
RPD	Relative Percent Difference
ICV	Initial Calibration Verfiication
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verfication Standard
LCS	Lab Control Spike - Lab matrix prepared with known concentration of analyte/s of interest analyzed by method.
MS	Matrix Spike - Sample prepared with known concentration of analyte/s of interest analyzed by method.
MSD	Matrix Spike Duplicate - Duplicate sample prepared with known concentration of analyte/s of interest analyzed by method.
MRL	Minimum Reporting Limit
%REC	Percentage Recovery of known concentration added to matrix
Batch	Group of samples prepared for analysis not to exceed 20 samples.
Matrix	Material containing analyte/s of interest
Surrogate	Analyte added to sample to determine extraction efficiency of method.

MICRO-METHODS LABORATORY, INC.

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Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	04/05/2024 08:37

Analyst Initials Key

FullName	Initials
Charles L Vorhoff	CLV
Christa R Gray	CRG
Dortha L. Wells	DLW
Sarah E. Tomek	SET
Samantha C. Hall	SCH
Teresa Meins	TKM
Tina Tomek	TPT

Print Form

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

M-M Lab WO # 2403287

Company Name: Choctaw Generation Limited Partnership LLLP
Address: 2391 Pensacola Rd.
City: Ackerman State: MS Zip: 39735
Phone: 662-387-5758
Fax:

Project Manager: Jim Ward
Purchase Order #:
Email Address: jmward@southernco.com
Sampler Name Printed: Caleb James
Sampler Name Signed: Caleb James

Turn Around Time & Reporting
Our normal turn around time is 10 working days
__Normal __Next Day* __2nd Day* __Other*_____
*All rush order requests must be prior approved.
__Phone __Mail __Fax __Email
QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: CGLP CCR
Project #: Semi-Annual

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Preservative: Grab (G) or Composite (C)	TDS	Chloride, Fluoride, Sulfate	Antimony, Arsenic	Barium, Boron	Beryllium, Cadmium	Chromium, Lead	Calcium, Cobalt	Lithium	Molybdenum, Selenium	Total Radium 226 & 228
MW-9	3/13/24 12:35	W	4	G	X	X	X	X	X	X	X	X	X	X
OW-2	3/13/24 15:25	W	4	G	X	X	X	X	X	X	X	X	X	X
MW-13	3/13/24 13:30	W	4	G	X	X	X	X	X	X	X	X	X	X
MW-7	3/13/24 10:45	W	4	G	X	X	X	X	X	X	X	X	X	X
MW-14	3/14/24 09:40	W	4	G	X	X	X	X	X	X	X	X	X	X
Field Blank	3/13/24 10:20	W	4	G	X	X	X	X	X	X	X	X	X	X
Field Duplicate	———	W	4	G	X	X	X	X	X	X	X	X	X	X
MW-12	3/13/24 14:15	W	4	G	X	X	X	X	X	X	X	X	X	X
CCR-2	3/13/24 16:25	W	4	G	X	X	X	X	X	X	X	X	X	X
CCR-3	3/13/24 13:18	W	4	G	X	X	X	X	X	X	X	X	X	X
CCR-4	3/13/24 11:19	W	4	G	X	X	X	X	X	X	X	X	X	X

Field Testing

ID# Field Test	ID# Field Test	ID# Field Test	ID# Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

Received on Ice? (Y) N Thermometer# 5 Cooler #_____ **Receipt Temp Corrected(°C)**
Date & Time _____ By: _____ Sample_____ Blank X Cooler_____
All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Caleb James	Caleb James	ECS	3/14/24	16:20
Received by	FedEx				
Relinquished by	FedEx				
Received by	Sarah Tomek	Sarah Tomek	MM	3/15/24	1135
Relinquished by					
Received by					

Notes:
Please Return ECS's 4-day coolers
client cooler #1 2.5°c
client cooler #2 3.5°c

Print Form

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www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

M-M Lab WO # 2403287

Company Name: Choctaw Generation Limited Partnership LLLP	Project Manager: Jim Ward
Address: 2391 Pensacola Rd.	Purchase Order #:
City: Ackerman State: MS Zip: 39735	Email Address : jmward@southernco.com
Phone: 662-387-5758	Sampler Name Printed: Caleb James
Fax:	Sampler Name Signed:

Turn Around Time & Reporting
Our normal turn around time is 10 working days
__Normal __Next Day* __2nd Day* __Other*_____
*All rush order requests must be prior approved.
__Phone __Mail __Fax __Email
QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: CGLP CCR
Project #: Semi-Annual

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Grab (G) or Composite (C)	TDS	Chloride, Fluoride, Sulfate	Antimony, Arsenic	Barium, Boron	Beryllium, Cadmium	Chromium, Lead	Calcium, Cobalt	Lithium	Molybdenum, Selenium	Total Radium 226 & 228
			Preservative:											
CCR-5	3/13/24 15:35	W	4	G	X	X	X	X	X	X	X	X	X	X

Field Testing

ID# Field Test	ID# Field Test	ID# Field Test	ID# Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

Received on Ice? Y N Thermometer#_____ Cooler #_____ **Receipt Temp Corrected(°C)**
Date & Time _____ By: _____ Sample_____Blank_____Cooler_____
All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Caleb James		BECS	3/14/24	16:20
Received by	FedEx				
Relinquished by	FedEx				
Received by	Sarah Tomek	Sarah Tomek	MM	3/15/24	1135
Relinquished by					
Received by					

Notes:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

April 04, 2024

Tina Tomek
Micro-Methods Lab
6500 Sunplex Drive
Ocean Springs, MS 39564

RE: Project: 2403287
Pace Project No.: 30670404

Dear Tina Tomek:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Justin P. Horn
justin.horn@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Accounts Payable, Micro-Methods Lab

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 2403287
Pace Project No.: 30670404

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 2403287
Pace Project No.: 30670404

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30670404001	2403287-01	Water	03/13/24 12:35	03/21/24 10:15
30670404002	2403287-02	Water	03/13/24 15:25	03/21/24 10:15
30670404003	2403287-03	Water	03/13/24 13:30	03/21/24 10:15
30670404004	2403287-04	Water	03/13/24 10:45	03/21/24 10:15
30670404005	2403287-05	Water	03/14/24 09:40	03/21/24 10:15
30670404006	2403287-06	Water	03/13/24 10:20	03/21/24 10:15
30670404007	2403287-07	Water	03/13/24 00:00	03/21/24 10:15
30670404008	2403287-08	Water	03/13/24 14:15	03/21/24 10:15
30670404009	2403287-09	Water	03/13/24 16:25	03/21/24 10:15
30670404010	2403287-10	Water	03/13/24 13:18	03/21/24 10:15
30670404011	2403287-11	Water	03/13/24 11:19	03/21/24 10:15
30670404012	2403287-12	Water	03/13/24 15:35	03/21/24 10:15

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 2403287
Pace Project No.: 30670404

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30670404001	2403287-01	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1
30670404002	2403287-02	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1
30670404003	2403287-03	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1
30670404004	2403287-04	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1
30670404005	2403287-05	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1
30670404006	2403287-06	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1
30670404007	2403287-07	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1
30670404008	2403287-08	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1
30670404009	2403287-09	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1
30670404010	2403287-10	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1
30670404011	2403287-11	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1
30670404012	2403287-12	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 2403287
Pace Project No.: 30670404

Lab ID	Sample ID	Method	Analysts	Analytes Reported

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2403287
Pace Project No.: 30670404

Sample: 2403287-01 **Lab ID: 30670404001** Collected: 03/13/24 12:35 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.273 ± 0.514 (0.910) C:NA T:88%**	pCi/L	04/03/24 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.517 ± 0.337 (0.640) C:91% T:94%**	pCi/L	04/01/24 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.790 ± 0.851 (1.55)**	pCi/L	04/04/24 13:17	7440-14-4	

Sample: 2403287-02 **Lab ID: 30670404002** Collected: 03/13/24 15:25 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.238 ± 0.437 (0.780) C:NA T:87%**	pCi/L	04/03/24 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.0433 ± 0.379 (0.874) C:74% T:82%**	pCi/L	04/01/24 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.281 ± 0.816 (1.65)**	pCi/L	04/04/24 13:17	7440-14-4	

Sample: 2403287-03 **Lab ID: 30670404003** Collected: 03/13/24 13:30 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.713 ± 0.515 (0.718) C:NA T:94%**	pCi/L	04/03/24 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.148 ± 0.336 (0.744) C:90% T:84%**	pCi/L	04/01/24 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.861 ± 0.851 (1.46)**	pCi/L	04/04/24 13:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2403287
Pace Project No.: 30670404

Sample: 2403287-04 **Lab ID: 30670404004** Collected: 03/13/24 10:45 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.113 ± 0.272 (0.679) C:NA T:89%**	pCi/L	04/03/24 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.691 ± 0.404 (0.750) C:88% T:86%**	pCi/L	04/01/24 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.691 ± 0.676 (1.43)**	pCi/L	04/04/24 13:17	7440-14-4	

Sample: 2403287-05 **Lab ID: 30670404005** Collected: 03/14/24 09:40 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.174 ± 0.544 (1.01) C:NA T:86%**	pCi/L	04/03/24 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.589 ± 0.385 (0.733) C:86% T:90%**	pCi/L	04/01/24 15:49	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.763 ± 0.929 (1.74)**	pCi/L	04/04/24 13:17	7440-14-4	

Sample: 2403287-06 **Lab ID: 30670404006** Collected: 03/13/24 10:20 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.410 ± 0.528 (0.880) C:NA T:93%**	pCi/L	04/03/24 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.465 ± 0.362 (0.715) C:88% T:83%**	pCi/L	04/01/24 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.875 ± 0.890 (1.60)**	pCi/L	04/04/24 13:17	7440-14-4	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2403287
Pace Project No.: 30670404

Sample: 2403287-07 **Lab ID: 30670404007** Collected: 03/13/24 00:00 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.420 ± 0.729 (1.26) C:NA T:95%**	pCi/L	04/03/24 14:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.247 ± 0.330 (0.706) C:89% T:86%**	pCi/L	04/01/24 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.667 ± 1.06 (1.97)**	pCi/L	04/04/24 13:17	7440-14-4	

Sample: 2403287-08 **Lab ID: 30670404008** Collected: 03/13/24 14:15 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.497 ± 0.520 (0.815) C:NA T:86%**	pCi/L	04/03/24 14:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.513 ± 0.392 (0.777) C:90% T:84%**	pCi/L	04/01/24 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.01 ± 0.912 (1.59)**	pCi/L	04/04/24 13:17	7440-14-4	

Sample: 2403287-09 **Lab ID: 30670404009** Collected: 03/13/24 16:25 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.204 ± 0.401 (0.719) C:NA T:90%**	pCi/L	04/03/24 14:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.551 ± 0.363 (0.695) C:90% T:89%**	pCi/L	04/01/24 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.755 ± 0.764 (1.41)**	pCi/L	04/04/24 13:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2403287
Pace Project No.: 30670404

Sample: 2403287-10 **Lab ID: 30670404010** Collected: 03/13/24 13:18 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.564 ± 0.419 (0.552) C:NA T:90%**	pCi/L	04/03/24 14:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.978 ± 0.426 (0.696) C:90% T:83%**	pCi/L	04/01/24 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.54 ± 0.845 (1.25)**	pCi/L	04/04/24 13:17	7440-14-4	

Sample: 2403287-11 **Lab ID: 30670404011** Collected: 03/13/24 11:19 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.917 ± 0.496 (0.501) C:NA T:91%**	pCi/L	04/03/24 14:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.475 ± 0.327 (0.627) C:94% T:85%**	pCi/L	04/01/24 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.39 ± 0.823 (1.13)**	pCi/L	04/04/24 13:17	7440-14-4	

Sample: 2403287-12 **Lab ID: 30670404012** Collected: 03/13/24 15:35 Received: 03/21/24 10:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.0525 ± 0.515 (1.02) C:NA T:90%**	pCi/L	04/03/24 14:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.636 ± 0.402 (0.757) C:86% T:82%**	pCi/L	04/01/24 15:50	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.636 ± 0.917 (1.78)**	pCi/L	04/04/24 13:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2403287
Pace Project No.: 30670404

QC Batch: 656738 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30670404001, 30670404002, 30670404003, 30670404004, 30670404005, 30670404006, 30670404007, 30670404008, 30670404009, 30670404010, 30670404011, 30670404012

METHOD BLANK: 3199192 Matrix: Water
Associated Lab Samples: 30670404001, 30670404002, 30670404003, 30670404004, 30670404005, 30670404006, 30670404007, 30670404008, 30670404009, 30670404010, 30670404011, 30670404012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.489 ± 0.341 (0.657) C:90% T:85%	pCi/L	04/01/24 15:49	

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.

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2403287
Pace Project No.: 30670404

QC Batch: 656736
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30670404001, 30670404002, 30670404003, 30670404004, 30670404005, 30670404006, 30670404007, 30670404008, 30670404009, 30670404010, 30670404011, 30670404012

METHOD BLANK: 3199190 Matrix: Water
Associated Lab Samples: 30670404001, 30670404002, 30670404003, 30670404004, 30670404005, 30670404006, 30670404007, 30670404008, 30670404009, 30670404010, 30670404011, 30670404012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.200 (0.323) C:NA T:90%	pCi/L	04/03/24 14:46	

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.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 2403287
Pace Project No.: 30670404

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.

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

MICRO-METHODS LABORATORY, INC.

SUBCONTRACT ORDER

Sending Laboratory:

Micro-Methods Laboratory, Inc.
6500 Sunplex Drive
Ocean Springs, MS 39564
Phone: 228.875.6420
Fax: 228.875.6423

Project Manager: Teresa Meins

Subcontracted Laboratory:

Pace Analytical-7
1638 Roseytown Rd. Suites 2, 3, 4
Greensburg, PA 15601
Phone: (724) 850-5600
Fax: -

WO# : 30670404

30670404

Work Order: 2403287

Analysis	Due	Expires	Comments	
Sample ID: 2403287-01 *Water* *Sampled: 03/13/2024 12:35* *Sample Name: MW-9*				001
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/10/2024 12:35		
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)				
Sample ID: 2403287-02 *Water* *Sampled: 03/13/2024 15:25* *Sample Name: OW-2*				002
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/10/2024 15:25		
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)				
Sample ID: 2403287-03 *Water* *Sampled: 03/13/2024 13:30* *Sample Name: MW-13*				003
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/10/2024 13:30		
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)				
Sample ID: 2403287-04 *Water* *Sampled: 03/13/2024 10:45* *Sample Name: MW-7*				004
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/10/2024 10:45		
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)				
Sample ID: 2403287-05 *Water* *Sampled: 03/14/2024 09:40* *Sample Name: MW-14*				005
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/11/2024 09:40		

Released By	Date	Received By	Date
Sonah Jonnah	3/18/24 1630	UPS	3/18/24 1630
UPS		Pace - Sandi	3/21/24 1015

Work Order: 2403287 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2403287-06 *Water* *Sampled: 03/13/2024 10:20* *Sample Name: Field Blank*			006
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/10/2024 10:20	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2403287-07 *Water* *Sampled: 03/13/2024 00:00* *Sample Name: Duplicate*			007
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/10/2024 00:00	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2403287-08 *Water* *Sampled: 03/13/2024 14:15* *Sample Name: MW-12*			008
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/10/2024 14:15	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2403287-09 *Water* *Sampled: 03/13/2024 16:25* *Sample Name: CCR-2*			009
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/10/2024 16:25	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2403287-10 *Water* *Sampled: 03/13/2024 13:18* *Sample Name: CCR-3*			010
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/10/2024 13:18	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2403287-11 *Water* *Sampled: 03/13/2024 11:19* *Sample Name: CCR-4*			011
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/10/2024 11:19	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2403287-12 *Water* *Sampled: 03/13/2024 15:35* *Sample Name: CCR-5*			

Released By	Date	Received By	Date
Sarah Jarmer	3/18/24 1630	UPS	3/18/24 1630
UPS		Jade Smith-Pace	3/21/24 1015

MICRO-METHODS LABORATORY, INC.

SUBCONTRACT ORDER
(Continued)

Work Order: 2403287 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 2403287-12 *Water* *Sampled: 03/13/2024 15:35* *Sample Name: CCR-5*			C12
Radium,Total 226 & 228 by EPA 903.1 & 9C	03/25/2024	04/10/2024 15:35	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			

WO#: 30670404
PM: JPH Due Date: 04/11/24
CLIENT: MICROMETHOD

Released By	Date	Received By	Date
Sarah Jarrett	3/18/24 1630	UPS	3/18/24 1630
UPS		Jack Scott - Pace	3/20/24 7015

ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO#: 30670404

PM: JPH Due Date: 04/11/24

CLIENT: MICROMETHOD

Client Name: Micromethods Pro

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

Tracking Number: 1Z535G6303 6924 4231

Initial / Date

Examined By: JS 3/21/24

Labeled By: JS 3/21/24

Temped By:

Custody Seal on Cooler/Box Present: ☑ Yes ☐ No Seals Intact: ☑ Yes ☐ No

Thermometer Used: — Type of Ice: Wet Blue (None)

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

Comments:	Yes	No	NA	pH paper Lot# 1002431 / D.P.D. Residual Chlorine Lot #
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID Matrix:	WT			
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used	✓			
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dechlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:	✓			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				PH<2
All containers meet method preservation requirements:	✓			Initial when completed JS / Date/Time of Preservation / Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:		✓		Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed JS / Date: 3/21/24 / Survey Meter SN: 2501/4380
Comments:				

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

DC#_Title: ENV-FRM-GBUR-0072 v02_Sample Container Count Offshore Projects
Effective Date: 1/11/2023

Client Micro Methods

Site

Page 1 of 1

Profile Number 14460

Notes

		Amber Glass					Plastic								Vials					Other									
Sample Line Item	Matrix	AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	GN	BG1U		
1	WT						2																						
12																													

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved	GN	General

Plastic/Misc.

GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	120mL coliform Na Thiosulfate
BP1N	1L plastic HNO3
BP1U	1L plastic unpreserved
BP3S	250mL plastic H2SO4
BP3N	250mL plastic HNO3
BP3U	250mL plastic unpreserved
BP3C	250mL plastic NAOH
	mL plastic H2SO4
	nL plastic unpreserved

EZI	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag

WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

WO# : 30670404

PM: JPH Due Date: 04/11/24

CLIENT: MICROMETHOD

Qualtrax ID: 55678

MICRO-METHODS LABORATORY, INC.

Mailing Address:
PO Box 1410
Ocean Springs, MS
39566-1410

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
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DOCUMENT CHANGE NOTICE

Revised Report

July 02, 2024

Jim Ward

Work Order # : 2405473

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman, MS 39735

Purchase Order # RDH19587 - Yr 2024

RE: CGLP CCR Annual

Enclosed is the revised report for samples received by the laboratory on 05/23/2024 08:38. This report supercedes any previous version of the above noted work order. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director

DISCLAIMER

The results only relate to the items or the sample and/or samples received by the laboratory. This report shall not be reproduced except in full, without the approval of the laboratory. All NELAP certified test methods performed meet the requirements of NELAC 2009 Standards. Any variances and/or deviations specific to this analytical report are referenced in the lab report using qualifiers and detailed explanations found in the case narrative.

MICRO-METHODS LABORATORY, INC.

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Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
MW-7	2405473-01	Water	05/21/2024 12:49	*Caleb James*	05/23/2024 08:38
MW-9	2405473-02	Water	05/21/2024 15:44	*Caleb James*	05/23/2024 08:38
MW-12	2405473-03	Water	05/21/2024 12:04	*Caleb James*	05/23/2024 08:38
MW-13	2405473-04	Water	05/21/2024 16:21	*Caleb James*	05/23/2024 08:38
MW-14	2405473-05	Water	05/21/2024 11:40	*Caleb James*	05/23/2024 08:38
Field Blank	2405473-06	Water	05/21/2024 11:58	*Caleb James*	05/23/2024 08:38
Duplicate	2405473-07	Water	05/21/2024 00:00	*Caleb James*	05/23/2024 08:38
OW-2	2405473-08	Water	05/21/2024 14:35	*Caleb James*	05/23/2024 08:38
CCR-2	2405473-09	Water	05/21/2024 09:30	*Caleb James*	05/23/2024 08:38
CCR-3	2405473-10	Water	05/21/2024 10:23	*Caleb James*	05/23/2024 08:38
CCR-4	2405473-11	Water	05/21/2024 17:07	*Caleb James*	05/23/2024 08:38
CCR-5	2405473-12	Water	05/21/2024 15:24	*Caleb James*	05/23/2024 08:38

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

Sample Receipt Conditions

Date/Time Received: 5/23/2024 8:38:00AM
Received by: Sarah E. Tomek
Date/Time Logged: 5/23/2024 10:57:00AM
Cooler ID: client cooler #1

Shipped by: Fed Ex
Submitted by: Caleb James
Logged by: Sarah E. Tomek
Receipt Temperature: 0.8 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	No
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

Cooler ID: client cooler #2

Receipt Temperature: 0.7 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	No
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

Cooler ID: client cooler #3

Receipt Temperature: 0.2 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	No
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	07/02/2024 10:44

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

See attached results from Sub-Contract Laboratory

REVISED REPORT-7/2/2024- SCH:
Report reissued with corrected MRL for Thallium.

Qualification: *No Data Qualification*

Analyte & Samples(s) Qualified: *None*

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

MW-7

2405473-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	**0.45**	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.065**	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 16:33	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 16:04	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00132**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

MW-9

2405473-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	**0.32**	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.113**	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 16:37	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 16:08	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	**0.00207**	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.0141**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

MW-12

2405473-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.159**	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 16:41	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 16:12	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.0214**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

MW-13

2405473-04 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.178**	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 16:44	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 16:17	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

MW-14

2405473-05 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.012**	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 16:48	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 16:21	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

Field Blank

2405473-06 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	ND	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 16:52	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 16:26	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

Duplicate

2405473-07 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.012**	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 16:55	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 16:30	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

MICRO-METHODS LABORATORY, INC.

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228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

OW-2

2405473-08 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.027**	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 16:59	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 16:34	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

CCR-2

2405473-09 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.120**	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 17:10	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 16:56	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

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Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

CCR-3

2405473-10 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.072**	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 17:13	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	**0.078**	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 17:01	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.0178**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

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Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

CCR-4

2405473-11 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.152**	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 17:25	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 17:05	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00278**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

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Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

CCR-5

2405473-12 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	ND	0.22	mg/L	1.0	4E28037	ASW	05/28/2024 09:00	05/28/2024 12:18	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.093**	0.010	mg/L	1.0	4E29052	CLV	05/29/2024 09:45	06/03/2024 17:29	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4E29049	SCH	"	05/29/2024 17:09	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00436**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	**0.00230**	0.00100	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	4E28043	CLV	05/28/2024 11:30	05/29/2024 11:31	EPA 245.1 Rev 3.0	

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Choctaw Generation LP	Project: CGLP CCR Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	07/02/2024 10:44

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E28037 - Default Prep GenChem											
Blank (4E28037-BLK1)											
Fluoride	5/28/24 12:18	ND	0.22	mg/L							
LCS (4E28037-BS1)											
Fluoride	5/28/24 12:18	2.06	0.22	mg/L	2.00		103	88.5-110			
LCS Dup (4E28037-BSD1)											
Fluoride	5/28/24 12:18	2.09	0.22	mg/L	2.00		105	88.5-110	1.45	30	
Duplicate (4E28037-DUP1)			**Source: 2405473-01**								
Fluoride	5/28/24 12:18	0.44	0.22	mg/L		0.45			2.26	20	
Matrix Spike (4E28037-MS1)			**Source: 2405473-01**								
Fluoride	5/28/24 12:18	2.45	0.22	mg/L	2.00	0.45	100	81.9-110			
Matrix Spike Dup (4E28037-MSD1)			**Source: 2405473-01**								
Fluoride	5/28/24 12:18	2.45	0.22	mg/L	2.00	0.45	100	81.9-110	0.00	30	

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07/02/2024 10:44

Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E29052 - EPA 200.2 DCN 1017 Rev 10											
Blank (4E29052-BLK1)											
Barium 455.403 [Radial]	6/3/24 15:23	ND	0.010	mg/L							
Lithium 610.362 [Axial]	6/3/24 15:23	ND	0.040	"							
LCS (4E29052-BS1)											
Barium 455.403 [Radial]	6/3/24 15:27	0.212	0.010	mg/L	0.200		106	85-115			
Lithium 610.362 [Axial]	6/3/24 15:27	0.187	0.040	"	0.200		93.4	85-115			
LCS Dup (4E29052-BSD1)											
Barium 455.403 [Radial]	6/3/24 15:30	0.212	0.010	mg/L	0.200		106	85-115	0.238	20	
Lithium 610.362 [Axial]	6/3/24 15:30	0.188	0.040	"	0.200		93.9	85-115	0.604	20	
Matrix Spike (4E29052-MS1)			**Source: 2405462-01**								
Barium 455.403 [Radial]	6/3/24 15:41	0.198	0.010	mg/L	0.200	0.002	98.3	70-130			
Lithium 610.362 [Axial]	6/3/24 15:41	0.161	0.040	"	0.200	ND	80.3	70-130			
Matrix Spike (4E29052-MS2)			**Source: 2405473-08**								
Barium 455.403 [Radial]	6/3/24 17:02	0.228	0.010	mg/L	0.200	0.027	101	70-130			
Lithium 610.362 [Axial]	6/3/24 17:02	0.239	0.040	"	0.200	0.020	109	70-130			
Matrix Spike Dup (4E29052-MSD1)			**Source: 2405462-01**								
Barium 455.403 [Radial]	6/3/24 15:45	0.200	0.010	mg/L	0.200	0.002	99.0	70-130	0.723	20	
Lithium 610.362 [Axial]	6/3/24 15:45	0.165	0.040	"	0.200	ND	82.6	70-130	2.83	20	
Matrix Spike Dup (4E29052-MSD2)			**Source: 2405473-08**								
Barium 455.403 [Radial]	6/3/24 17:06	0.227	0.010	mg/L	0.200	0.027	100	70-130	0.628	20	
Lithium 610.362 [Axial]	6/3/24 17:06	0.234	0.040	"	0.200	0.020	107	70-130	1.97	20	

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Project: CGLP CCR Annual
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Project Manager: Jim Ward

Reported:
07/02/2024 10:44

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E29049 - EPA 200.2 DCN 1017 Rev 10											
Blank (4E29049-BLK1)											
Antimony [He]	5/29/24 12:50	ND	0.00200	mg/L							
Arsenic [He]	5/29/24 12:50	ND	0.00200	"							
Beryllium [He]	5/29/24 12:50	ND	0.00100	"							
Cadmium [He]	5/29/24 12:50	ND	0.00100	"							
Chromium [He]	5/29/24 12:50	ND	0.00100	"							
Cobalt [He]	5/29/24 12:50	ND	0.00100	"							
Lead [He]	5/29/24 12:50	ND	0.00100	"							
Molybdenum [He]	5/29/24 12:50	ND	0.00100	"							
Selenium [He]	5/29/24 12:50	ND	0.00100	"							
Thallium [He]	5/29/24 12:50	ND	0.00100	"							
LCS (4E29049-BS1)											
Antimony [He]	5/29/24 12:55	0.102	0.00200	mg/L	0.100		102	85-115			
Arsenic [He]	5/29/24 12:55	0.101	0.00200	"	0.100		101	85-115			
Beryllium [He]	5/29/24 12:55	0.103	0.00100	"	0.100		103	85-115			
Cadmium [He]	5/29/24 12:55	0.101	0.00100	"	0.100		101	85-115			
Chromium [He]	5/29/24 12:55	0.105	0.00100	"	0.100		105	85-115			
Cobalt [He]	5/29/24 12:55	0.106	0.00100	"	0.100		106	85-115			
Lead [He]	5/29/24 12:55	0.102	0.00100	"	0.100		102	85-115			
Molybdenum [He]	5/29/24 12:55	0.102	0.00100	"	0.100		102	85-115			
Selenium [He]	5/29/24 12:55	0.101	0.00100	"	0.100		101	85-115			
Thallium [He]	5/29/24 12:55	0.100	0.00100	"	0.100		99.7	85-115			
LCS Dup (4E29049-BSD1)											
Antimony [He]	5/29/24 12:59	0.101	0.00200	mg/L	0.100		101	85-115	0.707	20	
Arsenic [He]	5/29/24 12:59	0.102	0.00200	"	0.100		102	85-115	0.686	20	
Beryllium [He]	5/29/24 12:59	0.102	0.00100	"	0.100		102	85-115	0.971	20	
Cadmium [He]	5/29/24 12:59	0.101	0.00100	"	0.100		101	85-115	0.0821	20	
Chromium [He]	5/29/24 12:59	0.104	0.00100	"	0.100		104	85-115	1.60	20	
Cobalt [He]	5/29/24 12:59	0.105	0.00100	"	0.100		105	85-115	0.932	20	
Lead [He]	5/29/24 12:59	0.103	0.00100	"	0.100		103	85-115	0.684	20	
Molybdenum [He]	5/29/24 12:59	0.104	0.00100	"	0.100		104	85-115	2.04	20	
Selenium [He]	5/29/24 12:59	0.098	0.00100	"	0.100		97.9	85-115	3.36	20	
Thallium [He]	5/29/24 12:59	0.102	0.00100	"	0.100		102	85-115	2.17	20	

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Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E29049 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (4E29049-MS1)			**Source: 2405452-03**								
Antimony [He]	5/29/24 15:50	0.106	0.00200	mg/L	0.100	0.0005	106	70-130			
Arsenic [He]	5/29/24 15:50	0.102	0.00200	"	0.100	0.0003	102	70-130			
Beryllium [He]	5/29/24 15:50	0.110	0.00100	"	0.100	ND	110	70-130			
Cadmium [He]	5/29/24 15:50	0.101	0.00100	"	0.100	ND	101	70-130			
Chromium [He]	5/29/24 15:50	0.108	0.00100	"	0.100	0.0001	108	70-130			
Cobalt [He]	5/29/24 15:50	0.109	0.00100	"	0.100	0.0003	109	70-130			
Lead [He]	5/29/24 15:50	0.104	0.00100	"	0.100	ND	104	70-130			
Molybdenum [He]	5/29/24 15:50	0.107	0.00100	"	0.100	0.0003	107	70-130			
Selenium [He]	5/29/24 15:50	0.096	0.00100	"	0.100	0.0003	96.0	70-130			
Thallium [He]	5/29/24 15:50	0.103	0.00100	"	0.100	0.0002	102	70-130			
Matrix Spike (4E29049-MS2)			**Source: 2405473-08**								
Antimony [He]	5/29/24 16:39	0.108	0.00200	mg/L	0.100	ND	108	70-130			
Arsenic [He]	5/29/24 16:39	0.102	0.00200	"	0.100	0.00005	102	70-130			
Beryllium [He]	5/29/24 16:39	0.110	0.00100	"	0.100	ND	110	70-130			
Cadmium [He]	5/29/24 16:39	0.102	0.00100	"	0.100	0.0003	102	70-130			
Chromium [He]	5/29/24 16:39	0.106	0.00100	"	0.100	ND	106	70-130			
Cobalt [He]	5/29/24 16:39	0.105	0.00100	"	0.100	0.0007	105	70-130			
Lead [He]	5/29/24 16:39	0.104	0.00100	"	0.100	ND	104	70-130			
Molybdenum [He]	5/29/24 16:39	0.109	0.00100	"	0.100	ND	109	70-130			
Selenium [He]	5/29/24 16:39	0.094	0.00100	"	0.100	ND	94.3	70-130			
Thallium [He]	5/29/24 16:39	0.105	0.00100	"	0.100	ND	105	70-130			
Matrix Spike Dup (4E29049-MSD1)			**Source: 2405452-03**								
Antimony [He]	5/29/24 15:55	0.108	0.00200	mg/L	0.100	0.0005	107	70-130	1.29	20	
Arsenic [He]	5/29/24 15:55	0.102	0.00200	"	0.100	0.0003	102	70-130	0.223	20	
Beryllium [He]	5/29/24 15:55	0.105	0.00100	"	0.100	ND	105	70-130	4.38	20	
Cadmium [He]	5/29/24 15:55	0.101	0.00100	"	0.100	ND	101	70-130	0.916	20	
Chromium [He]	5/29/24 15:55	0.106	0.00100	"	0.100	0.0001	106	70-130	2.59	20	
Cobalt [He]	5/29/24 15:55	0.106	0.00100	"	0.100	0.0003	106	70-130	2.86	20	
Lead [He]	5/29/24 15:55	0.105	0.00100	"	0.100	ND	105	70-130	1.07	20	
Molybdenum [He]	5/29/24 15:55	0.107	0.00100	"	0.100	0.0003	107	70-130	0.411	20	
Selenium [He]	5/29/24 15:55	0.095	0.00100	"	0.100	0.0003	94.5	70-130	1.52	20	
Thallium [He]	5/29/24 15:55	0.104	0.00100	"	0.100	0.0002	104	70-130	1.49	20	

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E29049 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike Dup (4E29049-MSD2)			**Source: 2405473-08**								
Antimony [He]	5/29/24 16:43	0.108	0.00200	mg/L	0.100	ND	108	70-130	0.518	20	
Arsenic [He]	5/29/24 16:43	0.101	0.00200	"	0.100	0.00005	101	70-130	1.17	20	
Beryllium [He]	5/29/24 16:43	0.105	0.00100	"	0.100	ND	105	70-130	5.11	20	
Cadmium [He]	5/29/24 16:43	0.102	0.00100	"	0.100	0.0003	102	70-130	0.0448	20	
Chromium [He]	5/29/24 16:43	0.104	0.00100	"	0.100	ND	104	70-130	1.34	20	
Cobalt [He]	5/29/24 16:43	0.103	0.00100	"	0.100	0.0007	103	70-130	1.87	20	
Lead [He]	5/29/24 16:43	0.104	0.00100	"	0.100	ND	104	70-130	0.617	20	
Molybdenum [He]	5/29/24 16:43	0.108	0.00100	"	0.100	ND	108	70-130	1.27	20	
Selenium [He]	5/29/24 16:43	0.091	0.00100	"	0.100	ND	90.7	70-130	3.94	20	
Thallium [He]	5/29/24 16:43	0.104	0.00100	"	0.100	ND	104	70-130	0.425	20	

MICRO-METHODS LABORATORY, INC.

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228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
07/02/2024 10:44

Mercury by EPA 200 Series Methods CVAAS - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4E28043 - EPA 245.1 DCN 1017 Rev 10											
Blank (4E28043-BLK1)											
Mercury	5/29/24 11:31	ND	0.00200	mg/L							
LCS (4E28043-BS1)											
Mercury	5/29/24 11:31	0.005	0.00200	mg/L	0.00500		102	85-115			
LCS Dup (4E28043-BSD1)											
Mercury	5/29/24 11:31	0.005	0.00200	mg/L	0.00500		104	85-115	1.94	20	
Matrix Spike (4E28043-MS1)			**Source: 2405473-01**								
Mercury	5/29/24 11:31	0.005	0.00200	mg/L	0.00500	ND	102	70-130			
Matrix Spike (4E28043-MS2)			**Source: 2405473-10**								
Mercury	5/29/24 11:31	0.005	0.00200	mg/L	0.00500	ND	100	70-130			
Matrix Spike Dup (4E28043-MSD1)			**Source: 2405473-01**								
Mercury	5/29/24 11:31	0.005	0.00200	mg/L	0.00500	ND	104	70-130	1.94	20	
Matrix Spike Dup (4E28043-MSD2)			**Source: 2405473-10**								
Mercury	5/29/24 11:31	0.005	0.00200	mg/L	0.00500	ND	100	70-130	0.00	20	

MICRO-METHODS LABORATORY, INC.

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Ocean Springs, MS 39564
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Choctaw Generation LP	Project: CGLP CCR Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	07/02/2024 10:44

Certified Analyses Included in this Report

Analyte	Certification Code
EPA 200.7 Rev 4.4 in Water	
Aluminum 394.401 [Radial]	C01,C02
Aluminum 396.152 [Radial]	C01,C02
Antimony 206.833 [Axial]	C01,C02
Arsenic 193.759 [Axial]	C01,C02
Barium 455.403 [Radial]	C01,C02
Barium 493.409 [Radial]	C01,C02
Beryllium 313.042 [Axial]	C01,C02
Boron 249.773 [Radial]	C01,C02
Cadmium 228.802 [Axial]	C01,C02
Calcium 315.887 [Radial]	C01,C02
Chromium 283.563 [Axial]	C01,C02
Cobalt 228.616 [Axial]	C01,C02
Copper 324.754 [Axial]	C01,C02
Iron 259.940 [Axial]	C01,C02
Iron 259.940 [Radial]	C01,C02
Lead 220.353 [Axial]	C01,C02
Magnesium 285.213 [Radial]	C01,C02
Manganese 257.610 [Axial]	C01,C02
Molybdenum 202.030 [Axial]	C01,C02
Nickel 231.604 [Axial]	C01,C02
Potassium 766.490 [Radial]	C01,C02
Phosphorus 178.284 [Axial]	C01,C02
Phosphorus 178.284 [Radial]	C01,C02
Selenium 196.090 [Axial]	C01,C02
Silver 328.068 [Axial]	C01,C02
Sodium 589.592 [Axial]	C01,C02
Sodium 589.592 [Radial]	C01,C02
Strontium 346.446 [Radial]	C01,C02
Strontium 421.552 [Radial]	C01,C02
Thallium 190.856 [Axial]	C01,C02
Vanadium 309.311 [Axial]	C01,C02
Zinc 213.856 [Axial]	C01,C02
EPA 200.8 Rev 5.4 in Water	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [NG]	C01,C02
Arsenic [He]	C01,C02
Arsenic [NG]	C01,C02
Barium [He]	C01,C02

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	07/02/2024 10:44

Beryllium [He]	C01,C02
Cadmium [He]	C01,C02
Cadmium [NG]	C01,C02
Chromium [He]	C01,C02
Cobalt [He]	C01,C02
Copper [He]	C01,C02
Copper [NG]	C01,C02
Iron [He]	C01,C02
Lead [He]	C01,C02
Lead [NG]	C01,C02
Manganese [He]	C01,C02
Molybdenum [He]	C01,C02
Nickel [He]	C01,C02
Selenium [He]	C01,C02
Selenium [NG]	C01,C02
Silver [He]	C01,C02
Silver [NG]	C01,C02
Strontium [He]	C01,C02
Thallium [He]	C01,C02
Vanadium [He]	C01,C02
Zinc [He]	C01,C02

EPA 245.1 Rev 3.0 in Water

Mercury	C01,C02

****Only compounds included in this list are associated with accredited analyses****

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	07/02/2024 10:44

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	LA Environmental Lab Accreditation Program	01960	06/30/2025
C02	The NELAC Institute (NELAP)	TNI01397	06/30/2025
C03	MS Dept of Health (Drinking Water Microbiology)	MS00021	12/31/2024
C04	MS Dept of Health (Drinking Water Chemistry)	MS00021	12/31/2024
C05	MS DEQ Lead Firm Certification	PBF-00000028	03/31/2024
C06	MSDEQ Asbestos Inspector : C.D. Bingham	ABI-00001348	02/09/2024
C07	MSDEQ Air Monitor : C.D. Bingham	AM-011572	02/10/2024
C08	MSDEQ Asbestos Inspector: C. W. Meins	ABI-00001821	09/09/2022
C09	MSDEQ Air Monitor : C.W. Meins	AM-011189	02/10/2024
C10	ADEM (Drinking Water Microbiology)	43500	12/31/2024
C11	ADEM (Drinking Water Chemistry)	43500	12/31/2024
C14	MSDEQ Lead Paint Inspector : C.D. Bingham	PBI-00003690	02/07/2024
C15	MSDEQ Lead Paint Inspector : C.W. Meins	PBI-00001740	02/07/2024

Report Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the minimum reporting limit
NR	Not Reported
RPD	Relative Percent Difference
ICV	Initial Calibration Verfiication
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verfication Standard
LCS	Lab Control Spike - Lab matrix prepared with known concentration of analyte/s of interest analyzed by method.
MS	Matrix Spike - Sample prepared with known concentration of analyte/s of interest analyzed by method.
MSD	Matrix Spike Duplicate - Duplicate sample prepared with known concentration of anlayte/s of interest analyzed by method.
MRL	Minimum Reporting Limit
%REC	Percentage Recovery of known concentration added to matrix
Batch	Group of samples prepared for analysis not to exceed 20 samples.
Matrix	Material containing analyte/s of interest
Surrogate	Analyte added to sample to determine extraction efficiency of method.

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	07/02/2024 10:44

Analyst Initials Key

FullName	Initials
Alexandria S Windham	ASW
Charles L Vorhoff	CLV
Sarah E. Tomek	SET
Samantha C. Hall	SCH
Teresa Meins	TKM
Tina Tomek	TPT

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

Print Form

M-M Lab WO # 2405473

Company Name: Choctaw Generation Limited Partnership LLLP	Project Manager: Jim Ward
Address: 2391 Pensacola Rd.	Purchase Order #:
City: Ackerman State: MS Zip: 39735	Email Address : jmward@southernco.com
Phone: 662-387-5758	Sampler Name Printed: Caleb James
Fax:	Sampler Name Signed: Caleb James

Turn Around Time & Reporting
Our normal turn around time is 10 working days
X Normal __Next Day* __2nd Day* __Other*_____
*All rush order requests must be prior approved.
__Phone __Mail __Fax __Email
QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: CGLP CCR
Project #: Annual

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Grab (G) or Composite (C)	Fluoride	Antimony, Arsenic	Barium, Beryllium	Cadmium, Cobalt	Chromium, Lead	Lithium, Mercury	Molybdenum, Selenium	Thallium	Total Radium 226 & 228
	Preservative:												
MW-7	5/21/24 12:49	W	4	G	X	X	X	X	X	X	X	X	X
MW-9	5/21/24 15:44	W	4	G	X	X	X	X	X	X	X	X	X
MW-12	5/21/24 12:04	W	4	G	X	X	X	X	X	X	X	X	X
MW-13	5/21/24 16:21	W	4	G	X	X	X	X	X	X	X	X	X
MW-14	5/21/24 11:40	W	4	G	X	X	X	X	X	X	X	X	X
Field Blank	5/21/24 11:58	W	4	G	X	X	X	X	X	X	X	X	X
~~Split~~ Duplicate	— —	W	4	G	X	X	X	X	X	X	X	X	X
OW-2	5/21/24 14:35	W	4	G	X	X	X	X	X	X	X	X	X
CCR-2	5/21/24 09:30	W	4	G	X	X	X	X	X	X	X	X	X
CCR-3	5/21/24 10:23	W	4	G	X	X	X	X	X	X	X	X	X
CCR-4	5/21/24 17:07	W	4	G	X	X	X	X	X	X	X	X	X

Field Testing

ID# Field Test	ID# Field Test	ID# Field Test	ID# Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

Received on Ice? (Y) N Thermometer# 5 Cooler #_____ **Receipt Temp Corrected(°C)**
Date & Time _____ By: _____ Sample____ Blank X Cooler____
All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Caleb James	Caleb James	ECS	5/22/24	09:30
Received by	FedEx				
Relinquished by	FedEx				
Received by	Sarah Tomchamchomet	Sarah Tomchamchomet	MM	5/23/24	0838
Relinquished by					
Received by					

Notes:
client cooler #1 0.8°C
client cooler #2 0.7°C
client cooler #3 0.2°C

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www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

Print Form

M-M Lab WO # 2405473

Company Name:	Choctaw Generation Limited Partnership LLLP
Address:	2391 Pensacola Rd.
City:	Ackerman
State:	MS
Zip:	39735
Phone:	662-387-5758
Fax:	
Project Manager:	Jim Ward
Purchase Order #:	
Email Address :	jmward@southernco.com
Sampler Name Printed:	Caleb James
Sampler Name Signed:	Caleb James

Turn Around Time & Reporting

Our normal turn around time is 10 working days

☒ Normal
__ Next Day*
__ 2nd Day*
__ Other*_____

*All rush order requests must be prior approved.

__ Phone
__ Mail
__ Fax
__ Email

QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: CGLP CCR
Project #: Annual

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	Preservative:	# of Containers	Grab (G) or Composite (C)	Fluoride	Antimony, Arsenic	Barium, Beryllium	Cadmium, Cobalt	Chromium, Lead	Lithium, Mercury	Molybdenum, Selenium	Thallium	Total Radium 226 & 228
CCR-5	5/21/24 15:24	W		4	G	X	X	X	X	X	X	X	X	X

Field Testing

ID# Field Test	ID# Field Test	ID# Field Test	ID# Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

Received on Ice: Y (0) N Thermometer# 59 Cooler #_____ **Receipt Temp Corrected(°C)**
Date & Time _____ By: 8 Sample____ Blank X Cooler____
All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Caleb James	Caleb James	ECS	5/22/24	09:30
Received by	Fed Ex				
Relinquished by	Fed Ex				
Received by	Sarah Tomek	Sarah Tomek	MM	5/23/24	0838
Relinquished by					
Received by					

Notes:

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

June 24, 2024

Tina Tomek
Micro-Methods Lab
6500 Sunplex Drive
Ocean Springs, MS 39564

RE: Project: 2405473
Pace Project No.: 30688316

Dear Tina Tomek:

Enclosed are the analytical results for sample(s) received by the laboratory on May 31, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Justin P. Horn
justin.horn@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Accounts Payable, Micro-Methods Lab

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 2405473
Pace Project No.: 30688316

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 2405473
Pace Project No.: 30688316

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30688316001	**2405473-01**	Water	05/21/24 12:49	05/31/24 10:00
30688316002	**2405473-02**	Water	05/21/24 15:44	05/31/24 10:00
30688316003	**2405473-03**	Water	05/21/24 12:04	05/31/24 10:00
30688316004	**2405473-04**	Water	05/21/24 16:21	05/31/24 10:00
30688316005	**2405473-05**	Water	05/21/24 11:40	05/31/24 10:00
30688316006	**2405473-06**	Water	05/21/24 11:58	05/31/24 10:00
30688316007	**2405473-07**	Water	05/21/24 00:00	05/31/24 10:00
30688316008	**2405473-08**	Water	05/21/24 14:35	05/31/24 10:00
30688316009	**2405473-09**	Water	05/21/24 09:30	05/31/24 10:00
30688316010	**2405473-10**	Water	05/21/24 10:23	05/31/24 10:00
30688316011	**2405473-11**	Water	05/21/24 17:07	05/31/24 10:00
30688316012	**2405473-12**	Water	05/21/24 15:24	05/31/24 10:00

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 2405473
Pace Project No.: 30688316

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30688316001	**2405473-01**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1
30688316002	**2405473-02**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1
30688316003	**2405473-03**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1
30688316004	**2405473-04**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1
30688316005	**2405473-05**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1
30688316006	**2405473-06**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1
30688316007	**2405473-07**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1
30688316008	**2405473-08**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1
30688316009	**2405473-09**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1
30688316010	**2405473-10**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1
30688316011	**2405473-11**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1
30688316012	**2405473-12**	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
		Total Radium Calculation	JAL	1

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 2405473
Pace Project No.: 30688316

Lab ID	Sample ID	Method	Analysts	Analytes Reported

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2405473
Pace Project No.: 30688316

Sample: 2405473-01 **Lab ID: 30688316001** Collected: 05/21/24 12:49 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.133 ± 0.603 (0.997) C:NA T:96%**	pCi/L	06/22/24 13:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.565 ± 0.364 (0.688) C:85% T:86%**	pCi/L	06/20/24 12:40	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.698 ± 0.967 (1.69)**	pCi/L	06/24/24 11:46	7440-14-4	

Sample: 2405473-02 **Lab ID: 30688316002** Collected: 05/21/24 15:44 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.765 ± 0.781 (1.15) C:NA T:92%**	pCi/L	06/22/24 13:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.966 ± 0.409 (0.663) C:92% T:81%**	pCi/L	06/20/24 12:40	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.73 ± 1.19 (1.81)**	pCi/L	06/24/24 11:46	7440-14-4	

Sample: 2405473-03 **Lab ID: 30688316003** Collected: 05/21/24 12:04 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.0258 ± 0.654 (1.12) C:NA T:87%**	pCi/L	06/22/24 13:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**1.01 ± 0.430 (0.698) C:81% T:85%**	pCi/L	06/20/24 12:40	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.04 ± 1.08 (1.82)**	pCi/L	06/24/24 11:46	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2405473
Pace Project No.: 30688316

Sample: 2405473-04 **Lab ID: 30688316004** Collected: 05/21/24 16:21 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.648 ± 0.699 (1.03) C:NA T:91%**	pCi/L	06/22/24 13:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.586 ± 0.339 (0.622) C:88% T:88%**	pCi/L	06/20/24 12:40	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**1.23 ± 1.04 (1.65)**	pCi/L	06/24/24 11:46	7440-14-4	

Sample: 2405473-05 **Lab ID: 30688316005** Collected: 05/21/24 11:40 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.262 ± 0.669 (1.08) C:NA T:93%**	pCi/L	06/22/24 13:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.396 ± 0.336 (0.677) C:89% T:87%**	pCi/L	06/20/24 12:40	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.658 ± 1.01 (1.76)**	pCi/L	06/24/24 11:46	7440-14-4	

Sample: 2405473-06 **Lab ID: 30688316006** Collected: 05/21/24 11:58 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.0277 ± 0.754 (1.29) C:NA T:90%**	pCi/L	06/22/24 13:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.585 ± 0.529 (1.08) C:80% T:88%**	pCi/L	06/20/24 15:54	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.585 ± 1.28 (2.37)**	pCi/L	06/24/24 11:46	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2405473
Pace Project No.: 30688316

Sample: 2405473-07 **Lab ID: 30688316007** Collected: 05/21/24 00:00 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.0778 ± 0.867 (1.43) C:NA T:88%**	pCi/L	06/22/24 13:39	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.121 ± 0.406 (0.916) C:91% T:87%**	pCi/L	06/20/24 15:55	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.199 ± 1.27 (2.35)**	pCi/L	06/24/24 11:46	7440-14-4	

Sample: 2405473-08 **Lab ID: 30688316008** Collected: 05/21/24 14:35 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.0757 ± 0.492 (0.898) C:NA T:95%**	pCi/L	06/22/24 13:58	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.0900 ± 0.440 (1.00) C:89% T:85%**	pCi/L	06/20/24 15:55	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.0900 ± 0.932 (1.90)**	pCi/L	06/24/24 11:46	7440-14-4	

Sample: 2405473-09 **Lab ID: 30688316009** Collected: 05/21/24 09:30 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-1.09 ± 0.695 (1.34) C:NA T:94%**	pCi/L	06/22/24 13:58	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.600 ± 0.463 (0.913) C:90% T:87%**	pCi/L	06/20/24 15:55	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.600 ± 1.16 (2.25)**	pCi/L	06/24/24 11:46	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2405473
Pace Project No.: 30688316

Sample: 2405473-10 **Lab ID: 30688316010** Collected: 05/21/24 10:23 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**-0.138 ± 0.470 (0.868) C:NA T:91%**	pCi/L	06/22/24 13:58	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.438 ± 0.452 (0.936) C:86% T:88%**	pCi/L	06/20/24 15:55	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.438 ± 0.922 (1.80)**	pCi/L	06/24/24 11:46	7440-14-4	

Sample: 2405473-11 **Lab ID: 30688316011** Collected: 05/21/24 17:07 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.431 ± 0.635 (0.979) C:NA T:92%**	pCi/L	06/22/24 13:58	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.431 ± 0.456 (0.947) C:85% T:86%**	pCi/L	06/20/24 15:55	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.862 ± 1.09 (1.93)**	pCi/L	06/24/24 11:46	7440-14-4	

Sample: 2405473-12 **Lab ID: 30688316012** Collected: 05/21/24 15:24 Received: 05/31/24 10:00 Matrix: Water
PWS: Site ID: Sample Type:
Comments: • Collector name and signature not on COC.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.589 ± 0.679 (1.02) C:NA T:93%**	pCi/L	06/22/24 13:58	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.309 ± 0.433 (0.929) C:84% T:89%**	pCi/L	06/20/24 15:55	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.898 ± 1.11 (1.95)**	pCi/L	06/24/24 11:46	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2405473
Pace Project No.: 30688316

QC Batch: 673167 Analysis Method: EPA 904.0
QC Batch Method: EPA 904.0 Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30688316001, 30688316002, 30688316003, 30688316004, 30688316005, 30688316006, 30688316007, 30688316008, 30688316009, 30688316010, 30688316011, 30688316012

METHOD BLANK: 3276831 Matrix: Water
Associated Lab Samples: 30688316001, 30688316002, 30688316003, 30688316004, 30688316005, 30688316006, 30688316007, 30688316008, 30688316009, 30688316010, 30688316011, 30688316012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.319 ± 0.335 (0.698) C:90% T:84%	pCi/L	06/20/24 12:40	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2405473
Pace Project No.: 30688316

QC Batch: 673166 Analysis Method: EPA 903.1
QC Batch Method: EPA 903.1 Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30688316001, 30688316002, 30688316003, 30688316004, 30688316005, 30688316006, 30688316007, 30688316008, 30688316009, 30688316010, 30688316011, 30688316012

METHOD BLANK: 3276828 Matrix: Water
Associated Lab Samples: 30688316001, 30688316002, 30688316003, 30688316004, 30688316005, 30688316006, 30688316007, 30688316008, 30688316009, 30688316010, 30688316011, 30688316012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0671 ± 0.237 (0.473) C:NA T:96%	pCi/L	06/22/24 13:39	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 2405473
Pace Project No.: 30688316

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.

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

WO# : 30688316

30688316

SUBCONTRACT ORDER

Sending Laboratory:

Micro-Methods Laboratory, Inc.
6500 Sunplex Drive
Ocean Springs, MS 39564
Phone: 228.875.6420
Fax: 228.875.6423

Project Manager: Teresa Meins

Subcontracted Laboratory:

Pace Analytical-7
1638 Roseytown Rd. Suites 2, 3, 4
Greensburg, PA 15601
Phone: (724) 850-5600
Fax: -

Received by Pace Greensburg
Therm ID — Corr Factor +/- —
Receipt Temp —
Corrected Temp —
Correct Preservation (Y) N

Work Order: 2405473

Analysis	Due	Expires	Comments
Sample ID: 2405473-01 ***Water Sampled: 05/21/2024 12:49 Sample Name: MW-7***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 12:49	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			001
Sample ID: 2405473-02 ***Water Sampled: 05/21/2024 15:44 Sample Name: MW-9***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 15:44	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			002
Sample ID: 2405473-03 ***Water Sampled: 05/21/2024 12:04 Sample Name: MW-12***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 12:04	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			003
Sample ID: 2405473-04 ***Water Sampled: 05/21/2024 16:21 Sample Name: MW-13***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 16:21	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			004
Sample ID: 2405473-05 ***Water Sampled: 05/21/2024 11:40 Sample Name: MW-14***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 11:40	
			005

Released By	Date	Received By	Date
Sarah Jomeh 5/28/24	1630	UPS 5/28/24	1630
UPS		[signature]	5/31/24 1000

METHODS
ATORY, INC.

SUBCONTRACT ORDER
(Continued)

Work Order: 2405473 (Continued)

Analysis	Due	Expires	Comments
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2405473-06 ***Water Sampled: 05/21/2024 11:58 Sample Name: Field Blank***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 11:58	006
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2405473-07 ***Water Sampled: 05/21/2024 00:00 Sample Name: Duplicate***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 00:00	007
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2405473-08 ***Water Sampled: 05/21/2024 14:35 Sample Name: OW-2***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 14:35	008
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2405473-09 ***Water Sampled: 05/21/2024 09:30 Sample Name: CCR-2***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 09:30	009
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2405473-10 ***Water Sampled: 05/21/2024 10:23 Sample Name: CCR-3***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 10:23	010
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2405473-11 ***Water Sampled: 05/21/2024 17:07 Sample Name: CCR-4***			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 17:07	011
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2405473-12 ***Water Sampled: 05/21/2024 15:24 Sample Name: CCR-5***			

Released By	Date	Received By	Date
[signature]	5/28/24 1630	UPS	5/28/24 1630
UPS		[signature]	5/24/24 1000

MICRO-METHODS LABORATORY, INC.

SUBCONTRACT ORDER
(Continued)

Work Order: 2405473 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 2405473-12 *Water* *Sampled: 05/21/2024 15:24* *Sample Name: CCR-5*			
Radium,Total 226 & 228 by EPA 903.1 & 9C	05/31/2024	06/18/2024 15:24	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			012

WO#: 30688316

PM: JPH Due Date: 06/21/24

CLIENT: MICROMETHOD

Released By	Date	Received By	Date
Sarah Jomeh	5/28/24 1630	UPS	5/28/24 1630
UPS			5/31/24 0000

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO# : 30688316

PM: JPH Due Date: 06/21/24

CLIENT: MICROMETHOD

Client Name: Micro-Methods Lab

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

Tracking Number: 1Z 353 063 03 6882 0664

Initial / Date

Examined By: EJ 5-31-24

Labeled By: EJ 5-31-24

Temped By: —

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No **Seals Intact:** ☐ Yes ☑ No

Thermometer Used: — **Type of Ice:** Wet Blue (None)

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

pH paper Lot# 10D2931 D.P.D. Residual Chlorine Lot # —

Comments:	Yes	No	NA	
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID Matrix: WT				
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dichlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:	✓			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				pH<2
All containers meet method preservation requirements:	✓			Initial when completed EJ Date/Time of Preservation
				Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed JS Date: 5/31/24 Survey Meter SN: 25C4080

Comments:

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Qualtrax ID: 55680

MICRO-METHODS LABORATORY, INC.

Mailing Address:
PO Box 1410
Ocean Springs, MS
39566-1410

6500 Sunplex Drive
Ocean Springs, MS 39564
228.875.6420 Phone
228.875.6423 Fax

DOCUMENT CHANGE NOTICE

Revised Report

January 16, 2025

Jim Ward

Work Order # : 2409382

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman, MS 39735

Purchase Order # RDH19587 - Yr 2024

RE: CGLP CCR Semi Annual

Enclosed is the revised report for samples received by the laboratory on 09/20/2024 09:20. This report supercedes any previous version of the above noted work order. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director

NELAP ACCREDITED TNI LABORATORY

DISCLAIMER

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MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
MW-9	2409382-01	Water	09/18/2024 14:27	*Tyler Lopez*	09/20/2024 09:20
OW-2	2409382-02	Water	09/18/2024 19:03	*Tyler Lopez*	09/20/2024 09:20
MW-7	2409382-03	Water	09/18/2024 14:40	*Tyler Lopez*	09/20/2024 09:20
MW-14	2409382-04	Water	09/18/2024 11:45	*Tyler Lopez*	09/20/2024 09:20
Field Blank	2409382-05	Water	09/18/2024 12:22	*Tyler Lopez*	09/20/2024 09:20
Duplicate	2409382-06	Water	09/18/2024 00:00	*Tyler Lopez*	09/20/2024 09:20
MW-12	2409382-07	Water	09/18/2024 17:30	*Tyler Lopez*	09/20/2024 09:20
CCR-2	2409382-08	Water	09/18/2024 15:46	*Tyler Lopez*	09/20/2024 09:20
CCR-3	2409382-09	Water	09/18/2024 13:29	*Tyler Lopez*	09/20/2024 09:20
CCR-4	2409382-10	Water	09/18/2024 17:45	*Tyler Lopez*	09/20/2024 09:20
CCR-5	2409382-11	Water	09/18/2024 16:45	*Tyler Lopez*	09/20/2024 09:20

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

Sample Receipt Conditions

Date/Time Received: 9/20/2024 9:20:00AM
Received by: Sarah E. Tomek
Date/Time Logged: 9/20/2024 10:16:00AM
Cooler ID: client cooler #1

Shipped by: Client Delivery
Submitted by: Tyler Lopez
Logged by: Sarah E. Tomek
Receipt Temperature: 0.9 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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Project: CGLP CCR Semi Annual
Project Number: [none]
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Reported:
01/16/2025 09:00

Cooler ID: client cooler #2

Receipt Temperature: 0.7 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

Cooler ID: client cooler #3

Receipt Temperature: 0.6 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

Cooler ID: client cooler #4

Receipt Temperature: 0.4 °C

Cooler Custody Seals Present	Yes	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 09:00

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

See attached results from Sub-Contract Laboratory

Resubmit corrected report due to Fluoride not reported to correct MRL. TKM 1/16/25

Total Metals-EPA 200.8 Rev 5.4

Qualification:

IS-10 Internal standard is below the acceptable criteria range. Internal standards below the acceptable criteria range elevate reported values.

Lead [He]
4I23035-MS2, 4I23035-MSD2

M1 MS/MSD Recovery limit exceeded.

Beryllium [He], Cadmium [He], Lead [He]
4I23035-MS2, 4I23035-MSD2

Fluoride-SM 4500-F C-2021

Qualification:

M2 MS/MSD Recovery below acceptable limit.

Fluoride
4I23039-MS1, 4I23039-MSD1

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

MW-9

2409382-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	**404**	10.0	mg/L	20.0	4I24055	CRG	09/24/2024 10:00	09/24/2024 14:57	SM 4110 B-2020	
Sulfate as SO4	**95.1**	25.0	"	5.0	"	CRG	"	09/24/2024 14:27	"	
Fluoride	**0.49**	0.22	"	1.0	4I23039	CDV	09/23/2024 12:03	09/23/2024 12:07	SM 4500-F C-2021	
Total Dissolved Solids	**958**	1	"	"	4I23037	DLW	09/23/2024 11:25	09/24/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.165**	0.010	mg/L	1.0	4I27015	CLV	09/23/2024 09:30	10/07/2024 11:17	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**57.8**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	**0.053**	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4I23035	SCH	09/23/2024 10:00	09/25/2024 13:26	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	**0.00145**	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	**0.00108**	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.0241**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	**0.00105**	0.00100	"	"	"	SCH	"	"	"	

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Reported:
01/16/2025 09:00

OW-2

2409382-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	**82.8**	4.00	mg/L	8.0	4I24055	CRG	09/24/2024 10:00	09/24/2024 15:28	SM 4110 B-2020	
Sulfate as SO4	**103**	40.0	"	"	"	CRG	"	"	"	
Fluoride	**0.25**	0.22	"	1.0	4I23039	CDV	09/23/2024 12:03	09/23/2024 12:07	SM 4500-F C-2021	
Total Dissolved Solids	**376**	1	"	"	4I23037	DLW	09/23/2024 11:25	09/24/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.014**	0.010	mg/L	1.0	4I27015	CLV	09/23/2024 09:30	10/07/2024 11:28	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**40.3**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4I23035	SCH	09/23/2024 10:00	09/25/2024 13:39	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

MW-7

2409382-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	**3.25**	0.500	mg/L	1.0	4I24055	CRG	09/24/2024 10:00	09/24/2024 15:59	SM 4110 B-2020	
Sulfate as SO4	**40.2**	10.0	"	2.0	"	CRG	"	09/24/2024 16:30	"	
Fluoride	**0.33**	0.22	"	1.0	4I23039	CDV	09/23/2024 12:03	09/23/2024 12:07	SM 4500-F C-2021	
Total Dissolved Solids	**161**	1	"	"	4I23037	DLW	09/23/2024 11:25	09/24/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.075**	0.010	mg/L	1.0	4I27015	CLV	09/23/2024 09:30	10/07/2024 11:32	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**19.5**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4I23035	SCH	09/23/2024 10:00	09/25/2024 13:43	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00616**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

MW-14

2409382-04 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	**17.1**	0.500	mg/L	1.0	4I24055	CRG	09/24/2024 10:00	09/24/2024 17:01	SM 4110 B-2020	
Sulfate as SO4	**7.24**	5.00	"	"	"	CRG	"	"	"	
Fluoride	ND	0.22	"	"	4I23039	CDV	09/23/2024 12:03	09/23/2024 12:07	SM 4500-F C-2021	
Total Dissolved Solids	**93**	1	"	"	4I23037	DLW	09/23/2024 11:25	09/24/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.013**	0.010	mg/L	1.0	4I27015	CLV	09/23/2024 09:30	10/07/2024 11:35	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**0.716**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4I23035	SCH	09/23/2024 10:00	09/25/2024 13:47	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Choctaw Generation LP
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Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

Field Blank

2409382-05 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	ND	0.500	mg/L	1.0	4I24055	CRG	09/24/2024 10:00	09/24/2024 19:35	SM 4110 B-2020	
Sulfate as SO4	ND	5.00	"	"	"	CRG	"	"	"	
Fluoride	ND	0.22	"	"	4I23039	CDV	09/23/2024 12:03	09/23/2024 12:07	SM 4500-F C-2021	
Total Dissolved Solids	**3**	1	"	"	4I23037	DLW	09/23/2024 11:25	09/24/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	ND	0.010	mg/L	1.0	4I27015	CLV	09/23/2024 09:30	10/07/2024 11:39	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4I23035	SCH	09/23/2024 10:00	09/25/2024 13:52	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

Duplicate

2409382-06 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	**17.1**	0.500	mg/L	1.0	4I24055	CRG	09/24/2024 10:00	09/24/2024 20:06	SM 4110 B-2020	
Sulfate as SO4	**7.29**	5.00	"	"	"	CRG	"	"	"	
Fluoride	ND	0.22	"	"	4I23039	CDV	09/23/2024 12:03	09/23/2024 12:07	SM 4500-F C-2021	
Total Dissolved Solids	**89**	1	"	"	4I23037	DLW	09/23/2024 11:25	09/24/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.012**	0.010	mg/L	1.0	4I27015	CLV	09/23/2024 09:30	10/07/2024 11:43	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**0.705**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4I23035	SCH	09/23/2024 10:00	09/25/2024 13:56	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

MW-12

2409382-07 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	**31.2**	1.00	mg/L	2.0	4I24055	CRG	09/25/2024 09:00	09/26/2024 12:42	SM 4110 B-2020	
Sulfate as SO4	**26.9**	10.0	"	"	"	CRG	"	"	"	
Fluoride	ND	0.22	"	1.0	4I23039	CDV	09/23/2024 12:03	09/23/2024 12:07	SM 4500-F C-2021	
Total Dissolved Solids	**209**	1	"	"	4I23037	DLW	09/23/2024 11:25	09/24/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.165**	0.010	mg/L	1.0	4I27015	CLV	09/23/2024 09:30	10/07/2024 11:46	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**24.6**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4I23035	SCH	09/23/2024 10:00	09/25/2024 14:01	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00418**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

CCR-2

2409382-08 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	**2.29**	0.500	mg/L	1.0	4I24055	CRG	09/24/2024 10:00	09/24/2024 22:09	SM 4110 B-2020	
Sulfate as SO4	**11.1**	5.00	"	"	"	CRG	"	"	"	
Fluoride	ND	0.22	"	"	4I23039	CDV	09/23/2024 12:03	09/23/2024 12:07	SM 4500-F C-2021	
Total Dissolved Solids	**118**	1	"	"	4I23037	DLW	09/23/2024 11:25	09/24/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.127**	0.010	mg/L	1.0	4I27015	CLV	09/23/2024 09:30	10/07/2024 11:50	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**14.7**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4I23035	SCH	09/23/2024 10:00	09/25/2024 14:05	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00240**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

CCR-3

2409382-09 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	**4.54**	0.500	mg/L	1.0	4I24055	CRG	09/24/2024 10:00	09/24/2024 23:42	SM 4110 B-2020	
Sulfate as SO4	**65.0**	50.0	"	10.0	"	CRG	"	09/25/2024 00:13	"	
Fluoride	ND	0.22	"	1.0	4I23039	CDV	09/23/2024 12:03	09/23/2024 12:07	SM 4500-F C-2021	
Total Dissolved Solids	**215**	1	"	"	4I23037	DLW	09/23/2024 11:25	09/24/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.063**	0.010	mg/L	1.0	4I27015	CLV	09/23/2024 09:30	10/07/2024 11:54	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**20.4**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	**0.052**	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4I23035	SCH	09/23/2024 10:00	09/25/2024 14:09	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00817**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

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CCR-4

2409382-10 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	**6.85**	0.500	mg/L	1.0	4I24055	CRG	09/24/2024 10:00	09/25/2024 02:16	SM 4110 B-2020	
Sulfate as SO4	**16.5**	5.00	"	"	"	CRG	"	"	"	
Fluoride	ND	0.22	"	"	4I23039	CDV	09/23/2024 12:03	09/23/2024 12:07	SM 4500-F C-2021	
Total Dissolved Solids	**187**	1	"	"	4I23037	DLW	09/23/2024 11:25	09/24/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.160**	0.010	mg/L	1.0	4I27015	CLV	09/23/2024 09:30	10/07/2024 12:15	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**23.9**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4I23035	SCH	09/23/2024 10:00	09/25/2024 14:14	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00276**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

CCR-5

2409382-11 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	**4.82**	0.500	mg/L	1.0	4I24055	CRG	09/24/2024 10:00	09/25/2024 03:18	SM 4110 B-2020	
Sulfate as SO4	**102**	50.0	"	10.0	"	CRG	"	09/25/2024 03:48	"	
Fluoride	ND	0.22	"	1.0	4I23039	CDV	09/23/2024 12:03	09/23/2024 12:07	SM 4500-F C-2021	
Total Dissolved Solids	**338**	1	"	"	4I23037	DLW	09/23/2024 11:25	09/24/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.127**	0.010	mg/L	1.0	4I27015	CLV	09/23/2024 09:30	10/07/2024 12:26	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	**0.080**	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**43.4**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4I23035	SCH	09/23/2024 10:00	09/25/2024 14:27	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	**0.00170**	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 09:00

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4I23037 - Default Prep GenChem											
Blank (4I23037-BLK1)											
Total Dissolved Solids	9/24/24 0:00	ND	1	mg/L							
LCS (4I23037-BS1)											
Total Dissolved Solids	9/24/24 0:00	89	1	mg/L	99.2		89.7	69.8-100			
LCS Dup (4I23037-BSD1)											
Total Dissolved Solids	9/24/24 0:00	87	1	mg/L	99.2		87.7	69.8-100	2.27	10	
Duplicate (4I23037-DUP1)			**Source: 2409382-05**								
Total Dissolved Solids	9/24/24 0:00	3	1	mg/L		3			0.00	10	
Duplicate (4I23037-DUP2)			**Source: 2409382-06**								
Total Dissolved Solids	9/24/24 0:00	92	1	mg/L		89			3.31	10	
Batch 4I23039 - Default Prep GenChem											
Blank (4I23039-BLK1)											
Fluoride	9/23/24 12:07	ND	0.22	mg/L							
LCS (4I23039-BS1)											
Fluoride	9/23/24 12:07	2.03	0.22	mg/L	2.00		102	88.5-110			
LCS Dup (4I23039-BSD1)											
Fluoride	9/23/24 12:07	2.00	0.22	mg/L	2.00		100	88.5-110	1.49	30	
Duplicate (4I23039-DUP1)			**Source: 2409298-04**								
Fluoride	9/23/24 12:07	0.07	0.22	mg/L		0.08			6.09	20	

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4I23039 - Default Prep GenChem											
Matrix Spike (4I23039-MS1)			**Source: 2409298-01**								
Fluoride	9/23/24 12:07	1.03	0.22	mg/L	1.00	0.27	75.9	81.9-110			M2
Matrix Spike Dup (4I23039-MSD1)			**Source: 2409298-01**								
Fluoride	9/23/24 12:07	1.03	0.22	mg/L	1.00	0.27	75.9	81.9-110	0.00	30	M2
Batch 4I24055 - Default Prep GenChem											
Blank (4I24055-BLK1)											
Chloride	9/24/24 11:19	ND	0.500	mg/L							
Sulfate as SO4	9/24/24 11:19	ND	5.00	"							
Blank (4I24055-BLK2)											
Chloride	9/25/24 15:28	ND	0.500	mg/L							
Sulfate as SO4	9/25/24 15:28	ND	5.00	"							
LCS (4I24055-BS1)											
Chloride	9/24/24 11:50	9.70	0.500	mg/L	10.0		97.0	87.4-108			
Sulfate as SO4	9/24/24 11:50	9.55	5.00	"	10.0		95.5	83.3-109			
LCS (4I24055-BS2)											
Chloride	9/25/24 15:59	9.67	0.500	mg/L	10.0		96.7	87.4-108			
Sulfate as SO4	9/25/24 15:59	9.75	5.00	"	10.0		97.5	83.3-109			
LCS Dup (4I24055-BSD1)											
Chloride	9/24/24 12:21	9.67	0.500	mg/L	10.0		96.7	87.4-108	0.348	20	
Sulfate as SO4	9/24/24 12:21	9.53	5.00	"	10.0		95.3	83.3-109	0.218	20	

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Project: CGLP CCR Semi Annual
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Project Manager: Jim Ward

Reported:
01/16/2025 09:00

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4I24055 - Default Prep GenChem											
LCS Dup (4I24055-BSD2)											
Chloride	9/25/24 16:30	9.66	0.500	mg/L	10.0		96.6	87.4-108	0.168	20	
Sulfate as SO4	9/25/24 16:30	9.74	5.00	"	10.0		97.4	83.3-109	0.0985	20	
Matrix Spike (4I24055-MS1)			**Source: 2409382-08**								
Chloride	9/24/24 22:40	12.3	0.500	mg/L	10.0	2.29	100	64.8-131			
Sulfate as SO4	9/24/24 22:40	19.7	5.00	"	10.0	11.1	86.2	53.2-148			
Matrix Spike Dup (4I24055-MSD1)			**Source: 2409382-08**								
Chloride	9/24/24 23:11	11.9	0.500	mg/L	10.0	2.29	95.6	64.8-131	3.90	20	
Sulfate as SO4	9/24/24 23:11	19.6	5.00	"	10.0	11.1	84.3	53.2-148	0.929	20	

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Reported:
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Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4I27015 - EPA 200.2 DCN 1017 Rev 10											
Blank (4I27015-BLK1)											
Barium 455.403 [Radial]	10/7/24 11:04	ND	0.010	mg/L							
Boron 249.773 [Radial]	10/7/24 11:04	ND	0.050	"							
Calcium 315.887 [Radial]	10/7/24 11:04	ND	0.050	"							
Lithium 610.362 [Axial]	10/7/24 11:04	ND	0.040	"							
LCS (4I27015-BS1)											
Barium 455.403 [Radial]	10/7/24 11:08	0.203	0.010	mg/L	0.200		101	85-115			
Boron 249.773 [Radial]	10/7/24 11:08	0.208	0.050	"	0.200		104	85-115			
Calcium 315.887 [Radial]	10/7/24 11:08	0.202	0.050	"	0.200		101	85-115			
Lithium 610.362 [Axial]	10/7/24 11:08	0.203	0.040	"	0.200		101	85-115			
LCS Dup (4I27015-BSD1)											
Barium 455.403 [Radial]	10/7/24 11:11	0.206	0.010	mg/L	0.200		103	85-115	1.34	20	
Boron 249.773 [Radial]	10/7/24 11:11	0.210	0.050	"	0.200		105	85-115	1.16	20	
Calcium 315.887 [Radial]	10/7/24 11:11	0.204	0.050	"	0.200		102	85-115	1.18	20	
Lithium 610.362 [Axial]	10/7/24 11:11	0.206	0.040	"	0.200		103	85-115	1.71	20	
Duplicate (4I27015-DUP1)			**Source: 2409382-10**								
Calcium 315.887 [Radial]	10/7/24 12:19	23.5	0.050	mg/L		23.9			1.89	20	
Duplicate (4I27015-DUP2)			**Source: 2409382-01**								
Calcium 315.887 [Radial]	10/7/24 11:21	56.1	0.050	mg/L		57.8			3.02	20	
Matrix Spike (4I27015-MS1)			**Source: 2409382-10**								
Barium 455.403 [Radial]	10/7/24 11:21	0.359	0.010	mg/L	0.200	0.160	99.7	70-130			
Boron 249.773 [Radial]	10/7/24 11:21	0.191	0.050	"	0.200	0.025	83.1	70-130			
Lithium 610.362 [Axial]	10/7/24 11:21	0.222	0.040	"	0.200	0.017	103	70-130			

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Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4I27015 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (4I27015-MS2)			**Source: 2409382-01**								
Barium 455.403 [Radial]	10/7/24 12:19	0.353	0.010	mg/L	0.200	0.165	94.1	70-130			
Boron 249.773 [Radial]	10/7/24 12:19	0.227	0.050	"	0.200	ND	114	70-130			
Lithium 610.362 [Axial]	10/7/24 12:19	0.217	0.040	"	0.200	0.053	82.1	70-130			
Matrix Spike Dup (4I27015-MSD1)			**Source: 2409382-10**								
Barium 455.403 [Radial]	10/7/24 11:25	0.360	0.010	mg/L	0.200	0.160	100	70-130	0.241	20	
Boron 249.773 [Radial]	10/7/24 11:25	0.193	0.050	"	0.200	0.025	83.9	70-130	0.758	20	
Lithium 610.362 [Axial]	10/7/24 11:25	0.223	0.040	"	0.200	0.017	103	70-130	0.261	20	
Matrix Spike Dup (4I27015-MSD2)			**Source: 2409382-01**								
Barium 455.403 [Radial]	10/7/24 12:23	0.342	0.010	mg/L	0.200	0.165	88.6	70-130	3.18	20	
Boron 249.773 [Radial]	10/7/24 12:23	0.221	0.050	"	0.200	ND	111	70-130	2.68	20	
Lithium 610.362 [Axial]	10/7/24 12:23	0.213	0.040	"	0.200	0.053	79.7	70-130	2.18	20	

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Project Manager: Jim Ward

Reported:
01/16/2025 09:00

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4I23035 - EPA 200.2 DCN 1017 Rev 10											
Blank (4I23035-BLK1)											
Antimony [He]	9/25/24 12:33	ND	0.00200	mg/L							
Arsenic [He]	9/25/24 12:33	ND	0.00200	"							
Beryllium [He]	9/25/24 12:33	ND	0.00100	"							
Cadmium [He]	9/25/24 12:33	ND	0.00100	"							
Chromium [He]	9/25/24 12:33	ND	0.00100	"							
Cobalt [He]	9/25/24 12:33	ND	0.00100	"							
Lead [He]	9/25/24 12:33	ND	0.00100	"							
Molybdenum [He]	9/25/24 12:33	ND	0.00100	"							
Selenium [He]	9/25/24 12:33	ND	0.00100	"							
LCS (4I23035-BS1)											
Antimony [He]	9/25/24 12:37	0.105	0.00200	mg/L	0.100		105	85-115			
Arsenic [He]	9/25/24 12:37	0.102	0.00200	"	0.100		102	85-115			
Beryllium [He]	9/25/24 12:37	0.097	0.00100	"	0.100		97.4	85-115			
Cadmium [He]	9/25/24 12:37	0.101	0.00100	"	0.100		101	85-115			
Chromium [He]	9/25/24 12:37	0.096	0.00100	"	0.100		96.1	85-115			
Cobalt [He]	9/25/24 12:37	0.095	0.00100	"	0.100		94.6	85-115			
Lead [He]	9/25/24 12:37	0.100	0.00100	"	0.100		100	85-115			
Molybdenum [He]	9/25/24 12:37	0.096	0.00100	"	0.100		95.9	85-115			
Selenium [He]	9/25/24 12:37	0.102	0.00100	"	0.100		102	85-115			
LCS Dup (4I23035-BSD1)											
Antimony [He]	9/25/24 12:42	0.105	0.00200	mg/L	0.100		105	85-115	0.138	20	
Arsenic [He]	9/25/24 12:42	0.103	0.00200	"	0.100		103	85-115	0.539	20	
Beryllium [He]	9/25/24 12:42	0.100	0.00100	"	0.100		100	85-115	3.02	20	
Cadmium [He]	9/25/24 12:42	0.102	0.00100	"	0.100		102	85-115	0.664	20	
Chromium [He]	9/25/24 12:42	0.096	0.00100	"	0.100		96.1	85-115	0.0276	20	
Cobalt [He]	9/25/24 12:42	0.095	0.00100	"	0.100		94.7	85-115	0.0877	20	
Lead [He]	9/25/24 12:42	0.099	0.00100	"	0.100		99.0	85-115	0.970	20	
Molybdenum [He]	9/25/24 12:42	0.095	0.00100	"	0.100		95.1	85-115	0.753	20	
Selenium [He]	9/25/24 12:42	0.101	0.00100	"	0.100		101	85-115	0.554	20	

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4I23035 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (4I23035-MS1)			**Source: 2409382-01**								
Antimony [He]	9/25/24 13:30	0.111	0.00200	mg/L	0.100	ND	111	70-130			
Arsenic [He]	9/25/24 13:30	0.106	0.00200	"	0.100	0.0003	105	70-130			
Beryllium [He]	9/25/24 13:30	0.102	0.00100	"	0.100	0.001	101	70-130			
Cadmium [He]	9/25/24 13:30	0.105	0.00100	"	0.100	0.001	104	70-130			
Chromium [He]	9/25/24 13:30	0.097	0.00100	"	0.100	ND	96.9	70-130			
Cobalt [He]	9/25/24 13:30	0.124	0.00100	"	0.100	0.024	99.8	70-130			
Lead [He]	9/25/24 13:30	0.105	0.00100	"	0.100	ND	105	70-130			
Molybdenum [He]	9/25/24 13:30	0.110	0.00100	"	0.100	ND	110	70-130			
Selenium [He]	9/25/24 13:30	0.102	0.00100	"	0.100	0.001	101	70-130			
Matrix Spike (4I23035-MS2)			**Source: 2409387-10**								
Antimony [He]	9/25/24 15:45	0.125	0.00200	mg/L	0.100	0.0009	124	70-130			
Arsenic [He]	9/25/24 15:45	0.152	0.00200	"	0.100	0.025	127	70-130			
Beryllium [He]	9/25/24 15:45	0.133	0.00100	"	0.100	0.0006	132	70-130			M1
Cadmium [He]	9/25/24 15:45	0.144	0.00100	"	0.100	0.0008	143	70-130			M1
Chromium [He]	9/25/24 15:45	0.148	0.00100	"	0.100	0.043	105	70-130			
Cobalt [He]	9/25/24 15:45	0.151	0.00100	"	0.100	0.021	130	70-130			
Lead [He]	9/25/24 15:45	0.421	0.00100	"	0.100	0.177	244	70-130			IS-10, M1
Molybdenum [He]	9/25/24 15:45	0.127	0.00100	"	0.100	0.001	126	70-130			
Selenium [He]	9/25/24 15:45	0.145	0.00100	"	0.100	0.046	98.9	70-130			
Matrix Spike Dup (4I23035-MSD1)			**Source: 2409382-01**								
Antimony [He]	9/25/24 13:34	0.114	0.00200	mg/L	0.100	ND	114	70-130	2.38	20	
Arsenic [He]	9/25/24 13:34	0.108	0.00200	"	0.100	0.0003	108	70-130	2.16	20	
Beryllium [He]	9/25/24 13:34	0.103	0.00100	"	0.100	0.001	101	70-130	0.385	20	
Cadmium [He]	9/25/24 13:34	0.108	0.00100	"	0.100	0.001	106	70-130	2.33	20	
Chromium [He]	9/25/24 13:34	0.099	0.00100	"	0.100	ND	98.9	70-130	2.12	20	
Cobalt [He]	9/25/24 13:34	0.127	0.00100	"	0.100	0.024	103	70-130	2.60	20	
Lead [He]	9/25/24 13:34	0.108	0.00100	"	0.100	ND	108	70-130	2.57	20	
Molybdenum [He]	9/25/24 13:34	0.112	0.00100	"	0.100	ND	112	70-130	2.00	20	
Selenium [He]	9/25/24 13:34	0.108	0.00100	"	0.100	0.001	107	70-130	6.14	20	

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 09:00

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4I23035 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike Dup (4I23035-MSD2)			**Source: 2409387-10**								
Antimony [He]	9/25/24 15:49	0.130	0.00200	mg/L	0.100	0.0009	129	70-130	3.73	20	
Arsenic [He]	9/25/24 15:49	0.153	0.00200	"	0.100	0.025	128	70-130	0.511	20	
Beryllium [He]	9/25/24 15:49	0.130	0.00100	"	0.100	0.0006	129	70-130	2.32	20	
Cadmium [He]	9/25/24 15:49	0.145	0.00100	"	0.100	0.0008	144	70-130	0.763	20	M1
Chromium [He]	9/25/24 15:49	0.148	0.00100	"	0.100	0.043	105	70-130	0.212	20	
Cobalt [He]	9/25/24 15:49	0.150	0.00100	"	0.100	0.021	129	70-130	0.754	20	
Lead [He]	9/25/24 15:49	0.430	0.00100	"	0.100	0.177	253	70-130	2.14	20	IS-10, M1
Molybdenum [He]	9/25/24 15:49	0.129	0.00100	"	0.100	0.001	128	70-130	1.62	20	
Selenium [He]	9/25/24 15:49	0.142	0.00100	"	0.100	0.046	95.6	70-130	2.31	20	

MICRO-METHODS LABORATORY, INC.

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Ocean Springs, MS 39564
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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 09:00

Certified Analyses Included in this Report

Analyte	Certification Code
EPA 200.7 Rev 4.4 in Water	
Aluminum 394.401 [Radial]	C01,C02
Aluminum 396.152 [Radial]	C01,C02
Antimony 206.833 [Axial]	C01,C02
Arsenic 193.759 [Axial]	C01,C02
Barium 455.403 [Radial]	C01,C02
Barium 493.409 [Radial]	C01,C02
Beryllium 313.042 [Axial]	C01,C02
Boron 249.773 [Radial]	C01,C02
Cadmium 228.802 [Axial]	C01,C02
Calcium 315.887 [Radial]	C01,C02
Chromium 283.563 [Axial]	C01,C02
Cobalt 228.616 [Axial]	C01,C02
Copper 324.754 [Axial]	C01,C02
Iron 259.940 [Axial]	C01,C02
Iron 259.940 [Radial]	C01,C02
Lead 220.353 [Axial]	C01,C02
Magnesium 285.213 [Radial]	C01,C02
Manganese 257.610 [Axial]	C01,C02
Molybdenum 202.030 [Axial]	C01,C02
Nickel 231.604 [Axial]	C01,C02
Potassium 766.490 [Radial]	C01,C02
Phosphorus 178.284 [Axial]	C01,C02
Phosphorus 178.284 [Radial]	C01,C02
Selenium 196.090 [Axial]	C01,C02
Silver 328.068 [Axial]	C01,C02
Sodium 589.592 [Axial]	C01,C02
Sodium 589.592 [Radial]	C01,C02
Strontium 346.446 [Radial]	C01,C02
Strontium 421.552 [Radial]	C01,C02
Thallium 190.856 [Axial]	C01,C02
Vanadium 309.311 [Axial]	C01,C02
Zinc 213.856 [Axial]	C01,C02
EPA 200.8 Rev 5.4 in Water	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [NG]	C01,C02
Arsenic [He]	C01,C02
Arsenic [NG]	C01,C02
Barium [He]	C01,C02

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 09:00

Beryllium [He]	C01,C02
Cadmium [He]	C01,C02
Cadmium [NG]	C01,C02
Chromium [He]	C01,C02
Cobalt [He]	C01,C02
Copper [He]	C01,C02
Copper [NG]	C01,C02
Iron [He]	C01,C02
Lead [He]	C01,C02
Lead [NG]	C01,C02
Manganese [He]	C01,C02
Molybdenum [He]	C01,C02
Nickel [He]	C01,C02
Selenium [He]	C01,C02
Selenium [NG]	C01,C02
Silver [He]	C01,C02
Silver [NG]	C01,C02
Strontium [He]	C01,C02
Thallium [He]	C01,C02
Vanadium [He]	C01,C02
Zinc [He]	C01,C02

SM 2540 C-2020 in Water

Total Dissolved Solids	C01,C02

SM 4110 B-2020 in Water

Chloride	C01,C02
Nitrite as N	C01,C02
Nitrate as N	C01,C02
Sulfate as SO4	C01,C02

****Only compounds included in this list are associated with accredited analyses****

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 09:00

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	LA Environmental Lab Accreditation Program	01960	06/30/2025
C02	The NELAC Institute (NELAP)	TNI01397	06/30/2025
C03	MS Dept of Health (Drinking Water Microbiology)	MS00021	12/31/2024
C04	MS Dept of Health (Drinking Water Chemistry)	MS00021	12/31/2024
C05	MS DEQ Lead Firm Certification	PBF-00000028	03/31/2024
C06	MSDEQ Asbestos Inspector : C.D. Bingham	ABI-00001348	02/09/2024
C07	MSDEQ Air Monitor : C.D. Bingham	AM-011572	02/10/2024
C08	MSDEQ Asbestos Inspector: C. W. Meins	ABI-00001821	09/09/2022
C09	MSDEQ Air Monitor : C.W. Meins	AM-011189	02/10/2024
C10	ADEM (Drinking Water Microbiology)	43500	12/31/2024
C11	ADEM (Drinking Water Chemistry)	43500	12/31/2024
C14	MSDEQ Lead Paint Inspector : C.D. Bingham	PBI-00003690	02/07/2024
C15	MSDEQ Lead Paint Inspector : C.W. Meins	PBI-00001740	02/07/2024

Report Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the minimum reporting limit
NR	Not Reported
RPD	Relative Percent Difference
ICV	Initial Calibration Verfiication
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verfication Standard
LCS	Lab Control Spike - Lab matrix prepared with known concentration of analyte/s of interest analyzed by method.
MS	Matrix Spike - Sample prepared with known concentration of analyte/s of interest analyzed by method.
MSD	Matrix Spike Duplicate - Duplicate sample prepared with known concentration of anlayte/s of interest analyzed by method.
MRL	Minimum Reporting Limit
%REC	Percentage Recovery of known concentration added to matrix
Batch	Group of samples prepared for analysis not to exceed 20 samples.
Matrix	Material containing analyte/s of interest
Surrogate	Analyte added to sample to determine extraction efficiency of method.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 09:00

Analyst Initials Key

FullName	Initials
Cristina D Vargas	CDV
Cameron J Smith	CJS
Charles L Vorhoff	CLV
Christa R Gray	CRG
Dortha L. Wells	DLW
Sarah E. Tomek	SET
Samantha C. Hall	SCH
Teresa Meins	TKM
Tina Tomek	TPT

Print Form

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

M-M Lab WO # 2409382

Company Name: Choctaw Generation Limited Partnership LLLP	Project Manager: Jim Ward
Address: 2391 Pensacola Rd.	Purchase Order #:
City: Ackerman State: MS Zip: 39735	Email Address: jmward@southernco.com
Phone: 662-387-5758	Sampler Name Printed: Tyler Lopez / Kirk Shelton
Fax:	Sampler Name Signed:

Turn Around Time & Reporting
Our normal turn around time is 10 working days
X Normal __Next Day* __2nd Day* __Other*_____
*All rush order requests must be prior approved.
__Phone __Mail __Fax __Email
QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: CGLP CCR
Project #: Semi-Annual

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Preservative: Grab (G) or Composite (C)	TDS	Chloride, Fluoride, Sulfate	Antimony, Arsenic	Barium, Boron	Beryllium, Cadmium	Chromium, Lead	Calcium, Cobalt	Lithium	Molybdenum, Selenium	Total Radium 226 & 228
MW-9	9/18/24-1427	W	4	G	X	X	X	X	X	X	X	X	X	X
OW-2	9/18/24-1903	W	4	G	X	X	X	X	X	X	X	X	X	X
MW-13	*	W	4	G	X	X	X	X	X	X	X	X	X	X
MW-7	9/18/24-1440	W	4	G	X	X	X	X	X	X	X	X	X	X
MW-14	9/18/24-1145	W	4	G	X	X	X	X	X	X	X	X	X	X
Field Blank	9/18/24-1222	W	4	G	X	X	X	X	X	X	X	X	X	X
Duplicate	9/18/24 ——	W	4	G	X	X	X	X	X	X	X	X	X	X
MW-12	9/18/24-1730	W	4	G	X	X	X	X	X	X	X	X	X	X
CCR-2	9/18/24-1546	W	4	G	X	X	X	X	X	X	X	X	X	X
CCR-3	9/18/24-1329	W	4	G	X	X	X	X	X	X	X	X	X	X
CCR-4	9/18/24-1745	W	4	G	X	X	X	X	X	X	X	X	X	X

Received on Ice? (Y) N Thermometer# 3T Cooler #_____ **Receipt Temp Corrected(°C)**
Date & Time _____ By: _____ Sample____ Blank X Cooler____

Field Testing

ID# Field Test	ID# Field Test	ID# Field Test	ID# Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Tyler Lopez	Tyler Lopez	ECS	9/19/24	11:00
Received by	FedEx				
Relinquished by	FedEx				
Received by	Subcontracted Smalltomer	Smalltomer	MM	9/20/24	0920
Relinquished by					
Received by					

Notes: * No sample taken at MW-13 due to well bladder pump being damaged at time of sampling
** Please send 4-day coolers back to ECS.
Cooler #1 0.9°C
Cooler #2 0.7°C
Cooler #3 0.6°C
Cooler #4 0.4°C

DCN F316 Rev.6
MicroMethods Laboratory
Issued/Revised 6/15/22

Print Form

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
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www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

M-M Lab WO # 2409382

Company Name: Choctaw Generation Limited Partnership LLLP
Address: 2391 Pensacola Rd.
City: Ackerman State: MS Zip: 39735
Phone: 662-387-5758
Fax:

Project Manager: Jim Ward
Purchase Order #:
Email Address: jmward@southernco.com
Sampler Name Printed: Tyler Lopez / Kirk Shelton
Sampler Name Signed: Tyler Lopez / Kirk Shelton

Project Name: CGLP CCR
Project #: Semi-Annual

Turn Around Time & Reporting
Our normal turn around time is 10 working days
X Normal
__Next Day*
__2nd Day*
__Other*_____
*All rush order requests must be prior approved.
__Phone
__Mail
__Fax
__Email
QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	Preservative: # of Containers	Preservative: Grab (G) or Composite (C)	TDS	Chloride, Fluoride, Sulfate	Antimony, Arsenic	Barium, Boron	Beryllium, Cadmium	Chromium, Lead	Calcium, Cobalt	Lithium	Molybdenum, Selenium	Total Radium 226 & 228
CCR-5	9/18/24-1645	W	4	G	X	X	X	X	X	X	X	X	X	X

Field Testing

ID# Field Test	ID# Field Test	ID# Field Test	ID# Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

Received on Ice? Y / N Thermometer# 5T Cooler #_____ Receipt Temp Corrected(°C)
Date & Time _____ By: 8T Sample_____ Blank X Cooler_____
All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Tyler Lopez	Tyler Lopez	ECS	9/19/24	11:00
Received by	Fed Ex				
Relinquished by	Fed Ex				
Received by	Sarah Tomek	Sarah Tomek	MM	9/20/24	0920
Relinquished by					
Received by					

Notes: ** Please send coolers back to ECS.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

October 18, 2024

Tina Tomek
Micro-Methods Lab
6500 Sunplex Drive
Ocean Springs, MS 39564

RE: Project: 2409382
Pace Project No.: 30721623

Dear Tina Tomek:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Justin P. Horn
justin.horn@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Accounts Payable, Micro-Methods Lab

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 2409382
Pace Project No.: 30721623

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 2409382
Pace Project No.: 30721623

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30721623001	2409382-01	Water	09/18/24 14:27	09/27/24 09:55
30721623002	2409382-02	Water	09/18/24 19:03	09/27/24 09:55
30721623003	2409382-03	Water	09/18/24 14:40	09/27/24 09:55
30721623004	2409382-04	Water	09/18/24 11:45	09/27/24 09:55
30721623005	2409382-05	Water	09/18/24 12:22	09/27/24 09:55
30721623006	2409382-06	Water	09/18/24 00:00	09/27/24 09:55
30721623007	2409382-07	Water	09/18/24 17:30	09/27/24 09:55
30721623008	2409382-08	Water	09/18/24 15:46	09/27/24 09:55
30721623009	2409382-09	Water	09/18/24 13:29	09/27/24 09:55
30721623010	2409382-10	Water	09/18/24 17:45	09/27/24 09:55
30721623011	2409382-11	Water	09/18/24 16:45	09/27/24 09:55

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 2409382
Pace Project No.: 30721623

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30721623001	2409382-01	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
30721623002	2409382-02	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
30721623003	2409382-03	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
30721623004	2409382-04	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
30721623005	2409382-05	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
30721623006	2409382-06	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
30721623007	2409382-07	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
30721623008	2409382-08	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
30721623009	2409382-09	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
30721623010	2409382-10	EPA 903.1	CLM	1
		EPA 904.0	VAL	1
30721623011	2409382-11	EPA 903.1	CLM	1
		EPA 904.0	VAL	1

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2409382
Pace Project No.: 30721623

Sample: 2409382-01 **Lab ID: 30721623001** Collected: 09/18/24 14:27 Received: 09/27/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.793 ± 0.607 (0.909) C:NA T:93%**	pCi/L	10/14/24 14:02	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.697 ± 0.340 (0.568) C:81% T:98%**	pCi/L	10/14/24 14:33	15262-20-1	

Sample: 2409382-02 **Lab ID: 30721623002** Collected: 09/18/24 19:03 Received: 09/27/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.0426 ± 0.221 (0.458) C:NA T:104%**	pCi/L	10/14/24 14:02	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.0900 ± 0.269 (0.610) C:81% T:87%**	pCi/L	10/14/24 14:33	15262-20-1	

Sample: 2409382-03 **Lab ID: 30721623003** Collected: 09/18/24 14:40 Received: 09/27/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.521 ± 0.340 (0.348) C:NA T:97%**	pCi/L	10/14/24 14:02	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**-0.0303 ± 0.317 (0.751) C:77% T:88%**	pCi/L	10/14/24 14:33	15262-20-1	

Sample: 2409382-04 **Lab ID: 30721623004** Collected: 09/18/24 11:45 Received: 09/27/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 903.1	**0.221 ± 0.313 (0.530) C:NA T:98%**	pCi/L	10/14/24 14:02	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 904.0	**0.515 ± 0.381 (0.740) C:79% T:84%**	pCi/L	10/14/24 14:34	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2409382
Pace Project No.: 30721623

Sample: 2409382-05 **Lab ID: 30721623005** Collected: 09/18/24 12:22 Received: 09/27/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0445 ± 0.262 (0.534) C:NA T:93%**	pCi/L	10/14/24 14:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.222 ± 0.380 (0.828) C:82% T:99%**	pCi/L	10/14/24 14:34	15262-20-1	

Sample: 2409382-06 **Lab ID: 30721623006** Collected: 09/18/24 00:00 Received: 09/27/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.201 ± 0.342 (0.604) C:NA T:102%**	pCi/L	10/14/24 14:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.313 ± 0.426 (0.913) C:80% T:88%**	pCi/L	10/14/24 14:34	15262-20-1	

Sample: 2409382-07 **Lab ID: 30721623007** Collected: 09/18/24 17:30 Received: 09/27/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.374 ± 0.470 (0.780) C:NA T:94%**	pCi/L	10/14/24 14:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**-0.0162 ± 0.397 (0.923) C:74% T:91%**	pCi/L	10/14/24 14:34	15262-20-1	

Sample: 2409382-08 **Lab ID: 30721623008** Collected: 09/18/24 15:46 Received: 09/27/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.499 ± 0.721 (1.22) C:NA T:99%**	pCi/L	10/14/24 14:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**1.06 ± 0.544 (0.969) C:81% T:82%**	pCi/L	10/14/24 14:34	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2409382
Pace Project No.: 30721623

Sample: 2409382-09 **Lab ID: 30721623009** Collected: 09/18/24 13:29 Received: 09/27/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.315 ± 0.592 (1.03) C:NA T:96%**	pCi/L	10/14/24 14:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.170 ± 0.277 (0.601) C:76% T:101%**	pCi/L	10/14/24 14:35	15262-20-1	

Sample: 2409382-10 **Lab ID: 30721623010** Collected: 09/18/24 17:45 Received: 09/27/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.550 ± 0.479 (0.727) C:NA T:106%**	pCi/L	10/14/24 14:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.799 ± 0.419 (0.713) C:78% T:88%**	pCi/L	10/14/24 14:35	15262-20-1	

Sample: 2409382-11 **Lab ID: 30721623011** Collected: 09/18/24 16:45 Received: 09/27/24 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**0.0888 ± 0.444 (0.836) C:NA T:93%**	pCi/L	10/14/24 14:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.895 ± 0.381 (0.606) C:86% T:93%**	pCi/L	10/14/24 14:36	15262-20-1	

Pace Analytical Services, LLC
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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2409382
Pace Project No.: 30721623

QC Batch: 699238
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30721623001, 30721623002, 30721623003, 30721623004, 30721623005, 30721623006, 30721623007, 30721623008, 30721623009, 30721623010, 30721623011

METHOD BLANK: 3405684 Matrix: Water
Associated Lab Samples: 30721623001, 30721623002, 30721623003, 30721623004, 30721623005, 30721623006, 30721623007, 30721623008, 30721623009, 30721623010, 30721623011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0358 ± 0.163 (0.332) C:NA T:91%	pCi/L	10/14/24 13:50	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2409382
Pace Project No.: 30721623

QC Batch: 699239
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 30721623001, 30721623002, 30721623003, 30721623004, 30721623005, 30721623006, 30721623007, 30721623008, 30721623009, 30721623010, 30721623011

METHOD BLANK: 3405685 Matrix: Water
Associated Lab Samples: 30721623001, 30721623002, 30721623003, 30721623004, 30721623005, 30721623006, 30721623007, 30721623008, 30721623009, 30721623010, 30721623011

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0310 ± 0.238 (0.569) C:82% T:101%	pCi/L	10/14/24 14:32	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 2409382
Pace Project No.: 30721623

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.

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

Pace Analytical Services, LLC
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Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2409382
Pace Project No.: 30721623

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30721623001	2409382-01	EPA 903.1	699238		
30721623002	2409382-02	EPA 903.1	699238		
30721623003	2409382-03	EPA 903.1	699238		
30721623004	2409382-04	EPA 903.1	699238		
30721623005	2409382-05	EPA 903.1	699238		
30721623006	2409382-06	EPA 903.1	699238		
30721623007	2409382-07	EPA 903.1	699238		
30721623008	2409382-08	EPA 903.1	699238		
30721623009	2409382-09	EPA 903.1	699238		
30721623010	2409382-10	EPA 903.1	699238		
30721623011	2409382-11	EPA 903.1	699238		
30721623001	2409382-01	EPA 904.0	699239		
30721623002	2409382-02	EPA 904.0	699239		
30721623003	2409382-03	EPA 904.0	699239		
30721623004	2409382-04	EPA 904.0	699239		
30721623005	2409382-05	EPA 904.0	699239		
30721623006	2409382-06	EPA 904.0	699239		
30721623007	2409382-07	EPA 904.0	699239		
30721623008	2409382-08	EPA 904.0	699239		
30721623009	2409382-09	EPA 904.0	699239		
30721623010	2409382-10	EPA 904.0	699239		
30721623011	2409382-11	EPA 904.0	699239		

MICRO-METHOD LABORATORY, INC.

WO# : 30721623

30721623

Sending Laboratory:

Micro-Methods Laboratory, Inc.
6500 Sunplex Drive
Ocean Springs, MS 39564
Phone: 228.875.6420
Fax: 228.875.6423

Project Manager: Teresa Meins

Subcontracted Laboratory:

Pace Analytical-7
1638 Roseytown Rd. Suites 2, 3, 4
Greensburg, PA 15601
Phone: (724) 850-5600
Fax: -

Received by Pace Greensburg
Therm ID — Corr Factor +/- —
Receipt Temp —
Corrected Temp —
Correct Preservation (Y) N

Work Order: 2409382

*Standard TAT *

Analysis	Due	Expires	Comments
Sample ID: 2409382-01 ***Water Sampled: 09/18/2024 14:27 Sample Name: MW-9***			001
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/30/2024	10/16/2024 14:27	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2409382-02 ***Water Sampled: 09/18/2024 19:03 Sample Name: OW-2***			002
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/30/2024	10/16/2024 19:03	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2409382-03 ***Water Sampled: 09/18/2024 14:40 Sample Name: MW-7***			003
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/30/2024	10/16/2024 14:40	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2409382-04 ***Water Sampled: 09/18/2024 11:45 Sample Name: MW-14***			004
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/30/2024	10/16/2024 11:45	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2409382-05 ***Water Sampled: 09/18/2024 12:22 Sample Name: Field Blank***			005
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/30/2024	10/16/2024 12:22	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2409382-06 ***Water Sampled: 09/18/2024 00:00 Sample Name: Duplicate***			006
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/30/2024	10/16/2024 00:00	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2409382-07 ***Water Sampled: 09/18/2024 17:30 Sample Name: MW-12***			007

Sarah Jones	9/24/24 1630	UPS	9/24/24 1630
Released By	Date	Received By	Date
UPS		Jessie Smith - Pace	9/27/24 955
Released By	Date	Received By	Date

MICRO-METHODS LABORATORY, INC.

SUBCONTRACT ORDER
(Continued)

Work Order: 2409382 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 2409382-07 *Water* *Sampled: 09/18/2024 17:30* *Sample Name: MW-12*			007 008
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/30/2024	10/16/2024 17:30	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2409382-08 *Water* *Sampled: 09/18/2024 15:46* *Sample Name: CCR-2*			009 10
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/30/2024	10/16/2024 15:46	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2409382-09 *Water* *Sampled: 09/18/2024 13:29* *Sample Name: CCR-3*			010 00
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/30/2024	10/16/2024 13:29	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2409382-10 *Water* *Sampled: 09/18/2024 17:45* *Sample Name: CCR-4*			011 01C
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/30/2024	10/16/2024 17:45	EJ 9/27/24
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2409382-11 *Water* *Sampled: 09/18/2024 16:45* *Sample Name: CCR-5*			011
Radium,Total 226 & 228 by EPA 903.1 & 9C	09/30/2024	10/16/2024 16:45	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			

WO#: 30721623
PM: JPH Due Date: 10/18/24
CLIENT: MICROMETHOD

Released By: Jonah Jomeh	Date: 9/24/24 1630	Received By: UPS	Date: 9/24/24 1630
Released By: UPS	Date:	Received By: [signature]	Date: 9/27/24 955

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Greensburg

Effective Date: 01/04/2024

WO# : 30721623

PM: JPH Due Date: 10/18/24

CLIENT: MICROMETHOD

Client Name: Micro-Methods Lab Pr

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

Tracking Number: 1Z 353 063 03 7064 3959

Initial / Date

Examined By: EJ 9/27/24

Labeled By: EJ 9/27/24

Temped By: —

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals Intact: ☐ Yes ☑ No

Thermometer Used: — Type of Ice: Wet Blue (None)

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

pH paper Lot#: 10D1041 D.P.D. Residual Chlorine Lot #: —

Comments:	Yes	No	NA	
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID Matrix: WT				
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dichlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:	✓			16.
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				pH<2
All containers meet method preservation requirements:	✓			Initial when completed: EJ Date/Time of Preservation:
				Lot# of added Preservative:
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed: EJ Date: 9/27/24 Survey Meter SN: 25014380

Comments:

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Qualtrax ID: 55680

Client _____

Site 2409382

Page _____ of _____

Profile/EZ Login Number 14460

Notes _____

Sample Line Item	Matrix	Amber Glass					Plastic								Vials					Other										
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	AG1U	BG1U	BP2N	
001	WT						2																						
002	↓						↓																						
003																													
004																													
005																													
006																													
007																													
008																													
009																													
010																													
011	↓						↓																						

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved	GN	General

Plastic/Misc.

GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
SP5T	
BP1N	
BP1U	
BP3S	
BP3N	
BP3U	250mL plastic unpreserved
BP3B	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

EZI	5g Encore
VOAK	Kit Volatile Solid
	Swab
	Bag
OL	Non-Aq Liquid
WP	Wipe

WO#: 30721623
PM: JPH Due Date: 10/18/24
CLIENT: MICROMETHOD

Qualtrax ID: 55678

MICRO-METHODS
LABORATORY, INC.

Mailing Address:
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Ocean Springs, MS
39566-1410

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DOCUMENT CHANGE NOTICE

Revised Report

January 16, 2025

Jim Ward

Work Order # : 2410610

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman, MS 39735

Purchase Order # RDH19587 - Yr 2024

RE: CGLP CCR Semi Annual

Enclosed is the revised report for samples received by the laboratory on 10/31/2024 08:44. This report supercedes any previous version of the above noted work order. If you have any questions concerning this report, please feel free to contact the office.

Sincerely,

Mitch Spicer

Lab Director

DISCLAIMER

The results only relate to the items or the sample and/or samples received by the laboratory. This report shall not be reproduced except in full, without the approval of the laboratory. All NELAP certified test methods performed meet the requirements of NELAC 2009 Standards. Any variances and/or deviations specific to this analytical report are referenced in the lab report using qualifiers and detailed explanations found in the case narrative.

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 08:59

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
MW-13	2410610-01	Water	10/30/2024 13:31	*Tyler Lopez*	10/31/2024 08:44

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Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 08:59

Sample Receipt Conditions

Date/Time Received: 10/31/2024 8:44:00AM
Received by: Sarah E. Tomek
Date/Time Logged: 10/31/2024 9:19:00AM
Cooler ID: client cooler #2

Shipped by: Fed Ex
Submitted by: Tyler Lopez
Logged by: Sarah E. Tomek
Receipt Temperature: 0.2 °C

Cooler Custody Seals Present	No	*Received on Ice but Not Frozen*	Yes
Containers Intact	Yes	*No Ice, Short Trip*	No
COC/Labels Agree	Yes	*Obvious Contamination*	No
Labels Complete	Yes	*Rush to meet HT*	No
COC Complete	Yes	*Received within HT*	Yes
Volatile Vial Headspace >6mm	No	*Proper Containers for Analysis*	Yes
Field Sheet/Instructions Included	No	*Correct Preservation*	Yes
Samples Rejected/Documented in Log	No	*Adequate Sample for Analysis*	Yes
Temp Taken From Temp Blank	Yes	*Sample Custody Seals Present*	Yes
Temp Taken From Sample Container	No	*Samples Missing from COC/Cooler*	No
Temp Taken From Cooler	No		
COC meets acceptance criteria	Yes		

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 08:59

CASE NARRATIVE SUMMARY

All reported results are within Micro-Methods Laboratory, Inc.defined laboratory quality control objectives unless detailed in narrative summary or identified as qualifications. NOTE: All results listed on this report are calculated on a wet weight basis (as received by the laboratory) unless otherwise noted in the analysis qualification sections.

Summary Comments:

See attached results from Sub-Contract Laboratory

Resubmit corrected report due to Fluoride not reported to correct MRL. TKM 1/16/25

Total Metals-EPA 200.8 Rev 5.4

Qualification:

M2 MS/MSD Recovery below acceptable limit.

Molybdenum [He]
4K05044-MS1

Total Dissolved Solids-SM 2540 C-2020

Qualification:

RPD04 The RPD between the sample and sample duplicate exceeded the acceptance limits.

Total Dissolved Solids
4K04033-DUP1

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Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 08:59

MW-13

2410610-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Chloride	**3.71**	0.500	mg/L	1.0	4K04030	CRG	10/31/2024 10:00	10/31/2024 14:40	SM 4110 B-2020	
Sulfate as SO4	**7.09**	5.00	"	"	"	CRG	"	"	"	
Fluoride	ND	0.22	"	"	4K05034	CDV	11/04/2024 13:59	11/05/2024 08:44	SM 4500-F C-2021	
Total Dissolved Solids	**142**	1	"	"	4K04033	DLW	11/04/2024 13:00	11/06/2024 00:00	SM 2540 C-2020	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	**0.174**	0.010	mg/L	1.0	4K05043	CLV	11/05/2024 09:30	11/07/2024 14:54	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	**19.2**	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	ND	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	4K05044	SCH	11/04/2024 09:30	11/06/2024 14:51	EPA 200.8 Rev 5.4	
Arsenic [He]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [He]	ND	0.00100	"	"	"	SCH	"	"	"	

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 08:59

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4K04030 - Default Prep GenChem											
Blank (4K04030-BLK1)											
Chloride	10/31/24 10:49	ND	0.500	mg/L							
Sulfate as SO4	11/1/24 14:56	ND	5.00	"							
Blank (4K04030-BLK2)											
Chloride	11/1/24 14:56	ND	0.500	mg/L							
Sulfate as SO4	11/1/24 14:56	ND	5.00	"							
LCS (4K04030-BS1)											
Chloride	10/31/24 11:20	9.99	0.500	mg/L	10.0		99.9	87.4-108			
Sulfate as SO4	10/31/24 11:20	10.2	5.00	"	10.0		102	83.3-109			
LCS (4K04030-BS2)											
Chloride	11/1/24 15:27	10.0	0.500	mg/L	10.0		100	87.4-108			
Sulfate as SO4	11/1/24 15:27	10.3	5.00	"	10.0		103	83.3-109			
LCS Dup (4K04030-BSD1)											
Chloride	10/31/24 11:51	10.0	0.500	mg/L	10.0		100	87.4-108	0.447	20	
Sulfate as SO4	10/31/24 11:51	10.2	5.00	"	10.0		102	83.3-109	0.139	20	
LCS Dup (4K04030-BSD2)											
Chloride	11/1/24 15:58	9.99	0.500	mg/L	10.0		99.9	87.4-108	0.199	20	
Sulfate as SO4	11/1/24 15:58	10.3	5.00	"	10.0		103	83.3-109	0.127	20	
Matrix Spike (4K04030-MS1)			**Source: 2410611-04**								
Chloride	10/31/24 19:49	8.83	0.500	mg/L	5.00	3.85	99.7	64.8-131			
Sulfate as SO4	10/31/24 19:49	12.0	5.00	"	5.00	7.31	93.3	53.2-148			
Matrix Spike (4K04030-MS2)			**Source: 2410611-03**								
Chloride	11/1/24 17:30	36.0	1.00	mg/L	10.0	26.8	91.6	64.8-131			
Sulfate as SO4	11/1/24 17:30	30.7	10.0	"	10.0	21.5	92.0	53.2-148			

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Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 08:59

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4K04030 - Default Prep GenChem											
Matrix Spike Dup (4K04030-MSD1)			**Source: 2410611-04**								
Chloride	10/31/24 20:20	8.81	0.500	mg/L	5.00	3.85	99.3	64.8-131	0.273	20	
Sulfate as SO4	10/31/24 20:20	12.0	5.00	"	5.00	7.31	92.9	53.2-148	0.136	20	
Matrix Spike Dup (4K04030-MSD2)			**Source: 2410611-03**								
Chloride	11/1/24 18:01	35.9	1.00	mg/L	10.0	26.8	90.9	64.8-131	0.194	20	
Sulfate as SO4	11/1/24 18:01	30.7	10.0	"	10.0	21.5	92.3	53.2-148	0.0801	20	
Batch 4K04033 - Default Prep GenChem											
Blank (4K04033-BLK1)											
Total Dissolved Solids	11/6/24 0:00	ND	1	mg/L							
LCS (4K04033-BS1)											
Total Dissolved Solids	11/6/24 0:00	81	1	mg/L	99.2		81.7	69.8-100			
LCS Dup (4K04033-BSD1)											
Total Dissolved Solids	11/6/24 0:00	84	1	mg/L	99.2		84.7	69.8-100	3.64	10	
Duplicate (4K04033-DUP1)			**Source: 2410611-07**								
Total Dissolved Solids	11/6/24 0:00	6	1	mg/L		7			15.4	10	RPD04
Batch 4K05034 - Default Prep GenChem											
Blank (4K05034-BLK1)											
Fluoride	11/5/24 8:44	ND	0.22	mg/L							

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Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 08:59

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4K05034 - Default Prep GenChem											
LCS (4K05034-BS1)											
Fluoride	11/5/24 8:44	2.05	0.22	mg/L	2.00		103	88.5-110			
LCS Dup (4K05034-BSD1)											
Fluoride	11/5/24 8:44	2.07	0.22	mg/L	2.00		104	88.5-110	0.971	30	
Duplicate (4K05034-DUP1)			**Source: 2410611-02**								
Fluoride	11/5/24 8:44	0.40	0.22	mg/L		0.38			6.14	20	
Matrix Spike (4K05034-MS1)			**Source: 2410610-01**								
Fluoride	11/5/24 8:44	1.17	0.22	mg/L	1.00	0.17	99.7	81.9-110			
Matrix Spike Dup (4K05034-MSD1)			**Source: 2410610-01**								
Fluoride	11/5/24 8:44	1.18	0.22	mg/L	1.00	0.17	101	81.9-110	0.851	30	

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Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 08:59

Metals by EPA 200 Series Methods ICP-AES - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4K05043 - EPA 200.2 DCN 1017 Rev 10											
Blank (4K05043-BLK1)											
Barium 455.403 [Radial]	11/7/24 13:49	ND	0.010	mg/L							
Boron 249.773 [Radial]	11/7/24 13:49	ND	0.050	"							
Calcium 315.887 [Radial]	11/7/24 13:49	ND	0.050	"							
Lithium 610.362 [Axial]	11/7/24 13:49	ND	0.040	"							
LCS (4K05043-BS1)											
Barium 455.403 [Radial]	11/7/24 13:52	0.207	0.010	mg/L	0.200		103	85-115			
Boron 249.773 [Radial]	11/7/24 13:52	0.208	0.050	"	0.200		104	85-115			
Calcium 315.887 [Radial]	11/7/24 13:52	0.200	0.050	"	0.200		100	85-115			
Lithium 610.362 [Axial]	11/7/24 13:52	0.195	0.040	"	0.200		97.6	85-115			
LCS Dup (4K05043-BSD1)											
Barium 455.403 [Radial]	11/7/24 14:46	0.207	0.010	mg/L	0.200		103	85-115	0.0951	20	
Boron 249.773 [Radial]	11/7/24 14:46	0.208	0.050	"	0.200		104	85-115	0.275	20	
Calcium 315.887 [Radial]	11/7/24 14:46	0.199	0.050	"	0.200		99.6	85-115	0.405	20	
Lithium 610.362 [Axial]	11/7/24 14:46	0.215	0.040	"	0.200		107	85-115	9.44	20	
Duplicate (4K05043-DUP1)			**Source: 2410611-06**								
Calcium 315.887 [Radial]	11/7/24 15:19	38.0	0.050	mg/L		38.7			2.05	20	
Matrix Spike (4K05043-MS1)			**Source: 2410611-06**								
Barium 455.403 [Radial]	11/7/24 15:19	0.207	0.010	mg/L	0.200	0.016	95.6	70-130			
Boron 249.773 [Radial]	11/7/24 15:19	0.204	0.050	"	0.200	ND	102	70-130			
Lithium 610.362 [Axial]	11/7/24 15:19	0.220	0.040	"	0.200	0.031	94.9	70-130			
Matrix Spike Dup (4K05043-MSD1)			**Source: 2410611-06**								
Barium 455.403 [Radial]	11/7/24 15:23	0.206	0.010	mg/L	0.200	0.016	94.9	70-130	0.729	20	
Boron 249.773 [Radial]	11/7/24 15:23	0.203	0.050	"	0.200	ND	101	70-130	0.639	20	
Lithium 610.362 [Axial]	11/7/24 15:23	0.222	0.040	"	0.200	0.031	95.5	70-130	0.535	20	

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Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 08:59

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4K05044 - EPA 200.2 DCN 1017 Rev 10											
Blank (4K05044-BLK1)											
Antimony [He]	11/6/24 14:02	ND	0.00200	mg/L							
Arsenic [NG]	11/6/24 14:02	ND	0.00200	"							
Arsenic [He]	11/6/24 14:02	ND	0.00200	"							
Beryllium [He]	11/6/24 14:02	ND	0.00100	"							
Cadmium [He]	11/6/24 14:02	ND	0.00100	"							
Chromium [He]	11/6/24 14:02	ND	0.00100	"							
Cobalt [He]	11/6/24 14:02	ND	0.00100	"							
Lead [He]	11/6/24 14:02	ND	0.00100	"							
Molybdenum [He]	11/6/24 14:02	ND	0.00100	"							
Selenium [NG]	11/6/24 14:02	ND	0.00500	"							
Selenium [He]	11/6/24 14:02	ND	0.00100	"							
LCS (4K05044-BS1)											
Antimony [He]	11/6/24 14:08	0.103	0.00200	mg/L	0.100		103	85-115			
Arsenic [NG]	11/6/24 14:08	0.095	0.00200	"	0.100		95.4	85-115			
Arsenic [He]	11/6/24 14:08	0.099	0.00200	"	0.100		99.2	85-115			
Beryllium [He]	11/6/24 14:08	0.099	0.00100	"	0.100		98.6	85-115			
Cadmium [He]	11/6/24 14:08	0.100	0.00100	"	0.100		99.8	85-115			
Chromium [He]	11/6/24 14:08	0.096	0.00100	"	0.100		96.3	85-115			
Cobalt [He]	11/6/24 14:08	0.094	0.00100	"	0.100		93.8	85-115			
Lead [He]	11/6/24 14:08	0.096	0.00100	"	0.100		96.2	85-115			
Molybdenum [He]	11/6/24 14:08	0.096	0.00100	"	0.100		96.5	85-115			
Selenium [He]	11/6/24 14:08	0.105	0.00100	"	0.100		105	85-115			
Selenium [NG]	11/6/24 14:08	0.098	0.00500	"	0.100		97.9	85-115			
LCS Dup (4K05044-BSD1)											
Antimony [He]	11/6/24 14:14	0.111	0.00200	mg/L	0.100		111	85-115	8.01	20	
Arsenic [NG]	11/6/24 14:14	0.090	0.00200	"	0.100		89.7	85-115	6.14	20	
Arsenic [He]	11/6/24 14:14	0.102	0.00200	"	0.100		102	85-115	3.06	20	
Beryllium [He]	11/6/24 14:14	0.111	0.00100	"	0.100		111	85-115	12.1	20	
Cadmium [He]	11/6/24 14:14	0.108	0.00100	"	0.100		108	85-115	7.95	20	
Chromium [He]	11/6/24 14:14	0.104	0.00100	"	0.100		104	85-115	8.06	20	
Cobalt [He]	11/6/24 14:14	0.102	0.00100	"	0.100		102	85-115	8.59	20	
Lead [He]	11/6/24 14:14	0.103	0.00100	"	0.100		103	85-115	7.20	20	
Molybdenum [He]	11/6/24 14:14	0.104	0.00100	"	0.100		104	85-115	7.12	20	
Selenium [He]	11/6/24 14:14	0.110	0.00100	"	0.100		110	85-115	3.86	20	
Selenium [NG]	11/6/24 14:14	0.092	0.00500	"	0.100		92.3	85-115	5.89	20	

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 08:59

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4K05044 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (4K05044-MS1)			**Source: 2410599-02**								
Antimony [He]	11/6/24 14:26	0.107	0.00200	mg/L	0.100	0.009	98.4	70-130			
Arsenic [NG]	11/6/24 14:26	0.102	0.00200	"	0.100	0.011	90.7	70-130			
Arsenic [He]	11/6/24 14:26	0.101	0.00200	"	0.100	0.011	89.7	70-130			
Beryllium [He]	11/6/24 14:26	0.095	0.00100	"	0.100	ND	94.7	70-130			
Cadmium [He]	11/6/24 14:26	0.093	0.00100	"	0.100	0.002	91.6	70-130			
Chromium [He]	11/6/24 14:26	0.096	0.00100	"	0.100	0.007	88.5	70-130			
Cobalt [He]	11/6/24 14:26	0.086	0.00100	"	0.100	0.001	85.0	70-130			
Lead [He]	11/6/24 14:26	0.094	0.00100	"	0.100	ND	93.6	70-130			
Molybdenum [He]	11/6/24 14:26	0.593	0.00100	"	0.100	0.533	59.9	70-130			M2
Selenium [NG]	11/6/24 14:26	0.091	0.00500	"	0.100	ND	91.3	70-130			
Selenium [He]	11/6/24 14:26	0.088	0.00100	"	0.100	0.0009	86.9	70-130			
Matrix Spike (4K05044-MS2)			**Source: 2410611-06**								
Antimony [He]	11/6/24 15:34	0.105	0.00200	mg/L	0.100	ND	105	70-130			
Arsenic [He]	11/6/24 15:34	0.100	0.00200	"	0.100	0.00006	100	70-130			
Arsenic [NG]	11/6/24 15:34	0.093	0.00200	"	0.100	ND	93.3	70-130			
Beryllium [He]	11/6/24 15:34	0.100	0.00100	"	0.100	ND	100	70-130			
Cadmium [He]	11/6/24 15:34	0.099	0.00100	"	0.100	0.0003	98.6	70-130			
Chromium [He]	11/6/24 15:34	0.096	0.00100	"	0.100	ND	95.5	70-130			
Cobalt [He]	11/6/24 15:34	0.090	0.00100	"	0.100	ND	90.3	70-130			
Lead [He]	11/6/24 15:34	0.097	0.00100	"	0.100	ND	97.0	70-130			
Molybdenum [He]	11/6/24 15:34	0.103	0.00100	"	0.100	0.0007	102	70-130			
Selenium [NG]	11/6/24 15:34	0.094	0.00500	"	0.100	ND	94.2	70-130			
Selenium [He]	11/6/24 15:34	0.101	0.00100	"	0.100	ND	101	70-130			
Matrix Spike Dup (4K05044-MSD1)			**Source: 2410599-02**								
Antimony [He]	11/6/24 14:32	0.112	0.00200	mg/L	0.100	0.009	103	70-130	4.29	20	
Arsenic [NG]	11/6/24 14:32	0.102	0.00200	"	0.100	0.011	91.0	70-130	0.269	20	
Arsenic [He]	11/6/24 14:32	0.105	0.00200	"	0.100	0.011	93.9	70-130	4.01	20	
Beryllium [He]	11/6/24 14:32	0.099	0.00100	"	0.100	ND	98.5	70-130	3.90	20	
Cadmium [He]	11/6/24 14:32	0.097	0.00100	"	0.100	0.002	95.8	70-130	4.34	20	
Chromium [He]	11/6/24 14:32	0.099	0.00100	"	0.100	0.007	91.9	70-130	3.54	20	
Cobalt [He]	11/6/24 14:32	0.089	0.00100	"	0.100	0.001	88.2	70-130	3.68	20	
Lead [He]	11/6/24 14:32	0.097	0.00100	"	0.100	ND	97.2	70-130	3.79	20	
Molybdenum [He]	11/6/24 14:32	0.626	0.00100	"	0.100	0.533	93.4	70-130	5.50	20	
Selenium [NG]	11/6/24 14:32	0.093	0.00500	"	0.100	ND	93.0	70-130	1.88	20	
Selenium [He]	11/6/24 14:32	0.096	0.00100	"	0.100	0.0009	95.5	70-130	9.26	20	

MICRO-METHODS LABORATORY, INC.

6500 Sunplex Drive
Ocean Springs, MS 39564
228-875-6420 Phone
228-875-6423 Fax

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward

Reported:
01/16/2025 08:59

Metals by EPA 200 Series Methods ICP-MS [Analysis Mode] - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 4K05044 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike Dup (4K05044-MSD2)			**Source: 2410611-06**								
Antimony [He]	11/6/24 16:11	0.106	0.00200	mg/L	0.100	ND	106	70-130	0.764	20	
Arsenic [He]	11/6/24 16:11	0.098	0.00200	"	0.100	0.00006	98.1	70-130	2.01	20	
Arsenic [NG]	11/6/24 16:11	0.094	0.00200	"	0.100	ND	93.9	70-130	0.638	20	
Beryllium [He]	11/6/24 16:11	0.104	0.00100	"	0.100	ND	104	70-130	4.36	20	
Cadmium [He]	11/6/24 16:11	0.099	0.00100	"	0.100	0.0003	99.1	70-130	0.439	20	
Chromium [He]	11/6/24 16:11	0.097	0.00100	"	0.100	ND	97.2	70-130	1.71	20	
Cobalt [He]	11/6/24 16:11	0.093	0.00100	"	0.100	ND	93.1	70-130	3.11	20	
Lead [He]	11/6/24 16:11	0.096	0.00100	"	0.100	ND	96.0	70-130	1.05	20	
Molybdenum [He]	11/6/24 16:11	0.101	0.00100	"	0.100	0.0007	100	70-130	1.86	20	
Selenium [He]	11/6/24 16:11	0.097	0.00100	"	0.100	ND	96.9	70-130	4.60	20	
Selenium [NG]	11/6/24 16:11	0.095	0.00500	"	0.100	ND	95.0	70-130	0.863	20	

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Ocean Springs, MS 39564
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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 08:59

Certified Analyses Included in this Report

Analyte	Certification Code
EPA 200.7 Rev 4.4 in Water	
Aluminum 394.401 [Radial]	C01,C02
Aluminum 396.152 [Radial]	C01,C02
Antimony 206.833 [Axial]	C01,C02
Arsenic 193.759 [Axial]	C01,C02
Barium 455.403 [Radial]	C01,C02
Barium 493.409 [Radial]	C01,C02
Beryllium 313.042 [Axial]	C01,C02
Boron 249.773 [Radial]	C01,C02
Cadmium 228.802 [Axial]	C01,C02
Calcium 315.887 [Radial]	C01,C02
Chromium 283.563 [Axial]	C01,C02
Cobalt 228.616 [Axial]	C01,C02
Copper 324.754 [Axial]	C01,C02
Iron 259.940 [Axial]	C01,C02
Iron 259.940 [Radial]	C01,C02
Lead 220.353 [Axial]	C01,C02
Magnesium 285.213 [Radial]	C01,C02
Manganese 257.610 [Axial]	C01,C02
Molybdenum 202.030 [Axial]	C01,C02
Nickel 231.604 [Axial]	C01,C02
Potassium 766.490 [Radial]	C01,C02
Phosphorus 178.284 [Axial]	C01,C02
Phosphorus 178.284 [Radial]	C01,C02
Selenium 196.090 [Axial]	C01,C02
Silver 328.068 [Axial]	C01,C02
Sodium 589.592 [Axial]	C01,C02
Sodium 589.592 [Radial]	C01,C02
Strontium 346.446 [Radial]	C01,C02
Strontium 421.552 [Radial]	C01,C02
Thallium 190.856 [Axial]	C01,C02
Vanadium 309.311 [Axial]	C01,C02
Zinc 213.856 [Axial]	C01,C02
EPA 200.8 Rev 5.4 in Water	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [NG]	C01,C02
Arsenic [He]	C01,C02
Arsenic [NG]	C01,C02
Barium [He]	C01,C02

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 08:59

Beryllium [He]	C01,C02
Cadmium [He]	C01,C02
Cadmium [NG]	C01,C02
Chromium [He]	C01,C02
Cobalt [He]	C01,C02
Copper [He]	C01,C02
Copper [NG]	C01,C02
Iron [He]	C01,C02
Lead [He]	C01,C02
Lead [NG]	C01,C02
Manganese [He]	C01,C02
Molybdenum [He]	C01,C02
Nickel [He]	C01,C02
Selenium [He]	C01,C02
Selenium [NG]	C01,C02
Silver [He]	C01,C02
Silver [NG]	C01,C02
Strontium [He]	C01,C02
Thallium [He]	C01,C02
Vanadium [He]	C01,C02
Zinc [He]	C01,C02

SM 2540 C-2020 in Water

Total Dissolved Solids	C01,C02

SM 4110 B-2020 in Water

Chloride	C01,C02
Nitrite as N	C01,C02
Nitrate as N	C01,C02
Sulfate as SO4	C01,C02

****Only compounds included in this list are associated with accredited analyses****

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 08:59

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	LA Environmental Lab Accreditation Program	01960	06/30/2025
C02	The NELAC Institute (NELAP)	TNI01397	06/30/2025
C03	MS Dept of Health (Drinking Water Microbiology)	MS00021	12/31/2024
C04	MS Dept of Health (Drinking Water Chemistry)	MS00021	12/31/2024
C05	MS DEQ Lead Firm Certification	PBF-00000028	03/31/2024
C06	MSDEQ Asbestos Inspector : C.D. Bingham	ABI-00001348	02/09/2024
C07	MSDEQ Air Monitor : C.D. Bingham	AM-011572	02/10/2024
C08	MSDEQ Asbestos Inspector: C. W. Meins	ABI-00001821	09/09/2022
C09	MSDEQ Air Monitor : C.W. Meins	AM-011189	02/10/2024
C10	ADEM (Drinking Water Microbiology)	43500	12/31/2024
C11	ADEM (Drinking Water Chemistry)	43500	12/31/2024
C14	MSDEQ Lead Paint Inspector : C.D. Bingham	PBI-00003690	02/07/2024
C15	MSDEQ Lead Paint Inspector : C.W. Meins	PBI-00001740	02/07/2024

Report Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the minimum reporting limit
NR	Not Reported
RPD	Relative Percent Difference
ICV	Initial Calibration Verfiication
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verfication Standard
LCS	Lab Control Spike - Lab matrix prepared with known concentration of analyte/s of interest analyzed by method.
MS	Matrix Spike - Sample prepared with known concentration of analyte/s of interest analyzed by method.
MSD	Matrix Spike Duplicate - Duplicate sample prepared with known concentration of anlayte/s of interest analyzed by method.
MRL	Minimum Reporting Limit
%REC	Percentage Recovery of known concentration added to matrix
Batch	Group of samples prepared for analysis not to exceed 20 samples.
Matrix	Material containing analyte/s of interest
Surrogate	Analyte added to sample to determine extraction efficiency of method.

MICRO-METHODS LABORATORY, INC.

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Choctaw Generation LP	Project: CGLP CCR Semi Annual	
2391 Pensacola Rd.	Project Number: [none]	**Reported:**
Ackerman MS, 39735	Project Manager: Jim Ward	01/16/2025 08:59

Analyst Initials Key

FullName	Initials
Cristina D Vargas	CDV
Cameron J Smith	CJS
Charles L Vorhoff	CLV
Christa R Gray	CRG
Dortha L. Wells	DLW
Sarah E. Tomek	SET
Samantha C. Hall	SCH
Teresa Meins	TKM
Tina Tomek	TPT

Print Form

MICRO-METHODS LABORATORY, INC.
PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423
www.micromethodslab.com

Chain of Custody Record

Lab ID# MS00021
LELAP ID # 01960
TNI ID # TNI01397

M-M Lab WO # 2410610

Company Name: Choctaw Generation Limited Partnership LLLP	Project Manager: Jim Ward
Address: 2391 Pensacola Rd.	Purchase Order #:
City: Ackerman State: MS Zip: 39735	Email Address: jmward@southernco.com
Phone: 662-387-5758	Sampler Name Printed: Tyler Lopez
Fax:	Sampler Name Signed: Tyler Lopez

Turn Around Time & Reporting
Our normal turn around time is 10 working days
__Normal __Next Day* __2nd Day* __Other*_____
*All rush order requests must be prior approved.
__Phone __Mail __Fax __Email
QC Level: Level 1 ☐ Level 2 ☐ Level 3 ☐

Project Name: CGLP CCR
Project #: Semi-Annual

List Analyses Requested

Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Grab (G) or Composite (C)	TDS	Chloride, Fluoride, Sulfate	Antimony, Arsenic	Barium, Boron	Beryllium, Cadmium	Chromium, Lead	Calcium, Cobalt	Lithium	Molybdenum, Selenium	Total Radium 226 & 228
			Preservative:											
MW-13	10/3/24 1331	W	4	G	X	X	X	X	X	X	X	X	X	X

Field Testing

ID#	ID#	ID#	ID#
Field Test	Field Test	Field Test	Field Test

Matrix:
W = Water
DW = Drinking Water
S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Preservation:
1= H2SO4
2= H3PO4
3=NaOH
4=ZnC4H10O6
5=ZnC4H10O6 & NaOH
6=HNO3
7=Na2S2O3
8=HCl
9=NaHSO4

Received on Ice? Y N Thermometer# 5 Cooler # Client #2 Receipt Temp Corrected(°C) 0.2°C
Date & Time _____ By: _____ Sample____ Blank X Cooler____
All Temps are Corrected Values

	Printed Name	Signature	Company	Date	Time
Relinquished by	Tyler Lopez	Tyler Lopez	ECS	10/3/24	1700
Received by	FedEx				
Relinquished by	FedEx				
Received by	Sarah Tomek	Sarah Tomek	MM	10/3/24	0844
Relinquished by					
Received by					

Notes:

DCN F316 Rev.6
MicroMethods Laboratory
Issued/Revised 6/15/22

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

November 25, 2024

Tina Tomek
Micro-Methods Lab
6500 Sunplex Drive
Ocean Springs, MS 39564

RE: Project: 2410610
Pace Project No.: 30731734

Dear Tina Tomek:

Enclosed are the analytical results for sample(s) received by the laboratory on November 06, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

Sincerely,

Justin P. Horn
justin.horn@pacelabs.com
(724)850-5600
Project Manager

Enclosures

cc: Accounts Payable, Micro-Methods Lab

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

CERTIFICATIONS

Project: 2410610
Pace Project No.: 30731734

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

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

SAMPLE SUMMARY

Project: 2410610
Pace Project No.: 30731734

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30731734001	2410610-01	Water	10/30/24 13:31	11/06/24 09:50

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Greensburg, PA 15601
(724)850-5600

SAMPLE ANALYTE COUNT

Project: 2410610
Pace Project No.: 30731734

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30731734001	**2410610-01**	EPA 903.1	LL1	1
		EPA 904.0	JJS1	1
		Total Radium Calculation	JAL	1

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2410610
Pace Project No.: 30731734

Sample: 2410610-01 **Lab ID: 30731734001** Collected: 10/30/24 13:31 Received: 11/06/24 09:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 903.1	**-0.0504 ± 0.532 (1.04) C:NA T:98%**	pCi/L	11/22/24 14:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 904.0	**0.350 ± 0.313 (0.636) C:91% T:87%**	pCi/L	11/19/24 11:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.350 ± 0.845 (1.68)**	pCi/L	11/25/24 08:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2410610
Pace Project No.: 30731734

QC Batch: 708087
QC Batch Method: EPA 904.0
Analysis Method: EPA 904.0
Analysis Description: 904.0 Radium 228
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30731734001

METHOD BLANK: 3447538 Matrix: Water

Associated Lab Samples: 30731734001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.523 ± 0.299 (0.535) C:84% T:93%	pCi/L	11/19/24 11:27	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL - RADIOCHEMISTRY

Project: 2410610
Pace Project No.: 30731734

QC Batch: 708085
QC Batch Method: EPA 903.1
Analysis Method: EPA 903.1
Analysis Description: 903.1 Radium-226
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 30731734001

METHOD BLANK: 3447533 Matrix: Water

Associated Lab Samples: 30731734001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.222 ± 0.380 (0.667) C:NA T:97%	pCi/L	11/22/24 14:00	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALIFIERS

Project: 2410610
Pace Project No.: 30731734

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.

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

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. Is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

Pace Analytical Services, LLC
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-5600

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 2410610
Pace Project No.: 30731734

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30731734001	**2410610-01**	EPA 903.1	708085		
30731734001	**2410610-01**	EPA 904.0	708087		
30731734001	**2410610-01**	Total Radium Calculation	711666		

MICRO-METHODS LABORATORY, INC.

SUBCONTRACT ORDER

Sending Laboratory:

Micro-Methods Laboratory, Inc.
6500 Sunplex Drive
Ocean Springs, MS 39564
Phone: 228.875.6420
Fax: 228.875.6423

Project Manager: Teresa Meins

Subcontracted Laboratory:

Pace Analytical-7
1638 Roseytown Rd. Suites 2, 3, 4
Greensburg, PA 15601
Phone: (724) 850-5600
Fax: -

Work Order: 2410610

Analysis	Due	Expires	Comments
Sample ID: 2410610-01 *Water* *Sampled: 10/30/2024 13:31* *Sample Name: MW-13*			901
Radium,Total 226 & 228 by EPA 903.1 & 9C	11/08/2024	11/27/2024 13:31	
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			

*Standard TAT

WO# : 30731734

30731734

Received by Pace Greensburg
Therm ID — Corr Factor +/- —
Receipt Temp —
Corrected Temp —
Correct Preservation (Y) N

Sarah Jones 11/01/24 1630
Released By Date

VPS 11/01/24 1630
Received By Date

VPS
Released By Date

Received By 11/6/24 950
Date

DC#_Title: ENV-FRM-GBUR-0088 v07_Sample Condition Upon Receipt-Greensburg

Effective Date: 01/04/2024

WO# : 30731734

PM: JPH Due Date: 11/27/24

CLIENT: MICROMETHOD

Client Name: Micro - Methods

Pro

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

Tracking Number: 1Z 353 063 03 7040 3128

Initial / Date

Examined By: EJ 11/6/24

Labeled By: EJ 11/6/24

Temped By: —

Custody Seal on Cooler/Box Present: ☐ Yes ☒ No Seals Intact: ☐ Yes ☒ No

Thermometer Used: — Type of Ice: Wet Blue (None)

Cooler Temperature: Observed Temp — °C Correction Factor: — °C Final Temp: — °C

Temp should be above freezing to 6°C

pH paper Lot# 10D1041 D.P.D. Residual Chlorine Lot # —

Comments:	Yes	No	NA	
Chain of Custody Present	✓			1.
Chain of Custody Filled Out:	✓			2.
-Were client corrections present on COC		✓		
Chain of Custody Relinquished	✓			3.
Sampler Name & Signature on COC:		✓		4.
Sample Labels match COC:	✓			5.
-Includes date/time/ID				
Matrix: WT				
Samples Arrived within Hold Time:	✓			6.
Short Hold Time Analysis (<72hr remaining):		✓		7.
Rush Turn Around Time Requested:		✓		8.
Sufficient Volume:	✓			9.
Correct Containers Used:	✓			10.
-Pace Containers Used		✓		
Containers Intact:	✓			11.
Orthophosphate field filtered:			✓	12.
Hex Cr Aqueous samples field filtered:			✓	13.
Organic Samples checked for dichlorination			✓	14:
Filtered volume received for dissolved tests:			✓	15:
All containers checked for preservation:	✓			16. pH<2
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, non-aqueous matrix				
All containers meet method preservation requirements:	✓			Initial when completed EJ Date/Time of Preservation
				Lot# of added Preservative
8260C/D: Headspace in VOA Vials (> 6mm)			✓	17.
624.1: Headspace in VOA Vials (0mm)			✓	18.
Radon: Headspace in RAD Vials (0mm)			✓	19.
Trip Blank Present:			✓	Trip blank custody seal present? YES or NO
Rad Samples Screened <.05 mrem/hr.	✓			Initial when completed JS Date: 11/6/24 Survey Meter SN: 2504380

Comments:

Note: For NC compliance samples with discrepancies, a copy of this form must be sent to the DEHNR Certification office.
PM Review is documented electronically in LIMS through the SRF Review schedule in the Workorder Edit Screen.

Page 1 of 1

Qualtrax ID: 55680

Client _____

Site 2410610

Page _____ of _____

Profile/EZ Login Number 14460

Notes _____

Sample Line Item	Matrix	Amber Glass					Plastic								Vials					Other									
		AG1H	AG3S	AG3U	AG5U	AG5T	BP1N	BP1U	BP2S	BP2U	BP3B	BP3N	BP3S	BP3U	DG9S	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC	GCUB	GJN	12GN	AG1U	BG1U	BP2N	
001	WT						2																						

Container Codes

Glass

GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulfate
GJN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WGFU	4oz wide jar unpreserved
AG1T	1L amber glass NA Thiosulfate	BG2U	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	AG2U	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved	GN	General

Plastic/Misc.

GCUB	1 gallon cubitainer
12GN	1/2 gallon cubitainer
BP3U	250mL plastic unpreserved
BP3B	250mL plastic NAOH
BP2S	500mL plastic H2SO4
BP2U	500mL plastic unpreserved

WO#: 30731734
PM: JPH Due Date: 11/27/24
CLIENT: MICROMETHOD

EZI	5g Encore
VOAK	Kit Volatile Solid
I	Wipe/Swab
ZPLC	Siploc Bag

WT	Water
SL	Solid
OL	Non-Aq Liquid
WP	Wipe

Qualtrax ID: 55678

APPENDIX C

FIELD SAMPLING DATA

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-2

Date: 3/13/24

Sampling Method: Pumped

Measured Well Depth: 84.5 ft

Static Water Level: 50.9 ft
(Depth to Water)

Maximum Drawdown Depth 54.26 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 33.6 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 542.50 ft

GW Elevation: 491.6 ft
(TOC Elevation - Static Water Level)

Well Volume: 21.84 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/13/24		16:10						
		1.5	16:17			3.45	19.3	6.77	207.5
			16:20			1.57	19.2	6.69	202.4
		2.75	16:23			3.03	19.2	6.70	200.5

Final Depth: 51.91'

Sample Time: 16:25

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.01 (SWL - Final Depth)

Drawdown/Water Column (%): 0.0301 (3.01%) (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

#REF!

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: OW-2
Date: 3/13/24
Sampling Method: Pumped
Measured Well Depth: 27.05 ft
Static Water Level: 11.07 ft
(Depth to Water)
Maximum Drawdown Depth 12.62 ft
(10% of WCH + SWL)

Well Diameter: 4 inches
Water Column Height: 16.03 ft
(Measured Well Depth - Static Water Level)
TOC Elevation[1]: 489.40 ft
GW Elevation: 478.38 ft
(TOC Elevation - Static Water Level)
Well Volume: 10.42 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/13/24		15:08						
		1.75	15:15			0.02	18.7	5.82	508.8
			15:18			0.02	18.1	5.71	503.8
			15:21			0.02	17.7	5.76	508
		3.0	15:24			0.02	17.5	5.68	499.4

Final Depth
12.25'

Sample Time: 15:25
Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.23 (SWL - Final Depth)
Drawdown/Water Column (%): 0.0767 (7.67%) (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

#REF!

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-12

Date: 3/13/24

Sampling Method: Pumped

Measured Well Depth: 19.09 ft

Static Water Level: 3.58 ft
(Depth to Water)

Maximum Drawdown Depth 5.13 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 15.51 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 474.19 ft

GW Elevation: 470.61 ft
(TOC Elevation - Static Water Level)

Well Volume: 10.08 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/13/24		13:50						
		2.0	13:56			115.0	17.6	6.06	438.4
			13:59			52.0	16.7	5.86	442.4
			14:02			46.5	16.4	5.82	439.6
			14:05			36.9	16.4	5.82	440.2
			14:08			68.1	16.6	5.78	427.9
			14:11			75.4	16.4	5.78	432.6
		4.0	14:14			59.9	16.2	5.82	440.3

Final Depth:
4.94'

Sample Time: 14:15

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.36 (SWL - Final Depth)

Drawdown/Water Column (%): 0.0877 (8.77%) (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

#REF!

pH, temp, and conductivity stabilized immediately.

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-3

Date: 3/13/24

Sampling Method: Pumped

Measured Well Depth: 53.00 ft

Static Water Level: 26.14 ft
(Depth to Water)

Maximum Drawdown Depth 28.83 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 26.86 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 504.78 ft

GW Elevation: 478.64 ft
(TOC Elevation - Static Water Level)

Well Volume: 17.46 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/13/24		13:02						
		2.02	13:10			1.49	19.3	6.07	529.6
			13:13			3.67	19.1	6.04	524.7
		3.02	13:16			1.19	18.8	6.07	521.4

Final Depth 27.33'

Sample Time: 13:18

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.19 (SWL - Final Depth)

Drawdown/Water Column (%): 0.0443 (4.43%) (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

#REF!

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-9

Date: 3/13/24

Sampling Method: Pumped

Measured Well Depth: 21.74 ft

Static Water Level: 7.58 ft
(Depth to Water)

Maximum Drawdown Depth 9.0 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 14.16 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 480.04 ft

GW Elevation: 472.46 ft
(TOC Elevation - Static Water Level)

Well Volume: 9.2 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/13/24		11:56						
		2.0	12:10			31.9	19.1	4.71	1033
			12:13			30	17.9	4.45	1027
			12:16			20.8	17.9	4.45	1019
			12:19			40.9	18.0	4.41	1032
			12:22			41.1	17.9	4.39	1030
			12:25			17.7	18.0	4.44	1029
			12:28			12.3	17.9	4.45	1035
			12:31			11.7	17.8	4.47	1031
		5.75	12:34			12.9	17.7	4.46	1033

Final Depth
8.47'

Sample Time: 12:35

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 0.89 (SWL - Final Depth)

Drawdown/Water Column (%): 0.0629 (6.29%) (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	within 5%
temperature:	<10 NTU or 10%
turbidity:	<5 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

re-Calibrated turbidity meter at 12:05

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-4
Date: 3/13/24
Sampling Method: Pumped
Measured Well Depth: 53.00 ft
Static Water Level: 24.81 ft
(Depth to Water)
Maximum Drawdown Depth 27.63 ft
(10% of WCH + SWL)

Well Diameter: 4 inches
Water Column Height: 28.19 ft
(Measured Well Depth - Static Water Level)
TOC Elevation[1]: 505.68 ft
GW Elevation: 480.87 ft
(TOC Elevation - Static Water Level)
Well Volume: 18.32 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/13/24		10:12						
		1.75	10:18			13.3	17.9	6.77	331.7
			10:21			1.77	17.7	6.55	327.8
			10:24			9.25	17.7	6.45	335
			10:27			19.2	17.7	6.54	333.5
			10:30			49.7	17.6	6.41	332.3
			10:33			57.2	17.8	6.54	331.6
			10:36			103	17.8	6.37	331
			10:39			110	18.1	6.46	330
			10:42			55.5	18.2	6.38	330.4
			10:45			28.8	18.3	6.42	330.2
			10:48			21.8	18.3	6.37	330
			10:51			17.4	18.3	6.38	328.4
			10:54			19.2	18.3	6.44	330.3
			10:57			15.3	18.2	6.37	330.4
			11:00			11.7	18.3	6.42	330.2
			11:03			20.4	18.4	6.37	329.4
			11:06			9.62	18.4	6.38	331.6
			11:09			26.4	18.4	6.36	331.3
			11:12			28	18.6	6.37	331.6
		9.0L	11:15			22.3	18.5	6.40	327.8
			18						
			6						

Final Depth: 26.73'

Sample Time: 11:19
Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.92 (SWL - Final Depth)
Drawdown/Water Column (%): 0.0681 (6.8%) (Total Drawdown / WCH)

Sampler Signature:

Temp, pH, and conductivity stabilized at ~10:42. Turbidity was <30NTU, but did not stabilize

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-14

Date: 03/13/24

Sampling Method: Pumped

Measured Well Depth: 60.97 ft

Static Water Level: 30.09 ft
(Depth to Water)

Maximum Drawdown Depth _____ ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 30.88 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 593.84 ft

GW Elevation: 563.75 ft
(TOC Elevation - Static Water Level)

Well Volume: 20.07 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	03/13/24		0936						

Did not Sample on 03/13/24. Plan to return on 3/14/24 with additional equipment for Sample collection.

Sample Time: _____

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): _____ (SWL - Final Depth)

Drawdown/Water Column (%): _____ (Total Drawdown / WCH)

Sampler Signature: M A Shelton

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

Notes: Pump Compressor connected and on but no flow generated. Pulled pump & tubing and identified a leak on the compressed air line. Unable to collect a sample with dedicated pump. Pump repair will be scheduled.

M A Shelton 3/13/24

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-14

Date: 03/14/24

Sampling Method: Pumped

Measured Well Depth: 60.97 ft

Static Water Level: 29.54 ft
(Depth to Water)

Maximum Drawdown Depth 32.68 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 31.43 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 593.84 ft

GW Elevation: 564.30 ft
(TOC Elevation - Static Water Level)

Well Volume: 20.42 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	3/14/24		09:09						
		5.0	09:30			0.02	19.3	4.78	120.4
			09:33			0.02	19.4	4.82	120.4
		6.0	09:36			0.02	19.3	4.79	120.5
					Final	Depth	30.97		

Sample Time: 0940

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): _____ (SWL - Final Depth)

Drawdown/Water Column (%): _____ (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

Notes. Returned to Choctaw Generation & sampled MW14 with a portable bladder pump. Stainless Steel Bladder pump was set approximately 5 feet off the bottom of the well & Low flow Low volume approach used for sample collection & well stabilization.

03/14/24

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-5

Date: 03/13/24

Sampling Method: Pumped

Measured Well Depth: 34.55 ft

Static Water Level: 6.93 ft
(Depth to Water)

Maximum Drawdown Depth 9.69 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 27.62 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 470.46 ft

GW Elevation: 463.53 ft
(TOC Elevation - Static Water Level)

Well Volume: 17.95 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time KAS	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	03/13/24		~~1415~~ 1510						
		1.5	1514			117	20.1	6.60	813.4
			1520			111	20.0	6.76	848.3
			1523			130	19.9	6.78	839.1
			1526			196	19.8	6.72	849.2
			1529			195	19.0	6.74	843.5
		4.0	1532			203	18.8	6.75	846.9
				Final Depth		7.11			

Sample Time: 1535

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): _____ (SWL - Final Depth)

Drawdown/Water Column (%): _____ (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-7

Date: 03/13/24

Sampling Method: Pumped

Measured Well Depth: 56.92 ft

Static Water Level: 34.57 ft
(Depth to Water)

Maximum Drawdown Depth 36.80 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 22.35 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 571.76 ft

GW Elevation: 537.19 ft
(TOC Elevation - Static Water Level)

Well Volume: 14.52 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	03/13/24		10:25						
		2.0	10:35			2.46	17.5	6.26	243.1
			10:38			1.72	17.5	6.26	237.1
		3.5	10:41			0.51	17.5	6.21	233.6
						Final Depth		35.17'	

Sample Time: 1045

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): _____ (SWL - Final Depth)

Drawdown/Water Column (%): _____ (Total Drawdown / WCH)

M. A. Shelton

Sampler Signature:

Duplicate & Field Blank taken at MW7.

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-13

Date: 03/13/24

Sampling Method: Pumped

Measured Well Depth: 106 ft

Static Water Level: 64.48 ft
(Depth to Water)

Maximum Drawdown Depth 68.63 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 41.52 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 584.48 ft

GW Elevation: 520.00 ft
(TOC Elevation - Static Water Level)

Well Volume: 26.98 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	03/13/24		1241						
		7.0	1317			0.02	21.0	6.81	235.8
			1320			0.02	20.1	6.73	263.1
			1323			0.02	20.0	6.71	262.0
		9.0	1326			0.02	20.0	6.74	263.7
					Final Depth 65.96				

Sample Time: 1330

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): _____ (SWL - Final Depth)

Drawdown/Water Column (%): _____ (Total Drawdown / WCH)

Mick A Shelton

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-2

Date: 5/21/24

Sampling Method: Pumped

Measured Well Depth: 84.5 ft

Static Water Level: 50.85 ft
(Depth to Water)

Maximum Drawdown Depth 54.22 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 33.65 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 542.50 ft

GW Elevation: 491.65 ft
(TOC Elevation - Static Water Level)

Well Volume: 21.87 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/21/24		9:02						
		1.0	9:08			9.94	22.3	7.63	258.8
			9:12			7.6	20.9	6.94	221.1
			9:16			6.16	22.1	7.03	219.3
			9:20			5.19	20.9	6.72	214.1
			9:24			2.61	20.4	6.75	214.2
		4.0	9:28			1.96	21.0	6.67	211.3

Final Depth: 52.41 ft

Sample Time: 9:30

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.56 (SWL - Final Depth)

Drawdown/Water Column (%): 4.64 % (Total Drawdown / WCH)

Sampler Signature: Tyler Epps

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-3

Date: 5/21/24

Well Diameter: 4 inches

Sampling Method: Pumped

Measured Well Depth: 53.00 ft

Static Water Level: 26.12 ft
(Depth to Water)

Maximum Drawdown Depth 28.81 ft
(10% of WCH + SWL)

Water Column Height: 26.88 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 504.78 ft

GW Elevation: 478.66 ft
(TOC Elevation - Static Water Level)

Well Volume: 17.47 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/21/24		10:05						
		1.75	10:09			4.17	20.9	6.64	455.6
			10:12			1.58	19.9	6.02	458.5
		~~Grab~~	10:15			3.02	19.9	6.03	454.8
		4.0	10:18			1.76	20.0	5.92	454.2

Final Depth: 27.56

Sample Time: 10:23

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.44 (SWL - Final Depth)

Drawdown/Water Column (%): 5.36 % (Total Drawdown / WCH)

Sampler Signature: Tyler Cagy

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-4

Date: 5/21/24

Sampling Method: Pumped

Measured Well Depth: 53.00 ft

Static Water Level: 25.42 ft
(Depth to Water)

Maximum Drawdown Depth [redacted] ft
(10% of WCH + SWL) 28.18

Well Diameter: 4 inches

Water Column Height: 27.58 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 505.68 ft

GW Elevation: 480.26 ft
(TOC Elevation - Static Water Level)

Well Volume: 17.93 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/21/24		4:20						
		1.0	4:25			31.7	22.4	6.36	309.8
			4:28			22.5	21.4	6.38	306.9
			4:31			14.48	20.8	6.46	302.2
			4:34			22.7	21.0	6.34	305.5
			4:37			69.2	21.4	6.46	300.7
			4:40			42.7	24.8	6.32	303.5
			4:43			17.95	20.9	6.42	304.2
		4.0	4:46			82.5	20.5	6.32	296.2

Final Depth: 26.46

Sample Time: 5:07

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.04 (SWL - Final Depth)

Drawdown/Water Column (%): 3.77 % (Total Drawdown / WCH)

Sampler Signature: [signature]

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-5

Date: 5/21/24

Sampling Method: Pumped

Measured Well Depth: 34.55 ft

Static Water Level: 7.28 ft
(Depth to Water)

Maximum Drawdown Depth 10.007 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 27.27 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 470.46 ft

GW Elevation: 463.18 ft
(TOC Elevation - Static Water Level)

Well Volume: 17.73 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/21/24		15:06						
		2.0	15:13			78.3	21.5	6.66	554
			15:16			87.3	19.6	6.63	555.6
			15:19			81.6	19.7	6.71	557.4
		4.0	15:22			82.1	20.0	6.76	556.8

Final Depth: 8.12'

Sample Time: 15:24

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 0.84 (SWL - Final Depth)

Drawdown/Water Column (%): 3.08% (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-7

Date: 5/21/24

Sampling Method: Pumped

Measured Well Depth: 56.92 ft

Static Water Level: 34.19 ft
(Depth to Water)

Maximum Drawdown Depth 36.46 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 22.73 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 571.76 ft

GW Elevation: 537.57 ft
(TOC Elevation - Static Water Level)

Well Volume: 14.77 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/21/24		12:34						
		2.0	12:40			2.78	19.2	6.07	227.4
			12:43			2.58	18.5	5.98	219.7
		3.5	12:46			2.54	18.7	6.03	221.2

Final Depth: 35.04'

Sample Time: 12:49

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 0.85 (SWL - Final Depth)

Drawdown/Water Column (%): 3.74 % (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-9

Date: 5/21/24

Sampling Method: Pumped

Measured Well Depth: 21.74 ft

Static Water Level: 8.78 ft
(Depth to Water)

Maximum Drawdown Depth 10.076 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 12.96 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 480.04 ft

GW Elevation: 471.26 ft
(TOC Elevation - Static Water Level)

Well Volume: 8.42 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/21/24		3:14						
		1.5	3:20			1.29	21.8	5.03	857.3
			3:23			1.24	20.3	5.01	922.7
		3	3:26			1.07	22.8	4.92	908.6

Final Depth: 9.30 ft

Sample Time: 3:44

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 0.52 (SWL - Final Depth)

Drawdown/Water Column (%): 4.01 % (Total Drawdown / WCH)

Sampler Signature: Tyler Lapp

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-12

Date: 5/21/24

Well Diameter: 4 inches

Water Column Height: 12.52 ft
(Measured Well Depth - Static Water Level)

Sampling Method: Pumped

Measured Well Depth: 19.09 ft

Static Water Level: 6.57 ft
(Depth to Water)

TOC Elevation[1]: 474.19 ft

GW Elevation: 467.62 ft
(TOC Elevation - Static Water Level)

Maximum Drawdown Depth 7.82 ft
(10% of WCH + SWL)

Well Volume: 8.14 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/21/24		11:14						
		1.75	11:19			17.10	21.7	6.00	503.0
			11:22			18.72	19.6	5.65	489.6
			11:25			11.11	20.0	5.75	491.3
			11:28			7.48	20.6	5.52	493.7
			11:31			6.97	20.8	5.73	492.6
			11:34			8.80	22.3	5.54	495.3
			11:37			11.22	25.5	5.61	500.6
		5.25	11:40			9.29	23.2	5.59	496.6

Final Depth: 8.07 ft (11:48)
let recharge 12:02, 7.80 ft

Sample Time: 12:04

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.23 (SWL - Final Depth)

Drawdown/Water Column (%): 9.82% (Total Drawdown / WCH)

Sampler Signature: Tyler Capps

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-13

Date: 5/21/24

Sampling Method: Pumped

Measured Well Depth: 106 ft

Static Water Level: 63.95 ft
(Depth to Water)

Maximum Drawdown Depth 68.15 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 42.05 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]**:** 584.48 ft

GW Elevation: 520.53 ft
(TOC Elevation - Static Water Level)

Well Volume: 27.33 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/21/24		15:57						
		2.0	16:06			3.19	22.5	7.01	265.3
			16:09			1.46	21.6	6.70	262.2
			16:12			1.05	21.7	6.71	262.2
		4.25	16:15			0.96	21.5	6.62	263.3

Final Depth: 64.81'

Sample Time: 16:21

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 0.86 (SWL - Final Depth)

Drawdown/Water Column (%): 2.05 % (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-14

Date: 5/21/24

Sampling Method: Pumped

Measured Well Depth: 60.97 ft

Static Water Level: 28.97 ft
(Depth to Water)

Maximum Drawdown Depth 32.17 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 32 ft
(Measured Well Depth - Static Water Level)

TOC Elevation[1]: 593.84 ft

GW Elevation: 564.87 ft
(TOC Elevation - Static Water Level)

Well Volume: 20.8 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/21/24		11:13						
		2.02	11:19			0.42	23.8	5.47	163.3
			11:22			0.39	22.0	4.95	148.5
			11:25			0.14	22.0	4.78	144.8
			11:28			0.17	21.4	4.82	145.4
			11:31			0.20	21.0	4.65	142.2
			11:34			0.15	21.3	4.71	142.7
			11:37			0.13	20.9	4.65	141.4

Final Depth: 30.23'

Field Blank Sampled at 11:58

Sample Time: 11:40

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.26 (SWL - Final Depth)

Drawdown/Water Column (%): 3.94% (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: OW-2

Date: 5/21/24

Well Diameter: 4 inches

Water Column Height: 15.84 ft
(Measured Well Depth - Static Water Level)

Sampling Method: Pumped

Measured Well Depth: 27.05 ft

Static Water Level: 11.21 ft
(Depth to Water)

TOC Elevation[1]: 489.40 ft

GW Elevation: 478.19 ft
(TOC Elevation - Static Water Level)

Maximum Drawdown Depth 12.79 ft
(10% of WCH + SWL)

Well Volume: 10.30 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	5/21/24		12:39						
		1.0	12:42			1.92	21.0	6.13	521.9
			12:45			1.70	20.0	5.54	502.0
			12:48			1.03	19.8	5.67	503.6
			12:51			0.84	19.6	5.46	504.9
			12:54			0.60	19.1	5.60	502.2
			12:57			0.48	19.4	5.50	497.1
		4.75	1:00			0.50	21.2	5.60	503.5

Final Depth = 13.26ft (1:03)
let recharge (4.58ft (2:32)

Sample Time: 2:35

Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Total Drawdown (ft): 1.37 (SWL - Final Depth)

Drawdown/Water Column (%): 8.65% (Total Drawdown / WCH)

Sampler Signature: Tyler Long

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-7

Date: 09-18-24

Sampling Method: Pumped

Measured Well Depth: 56.92 ft

Static Water Level: 35.00 ft
(Depth to Water)

Maximum Drawdown Depth 37.19 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 21.92 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 571.76 ft

GW Elevation: 536.76 ft
(TOC Elevation - Static Water Level)

Well Volume: 142.5 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	09-18-24		1414						
		2.0	1430			5.12	20.9	6.10	237.8
			1433			4.87	21.5	6.06	234.8
		3.0	1436		35.90'	3.03	21.6	6.01	229.9
			Final Depth to water = 35.90'						

Sample Time: 14:40

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 0.9 (SWL - Final Depth)

Drawdown/Water Column (%): 0.041 (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-13

Date: 09-18-24

Sampling Method: Pumped

Measured Well Depth: 106 ft

Static Water Level: 65.10 ft
(Depth to Water)

Maximum Drawdown Depth 69.19 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 40.90 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 584.48 ft

GW Elevation: 519.38 ft
(TOC Elevation - Static Water Level)

Well Volume: 26.58 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	09-18-24		3:21						
Pump Off		<0.5	3:26						

Sample Time: No Sample

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): _____ (SWL - Final Depth)

Drawdown/Water Column (%): _____ (Total Drawdown / WCH)

Sampler Signature: [signature]

Bladder Pump removed from MW13. Bladder appears to be damaged. No purge volume after couple cycles.

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-9

Date: 9/18/24

Well Diameter: 4 inches

Water Column Height: 13.76 ft
(Measured Well Depth - Static Water Level)

Sampling Method: Pumped

Measured Well Depth: 21.74 ft

Static Water Level: 7.98 ft
(Depth to Water)

TOC Elevation: 480.04 ft

GW Elevation: 472.06 ft
(TOC Elevation - Static Water Level)

Maximum Drawdown Depth 9.36 ft
(10% of WCH + SWL)

Well Volume: 8.944 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9/18/24		1410						
		1.5	1413			4.57	22.7	5.13	1306
			1417			4.61	22.3	4.86	1365
			1420			3.77	21.9	4.87	1368
		3	1423			2.54	21.8	4.79	1365

Final Depth: 8.78'

Sample Time: 1427

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 0.8 (SWL - Final Depth)

Drawdown/Water Column (%): 0.058 (Total Drawdown / WCH)

Sampler Signature: [signature]

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-3
Date: 9/18/24
Sampling Method: Pumped
Measured Well Depth: 53.00 ft
Static Water Level: 28.2 ft
(Depth to Water)
Maximum Drawdown Depth 30.68 ft
(10% of WCH + SWL)

Well Diameter: 4 inches
Water Column Height: 24.8 ft
(Measured Well Depth - Static Water Level)
TOC Elevation: 504.78 ft
GW Elevation: 476.58 ft
(TOC Elevation - Static Water Level)
Well Volume: 16.12 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9/18/24		1:08						
		1.0	1:11			24.5	22.1	6.47	405.0
			1:14			8.46	20.4	6.51	404.4
			1:17			24.0	21.4	6.28	393.7
			1:20			16.43	21.7	6.42	394.1
		4.0	1:23			21.16	23.0	6.21	390.9

Final Depth 29.45'

Sample Time: 1:29
Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.25 (SWL - Final Depth)
Drawdown/Water Column (%): 0.050 (Total Drawdown / WCH)

Sampler Signature: Tyler Lapp

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-2

Date: 9/18/24

Well Diameter: 4 inches

Water Column Height: 32.9 ft
(Measured Well Depth - Static Water Level)

Sampling Method: Pumped

Measured Well Depth: 84.5 ft

Static Water Level: 51.6 ft
(Depth to Water)

Maximum Drawdown Depth 54.89 ft
(10% of WCH + SWL)

TOC Elevation: 542.50 ft

GW Elevation: 490.9 ft
(TOC Elevation - Static Water Level)

Well Volume: 21.385 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9/18/24		~~1505~~ 1517						
		1.75	1521			14.68	24.0	6.63	264.6
			1525			21.6	22.2	6.65	235.0
			1529			17.13	22.0	6.83	235.8
		~~3.00~~	1533			11.44	24.0	6.64	234.4
		3.0	1537			12.58	21.8	6.78	235.8

Final Depth: 52.79

Sample Time: 1546

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.19 (SWL - Final Depth)

Drawdown/Water Column (%): 0.036 (Total Drawdown / WCH)

Sampler Signature: Tyler Lopp

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: OW-2

Date: 9/18/24

Sampling Method: Pumped

Measured Well Depth: 27.05 ft

Static Water Level: 7.7 ft
(Depth to Water)

Maximum Drawdown Depth 9.64 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 19.35 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 489.40 ft

GW Elevation: 481.7 ft
(TOC Elevation - Static Water Level)

Well Volume: 12.58 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9/18/24		1758						
		1.5	1802			0.81	19.8	5.90	538.0
			1805			0.80	19.2	5.49	553.2
			1808			0.66	19.2	5.52	555.9
			1811			0.90	19.1	5.46	553.1
		3.5	1814			0.54	19.4	5.54	554.8

Final Depth: 13.5' @ 1820
let recharge until 1902.
Final depth after recharge: 13.3'

Sample Time: 1903

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 5.6 (SWL - Final Depth)

Drawdown/Water Column (%): 0.29 (Total Drawdown / WCH)

Sampler Signature: [signature]

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

* made decision to sample after recharge. Very little recharge after 40+ minutes & at end of day

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-12

Date: 9/18/24

Sampling Method: Pumped

Measured Well Depth: 19.09 ft

Static Water Level: 12.25 ft
(Depth to Water)

Maximum Drawdown Depth 12.93 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 6.84 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 474.19 ft

GW Elevation: 461.94 ft
(TOC Elevation - Static Water Level)

Well Volume: 4.45 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9/18/24		1700						
		1.0	1705			55.2	23.1	6.15	357.5
			1708			37.5	22.1	6.36	365.1
			1711			31.2	22.2	6.10	365.9
			1714			25.1	22.3	6.20	365.3
			1717			15.28	22.2	6.08	366.5
			1720			14.28	23.5	6.18	366.3
		3.25	1723			11.76	24.3	6.01	367.2

Final Depth: 9.05'

Sample Time: 1730

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 3.2 (SWL - Final Depth)

Drawdown/Water Column (%): 0.47 (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-5

Date: 09-18-24

Sampling Method: Pumped

Measured Well Depth: 34.55 ft

Static Water Level: 7.57 ft
(Depth to Water)

Maximum Drawdown Depth 10.78 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 26.98 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 470.46 ft

GW Elevation: 462.84 ft
(TOC Elevation - Static Water Level)

Well Volume: 17.53 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	09-18-24		16:20						
		2.0	16:32			48.9	23.0	6.95	479.2
			16:35			37.4	23.1	6.89	476.8
			16:38			36.8	23.4	6.84	469.7
			16:41			30.7	23.0	6.81	480.2
	Final Depth to water 8:09'								

Sample Time: 16.45

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 0.52 (SWL - Final Depth)

Drawdown/Water Column (%): 0.019 (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: CCR-4

Date: 9/18/24

Sampling Method: Pumped

Measured Well Depth: 53.00 ft

Static Water Level: 25.9 ft
(Depth to Water)

Maximum Drawdown Depth 28.61 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 27.1 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 505.68 ft

GW Elevation: 479.78 ft
(TOC Elevation - Static Water Level)

Well Volume: 17.62 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	9-18-24		5:23						
		2.5	7:35			84.9	20.1	6.95	330.4
			1738			101.0	20.0	6.60	320.8
			1741			97.2	19.8	6.56	328.2
		3.5	1744			104.9	19.8	6.55	331.9
			Final Depth		26.91'				

Sample Time: 17:45

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.01 (SWL - Final Depth)

Drawdown/Water Column (%): 0.037 (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-14

Date: 09-18-24

Sampling Method: Pumped

Measured Well Depth: 60.97 ft

Static Water Level: 35.30 ft
(Depth to Water)

Maximum Drawdown Depth 37.86 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 25.67 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 593.84 ft

GW Elevation: 558.54 ft
(TOC Elevation - Static Water Level)

Well Volume: 16.68 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	09-18-24		11:21						
		2.0	11:31			0.00	22.7	4.61	141.1
			11:34			0.64	22.3	4.56	140.3
			11:37			0.55	22.4	4.53	139.9
		3.5	11:40			0.01	22.5	4.46	138.0
		Final Depth 36.01'							
		Field Blank: 12:22 @ MW-14							

Sample Time: 11:45

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 0.71 (SWL - Final Depth)

Drawdown/Water Column (%): 0.028 (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.
If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

CHOCTAW GENERATION AMU MONITOR WELLS
SEMI-ANNUAL ASSESSMENT MONITORING EVENT

Monitor Well: MW-13

Date: 10/30/24

Sampling Method: Pumped

Measured Well Depth: 106 ft

Static Water Level: 65.0 ft
(Depth to Water)

Maximum Drawdown Depth 69.1 ft
(10% of WCH + SWL)

Well Diameter: 4 inches

Water Column Height: 41.0 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 584.48 ft

GW Elevation: 519.48 ft
(TOC Elevation - Static Water Level)

Well Volume: 26.65 gal
(Water Column Height x Well Casing Volume Factor)

	Date	Volume Purged (L)	Time	Elapsed Time (min)	Water Level (ft)	Turbidity (NTU)	Temp (C)	pH	Conductivity (uS/cm)
Start Pump	10/30/24		1254						
		4.75	1317			1.61	22.3	6.66	218.8
			1321			1.57	21.8	6.69	226.6
		7.0	1325			1.06	21.6	6.71	225.0

Final Depth: 66.44'

Sample Time: 1331

Sample Analyzed for: Appendix III (Boron, Calcium, Chloride, Fluoride, Sulfate, & TDS). pH measured in the field. Appendix IV (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Molybdenum, Selenium, & Radium 226/228).

Total Drawdown (ft): 1.44 ft (SWL - Final Depth)

Drawdown Water Column (%): 4 % (Total Drawdown / WCH)

Sampler Signature:

If possible, total drawdown will not exceed 0.33 ft.

If drawdown exceeds 10% of water column height, flow will be stopped and well allowed to recover.

Well Stabilization	
pH:	0.1 standard units
conductivity:	within 5%
turbidity:	<10 NTU or 10%

Well Casing Volumes (gal/ft)			
1" = 0.041	1 1/2 " = 0.10	2" = 0.16	2 1/2" = 0.24
3" = 0.37	3 1/2" = 0.50	4" = 0.65	6" = 1.46
8" = 2.61	10" = 4.08	12" = 5.87	

APPENDIX D

2024 GROUNDWATER MONITORING SUMMARY

Choctaw Generation CCR Groundwater Results for Calendar Year 2024

Detection and Assessment Monitoring Results:

Detected

Detected above Prediction Limit

Detected above Prediction Limit and Groundwater Protection Standard (GWPS)

NS = Not Sampled

Antimony (Sb) Monitoring Results (mg/L)

	Monitoring Well															
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002
5/21/2024	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002
9/18/2024(1)	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002	<0.002	<0.002	NS	<0.002	NS	NS	NS	<0.002
10/30/2024(1)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.002	NS	NS	NS	NS	NS
Prediction Limit = 0.002, GWPS = 0.006																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Arsenic (As) Monitoring Results (mg/L)

	Monitoring Well															
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002
5/21/2024	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002
9/18/2024(1)	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002	<0.002	<0.002	NS	<0.002	NS	NS	NS	<0.002
10/30/2024(1)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.002	NS	NS	NS	NS	NS
Prediction Limit = 0.002, GWPS = 0.010																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Barium (Ba) Monitoring Results (mg/L)

	Monitoring Well															
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	0.102	0.086	0.131	0.124	NS	NS	NS	0.051	0.080	0.172	0.136	<0.010	NS	NS	NS	0.020
5/21/2024	0.12	0.072	0.152	0.093	NS	NS	NS	0.065	0.113	0.159	0.178	0.012	NS	NS	NS	0.027
9/18/2024(1)	0.127	0.063	0.16	0.127	NS	NS	NS	0.075	0.165	0.165	NS	0.013	NS	NS	NS	0.014
10/30/2024(1)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.174	NS	NS	NS	NS	NS
Prediction Limit = 0.2558, GWPS = 2																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Choctaw Generation CCR Groundwater Results for Calendar Year 2024

Beryllium (Be) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	0.00182	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
5/21/2024	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	0.00207	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
9/18/2024(1)	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	0.00145	<0.001	NS	<0.001	NS	NS	NS	<0.001
10/30/2024(1)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.001	NS	NS	NS	NS	NS
Prediction Limit = 0.001, GWPS = 0.004																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Boron (B) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.050	<0.050	<0.050	0.061	NS	NS	NS	<0.050	<0.050	<0.050	<0.050	<0.050	NS	NS	NS	<0.050
5/21/2024(1)	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
9/18/2024(2)	<0.050	<0.050	<0.050	0.080	NS	NS	NS	<0.050	<0.050	<0.050	NS	<0.050	NS	NS	NS	<0.050
10/30/2024(2)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.050	NS	NS	NS	NS	NS
Prediction Limit = 0.050																

(1) Appendix III constituent not required to be monitored during the annual monitoring event.

(2) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Calcium (Ca) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
Background Monitoring																
3/13-14/2024	13.4	33.5	20.9	88.8	NS	NS	NS	17.8	32.3	28.8	16.4	0.657	NS	NS	NS	36.2
5/21/2024(1)	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
9/18/2024(2)	14.7	20.4	23.9	43.4	NS	NS	NS	19.5	57.8	24.6	NS	0.716	NS	NS	NS	40.3
10/30/2024(2)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	19.2	NS	NS	NS	NS	NS
Prediction Limit = 85.8879																

(1) Appendix III constituent not required to be monitored during the annual monitoring event.

(2) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Choctaw Generation CCR Groundwater Results for Calendar Year 2024

Cadmium (Cd) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
5/21/2024	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
9/18/2024(1)	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	0.00108	<0.001	NS	<0.001	NS	NS	NS	<0.001
10/30/2024(1)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.001	NS	NS	NS	NS	NS
Prediction Limit = 0.001, GWPS = 0.005																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Chloride (Cl) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	2.08	5.78	9.12	7.64	NS	NS	NS	3.49	299	6.21	3.33	17.5	NS	NS	NS	82.6
5/21/2024(1)	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
9/18/2024(2)	2.29	4.54	6.85	4.82	NS	NS	NS	3.25	404	31.2	NS	17.1	NS	NS	NS	82.8
10/30/2024(2)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.71	NS	NS	NS	NS	NS
Prediction Limit = 26.6034																

(1) Appendix III constituent not required to be monitored during the annual monitoring event.

(2) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Chromium (Cr) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
5/21/2024	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
9/18/2024(1)	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	NS	<0.001	NS	NS	NS	<0.001
10/30/2024(1)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.001	NS	NS	NS	NS	NS
Prediction Limit = 0.001, GWPS = 0.1																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Choctaw Generation CCR Groundwater Results for Calendar Year 2024

Cobalt (Co) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.001	0.0119	0.0035	0.00623	NS	NS	NS	<0.001	0.0118	0.00288	<0.001	<0.001	NS	NS	NS	<0.001
5/21/2024	<0.001	0.0178	0.00278	0.00436	NS	NS	NS	0.00132	0.0141	0.0214	<0.001	<0.001	NS	NS	NS	<0.001
9/18/2024(1)	0.0024	0.00817	0.00276	0.0017	NS	NS	NS	0.00616	0.0241	0.00418	NS	<0.001	NS	NS	NS	<0.001
10/30/2024(1)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.001	NS	NS	NS	NS	NS
Prediction Limit = 0.001, GWPS = 0.006																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Fluoride (F) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.22	<0.22	<0.22	<0.22	NS	NS	NS	0.36	0.3	<0.22	<0.22	<0.22	NS	NS	NS	0.23
5/21/2024	<0.22	<0.22	<0.22	<0.22	NS	NS	NS	0.45	0.32	<0.22	<0.22	<0.22	NS	NS	NS	<0.22
9/18/2024(1)	<0.22	<0.22	<0.22	<0.22	NS	NS	NS	<0.22	<0.22	<0.22	NS	<0.22	NS	NS	NS	<0.22
10/30/2024(1)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.22	NS	NS	NS	NS	NS
Prediction Limit = 0.30, GWPS = 4.0																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Lead (Pb) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
5/21/2024	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
9/18/2024(1)	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	NS	<0.001	NS	NS	NS	<0.001
10/30/2024(1)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.001	NS	NS	NS	NS	NS
Prediction Limit = 0.001, GWPS = 0.015																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Choctaw Generation CCR Groundwater Results for Calendar Year 2024

Lithium (Li) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.040	0.087	<0.040	<0.040	NS	NS	NS	<0.040	0.043	<0.040	<0.040	<0.040	NS	NS	NS	<0.040
5/21/2024	<0.040	0.078	<0.040	<0.040	NS	NS	NS	<0.040	<0.040	<0.040	<0.040	<0.040	NS	NS	NS	<0.040
9/18/2024[1]	<0.040	0.052	<0.040	<0.040	NS	NS	NS	<0.040	0.053	<0.040	NS	<0.040	NS	NS	NS	<0.040
10/30/2024[1]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.040	NS	NS	NS	NS	NS
Prediction Limit = 0.050, GWPS = 0.050																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Mercury (Hg) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024[1]	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
5/21/2024	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002	<0.002	<0.002	<0.002	<0.002	NS	NS	NS	<0.002
9/18/2024[1][2]	-	-	-	-	NS	NS	NS	-	-	-	NS	-	NS	NS	NS	-
10/30/2024[1][2]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS	NS	NS	NS	NS
Prediction Limit = 0.002, GWPS = 0.002																

(1) Appendix IV constituent not required to be monitored during semiannual assessment monitoring.

(2) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Molybdenum (Mo) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
5/21/2024	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
9/18/2024[1]	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	NS	<0.001	NS	NS	NS	<0.001
10/30/2024[1]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.001	NS	NS	NS	NS	NS
Prediction Limit = 0.001, GWPS =0.100																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Choctaw Generation CCR Groundwater Results for Calendar Year 2024

Selenium (Se) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	<0.001	<0.001	<0.001	0.00209	NS	NS	NS	<0.001	0.00149	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
5/21/2024	<0.001	<0.001	<0.001	0.0023	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
9/18/2024[1]	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	0.00105	<0.001	NS	<0.001	NS	NS	NS	<0.001
10/30/2024[1]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<0.001	NS	NS	NS	NS	NS
Prediction Limit = 0.001, GWPS = 0.05																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Sulfate (SO4) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	11.6	179	28.4	240	NS	NS	NS	37.7	98.7	83.3	6.66	10.5	NS	NS	NS	118
5/21/2024[1]	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
9/18/2024[2]	11.1	65	16.5	102	NS	NS	NS	40.2	95.1	26.9	NS	7.24	NS	NS	NS	103
10/30/2024[2]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	7.09	NS	NS	NS	NS	NS
Prediction Limit = 44.8102																

(1) Appendix III constituent not required to be monitored during the annual monitoring event.

(2) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Thallium (Tl) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024[1]	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
5/21/2024	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001	<0.001	<0.001	<0.001	<0.001	NS	NS	NS	<0.001
9/18/2024[1][2]	-	-	-	-	NS	NS	NS	-	-	-	NS	-	NS	NS	NS	-
10/30/2024[1][2]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	-	NS	NS	NS	NS	NS
Prediction Limit = 0.001, GWPS = 0.002																

(1) Appendix IV constituent not required to be monitored during semi-annual assessment monitoring.

(2) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Choctaw Generation CCR Groundwater Results for Calendar Year 2024

Total Dissolved Solids (TDS) Monitoring Results (mg/L)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	115	419	182	613	NS	NS	NS	148	686	312	151	88	NS	NS	NS	368
5/21/2024[1]	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
9/18/2024[2]	118	215	187	338	NS	NS	NS	161	958	209	NS	93	NS	NS	NS	376
10/30/2024[2]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	142	NS	NS	NS	NS	NS
Prediction Limit = 320.8384																

(1) Appendix III constituent not required to be monitored during the annual monitoring event.

(2) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

pH Monitoring Results (S.U.)

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
3/13-14/2024	6.70	6.07	6.4	6.75	NS	NS	NS	6.21	4.46	5.72	6.74	4.79	NS	NS	NS	5.68
5/21/2024	6.67	5.92	6.32	6.76	NS	NS	NS	6.03	4.92	5.59	6.62	4.65	NS	NS	NS	5.60
9/18/2024[1]	6.78	6.21	6.55	6.81	NS	NS	NS	6.01	4.72	6.01	NS	4.46	NS	NS	NS	5.54
10/30/2024[1]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	6.71	NS	NS	NS	NS	NS
Prediction Limit = 3.77 – 9.97																

(1) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.

Radium 226 and 228 Combined (Ra) Monitoring Results (pCi/L) [1]

Monitoring Well																
Date	CCR-2	CCR-3	CCR-4	CCR-5	CCR-6	CCR-7	CCR-8	MW-7	MW-9	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	OW-2
	Down	Down	Down	Down/ Boundary	Mine Property	Mine Property	Mine Property	Up	Down	Down	Up	Up	Down	Down	MW16 Replacement Well/Down	Down
Assessment Monitoring																
3/13-14/2024	1.41	1.542	1.544	1.78	NS	NS	NS	1.43	1.55	1.59	1.46	1.74	NS	NS	NS	1.65
5/21/2024	2.253	1.804	1.926	1.949	NS	NS	NS	1.685	2.116	2.13	1.652	1.757	NS	NS	NS	1.898
9/18/2024[2]	2.28	1.631	1.526	1.731	NS	NS	NS	1.272	1.606	1.703	NS	1.270	NS	NS	NS	1.068
10/30/2024[2]	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1.676	NS	NS	NS	NS	NS
Prediction Limit = X, GWPS = 5 pCi/L																

(1) Per MS Dept. of Health (BJ Smith) and EPA guidance for drinking water standards, Radium 226/228 Combined is calculated by adding Radium 226 and Radium 228 Activity (Act) concentrations together if they are detected above the MDC; otherwise, the MDC is used.

(2) The bladder pump for MW-13 was observed damaged during the 9/18/2024 sampling event. The bladder pump was replaced and the well was sampled on 10/30/2024.