

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



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JANUARY 18, 2023

"FOR ALL YOUR ENVIRONMENTAL AND SAFETY CONSULTING NEEDS."

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1.0 INTRODUCTION

1.1 SITE DESCRIPTION AND REGULATORY APPLICABILITY

The Choctaw Generation Limited Partnership, LLLP (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 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 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 now 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 Web Site. 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 Web Site 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 Web Site 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

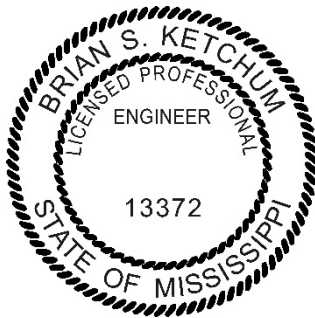
The undersigned Registered Professional Engineer is familiar with the requirements of 40 CFR Part 257, Subpart D and certifies that the Groundwater Monitoring and Corrective Action Annual Report was prepared under his/her direct supervision, in accordance with the requirements of 40 CFR 257.90 through 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.



1/18/2023

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

Date Signed



(Seal)

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 of February 6-7, 2018, Choctaw Generation triggered the Assessment Monitoring Program under §257.95. Choctaw Generation conducted the initial annual assessment monitoring event on May 15-16, 2018, 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. The subsequent annual monitoring for all Appendix IV constituents was conducted again on May 29-30, 2019. 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 2019 annual monitoring event. The next annual monitoring for all Appendix IV constituents was conducted on May 18, 2020, in which 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. The next annual monitoring for all Appendix IV constituents was conducted on May 26, 2021, and again 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 are included as part of this annual report. The next annual monitoring event was conducted on May 31, 2022, and no new Appendix IV constituents were detected requiring no new constituents to be monitored during subsequent semiannual monitoring events. The next semiannual event occurred on September 12-13, 2022, and the follow up semiannual event is planned for March 2023. All current Appendix IV constituents that are sampled during the semiannual assessment monitoring events are listed in Section 4.3.

If the concentrations of all constituents listed in Appendix III and Appendix IV are shown to be at or below background concentrations for two consecutive monitoring events, Choctaw Generation may return to detection monitoring. If the concentration of any Appendix III or IV constituent is verified to be above the background values, but all concentrations are below the GWPS, Choctaw Generation must continue assessment monitoring. If one or more Appendix IV constituents are detected at a statistically significant level (SSL) above the GWPS in any monitoring event, Choctaw Generation must implement correction actions. GWPS for all constituents detected during the initial and subsequent assessment monitoring events were established per the procedures in §257.95(h). 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 as 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 north-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. An additional downgradient well was added in August 2018 (CCR-5) and three more downgradient wells were installed in May 2019 (i.e., CCR-6, CCR-7, and CCR-8). Additionally, one downgradient well (MW-16) was replaced in May 2019 by MW-17 due to subsidence of the surface soils, which compromised the well integrity. In 2020, MW-15 and MW-17 were removed due to compromised well integrity and the wells located on the mine (i.e., CCR-6, CCR-7, and CCR-8) 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 and seven (7) downgradient wells. A map showing the monitoring well locations is included as Figure 2, and a summary of the current 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 Web Site.

Table 3-1: Groundwater Monitoring Wells

Well No.	Background or Down-gradient	Elevation* (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

*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 2022.

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 2022.

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	200.7	P	500mL	NA	6 months
Calcium	200.7	P	500mL	NA	6 months
Chloride	4110B	P	1000mL	NA	28 days
Fluoride	4500-F-C	P	1000mL	NA	28 days
pH	Measured and monitored in the field.				
Sulfate	4110B	P	1000mL	NA	28 days
TDS	2540C	P	1000mL	NA	7 days

Table 4-2: Appendix IV Constituents

40 CFR 257, Subpart D, Appendix IV					
Parameter	Analytical Method	Container		Preservative	Holding Time
Antimony	200.8	P	500mL	NA	6 months
Arsenic	200.8	P	500mL	NA	6 months
Barium	200.7	P	500mL	NA	6 months
Beryllium	200.8	P	500mL	NA	6 months
Cadmium	200.8	P	500mL	NA	6 months
Chromium	200.8	P	500mL	NA	6 months
Cobalt	200.8	P	500mL	NA	6 months
Fluoride	4500-F-C	P	1000mL	NA	28 days
Lead	200.8	P	500mL	NA	6 months
Lithium	200.7	P	500mL	NA	6 months
Mercury	245.1	P	500mL	NA	28 days
Molybdenum	200.8	P	500mL	NA	6 months
Selenium	200.8	P	500mL	NA	6 months

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

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 1,800 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.

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 north-northwest. Also, as noted during the background sampling period, groundwater elevation changed very little in each monitoring well sampled during the 2022 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 1.5 feet per year based on the 2022 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 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 23-24, 2022. 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-2, CCR-3, CCR-5, and MW-9
- Lithium: CCR-3, OW-2, and MW-9

The annual monitoring for all Appendix IV constituents, required by §257.95(b), was conducted May 31 – June 01, 2022. 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:

- Beryllium: MW-9
- Cobalt: CCR-2, CCR-3, MW-9, and MW-12
- Lithium: CCR-3 and MW-9

The next semiannual assessment monitoring event was conducted on September 12-13, 2022. The following Appendix IV constituents exceeded the GWPS at the well locations noted below for this monitoring event:

- Cobalt: CCR-2, CCR-3, and MW-9
- Lithium: CCR-3, CCR-5, MW-9, and OW-2

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	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	1.4	NNW
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	NNW
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	NNW
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	1.3	NNW
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	1.3	NNW
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	1.3	NNW
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	NNW
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	1.4	NNW
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	1.3	NNW
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	1.4	NNW
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	NNW
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	1.3	NNW
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	1.3	NNW
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	1.3	NNW
3/25-26/20 ⁽²⁾	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	NNW
5/18/20 ⁽²⁾	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	NNW
9/28/20 ⁽²⁾	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	NNW
3/15-16/21 ⁽²⁾	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	NNW
5/26/21 ⁽²⁾	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	NNW
9/8/21 ⁽²⁾	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	NNW
3/23-24/22 ⁽²⁾	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	NNW
5/31-6/1/22 ⁽²⁾	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	NNW
9/12-13/22 ⁽²⁾	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	NNW

- (1) TOC elevations were resurveyed on November 14, 2019 and groundwater elevations were revised using the correct TOC elevations.
- (2) Flow rate calculated using an average hydraulic gradient between MW-14 and CCR-2 as well as MW-13 and CCR-4.

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 successful 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 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

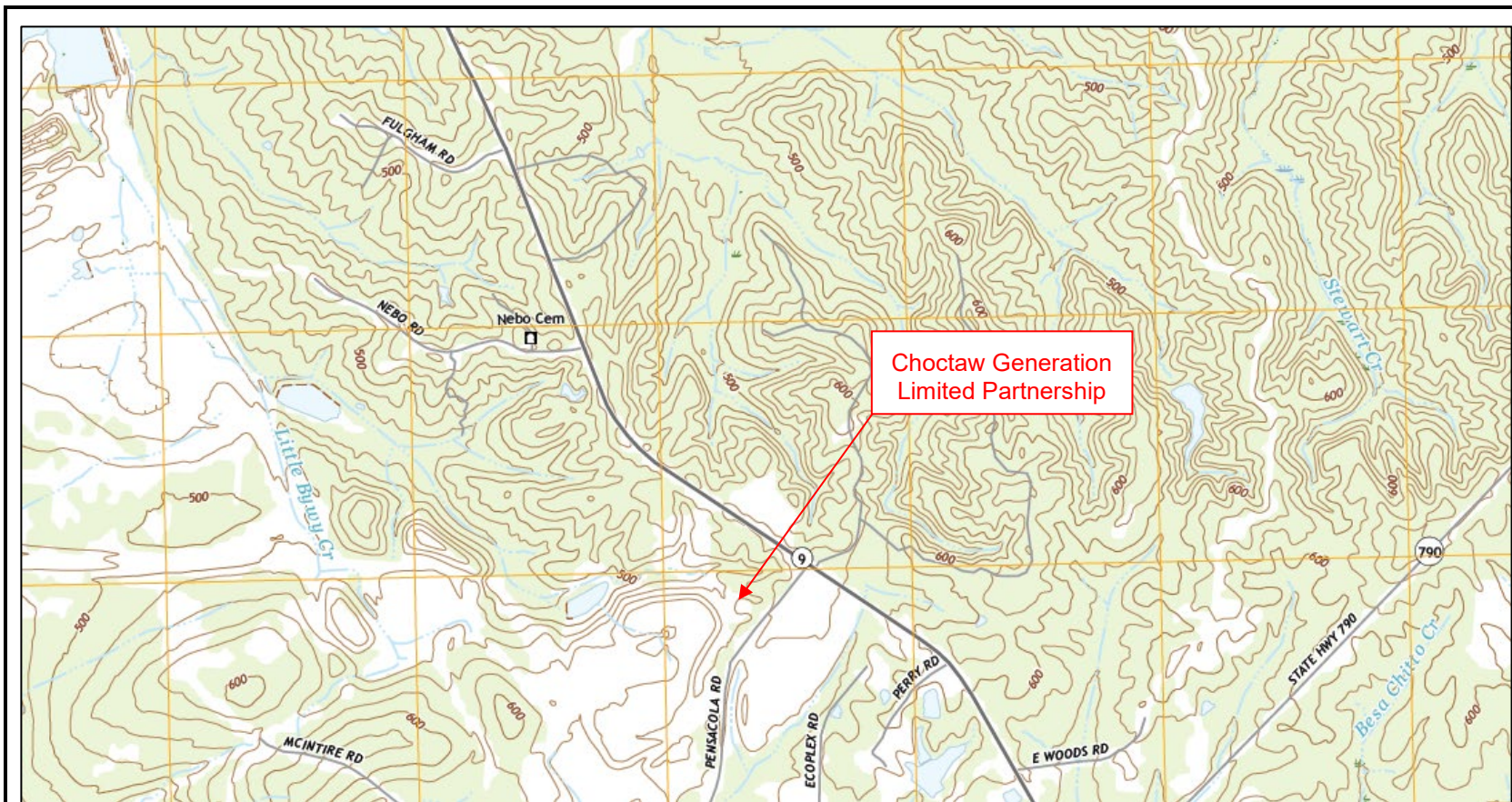
During the reporting period, two semiannual assessment monitoring events were conducted, revealing continued exceedances of the GWPS for cobalt, lithium, and beryllium. These constituent exceedances are detailed in the ASD. There were no new exceedances of the GWPS; therefore, assessment monitoring was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

6.2 KEY ACTIVITIES FOR UPCOMING YEAR

During calendar year 2023, 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.

FIGURE 1

SITE LOCATION MAP





<div></div> <div><u>Legend:</u></div> <div><u>Source:</u> USGS US Topo (12/30/2020)</div>	Drawn By: JEE	Checked By: BSK	<div></div> <div>P.O. Box 356 Sherman, Mississippi 38869 (662) 840-5945</div>
	Date: 1/12/2023	Scale: 1:24,000	
	Project No.:	Drawing No: N/A	
	Choctaw Generation Limited Partnership 2391 Pensacola Road Ackerman, Mississippi		

FIGURE 2

FACILITY DIAGRAM




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

Project No.:

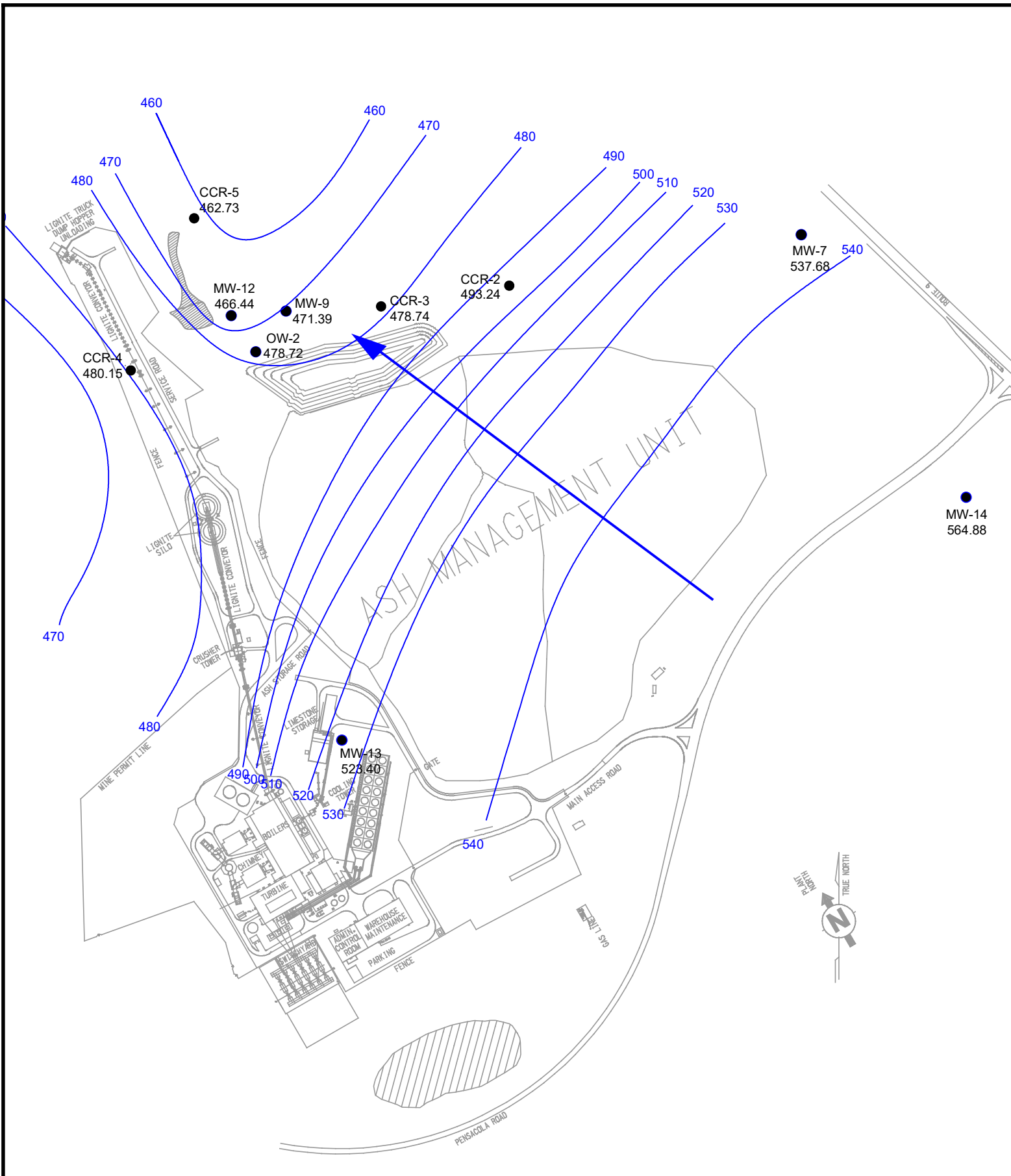
Legend:
Monitoring Well  MW-14
E=593.84

Scale: Not Determined
Drawn By: JTB Revised By: JEE
Date: 8/27/2018 Date: 1/20/2023

APPENDIX A

POTENTIOMETRIC SURFACE MAPS





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

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

Potentiometric Surface Map (May 2022 GW Event)

Figure 1

Project No.:

Legend:

Monitoring Well Designation
and Groundwater Elevation (feet)

Groundwater Elevation Contours (ft)

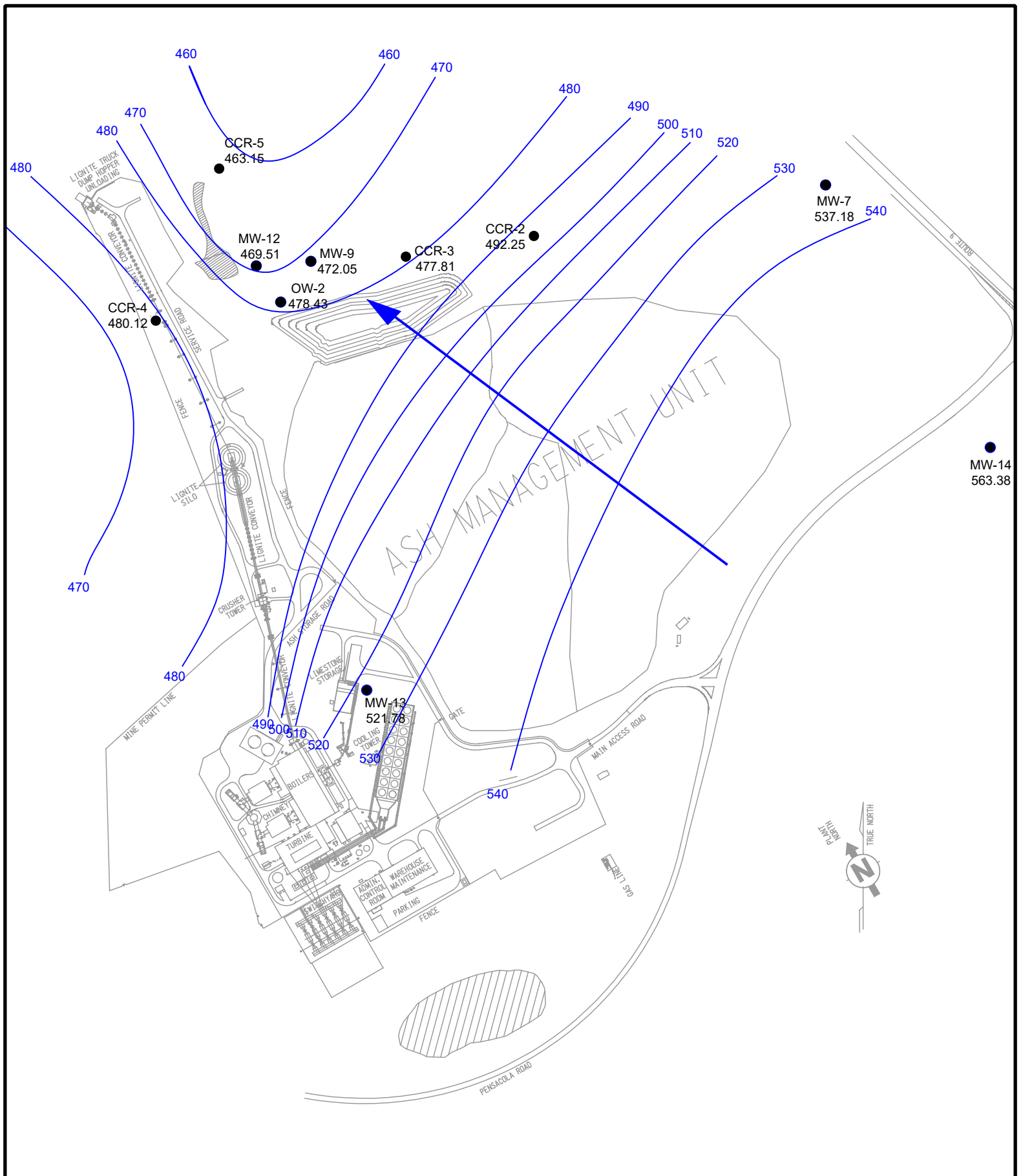
Scale: NTS

Drawn By: JEE

Date: 1/20/2023

MW-7
537.68

500



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

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

Potentiometric Surface Map (September 2022 GW Event)

Figure 1

Project No.:

Legend:

Monitoring Well Designation
and Groundwater Elevation (feet)

Groundwater Elevation Contours (ft)

● MW-7
537.18

— 500 —

Scale: NTS

Drawn By: JEE

Date: 1/20/2023

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 27, 2022

Jim Ward

Work Order # : 2203470

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman, MS 39735
RE: CGLP CCR Semi Annual

Purchase Order #: RDH16277 - Yr 2022

Enclosed are Micro-Methods Laboratory, Inc. results of analyses performed on samples received 03/25/2022 08:58. 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.

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim WardReported:
04/27/2022 10:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
MW-9	2203470-01	Water	03/23/2022 14:35	Kirk Shelton	03/25/2022 08:58
OW-2	2203470-02	Water	03/23/2022 11:20	Kirk Shelton	03/25/2022 08:58
MW-13	2203470-03	Water	03/24/2022 11:10	Kirk Shelton	03/25/2022 08:58
MW-7	2203470-04	Water	03/24/2022 15:20	Kirk Shelton	03/25/2022 08:58
MW-14	2203470-05	Water	03/24/2022 13:44	Kirk Shelton	03/25/2022 08:58
Field Blank	2203470-06	Water	03/24/2022 13:54	Kirk Shelton	03/25/2022 08:58
Duplicate	2203470-07	Water	03/23/2022 00:00	Kirk Shelton	03/25/2022 08:58
MW-12	2203470-08	Water	03/23/2022 10:58	Kirk Shelton	03/25/2022 08:58
CCR-2	2203470-09	Water	03/23/2022 13:32	Kirk Shelton	03/25/2022 08:58
CCR-3	2203470-10	Water	03/23/2022 15:52	Kirk Shelton	03/25/2022 08:58
CCR-4	2203470-11	Water	03/23/2022 16:55	Kirk Shelton	03/25/2022 08:58
CCR-5	2203470-12	Water	03/24/2022 12:17	Kirk Shelton	03/25/2022 08:58

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

Sample Receipt Conditions

Date/Time Received: 3/25/2022 8:58:00AM

Shipped by: Fed Ex

Received by: Sarah E. Tomek

Submitted by: Kirk Shelton

Date/Time Logged: 3/25/2022 9:35:00AM

Logged by: Sarah E. Tomek

Cooler ID: #324

Receipt Temperature: 0.4 °C

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

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

 Cooler ID: #400

 Receipt Temperature: 0.1 °C

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

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

 Cooler ID: #418

 Receipt Temperature: -0.1 °C

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

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward**Reported:**
04/27/2022 10:15**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:**

L1 LCS and/or LCSD Recovery Limit exceeded.

Barium 455.403 [Radial], Calcium 315.887 [Radial], Lithium 610.362 [Axial]
2C28025-BS1, 2C28026-BS1

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

MW-9
2203470-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
---------	--------	-----	-------	-----	-------	---------	--------------------------	--------------------------	--------	------------

Classical Chemistry Parameters

Fluoride	0.364	0.240	mg/L	1.0	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Chloride	361	10.0	"	20.0	2C30042	DLW	03/28/2022 08:30	03/28/2022 18:43	SM 4110B 2011	
Sulfate as SO4	215	100	"	"	"	DLW	"	03/30/2022 00:13	"	
Total Dissolved Solids	838	1	"	1.0	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.081	0.010	mg/L	1.0	2C28025	CLV	03/28/2022 09:30	03/29/2022 16:08	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	46.4	0.050	"	"	"	CLV	"	03/30/2022 16:31	"	
Lithium 610.362 [Axial]	0.076	0.040	"	"	"	CLV	"	03/29/2022 16:08	"	

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

Antimony [He]	ND	0.00200	mg/L	1.0	2C28023	SCH	"	03/29/2022 20:19	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	0.00370	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.0175	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

OW-2
2203470-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
---------	--------	-----	-------	-----	-------	---------	--------------------------	--------------------------	--------	------------

Classical Chemistry Parameters

Fluoride	0.243	0.240	mg/L	1.0	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Chloride	77.2	2.00	"	4.0	2C30042	DLW	03/28/2022 08:30	03/28/2022 14:58	SM 4110B 2011	
Sulfate as SO4	126	50.0	"	10.0	"	DLW	"	03/30/2022 00:45	"	
Total Dissolved Solids	361	1	"	1.0	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.050	0.010	mg/L	1.0	2C28025	CLV	03/28/2022 09:30	03/29/2022 16:19	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	41.2	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	2C28023	SCH	"	03/29/2022 20:37	EPA 200.8 Rev 5.4	
Arsenic [NG]	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 [NG]	ND	0.00500	"	"	"	SCH	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

MW-13
2203470-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
---------	--------	-----	-------	-----	-------	---------	--------------------------	--------------------------	--------	------------

Classical Chemistry Parameters

Chloride	3.76	0.500	mg/L	1.0	2C30042	DLW	03/28/2022 08:30	03/28/2022 15:32	SM 4110B 2011	
Fluoride	ND	0.240	"	"	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Sulfate as SO ₄	7.06	5.00	"	"	2C30042	DLW	03/28/2022 08:30	03/30/2022 01:16	SM 4110B 2011	
Total Dissolved Solids	160	1	"	"	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.189	0.010	mg/L	1.0	2C28025	CLV	03/28/2022 09:30	03/29/2022 16:23	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	21.7	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	2C28023	SCH	"	03/29/2022 21:01	EPA 200.8 Rev 5.4	
Arsenic [NG]	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 [NG]	ND	0.00500	"	"	"	SCH	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

MW-7
2203470-04 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	3.19	0.500	mg/L	1.0	2C30042	DLW	03/28/2022 08:30	03/28/2022 19:47	SM 4110B 2011	
Fluoride	0.247	0.240	"	"	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Sulfate as SO4	48.7	20.0	"	4.0	2C30042	DLW	03/28/2022 08:30	03/30/2022 03:24	SM 4110B 2011	
Total Dissolved Solids	166	1	"	1.0	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.076	0.010	mg/L	1.0	2C28025	CLV	03/28/2022 09:30	03/29/2022 16:26	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	31.5	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	2C28023	SCH	"	03/29/2022 21:08	EPA 200.8 Rev 5.4	
Arsenic [NG]	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 [NG]	ND	0.00500	"	"	"	SCH	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

MW-14
2203470-05 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Fluoride	ND	0.240	mg/L	1.0	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Chloride	19.5	0.500	"	"	2C30042	DLW	03/28/2022 08:30	03/28/2022 20:51	SM 4110B 2011	
Sulfate as SO ₄	13.1	5.00	"	"	"	DLW	"	03/30/2022 04:28	"	
Total Dissolved Solids	91	1	"	"	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.013	0.010	mg/L	1.0	2C28025	CLV	03/28/2022 09:30	03/29/2022 16:30	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	0.645	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	2C28023	SCH	"	03/29/2022 21:14	EPA 200.8 Rev 5.4	
Arsenic [NG]	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 [NG]	ND	0.00500	"	"	"	SCH	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

Field Blank
2203470-06 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Fluoride	ND	0.240	mg/L	1.0	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Chloride	4.29	0.500	"	"	2C30042	DLW	03/28/2022 08:30	03/28/2022 21:23	SM 4110B 2011	
Sulfate as SO4	14.8	5.00	"	"	"	DLW	"	03/30/2022 05:00	"	
Total Dissolved Solids	ND	1	"	"	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	ND	0.010	mg/L	1.0	2C28025	CLV	03/28/2022 09:30	03/29/2022 16:34	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	0.279	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	2C28023	SCH	"	03/29/2022 21:20	EPA 200.8 Rev 5.4	
Arsenic [NG]	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 [NG]	ND	0.00500	"	"	"	SCH	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

Duplicate
2203470-07 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	19.0	0.500	mg/L	1.0	2C30042	DLW	03/28/2022 08:30	03/28/2022 21:55	SM 4110B 2011	
Fluoride	ND	0.240	"	"	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Sulfate as SO ₄	12.5	5.00	"	"	2C30042	DLW	03/28/2022 08:30	03/30/2022 05:32	SM 4110B 2011	
Total Dissolved Solids	93	1	"	"	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.013	0.010	mg/L	1.0	2C28025	CLV	03/28/2022 09:30	03/29/2022 16:37	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	0.645	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	2C28023	SCH	"	03/29/2022 21:26	EPA 200.8 Rev 5.4	
Arsenic [NG]	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 [NG]	ND	0.00500	"	"	"	SCH	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

MW-12
2203470-08 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	62.8	2.50	mg/L	5.0	2C30042	DLW	03/28/2022 08:30	03/30/2022 06:04	SM 4110B 2011	
Fluoride	ND	0.240	"	1.0	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Sulfate as SO ₄	98.8	25.0	"	5.0	2C30042	DLW	03/28/2022 08:30	03/30/2022 06:04	SM 4110B 2011	
Total Dissolved Solids	327	1	"	1.0	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.236	0.010	mg/L	1.0	2C28025	CLV	03/28/2022 09:30	03/29/2022 16:41	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	33.8	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	2C28023	SCH	"	03/29/2022 21:32	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.00339	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

CCR-2
2203470-09 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	2.53	0.500	mg/L	1.0	2C30042	DLW	03/28/2022 08:30	03/28/2022 23:30	SM 4110B 2011	
Fluoride	ND	0.240	"	"	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Sulfate as SO ₄	12.2	5.00	"	"	2C30042	DLW	03/28/2022 08:30	03/30/2022 06:36	SM 4110B 2011	
Total Dissolved Solids	128	1	"	"	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.161	0.010	mg/L	1.0	2C28025	CLV	03/28/2022 09:30	03/29/2022 16:44	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	16.5	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	2C28023	SCH	"	03/29/2022 21:39	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.00650	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

CCR-3
2203470-10 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	4.59	0.500	mg/L	1.0	2C30042	DLW	03/28/2022 08:30	03/29/2022 01:06	SM 4110B 2011	
Fluoride	ND	0.240	"	"	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Sulfate as SO ₄	369	250	"	50.0	2C30042	DLW	03/28/2022 08:30	03/30/2022 07:07	SM 4110B 2011	
Total Dissolved Solids	495	1	"	1.0	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.078	0.010	mg/L	1.0	2C28025	CLV	03/28/2022 09:30	03/29/2022 16:48	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	39.7	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	0.131	0.040	"	"	"	CLV	"	"	"	

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

Antimony [He]	ND	0.00200	mg/L	1.0	2C28023	SCH	"	03/29/2022 21:45	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.0259	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

CCR-4
2203470-11 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	8.06	0.500	mg/L	1.0	2C30042	DLW	03/28/2022 08:30	03/29/2022 02:10	SM 4110B 2011	
Fluoride	ND	0.240	"	"	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Sulfate as SO4	30.3	10.0	"	2.0	2C30042	DLW	03/28/2022 08:30	03/30/2022 07:39	SM 4110B 2011	
Total Dissolved Solids	203	1	"	1.0	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.176	0.010	mg/L	1.0	2C28026	CLV	03/28/2022 09:30	03/29/2022 17:43	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	26.5	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	2C28023	SCH	"	03/29/2022 21:51	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.00434	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

CCR-5
2203470-12 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Fluoride	ND	0.240	mg/L	1.0	2C28032	SSK	03/28/2022 10:00	03/28/2022 12:15	SM 4500-F D-2011	
Chloride	6.06	0.500	"	"	2C30042	DLW	03/28/2022 08:30	03/29/2022 02:42	SM 4110B 2011	
Sulfate as SO ₄	612	250	"	50.0	"	DLW	"	03/30/2022 08:11	"	
Total Dissolved Solids	851	1	"	1.0	2C25017	DLW	03/25/2022 10:30	03/29/2022 00:00	SM 2540 C-2011	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.086	0.010	mg/L	1.0	2C28026	CLV	03/28/2022 09:30	03/29/2022 17:47	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	0.096	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	115	0.250	"	5.0	"	CLV	"	03/30/2022 16:28	"	
Lithium 610.362 [Axial]	ND	0.040	"	1.0	"	CLV	"	03/29/2022 17:47	"	

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

Antimony [He]	ND	0.00200	mg/L	1.0	2C28023	SCH	"	03/29/2022 22:10	EPA 200.8 Rev 5.4	
Arsenic [NG]	0.00412	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.0125	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	



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:
04/27/2022 10:15

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 2C25017 - Default Prep GenChem											
Blank (2C25017-BLK1)											
Total Dissolved Solids	3/29/22 0:00	ND	1	mg/L							
LCS (2C25017-BS1)											
Total Dissolved Solids	3/29/22 0:00	115	1	mg/L	150		76.7	65-105			
LCS Dup (2C25017-BSD1)											
Total Dissolved Solids	3/29/22 0:00	110	1	mg/L	150		73.3	65-105	4.44	15	
Duplicate (2C25017-DUP1) Source: 2203450-03											
Total Dissolved Solids	3/29/22 0:00	1769	1	mg/L		1776			0.395	10	
Duplicate (2C25017-DUP2) Source: 2203470-12											
Total Dissolved Solids	3/29/22 0:00	853	1	mg/L		851			0.235	10	
Batch 2C28032 - Default Prep GenChem											
Blank (2C28032-BLK1)											
Fluoride	3/28/22 12:15	ND	0.240	mg/L							
LCS (2C28032-BS1)											
Fluoride	3/28/22 12:15	2.03	0.240	mg/L	2.00		102	83.3-107			
LCS Dup (2C28032-BSD1)											
Fluoride	3/28/22 12:15	2.01	0.240	mg/L	2.00		101	83.3-107	0.990	30	
Duplicate (2C28032-DUP1) Source: 2203470-01											
Fluoride	3/28/22 12:15	0.353	0.240	mg/L		0.364			3.07	20	

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

 Reported:
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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 2C28032 - Default Prep GenChem											
Matrix Spike (2C28032-MS1)						Source: 2203470-01					
Fluoride	3/28/22 12:15	6.36	0.240	mg/L	6.00	0.364	99.9	79.3-113			
Matrix Spike Dup (2C28032-MSD1)						Source: 2203470-01					
Fluoride	3/28/22 12:15	6.79	0.240	mg/L	6.00	0.364	107	79.3-113	6.54	30	
Batch 2C30042 - Default Prep GenChem											
Blank (2C30042-BLK1)											
Chloride	3/28/22 10:37	ND	0.500	mg/L							
Sulfate as SO4	4/1/22 12:11	ND	5.00	"							
Blank (2C30042-BLK2)											
Chloride	3/29/22 7:29	ND	0.500	mg/L							
Sulfate as SO4	3/29/22 7:29	ND	5.00	"							
LCS (2C30042-BS1)											
Chloride	3/28/22 9:33	10.3	0.500	mg/L	10.0		103	86.3-109			
Sulfate as SO4	4/1/22 12:11	10.3	5.00	"	10.0		103	88-108			
LCS (2C30042-BS2)											
Chloride	3/29/22 6:25	10.4	0.500	mg/L	10.0		104	86.3-109			
Sulfate as SO4	4/1/22 12:00	10.1	5.00	"	10.0		101	88-108			
LCS Dup (2C30042-BSD1)											
Chloride	3/28/22 10:05	10.4	0.500	mg/L	10.0		104	86.3-109	0.977	20	
Sulfate as SO4	4/1/22 12:11	ND	5.00	"	10.0			88-108	200	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:
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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 2C30042 - Default Prep GenChem											
LCS Dup (2C30042-BSD2)											
Chloride	3/29/22 6:57	10.4	0.500	mg/L	10.0		104	86.3-109	0.00	20	
Sulfate as SO ₄	3/29/22 6:57	10.1	5.00	"	10.0		101	88-108	0.00396	20	
Duplicate (2C30042-DUP1) Source: 2203470-03											
Chloride	3/28/22 16:04	3.76	0.500	mg/L		3.76			0.0266	20	
Sulfate as SO ₄	4/1/22 12:11	ND	5.00	"		7.06			200	20	
Duplicate (2C30042-DUP2) Source: 2203470-03											
Chloride	3/30/22 1:48	3.88	0.500	mg/L		3.76			3.29	20	
Sulfate as SO ₄	3/30/22 1:48	7.09	5.00	"		7.06			0.410	20	
Matrix Spike (2C30042-MS1) Source: 2203470-03											
Chloride	3/28/22 16:36	16.6	0.500	mg/L	12.0	3.76	107	76.2-122			
Sulfate as SO ₄	4/1/22 12:11	ND	5.00	"	12.0	7.06	NR	74.1-129			
Matrix Spike (2C30042-MS2) Source: 2203470-03											
Chloride	3/30/22 2:20	17.2	0.500	mg/L	12.0	3.76	112	76.2-122			
Sulfate as SO ₄	3/30/22 2:20	17.7	5.00	"	12.0	7.06	88.4	74.1-129			
Matrix Spike Dup (2C30042-MSD1) Source: 2203470-03											
Chloride	3/28/22 17:07	17.9	0.500	mg/L	12.0	3.76	117	76.2-122	7.12	20	
Sulfate as SO ₄	4/1/22 12:11	ND	5.00	"	12.0	7.06	NR	74.1-129		20	
Matrix Spike Dup (2C30042-MSD2) Source: 2203470-03											
Chloride	3/30/22 2:52	16.9	0.500	mg/L	12.0	3.76	110	76.2-122	1.42	20	
Sulfate as SO ₄	3/30/22 2:52	18.7	5.00	"	12.0	7.06	96.9	74.1-129	5.65	20	



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Project: CGLP CCR Semi Annual
Project Number: [none]
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 2C31009 - Default Prep GenChem											
Blank (2C31009-BLK1)											
Chloride	3/29/22 7:29	ND	0.500	mg/L							
Blank (2C31009-BLK2)											
Chloride	3/30/22 12:26	ND	0.500	mg/L							
Duplicate (2C31009-DUP1) Source: 2203470-03											
Chloride	3/28/22 16:04	3.76	0.500	mg/L		3.76			0.0266	20	
Sulfate as SO4	3/28/22 16:04	6.85	5.00	"		7.06			3.11	20	



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Project Manager: Jim Ward

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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 2C28025 - EPA 200.2 DCN 1017 Rev 10											
Blank (2C28025-BLK1)											
Barium 455.403 [Radial]	3/29/22 15:57	ND	0.010	mg/L							
Boron 249.773 [Radial]	3/29/22 15:57	ND	0.050	"							
Calcium 315.887 [Radial]	3/29/22 15:57	ND	0.050	"							
Lithium 610.362 [Axial]	3/29/22 15:57	ND	0.040	"							
LCS (2C28025-BS1)											
Barium 455.403 [Radial]	3/29/22 16:01	0.239	0.010	mg/L	0.200		119	85-115			L1
Boron 249.773 [Radial]	3/29/22 16:01	0.228	0.050	"	0.200		114	85-115			
Calcium 315.887 [Radial]	3/29/22 16:01	0.239	0.050	"	0.200		120	85-115			L1
Lithium 610.362 [Axial]	3/29/22 16:01	0.467	0.040	"	0.400		117	85-115			L1
LCS Dup (2C28025-BSD1)											
Barium 455.403 [Radial]	3/29/22 16:04	0.227	0.010	mg/L	0.200		114	85-115	4.85	20	
Boron 249.773 [Radial]	3/29/22 16:04	0.222	0.050	"	0.200		111	85-115	2.84	20	
Calcium 315.887 [Radial]	3/29/22 16:04	0.230	0.050	"	0.200		115	85-115	4.09	20	
Lithium 610.362 [Axial]	3/29/22 16:04	0.451	0.040	"	0.400		113	85-115	3.62	20	
Duplicate (2C28025-DUP1) Source: 2203470-01											
Calcium 315.887 [Radial]	3/30/22 16:35	44.3	0.050	mg/L		46.4			4.55	20	
Matrix Spike (2C28025-MS1) Source: 2203470-01											
Barium 455.403 [Radial]	3/29/22 16:12	0.295	0.010	mg/L	0.200	0.081	107	70-130			
Boron 249.773 [Radial]	3/29/22 16:12	0.231	0.050	"	0.200	0.016	107	70-130			
Lithium 610.362 [Axial]	3/29/22 16:12	0.482	0.040	"	0.400	0.076	102	70-130			
Matrix Spike Dup (2C28025-MSD1) Source: 2203470-01											
Barium 455.403 [Radial]	3/29/22 16:15	0.298	0.010	mg/L	0.200	0.081	108	70-130	1.07	20	
Boron 249.773 [Radial]	3/29/22 16:15	0.231	0.050	"	0.200	0.016	107	70-130	0.112	20	
Lithium 610.362 [Axial]	3/29/22 16:15	0.471	0.040	"	0.400	0.076	98.7	70-130	2.40	20	



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Project Manager: Jim Ward

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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 2C28026 - EPA 200.2 DCN 1017 Rev 10											
Blank (2C28026-BLK1)											
Barium 455.403 [Radial]	3/29/22 15:57	ND	0.010	mg/L							
Boron 249.773 [Radial]	3/29/22 15:57	ND	0.050	"							
Calcium 315.887 [Radial]	3/29/22 15:57	ND	0.050	"							
Lithium 610.362 [Axial]	3/29/22 15:57	ND	0.040	"							
LCS (2C28026-BS1)											
Barium 455.403 [Radial]	3/29/22 16:01	0.239	0.010	mg/L	0.200		119	85-115			L1
Boron 249.773 [Radial]	3/29/22 16:01	0.228	0.050	"	0.200		114	85-115			
Calcium 315.887 [Radial]	3/29/22 16:01	0.239	0.050	"	0.200		120	85-115			L1
Lithium 610.362 [Axial]	3/29/22 16:01	0.467	0.040	"	0.400		117	85-115			L1
LCS Dup (2C28026-BSD1)											
Barium 455.403 [Radial]	3/29/22 16:04	0.227	0.010	mg/L	0.200		114	85-115	4.85	20	
Boron 249.773 [Radial]	3/29/22 16:04	0.222	0.050	"	0.200		111	85-115	2.84	20	
Calcium 315.887 [Radial]	3/29/22 16:04	0.230	0.050	"	0.200		115	85-115	4.09	20	
Lithium 610.362 [Axial]	3/29/22 16:04	0.451	0.040	"	0.400		113	85-115	3.62	20	
Matrix Spike (2C28026-MS1) Source: 2203459-02											
Barium 455.403 [Radial]	3/29/22 17:36	0.218	0.010	mg/L	0.200	0.0003	109	70-130			
Boron 249.773 [Radial]	3/29/22 17:36	0.219	0.050	"	0.200	0.009	105	70-130			
Calcium 315.887 [Radial]	3/29/22 17:36	0.278	0.050	"	0.200	0.067	105	70-130			
Lithium 610.362 [Axial]	3/29/22 17:36	0.427	0.040	"	0.400	ND	107	70-130			
Matrix Spike Dup (2C28026-MSD1) Source: 2203459-02											
Barium 455.403 [Radial]	3/29/22 17:39	0.219	0.010	mg/L	0.200	0.0003	110	70-130	0.651	20	
Boron 249.773 [Radial]	3/29/22 17:39	0.216	0.050	"	0.200	0.009	103	70-130	1.50	20	
Calcium 315.887 [Radial]	3/29/22 17:39	0.270	0.050	"	0.200	0.067	101	70-130	2.81	20	
Lithium 610.362 [Axial]	3/29/22 17:39	0.425	0.040	"	0.400	ND	106	70-130	0.492	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 2C28023 - EPA 200.2 DCN 1017 Rev 10											
Blank (2C28023-BLK1)											
Antimony [He]	3/29/22 20:00	ND	0.00200	mg/L							
Arsenic [NG]	3/29/22 20:00	ND	0.00200	"							
Arsenic [He]	3/29/22 20:00	ND	0.00200	"							
Beryllium [He]	3/29/22 20:00	ND	0.00100	"							
Cadmium [He]	3/29/22 20:00	ND	0.00100	"							
Chromium [He]	3/29/22 20:00	ND	0.00100	"							
Cobalt [He]	3/29/22 20:00	ND	0.00100	"							
Lead [He]	3/29/22 20:00	ND	0.00100	"							
Molybdenum [He]	3/29/22 20:00	ND	0.00100	"							
Selenium [He]	3/29/22 20:00	ND	0.00100	"							
Selenium [NG]	3/29/22 20:00	ND	0.00500	"							
LCS (2C28023-BS1)											
Antimony [He]	3/29/22 20:06	0.110	0.00200	mg/L	0.100		110	85-115			
Arsenic [NG]	3/29/22 20:06	0.106	0.00200	"	0.100		106	85-115			
Arsenic [He]	3/29/22 20:06	0.109	0.00200	"	0.100		109	85-115			
Beryllium [He]	3/29/22 20:06	0.109	0.00100	"	0.100		109	85-115			
Cadmium [He]	3/29/22 20:06	0.111	0.00100	"	0.100		111	85-115			
Chromium [He]	3/29/22 20:06	0.109	0.00100	"	0.100		109	85-115			
Cobalt [He]	3/29/22 20:06	0.109	0.00100	"	0.100		109	85-115			
Lead [He]	3/29/22 20:06	0.106	0.00100	"	0.100		106	85-115			
Molybdenum [He]	3/29/22 20:06	0.107	0.00100	"	0.100		107	85-115			
Selenium [NG]	3/29/22 20:06	0.107	0.00500	"	0.100		107	85-115			
Selenium [He]	3/29/22 20:06	0.107	0.00100	"	0.100		107	85-115			
LCS Dup (2C28023-BSD1)											
Antimony [He]	3/29/22 20:13	0.108	0.00200	mg/L	0.100		108	85-115	1.36	20	
Arsenic [He]	3/29/22 20:13	0.106	0.00200	"	0.100		106	85-115	2.42	20	
Arsenic [NG]	3/29/22 20:13	0.106	0.00200	"	0.100		106	85-115	0.422	20	
Beryllium [He]	3/29/22 20:13	0.108	0.00100	"	0.100		108	85-115	0.984	20	
Cadmium [He]	3/29/22 20:13	0.109	0.00100	"	0.100		109	85-115	1.21	20	
Chromium [He]	3/29/22 20:13	0.107	0.00100	"	0.100		107	85-115	1.58	20	
Cobalt [He]	3/29/22 20:13	0.108	0.00100	"	0.100		108	85-115	0.501	20	
Lead [He]	3/29/22 20:13	0.105	0.00100	"	0.100		105	85-115	1.40	20	
Molybdenum [He]	3/29/22 20:13	0.106	0.00100	"	0.100		106	85-115	1.20	20	
Selenium [He]	3/29/22 20:13	0.106	0.00100	"	0.100		106	85-115	0.263	20	
Selenium [NG]	3/29/22 20:13	0.106	0.00500	"	0.100		106	85-115	0.897	20	

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

 Reported:
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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 2C28023 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (2C28023-MS1)						Source: 2203470-01					
Antimony [He]	3/29/22 20:25	0.110	0.00200	mg/L	0.100	ND	110	70-130			
Arsenic [He]	3/29/22 20:25	0.107	0.00200	"	0.100	0.0003	106	70-130			
Arsenic [NG]	3/29/22 20:25	0.104	0.00200	"	0.100	ND	104	70-130			
Beryllium [He]	3/29/22 20:25	0.111	0.00100	"	0.100	0.004	107	70-130			
Cadmium [He]	3/29/22 20:25	0.103	0.00100	"	0.100	0.0006	102	70-130			
Chromium [He]	3/29/22 20:25	0.101	0.00100	"	0.100	ND	101	70-130			
Cobalt [He]	3/29/22 20:25	0.112	0.00100	"	0.100	0.018	94.1	70-130			
Lead [He]	3/29/22 20:25	0.109	0.00100	"	0.100	0.0008	108	70-130			
Molybdenum [He]	3/29/22 20:25	0.121	0.00100	"	0.100	0.0003	120	70-130			
Selenium [NG]	3/29/22 20:25	0.101	0.00500	"	0.100	ND	101	70-130			
Selenium [He]	3/29/22 20:25	0.103	0.00100	"	0.100	0.003	100	70-130			
Matrix Spike (2C28023-MS2)						Source: 2203470-11					
Antimony [He]	3/29/22 21:58	0.111	0.00200	mg/L	0.100	ND	111	70-130			
Arsenic [He]	3/29/22 21:58	0.109	0.00200	"	0.100	0.0007	108	70-130			
Arsenic [NG]	3/29/22 21:58	0.107	0.00200	"	0.100	0.0009	106	70-130			
Beryllium [He]	3/29/22 21:58	0.108	0.00100	"	0.100	0.0002	108	70-130			
Cadmium [He]	3/29/22 21:58	0.107	0.00100	"	0.100	ND	107	70-130			
Chromium [He]	3/29/22 21:58	0.107	0.00100	"	0.100	ND	107	70-130			
Cobalt [He]	3/29/22 21:58	0.108	0.00100	"	0.100	0.004	103	70-130			
Lead [He]	3/29/22 21:58	0.106	0.00100	"	0.100	ND	106	70-130			
Molybdenum [He]	3/29/22 21:58	0.112	0.00100	"	0.100	ND	112	70-130			
Selenium [He]	3/29/22 21:58	0.102	0.00100	"	0.100	ND	102	70-130			
Selenium [NG]	3/29/22 21:58	0.106	0.00500	"	0.100	ND	106	70-130			
Matrix Spike Dup (2C28023-MSD1)						Source: 2203470-01					
Antimony [He]	3/29/22 20:31	0.111	0.00200	mg/L	0.100	ND	111	70-130	1.29	20	
Arsenic [NG]	3/29/22 20:31	0.105	0.00200	"	0.100	ND	105	70-130	1.30	20	
Arsenic [He]	3/29/22 20:31	0.108	0.00200	"	0.100	0.0003	107	70-130	0.937	20	
Beryllium [He]	3/29/22 20:31	0.110	0.00100	"	0.100	0.004	106	70-130	1.06	20	
Cadmium [He]	3/29/22 20:31	0.103	0.00100	"	0.100	0.0006	103	70-130	0.721	20	
Chromium [He]	3/29/22 20:31	0.102	0.00100	"	0.100	ND	102	70-130	0.883	20	
Cobalt [He]	3/29/22 20:31	0.114	0.00100	"	0.100	0.018	96.5	70-130	2.12	20	
Lead [He]	3/29/22 20:31	0.110	0.00100	"	0.100	0.0008	109	70-130	0.413	20	
Molybdenum [He]	3/29/22 20:31	0.120	0.00100	"	0.100	0.0003	120	70-130	0.283	20	
Selenium [He]	3/29/22 20:31	0.108	0.00100	"	0.100	0.003	105	70-130	4.46	20	
Selenium [NG]	3/29/22 20:31	0.101	0.00500	"	0.100	ND	101	70-130	0.838	20	



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Project: CGLP CCR Semi Annual
Project Number: [none]
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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
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Batch 2C28023 - EPA 200.2 DCN 1017 Rev 10

Matrix Spike Dup (2C28023-MSD2)

Source: 2203470-11

Antimony [He]	3/29/22 22:04	0.114	0.00200	mg/L	0.100	ND	114	70-130	2.35	20	
Arsenic [He]	3/29/22 22:04	0.111	0.00200	"	0.100	0.0007	110	70-130	1.83	20	
Arsenic [NG]	3/29/22 22:04	0.109	0.00200	"	0.100	0.0009	108	70-130	1.20	20	
Beryllium [He]	3/29/22 22:04	0.108	0.00100	"	0.100	0.0002	108	70-130	0.00526	20	
Cadmium [He]	3/29/22 22:04	0.110	0.00100	"	0.100	ND	110	70-130	2.21	20	
Chromium [He]	3/29/22 22:04	0.106	0.00100	"	0.100	ND	106	70-130	1.02	20	
Cobalt [He]	3/29/22 22:04	0.108	0.00100	"	0.100	0.004	104	70-130	0.523	20	
Lead [He]	3/29/22 22:04	0.109	0.00100	"	0.100	ND	109	70-130	2.40	20	
Molybdenum [He]	3/29/22 22:04	0.116	0.00100	"	0.100	ND	116	70-130	3.12	20	
Selenium [He]	3/29/22 22:04	0.104	0.00100	"	0.100	ND	104	70-130	1.79	20	
Selenium [NG]	3/29/22 22:04	0.107	0.00500	"	0.100	ND	107	70-130	0.978	20	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

Certified Analyses Included in this Report

Analyte	Certification Code
<i>EPA 200.7 Rev 4.4 in Water</i>	
Aluminum 237.312 [Radial]	C01,C02
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
Lithium 610.362 [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
Tin 189.989 [Axial]	C01,C02
Titanium 334.941 [Axial]	C01,C02
Vanadium 309.311 [Axial]	C01,C02
Zinc 213.856 [Axial]	C01,C02
<i>EPA 200.8 Rev 5.4 in Water</i>	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [HHe]	C01,C02
Antimony [NG]	C01,C02

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

Arsenic [He]	C01,C02
Arsenic [HHe]	C01,C02
Arsenic [NG]	C01,C02
Barium [He]	C01,C02
Beryllium [He]	C01,C02
Boron [NG]	C01,C02
Cadmium [He]	C01,C02
Cadmium [HHe]	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 [HHe]	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-2011 in Water

Total Dissolved Solids	C01,C02
------------------------	---------

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

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 04/27/2022 10:15

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	LA Environmental Lab Accreditation Program	01960	06/30/2022
C02	The NELAC Institute (NELAP)	TNI01397	06/30/2022
C03	Ms Dept of Health (Drinking Water Microbiology)	MS00021	12/31/2022
C04	Ms Dept of Health (Drinking Water Chemistry)	MS00021	12/31/2022
C05	Ms DEQ Lead Firm Certification	PBF-00000028	03/24/2023
C06	MsDEQ Asbestos Inspector : C.D. Bingham	ABI-00001348	02/12/2023
C07	MsDEQ Air Monitor : C.D. Bingham	AM-011572	02/13/2023
C08	MsDEQ Asbestos Inspector: C. W. Meins	ABI-00001821	09/09/2022
C09	MsDEQ Air Monitor : C.W. Meins	AM-011189	02/13/2023
C14	MsDEQ Lead Paint Inspector : C.D. Bingham	PBI-00003690	01/29/2023
C15	MsDEQ Lead Paint Inspector : C.W. Meins	PBI-00001740	01/29/2023

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 Verification
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verification 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.



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:
04/27/2022 10:15

Analyst Initials Key

<u>FullName</u>	<u>Initials</u>
Charles L Vorhoff	CLV
Dortha L. Wells	DLW
Sarah E. Tomek	SET
Samantha C. Hall	SCH
Stella S Kleist	SSK
Teresa Meins	TKM
Tina Tomek	TPT



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
WD #

2203470

Company Name: Choctaw Generation Limited Partnership LLP		Project Manager: Jim Ward	
Address: 2391 Pensacola Rd.		Purchase Order #:	
City: Ackerman	State: MS Zip: 39735	Email Address: <u>Jim.Ward@choctaw.com</u>	
Phone: 662-387-5758		Sampler Name: <u>Keith Shelton</u>	
Fax:		Sampler Name Printed: <u>Keith Shelton</u>	
Project Name: CGLP CCR		List Analyses Requested	
Project #: Semi-Annual		Preservative: <input type="checkbox"/> Grab (G) or Composite (C)	
Sample Identification		TDS	
Sample	Sampling Date/Time	Matrix Code	# of Containers
MW-9	3/23/22 14:35	W	4
OW-2	3/23/22 11:20	W	4
MW-13	3/24/22 11:10	W	4
MW-7	3/24/22 15:20	W	4
MW-14	3/24/22 13:44	W	4
Field Blank	3/24/22 13:54	W	4
Duplicate	3/24/22 10:58	W	4
MW-12	3/23/22 13:32	W	4
CCR-2	3/23/22 15:52	W	4
CCR-3	3/23/22 16:58	W	4
CCR-4	3/23/22 16:58	W	4
Received on Ice <input checked="" type="checkbox"/> Y N Thermometer# <u>15</u> Cooler # <u>4</u>		Receipt Temp Corrected (°C)	
Date & Time	By: <u>JS</u>	Sample	Blank <input checked="" type="checkbox"/> Cooler <input type="checkbox"/>
Printed Name	Signature	Company	Date
Relinquished by <u>Keith Shelton</u>	<u>[Signature]</u>	<u>ECS</u>	<u>3/24/22 18:30</u>
Received by <u>FedEx</u>			
Relinquished by <u>FedEx</u>			
Received by <u>Samuel Turner</u>			
Relinquished by <u>Samuel Turner</u>			
Received by			
Relinquished by			
Received by			
Relinquished by			

Turn Around Time & Reporting			
Normal <input checked="" type="checkbox"/> Our normal turn around time is 10 working days			
Next Day* <input type="checkbox"/> All rush order requests must be prior approved.			
2nd Day* <input type="checkbox"/>			
Other* <input type="checkbox"/>			
QC Level: Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/>			
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 = ZnCAH1006			
5 = ZnCAH1006 & NaOH			
6 = HNO3			
7 = Na2S2O3			
8 = HCl			
9 = NaHSO4			
Notes:			
COOLER # 400 0.1°C			
COOLER # 324 0.4°C			
COOLER # 418 -0.1°C			
All Temps are Corrected Values			



Chain of Custody Record

Print Form

PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423

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

www.micromethodslab.com

M-M Lab
WO #
2203470

Company Name: Choctaw Generation Limited Partnership LLP		Project Manager: Jim Ward	
Address: 2391 Pensacola Rd.		Purchase Order #:	
City: Ackerman	State: MS Zip: 39735	Email Address: kshelton@evscomp.net	
Phone: 662-387-5758		Sampler Name Printed: Kim Shelton / EVM EASTERN MS	
Fax:		Sampler Name Signed: [Signature]	
Project Name: CGLP CCR		List Analyses Requested	
Project #: Semi-Annual		Preservative: <input type="checkbox"/> Grab (G) or Composite (C)	
Sample Identification	Sampling Date/Time	Matrix Code	# of Containers
CCR-5	3/24/22 12:17	W	4
		TDS	
		Chloride, Fluoride, Sulfate	
		Antimony, Arsenic	
		Barium, Boron, Beryllium	
		Cadmium, Chromium	
		Lead, Calcium, Cobalt	
		Lithium	
		Molybdenum, Selenium	
		Total Radium 226 & 228	
Received on Ice? Y N Thermometer#		Cooler #	
Date & Time		By: Receipt Temp Corrected (°C)	
Relinquished by		Printed Name	
Relinquished by		Signature	
Relinquished by		Company	
Relinquished by		Date	
Relinquished by		Time	
Received by		Notes:	
Received by		Field Testing	
Received by		QC Level: Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/>	
Received by		Turn Around Time & Reporting	
Received by		Our normal turn around time is 10 working days	
Received by		Normal <input checked="" type="checkbox"/> Next Day* <input type="checkbox"/> 2nd Day* <input type="checkbox"/> Other* <input type="checkbox"/>	
Received by		*All rush order requests must be prior approved.	
Received by		Phone <input type="checkbox"/> Mail <input type="checkbox"/> Fax <input type="checkbox"/> Email <input type="checkbox"/>	
Received by		Matrix:	
Received by		W = Water	
Received by		DW = Drinking Water	
Received by		S = Solid	
Received by		SO = Soil	
Received by		SE = Sediment	
Received by		L = Liquid	
Received by		A = Air	
Received by		O = Oil	
Received by		SL = Sludge	
Received by		Preservation:	
Received by		1 = H2SO4	
Received by		2 = H3PO4	
Received by		3 = NaOH	
Received by		4 = ZnCAH1006	
Received by		5 = ZnCAH1006 & NaOH	
Received by		6 = HNO3	
Received by		7 = Na2S2O3	
Received by		8 = HCl	
Received by		9 = NaHSO4	

April 26, 2022

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

RE: Project: 2203470
Pace Project No.: 30478948

Dear Tina Tomek:

Enclosed are the analytical results for sample(s) received by the laboratory on April 01, 2022. 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,



David A. Pichette
david.pichette@pacelabs.com
(724)850-5617
Project Manager

Enclosures

cc: Accounts Payable, Micro-Methods Lab



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 2203470

Pace Project No.: 30478948

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2203470
Pace Project No.: 30478948

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30478948001	2203470-01	Water	03/23/22 14:35	04/01/22 09:55
30478948002	2203470-02	Water	03/23/22 11:20	04/01/22 09:55
30478948003	2203470-03	Water	03/23/22 11:10	04/01/22 09:55
30478948004	2203470-04	Water	03/24/22 15:20	04/01/22 09:55
30478948005	2203470-05	Water	03/24/22 13:44	04/01/22 09:55
30478948006	2203470-06	Water	03/24/22 13:54	04/01/22 09:55
30478948007	2203470-07	Water	03/23/22 00:00	04/01/22 09:55
30478948008	2203470-08	Water	03/23/22 10:58	04/01/22 09:55
30478948009	2203470-09	Water	03/23/22 13:32	04/01/22 09:55
30478948010	2203470-10	Water	03/23/22 15:52	04/01/22 09:55
30478948011	2203470-11	Water	03/23/22 16:55	04/01/22 09:55
30478948012	2203470-12	Water	03/24/22 12:17	04/01/22 09:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2203470
Pace Project No.: 30478948

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30478948001	2203470-01	EPA 903.1	RPS	1
		EPA 904.0	JSM	1
30478948002	2203470-02	EPA 903.1	RPS	1
		EPA 904.0	JSM	1
30478948003	2203470-03	EPA 903.1	RPS	1
		EPA 904.0	JSM	1
30478948004	2203470-04	EPA 903.1	RPS	1
		EPA 904.0	JSM	1
30478948005	2203470-05	EPA 903.1	RPS	1
		EPA 904.0	JSM	1
30478948006	2203470-06	EPA 903.1	RPS	1
		EPA 904.0	JSM	1
30478948007	2203470-07	EPA 903.1	RPS	1
		EPA 904.0	JSM	1
30478948008	2203470-08	EPA 903.1	RPS	1
		EPA 904.0	JSM	1
30478948009	2203470-09	EPA 903.1	RPS	1
		EPA 904.0	JSM	1
30478948010	2203470-10	EPA 903.1	RPS	1
		EPA 904.0	JSM	1
30478948011	2203470-11	EPA 903.1	RPS	1
		EPA 904.0	JSM	1
30478948012	2203470-12	EPA 903.1	RPS	1
		EPA 904.0	JSM	1

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2203470
Pace Project No.: 30478948

Sample: 2203470-01		Lab ID: 30478948001	Collected: 03/23/22 14:35	Received: 04/01/22 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	0.488 ± 0.415 (0.583) C:NA T:83%	pCi/L	04/26/22 14:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.53 ± 0.565 (0.846) C:67% T:83%	pCi/L	04/19/22 12:57	15262-20-1	
Sample: 2203470-02		Lab ID: 30478948002	Collected: 03/23/22 11:20	Received: 04/01/22 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	0.000 ± 0.240 (0.489) C:NA T:84%	pCi/L	04/26/22 14:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.292 ± 0.498 (1.08) C:70% T:84%	pCi/L	04/19/22 16:10	15262-20-1	
Sample: 2203470-03		Lab ID: 30478948003	Collected: 03/23/22 11:10	Received: 04/01/22 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	0.204 ± 0.401 (0.720) C:NA T:84%	pCi/L	04/26/22 14:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.497 ± 0.473 (0.982) C:84% T:84%	pCi/L	04/19/22 16:10	15262-20-1	
Sample: 2203470-04		Lab ID: 30478948004	Collected: 03/24/22 15:20	Received: 04/01/22 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	0.322 ± 0.395 (0.648) C:NA T:83%	pCi/L	04/26/22 14:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.167 ± 0.371 (0.822) C:78% T:83%	pCi/L	04/19/22 16:05	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2203470
Pace Project No.: 30478948

Sample: 2203470-05		Lab ID: 30478948005	Collected: 03/24/22 13:44	Received: 04/01/22 09:55	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	04/26/22 14:12	13982-63-3	
	EPA 903.1	0.0476 ± 0.217 (0.442) C:NA T:87%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	04/19/22 16:05	15262-20-1	
	EPA 904.0	0.402 ± 0.371 (0.759) C:78% T:87%					
Sample: 2203470-06		Lab ID: 30478948006	Collected: 03/24/22 13:54	Received: 04/01/22 09:55	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	04/26/22 14:12	13982-63-3	
	EPA 903.1	0.138 ± 0.298 (0.551) C:NA T:90%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	04/19/22 16:05	15262-20-1	
	EPA 904.0	0.319 ± 0.360 (0.756) C:73% T:90%					
Sample: 2203470-07		Lab ID: 30478948007	Collected: 03/23/22 00:00	Received: 04/01/22 09:55	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	04/26/22 14:22	13982-63-3	
	EPA 903.1	0.322 ± 0.374 (0.604) C:NA T:88%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	04/19/22 16:05	15262-20-1	
	EPA 904.0	0.445 ± 0.403 (0.826) C:78% T:88%					
Sample: 2203470-08		Lab ID: 30478948008	Collected: 03/23/22 10:58	Received: 04/01/22 09:55	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	04/26/22 14:34	13982-63-3	
	EPA 903.1	0.151 ± 0.297 (0.543) C:NA T:78%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	04/19/22 16:05	15262-20-1	
	EPA 904.0	0.425 ± 0.428 (0.887) C:77% T:78%					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2203470
Pace Project No.: 30478948

Sample: 2203470-09		Lab ID: 30478948009	Collected: 03/23/22 13:32	Received: 04/01/22 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	0.382 ± 0.441 (0.716) C:NA T:94%	pCi/L	04/26/22 14:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.749 ± 0.389 (0.686) C:76% T:94%	pCi/L	04/19/22 16:05	15262-20-1	
Sample: 2203470-10		Lab ID: 30478948010	Collected: 03/23/22 15:52	Received: 04/01/22 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	0.466 ± 0.294 (0.126) C:NA T:86%	pCi/L	04/26/22 14:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.03 ± 0.461 (0.764) C:75% T:86%	pCi/L	04/19/22 16:05	15262-20-1	
Sample: 2203470-11		Lab ID: 30478948011	Collected: 03/23/22 16:55	Received: 04/01/22 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	0.739 ± 0.407 (0.363) C:NA T:85%	pCi/L	04/26/22 14:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.243 ± 0.396 (0.860) C:76% T:85%	pCi/L	04/19/22 16:05	15262-20-1	
Sample: 2203470-12		Lab ID: 30478948012	Collected: 03/24/22 12:17	Received: 04/01/22 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	0.174 ± 0.488 (0.810) C:NA T:81%	pCi/L	04/26/22 14:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.30 ± 1.48 (3.11) C:78% T:81%	pCi/L	04/19/22 16:05	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2203470

Pace Project No.: 30478948

QC Batch:	496268	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:	30478948001, 30478948002, 30478948003, 30478948004, 30478948005, 30478948006, 30478948007, 30478948008, 30478948009, 30478948010, 30478948011, 30478948012		

METHOD BLANK: 2401680 Matrix: Water

Associated Lab Samples: 30478948001, 30478948002, 30478948003, 30478948004, 30478948005, 30478948006, 30478948007, 30478948008, 30478948009, 30478948010, 30478948011, 30478948012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.477 ± 0.322 (0.615) C:81% T:88%	pCi/L	04/19/22 12:57	

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: 2203470
Pace Project No.: 30478948

QC Batch:	496267	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:	30478948001, 30478948002, 30478948003, 30478948004, 30478948005, 30478948006, 30478948007, 30478948008, 30478948009, 30478948010, 30478948011, 30478948012		

METHOD BLANK:	2401679	Matrix:	Water
Associated Lab Samples:	30478948001, 30478948002, 30478948003, 30478948004, 30478948005, 30478948006, 30478948007, 30478948008, 30478948009, 30478948010, 30478948011, 30478948012		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0478 ± 0.218 (0.444) C:NA T:88%	pCi/L	04/26/22 13:58	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2203470
Pace Project No.: 30478948

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.

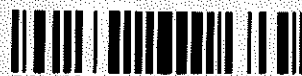
TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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MICRO-METHODS LABORATORY, INC.

WO#: 30478948



30478948

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: 2203470

** Choctaw Generation*

Analysis	Due	Expires	Comments	
Sample ID: 2203470-01 Water Sampled: 03/23/2022 14:35 Sample Name: MW-9				001
Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/20/2022 14:35				
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)				
Sample ID: 2203470-02 Water Sampled: 03/23/2022 11:20 Sample Name: OW-2				002
Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/20/2022 11:20				
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)				
Sample ID: 2203470-03 Water Sampled: 03/24/2022 11:10 Sample Name: MW-13				003
Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/21/2022 11:10				
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)				
Sample ID: 2203470-04 Water Sampled: 03/24/2022 15:20 Sample Name: MW-7				004
Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/21/2022 15:20				
Containers Supplied: 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)				
Sample ID: 2203470-05 Water Sampled: 03/24/2022 13:44 Sample Name: MW-14				005
Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/21/2022 13:44				

Smith Jones 3/29/22 @ 1630
Released By _____ Date _____
UPS
Released By _____ Date _____
Released By _____ Date _____
Released By _____ Date _____
Released By _____ Date _____

UPS 3/29/22 @ 1630
Received By _____ Date _____
Z. Adrejan 4-1-22 9:55
Received By _____ Date _____
Received By _____ Date _____
Received By _____ Date _____
Received By _____ Date _____



MICRO-METHO

LABORATORY, INC.

WO#: 30478948

PM: DAP

Due Date: 04/22/22

CLIENT: MICROMETHOD

Work Order: 2203470 (Continued)

Analysis	Due	Expires	Comments
----------	-----	---------	----------

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2203470-06 Water Sampled: 03/24/2022 13:54 Sample Name: Field Blank

006

Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/21/2022 13:54

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2203470-07 Water Sampled: 03/23/2022 00:00 Sample Name: Duplicate

007

Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/20/2022 00:00

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2203470-08 Water Sampled: 03/23/2022 10:58 Sample Name: MW-12

008

Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/20/2022 10:58

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2203470-09 Water Sampled: 03/23/2022 13:32 Sample Name: CCR-2

009

Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/20/2022 13:32

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2203470-10 Water Sampled: 03/23/2022 15:52 Sample Name: CCR-3

010

Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/20/2022 15:52

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2203470-11 Water Sampled: 03/23/2022 16:55 Sample Name: CCR-4

011

Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/20/2022 16:55

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2203470-12 Water Sampled: 03/24/2022 12:17 Sample Name: CCR-5

012

Released By Smeh Jemel Date 3/29/22 1630

Received By LPS Date 3/29/22 1630

Released By LPS Date

Received By 3 Anderson Date 4-1-22 9:55

Released By Date

Received By Date

Released By Date

Received By Date

Released By Date

Received By Date

Released By Date

Received By Date



MICRO-METHO

LABORATORY, INC.

WO#: 30478948

PM: DAP

Due Date: 04/22/22

CLIENT: MICROMETHOD

Work Order: 2203470 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 2203470-12 Water Sampled: 03/24/2022 12:17 Sample Name: CCR-5			
Radium, Total 226 & 228 by EPA 903.1 & 90 04/04/2022 04/21/2022 12:17			
Containers Supplied:			
1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			

Samah Jomeh 3/29/22 1630

Released By _____ Date _____

LPS

Released By _____ Date _____

Released By _____ Date _____

Released By _____ Date _____

Released By _____ Date _____

Released By _____ Date _____

LPS 3/29/22 1630

Received By _____ Date _____

3 Adreya 4-1-22 9:55

Received By _____ Date _____

Received By _____ Date _____

Received By _____ Date _____

Received By _____ Date _____

Received By _____ Date _____

Pittsburgh Lab Sample Condition Upon Receipt

Client Name: Micro-Methods Project # _____Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____Tracking #: 1Z 353 003 03 6858 1762

Label <u>2a</u>
LIMS Login <u>VPnc</u>

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	N/A	pH paper Lot#	Date and Initials of person examining contents:
				<u>10D2811</u>	<u>4-7-22 2a</u>
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.	
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.	
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.	
-Includes date/time/ID Matrix: <u>WT</u>					
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.	
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.	
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.	
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.	
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.	
-Pace Containers Used:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.	
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.	
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.	
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.	
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.	
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix					<u>pH 2</u>
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed	Date/time of preservation
				<u>2a</u>	
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.	
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.	
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed	Date: <u>4-7-22</u> Survey Meter SN: <u>1563</u>
				<u>2a</u>	

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ A check in this box indicates that additional information has been stored in ereports.

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

MO# : 30478948
 PM: DAP Due Date: 04/22/22
 CLIENT: MICROMETHOD

Pace Greensburg Lab -Sample Container Count



WO# : 30478948

Client Pace Analytical
Site 2203470

PM: DAP Due Date: 04/22/22
CLIENT: MICROMETHOD

Profile Number 14460
Notes

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WG9U	WGKU	ZPLC
1	MA											2																
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12	WT											2																

Container Codes

Glass		Glass	
GCUN	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 Thiosul
GCUN	1 Gallon Jug	VG9H	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	JGFU	4oz amber wide jar
AG1H	1L amber glass HCl	WG9U	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		

Plastic / Misc.		Plastic / Misc.	
GCUB	1 Gallon Cubitainer	EZI	5g Encore
12GN	1/2 Gallon Cubitainer	VOAK	Kit for Volatile Solid
SP5T	120mL Coliform Na Thiosulfate	I	Wipe/Swab
BP1N	1L plastic HNO3	ZPLC	Ziploc Bag
BP1U	1L plastic unpreserved		
BP3S	250mL plastic H2SO4	WT	Water
BP3N	250mL plastic HNO3	SL	Solid
BP3U	250mL plastic unpreserved	OL	Non-aqueous liquid
BP3C	250ml plastic NAOH	WP	Wipe
BP2S	500mL plastic H2SO4		
BP2U	500mL plastic unpreserved		

David Pichette

From: Tina Tomek <ttomek@micromethodslab.com>
Sent: Thursday, April 7, 2022 3:06 PM
To: David Pichette
Subject: RE: Samples at Pace Greensburg
Attachments: 2203470.pdf

CAUTION: This email originated from outside Pace Analytical. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Dave

As per your request, attached is a copy of the CoC. Please let me know if you need further information.

Thank you

Tina P Tomek

Office Manager
Micro-Methods Lab
Remit to: P O Box 1410
Ocean Springs, MS 39566-1410

WO# : 30478948

PM: DAP **Due Date: 04/22/22**
CLIENT: MICROMETHOD

Physical: 6500 Sunplex Drive
Ocean Springs, Mississippi 39564
228-875-6420 Fax 228-875-6423
www.micromethodslab.com



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From: David Pichette [mailto:David.Pichette@pacelabs.com]
Sent: Thursday, April 7, 2022 1:38 PM
To: Tina Tomek
Subject: Samples at Pace Greensburg

Hi Tina,

We received sample in Greensburg without a COC. There is a box of them, the sample ID is 2203470. Can you provide some assistance please?

Thanks,
Dave

David A. Pichette
Project Manager | Environmental Sciences
1638 Roseytown Road, Suites 2, 3, & 4, Greensburg, PA 15601



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

DOCUMENT CHANGE NOTICE

Revised Report

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

January 12, 2023

Jim Ward

Work Order # : 2206051

Choctaw Generation LP
2391 Pensacola Rd.

Purchase Order # RDH16277 - Yr 2022

Ackerman, MS 39735

RE: CGLP CCR Annual

Enclosed is the revised report for samples received by the laboratory on 06/02/2022 08:50. 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.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
MW-7	2206051-01	Water	06/01/2022 10:56	Ethan Easterling	06/02/2022 08:50
MW-9	2206051-02	Water	05/31/2022 11:45	Ethan Easterling	06/02/2022 08:50
MW-12	2206051-03	Water	05/31/2022 15:24	Ethan Easterling	06/02/2022 08:50
MW-13	2206051-04	Water	06/01/2022 08:58	Ethan Easterling	06/02/2022 08:50
MW-14	2206051-05	Water	06/01/2022 11:48	Ethan Easterling	06/02/2022 08:50
Field Blank	2206051-06	Water	06/01/2022 11:27	Ethan Easterling	06/02/2022 08:50
Duplicate	2206051-07	Water	06/01/2022 00:00	Ethan Easterling	06/02/2022 08:50
OW-2	2206051-08	Water	05/31/2022 14:00	Ethan Easterling	06/02/2022 08:50
CCR-2	2206051-09	Water	05/31/2022 16:20	Ethan Easterling	06/02/2022 08:50
CCR-3	2206051-10	Water	05/31/2022 10:15	Ethan Easterling	06/02/2022 08:50
CCR-4	2206051-11	Water	05/31/2022 14:53	Ethan Easterling	06/02/2022 08:50
CCR-5	2206051-12	Water	06/01/2022 09:52	Ethan Easterling	06/02/2022 08:50

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

Page 2 of 45

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

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

Reported:
01/12/2023 12:00

Sample Receipt Conditions

Date/Time Received: 6/2/2022 8:50:00AM

Shipped by: Fed Ex

Received by: Sarah E. Tomek

Submitted by: Ethan Easterling

Date/Time Logged: 6/3/2022 8:42:00AM

Logged by: Sarah E. Tomek

Cooler ID: #1106

Receipt Temperature: 0.3 °C

<i>Cooler Custody Seals Present</i>	Yes
<i>Containers Intact</i>	Yes
<i>COC/Labels Agree</i>	Yes
<i>Labels Complete</i>	Yes
<i>COC Complete</i>	Yes
<i>Volatile Vial Headspace >6mm</i>	No
<i>Field Sheet/Instructions Included</i>	No
<i>Samples Rejected/Documented in Log</i>	No
<i>Temp Taken From Temp Blank</i>	Yes
<i>Temp Taken From Sample Container</i>	No
<i>Temp Taken From Cooler</i>	No
<i>COC meets acceptance criteria</i>	Yes

<i>Received on Ice but Not Frozen</i>	Yes
<i>No Ice, Short Trip</i>	No
<i>Obvious Contamination</i>	No
<i>Rush to meet HT</i>	No
<i>Received within HT</i>	Yes
<i>Proper Containers for Analysis</i>	Yes
<i>Correct Preservation</i>	Yes
<i>Adequate Sample for Analysis</i>	Yes
<i>Sample Custody Seals Present</i>	Yes
<i>Samples Missing from COC/Cooler</i>	No

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

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

Reported:
01/12/2023 12:00

Cooler ID: #1127
Receipt Temperature: -0.1 °C

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

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

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

Reported:
01/12/2023 12:00

Cooler ID: #685

Receipt Temperature: 0.1 °C

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

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim WardReported:
01/12/2023 12:00**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 radiological results from Sub-Contract Laboratory

REVISED REPORT 1/12/2023:

Thallium results added to final report.

Qualification: *No Data Qualification*Analyte & Samples(s) Qualified: *None*

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

MW-7
2206051-01 (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	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.074	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 15:14	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	2F08032	SCH	"	06/10/2022 13:32	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	0.00500	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	EPA 245.1 Rev 3.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

MW-9
2206051-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	0.34	0.22	mg/L	1.0	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.070	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 15:36	EPA 200.7 Rev 4.4	
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	2F08032	SCH	"	06/10/2022 13:49	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	0.00422	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.0154	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	EPA 245.1 Rev 3.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

MW-12
2206051-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	0.69	0.22	mg/L	1.0	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.188	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 15:40	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	2F08032	SCH	"	06/10/2022 13:55	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.00650	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	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:
 01/12/2023 12:00

MW-13
2206051-04 (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	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.176	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 15:43	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	2F08032	SCH	"	06/10/2022 14:01	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	0.00941	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	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:
 01/12/2023 12:00

MW-14
2206051-05 (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	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.013	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 15:47	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	2F08032	SCH	"	06/10/2022 14:07	EPA 200.8 Rev 5.4	
Arsenic [NG]	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 [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	EPA 245.1 Rev 3.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

Field Blank
2206051-06 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
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Classical Chemistry Parameters

Fluoride	ND	0.22	mg/L	1.0	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
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Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	ND	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 15:51	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	2F08032	SCH	"	06/10/2022 14:12	EPA 200.8 Rev 5.4	
Arsenic [NG]	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 [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	

Mercury by EPA 200 Series Methods CVAAS

Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	EPA 245.1 Rev 3.0	
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The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

Duplicate
2206051-07 (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	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.013	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 15:54	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	2F08032	SCH	"	06/10/2022 14:18	EPA 200.8 Rev 5.4	
Arsenic [NG]	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 [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	EPA 245.1 Rev 3.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

OW-2
2206051-08 (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	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.044	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 15:58	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	2F08032	SCH	"	06/10/2022 14:24	EPA 200.8 Rev 5.4	
Arsenic [NG]	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 [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	EPA 245.1 Rev 3.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

CCR-2
2206051-09 (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	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.147	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 16:02	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	2F08032	SCH	"	06/10/2022 14:30	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.0117	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	EPA 245.1 Rev 3.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

CCR-3
2206051-10 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Notes
Classical Chemistry Parameters										
Fluoride	0.25	0.22	mg/L	1.0	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.060	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 16:31	EPA 200.7 Rev 4.4	
Lithium 610.362 [Axial]	0.084	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	2F08032	SCH	"	06/10/2022 15:25	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.0167	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	EPA 245.1 Rev 3.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

CCR-4
2206051-11 (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	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.166	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 15:25	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	2F08032	SCH	"	06/10/2022 15:31	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	0.0126	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.00272	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	EPA 245.1 Rev 3.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

CCR-5
2206051-12 (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	2F06035	DLW	06/06/2022 13:20	06/06/2022 15:12	SM 4500-F C 2011	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.064	0.010	mg/L	1.0	2F08029	CLV	06/08/2022 09:30	06/28/2022 16:35	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	2F08032	SCH	"	06/10/2022 15:48	EPA 200.8 Rev 5.4	
Arsenic [NG]	0.00444	0.00200	"	"	"	SCH	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Cobalt [He]	0.00556	0.00100	"	"	"	SCH	"	"	"	
Lead [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	SCH	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	SCH	"	"	"	
Thallium [He]	ND	0.00500	"	"	"	SCH	"	"	"	
Mercury by EPA 200 Series Methods CVAAS										
Mercury	ND	0.00200	mg/L	1.0	2F08028	TKM	06/07/2022 11:00	06/08/2022 12:40	EPA 245.1 Rev 3.0	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 2F06035 - Default Prep GenChem											
Blank (2F06035-BLK1)											
Fluoride	6/6/22 15:12	ND	0.22	mg/L							
LCS (2F06035-BS1)											
Fluoride	6/6/22 15:12	1.95	0.22	mg/L	2.00		97.5	83.3-107			
LCS Dup (2F06035-BSD1)											
Fluoride	6/6/22 15:12	1.95	0.22	mg/L	2.00		97.5	83.3-107	0.00	30	
Duplicate (2F06035-DUP1) Source: 2206051-01											
Fluoride	6/6/22 15:12	0.16	0.22	mg/L		0.17			4.82	20	
Matrix Spike (2F06035-MS1) Source: 2206051-01											
Fluoride	6/6/22 15:12	2.10	0.22	mg/L	2.00	0.17	96.5	79.3-113			
Matrix Spike Dup (2F06035-MSD1) Source: 2206051-01											
Fluoride	6/6/22 15:12	2.16	0.22	mg/L	2.00	0.17	99.5	79.3-113	2.82	30	

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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:
 01/12/2023 12:00

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 2F08029 - EPA 200.2 DCN 1017 Rev 10											
Blank (2F08029-BLK1)											
Barium 455.403 [Radial]	6/28/22 15:03	ND	0.010	mg/L							
Lithium 610.362 [Axial]	6/28/22 15:03	ND	0.040	"							
LCS (2F08029-BS1)											
Barium 455.403 [Radial]	6/28/22 15:07	0.212	0.010	mg/L	0.200		106	85-115			
Lithium 610.362 [Axial]	6/28/22 15:07	0.210	0.040	"	0.200		105	85-115			
LCS Dup (2F08029-BSD1)											
Barium 455.403 [Radial]	6/28/22 15:10	0.215	0.010	mg/L	0.200		107	85-115	1.11	20	
Lithium 610.362 [Axial]	6/28/22 15:10	0.210	0.040	"	0.200		105	85-115	0.0539	20	
Matrix Spike (2F08029-MS1) Source: 2206051-01											
Barium 455.403 [Radial]	6/28/22 15:18	0.285	0.010	mg/L	0.200	0.074	105	70-130			
Lithium 610.362 [Axial]	6/28/22 15:18	0.242	0.040	"	0.200	0.013	114	70-130			
Matrix Spike (2F08029-MS2) Source: 2206051-11											
Barium 455.403 [Radial]	6/28/22 15:29	0.367	0.010	mg/L	0.200	0.166	100	70-130			
Lithium 610.362 [Axial]	6/28/22 15:29	0.250	0.040	"	0.200	0.018	116	70-130			
Matrix Spike Dup (2F08029-MSD1) Source: 2206051-01											
Barium 455.403 [Radial]	6/28/22 15:21	0.288	0.010	mg/L	0.200	0.074	107	70-130	1.12	20	
Lithium 610.362 [Axial]	6/28/22 15:32	0.252	0.040	"	0.200	0.013	120	70-130	4.28	20	
Matrix Spike Dup (2F08029-MSD2) Source: 2206051-11											
Barium 455.403 [Radial]	6/28/22 15:32	0.373	0.010	mg/L	0.200	0.166	103	70-130	1.84	20	
Lithium 610.362 [Axial]	6/28/22 15:32	0.252	0.040	"	0.200	0.018	117	70-130	1.01	20	

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Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

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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:
 01/12/2023 12:00

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
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Batch 2F08032 - EPA 200.2 DCN 1017 Rev 10

Blank (2F08032-BLK1)

Antimony [He]	6/10/22 13:15	ND	0.00200	mg/L							
Arsenic [NG]	6/10/22 13:15	ND	0.00200	"							
Arsenic [He]	6/10/22 13:15	ND	0.00200	"							
Beryllium [He]	6/10/22 13:15	ND	0.00100	"							
Cadmium [He]	6/10/22 13:15	ND	0.00100	"							
Chromium [He]	6/10/22 13:15	ND	0.00100	"							
Cobalt [He]	6/10/22 13:15	ND	0.00100	"							
Lead [He]	6/10/22 13:15	ND	0.00100	"							
Molybdenum [He]	6/10/22 16:00	ND	0.00100	"							
Selenium [NG]	6/10/22 13:15	ND	0.00500	"							
Selenium [He]	6/10/22 13:15	ND	0.00100	"							
Thallium [He]	6/10/22 13:15	ND	0.00500	"							

LCS (2F08032-BS1)

Antimony [He]	6/10/22 13:21	0.103	0.00200	mg/L	0.100		103	85-115			
Arsenic [NG]	6/10/22 13:21	0.099	0.00200	"	0.100		99.2	85-115			
Arsenic [He]	6/10/22 13:21	0.101	0.00200	"	0.100		101	85-115			
Beryllium [He]	6/10/22 13:21	0.098	0.00100	"	0.100		98.3	85-115			
Cadmium [He]	6/10/22 13:21	0.101	0.00100	"	0.100		101	85-115			
Chromium [He]	6/10/22 13:21	0.101	0.00100	"	0.100		101	85-115			
Cobalt [He]	6/10/22 13:21	0.101	0.00100	"	0.100		101	85-115			
Lead [He]	6/10/22 13:21	0.097	0.00100	"	0.100		96.6	85-115			
Molybdenum [He]	6/10/22 13:21	0.097	0.00100	"	0.100		96.9	85-115			
Selenium [NG]	6/10/22 13:21	0.100	0.00500	"	0.100		100	85-115			
Selenium [He]	6/10/22 13:21	0.098	0.00100	"	0.100		98.1	85-115			
Thallium [He]	6/10/22 13:21	0.099	0.00500	"	0.100		98.6	85-115			

LCS Dup (2F08032-BS1)

Antimony [He]	6/10/22 13:26	0.101	0.00200	mg/L	0.100		101	85-115	1.21	20	
Arsenic [NG]	6/10/22 13:26	0.098	0.00200	"	0.100		98.5	85-115	0.788	20	
Arsenic [He]	6/10/22 13:26	0.099	0.00200	"	0.100		98.9	85-115	1.93	20	
Beryllium [He]	6/10/22 13:26	0.097	0.00100	"	0.100		96.9	85-115	1.43	20	
Cadmium [He]	6/10/22 13:26	0.100	0.00100	"	0.100		100	85-115	1.39	20	
Chromium [He]	6/10/22 13:26	0.098	0.00100	"	0.100		97.7	85-115	3.30	20	
Cobalt [He]	6/10/22 13:26	0.098	0.00100	"	0.100		97.5	85-115	3.68	20	
Lead [He]	6/10/22 13:26	0.096	0.00100	"	0.100		96.2	85-115	0.440	20	
Molybdenum [He]	6/10/22 13:26	0.096	0.00100	"	0.100		95.6	85-115	1.35	20	
Selenium [He]	6/10/22 13:26	0.099	0.00100	"	0.100		98.9	85-115	0.895	20	
Selenium [NG]	6/10/22 13:26	0.098	0.00500	"	0.100		98.3	85-115	1.72	20	
Thallium [He]	6/10/22 13:26	0.098	0.00500	"	0.100		98.4	85-115	0.211	20	

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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:
01/12/2023 12:00

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 2F08032 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (2F08032-MS1)			Source: 2206051-01								
Antimony [He]	6/10/22 13:38	0.104	0.00200	mg/L	0.100	ND	104	70-130			
Arsenic [NG]	6/10/22 13:38	0.100	0.00200	"	0.100	ND	99.8	70-130			
Arsenic [He]	6/10/22 13:38	0.100	0.00200	"	0.100	ND	99.5	70-130			
Beryllium [He]	6/10/22 13:38	0.102	0.00100	"	0.100	ND	102	70-130			
Cadmium [He]	6/10/22 13:38	0.101	0.00100	"	0.100	ND	101	70-130			
Chromium [He]	6/10/22 13:38	0.100	0.00100	"	0.100	0.005	94.8	70-130			
Cobalt [He]	6/10/22 13:38	0.099	0.00100	"	0.100	ND	99.2	70-130			
Lead [He]	6/10/22 13:38	0.097	0.00100	"	0.100	ND	97.0	70-130			
Molybdenum [He]	6/10/22 13:38	0.108	0.00100	"	0.100	0.0006	107	70-130			
Selenium [NG]	6/10/22 13:38	0.099	0.00500	"	0.100	ND	99.4	70-130			
Selenium [He]	6/10/22 13:38	0.094	0.00100	"	0.100	ND	93.6	70-130			
Thallium [He]	6/10/22 13:38	0.100	0.00500	"	0.100	ND	100	70-130			
Matrix Spike (2F08032-MS2)			Source: 2206051-11								
Antimony [He]	6/10/22 16:29	0.106	0.00200	mg/L	0.100	ND	106	70-130			
Arsenic [NG]	6/10/22 16:29	0.100	0.00200	"	0.100	0.0006	99.4	70-130			
Arsenic [He]	6/10/22 16:29	0.100	0.00200	"	0.100	ND	99.5	70-130			
Beryllium [He]	6/10/22 16:29	0.098	0.00100	"	0.100	ND	98.2	70-130			
Cadmium [He]	6/10/22 16:29	0.101	0.00100	"	0.100	ND	101	70-130			
Chromium [He]	6/10/22 16:29	0.095	0.00100	"	0.100	0.013	82.6	70-130			
Cobalt [He]	6/10/22 16:29	0.096	0.00100	"	0.100	0.003	93.6	70-130			
Lead [He]	6/10/22 16:29	0.092	0.00100	"	0.100	ND	92.3	70-130			
Molybdenum [He]	6/10/22 16:29	0.108	0.00100	"	0.100	ND	108	70-130			
Selenium [NG]	6/10/22 16:29	0.099	0.00500	"	0.100	ND	98.9	70-130			
Selenium [He]	6/10/22 16:29	0.091	0.00100	"	0.100	ND	90.6	70-130			
Thallium [He]	6/10/22 16:29	0.100	0.00500	"	0.100	ND	99.8	70-130			
Matrix Spike Dup (2F08032-MSD1)			Source: 2206051-01								
Antimony [He]	6/10/22 13:43	0.103	0.00200	mg/L	0.100	ND	103	70-130	1.09	20	
Arsenic [He]	6/10/22 13:43	0.100	0.00200	"	0.100	ND	100	70-130	0.809	20	
Arsenic [NG]	6/10/22 13:43	0.099	0.00200	"	0.100	ND	99.4	70-130	0.355	20	
Beryllium [He]	6/10/22 13:43	0.101	0.00100	"	0.100	ND	101	70-130	1.62	20	
Cadmium [He]	6/10/22 13:43	0.100	0.00100	"	0.100	ND	100	70-130	1.12	20	
Chromium [He]	6/10/22 13:43	0.099	0.00100	"	0.100	0.005	94.2	70-130	0.591	20	
Cobalt [He]	6/10/22 13:43	0.099	0.00100	"	0.100	ND	99.1	70-130	0.133	20	
Lead [He]	6/10/22 13:43	0.094	0.00100	"	0.100	ND	94.4	70-130	2.72	20	
Molybdenum [He]	6/10/22 13:43	0.107	0.00100	"	0.100	0.0006	106	70-130	0.937	20	
Selenium [NG]	6/10/22 13:43	0.098	0.00500	"	0.100	ND	97.9	70-130	1.55	20	
Selenium [He]	6/10/22 13:43	0.090	0.00100	"	0.100	ND	89.6	70-130	4.35	20	
Thallium [He]	6/10/22 13:43	0.100	0.00500	"	0.100	ND	100	70-130	0.127	20	

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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:
 01/12/2023 12:00

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 2F08032 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike Dup (2F08032-MSD2)			Source: 2206051-11								
Antimony [He]	6/10/22 15:37	0.106	0.00200	mg/L	0.100	ND	106	70-130	0.157	20	
Arsenic [NG]	6/10/22 15:37	0.100	0.00200	"	0.100	0.0006	99.5	70-130	0.0811	20	
Arsenic [He]	6/10/22 15:37	0.101	0.00200	"	0.100	ND	101	70-130	1.60	20	
Beryllium [He]	6/10/22 15:37	0.099	0.00100	"	0.100	ND	99.4	70-130	1.19	20	
Cadmium [He]	6/10/22 15:37	0.101	0.00100	"	0.100	ND	101	70-130	0.464	20	
Chromium [He]	6/10/22 15:37	0.098	0.00100	"	0.100	0.013	85.1	70-130	2.60	20	
Cobalt [He]	6/10/22 15:37	0.099	0.00100	"	0.100	0.003	96.1	70-130	2.60	20	
Lead [He]	6/10/22 15:37	0.097	0.00100	"	0.100	ND	97.0	70-130	4.96	20	
Molybdenum [He]	6/10/22 15:37	0.109	0.00100	"	0.100	ND	109	70-130	1.27	20	
Selenium [NG]	6/10/22 15:37	0.099	0.00500	"	0.100	ND	98.6	70-130	0.302	20	
Selenium [He]	6/10/22 15:37	0.087	0.00100	"	0.100	ND	87.1	70-130	3.95	20	
Thallium [He]	6/10/22 15:37	0.102	0.00500	"	0.100	ND	102	70-130	1.99	20	

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



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:
01/12/2023 12:00

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 2F08028 - EPA 7470A DCN 1017 Rev 10											
Blank (2F08028-BLK1)											
Mercury	6/8/22 12:40	ND	0.00200	mg/L							
Blank (2F08028-BLK2)											
Mercury	6/8/22 12:40	ND	0.00200	mg/L							
LCS (2F08028-BS1)											
Mercury	6/8/22 12:40	0.005	0.00200	mg/L	0.00500		90.0	85-115			
LCS (2F08028-BS2)											
Mercury	6/8/22 12:40	0.005	0.00200	mg/L	0.00500		98.0	85-115			
LCS Dup (2F08028-BSD1)											
Mercury	6/8/22 12:40	0.004	0.00200	mg/L	0.00500		86.0	85-115	4.55	20	
LCS Dup (2F08028-BSD2)											
Mercury	6/8/22 12:40	0.005	0.00200	mg/L	0.00500		102	85-115	4.00	20	
Matrix Spike (2F08028-MS1) Source: 2206043-01											
Mercury	6/8/22 12:40	0.004	0.00200	mg/L	0.00500	ND	82.0	70-130			
Matrix Spike (2F08028-MS2) Source: 2206051-05											
Mercury	6/8/22 12:40	0.005	0.00200	mg/L	0.00500	ND	104	70-130			
Matrix Spike Dup (2F08028-MSD1) Source: 2206043-01											
Mercury	6/8/22 12:40	0.004	0.00200	mg/L	0.00500	ND	78.0	70-130	5.00	20	
Matrix Spike Dup (2F08028-MSD2) Source: 2206051-05											
Mercury	6/8/22 12:40	0.005	0.00200	mg/L	0.00500	ND	94.0	70-130	10.1	20	

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Micro-Methods Laboratory, Inc.

Revised Report

Tina Tomek For Teresa Meins, Inorganic Supervisor

Page 24 of 45

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

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

Reported:
01/12/2023 12:00

Certified Analyses Included in this Report

Analyte	Certification Code
<i>EPA 200.7 Rev 4.4 in Water</i>	
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
Lithium 610.362 [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
<i>EPA 200.8 Rev 5.4 in Water</i>	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [HHe]	C01,C02
Antimony [NG]	C01,C02
Arsenic [He]	C01,C02

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735

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

Reported:
01/12/2023 12:00

Arsenic [HHe]	C01,C02
Arsenic [NG]	C01,C02
Barium [He]	C01,C02
Beryllium [He]	C01,C02
Boron [NG]	C01,C02
Cadmium [He]	C01,C02
Cadmium [HHe]	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 [HHe]	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****

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 01/12/2023 12:00

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	LA Environmental Lab Accreditation Program	01960	06/30/2022
C02	The NELAC Institute (NELAP)	TNI01397	06/30/2022
C03	Ms Dept of Health (Drinking Water Microbiology)	MS00021	12/31/2022
C04	Ms Dept of Health (Drinking Water Chemistry)	MS00021	12/31/2022
C05	Ms DEQ Lead Firm Certification	PBF-00000028	03/24/2023
C06	MsDEQ Asbestos Inspector : C.D. Bingham	ABI-00001348	02/12/2023
C07	MsDEQ Air Monitor : C.D. Bingham	AM-011572	02/13/2023
C08	MsDEQ Asbestos Inspector: C. W. Meins	ABI-00001821	09/09/2022
C09	MsDEQ Air Monitor : C.W. Meins	AM-011189	02/13/2023
C14	MsDEQ Lead Paint Inspector : C.D. Bingham	PBI-00003690	01/29/2023
C15	MsDEQ Lead Paint Inspector : C.W. Meins	PBI-00001740	01/29/2023

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 Verification
CCV	Continuing Calibration Verification Standard
SSV	Secondary Source Verification 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.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735Project: CGLP CCR Annual
Project Number: [none]
Project Manager: Jim Ward**Reported:**
01/12/2023 12:00**Analyst Initials Key**

<u>FullName</u>	<u>Initials</u>
Charles L Vorhoff	CLV
Dortha L. Wells	DLW
Sarah E. Tomek	SET
Samantha C. Hall	SCH
Teresa Meins	TKM
Tina Tomek	TPT

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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 #

2206051

Company Name: Choctaw Generation Limited Partnership LLP

Project Manager:

Jim Ward

Address: 2391 Pensacola Rd.

Purchase Order #:

City: Ackerman State: MS Zip: 39735

Email Address:

Phone: 662-387-5758

Sampler Name Printed:

ETMAN EXTERLING

Fax:

Sampler Name Signed:

ETMAN EXTERLING

CGLP CCR

Annual

Project Name:	Sample Identification	Sampling Date/Time	Matrix Code	# of Containers	Preservative:	Fluoride	Antimony, Arsenic, Barium, Beryllium	Cadmium, Cobalt, Chromium, Lead	Lithium, Mercury	Molybdenum, Selenium	Thallium	Total Radium 226 & 228
Project #:					Grab (G) or Composite (C)							
	MMW-7	6/01/22 10:56	W	4	G	X	X	X	X	X	X	X
	MMW-9	5/31/22 11:45	W	4		X	X	X	X	X	X	X
	MMW-12	5/31/22 15:24	W	4		X	X	X	X	X	X	X
	MMW-13	6/01/22 08:58	W	4		X	X	X	X	X	X	X
	MMW-14	6/01/22 14:48	W	4		X	X	X	X	X	X	X
	Field Blank	6/01/22 11:27	W	4		X	X	X	X	X	X	X
	Duplicate		W	4		X	X	X	X	X	X	X
	OW-2	5/31/22 14:00	W	4		X	X	X	X	X	X	X
	CCR-2	5/31/22 16:20	W	4		X	X	X	X	X	X	X
	CCR-3	5/31/22 10:15	W	4		X	X	X	X	X	X	X
	CCR-4	5/31/22 14:53	W	4		X	X	X	X	X	X	X

Received on Ice: ☒ N Thermometer # 1528 Cooler # Sample Blank ☒ Cooler

Receipt Temp Corrected (°C)

Date & Time

BY:

Signature

Company

Date

Time

Relinquished by

Received by

Relinquished by

Received by

Relinquished by

Received by

Relinquished by

Notes:

If there are any questions or concerns for any of the samples, please call ETMAN EXTERLING 662-213-6698

Turn Around Time & Reporting
Our normal turn around time is 10 working days
☒ Normal
☐ Next Day* requests must be prior approved.
☐ 2nd Day*
☐ Other*
Phone
Mail
Fax
Email

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

Field Testing

ID# ID# ID# ID# ID#

Field Test 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 = ZnCAH1006

5 = ZnCAH1006 & NaOH

6 = HNO3

7 = Na2S2O3

8 = HCl

9 = NaHSO4

All Temps are Corrected Values



Chain of Custody Record

Print Form

PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423

www.micromethodslab.com

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

M-M Lab
MO #

2206651

Company Name: Choctaw Generation Limited Partnership LLP

Project Manager:

Jim Ward

Address: 2391 Pensacola Rd.

Purchase Order #:

City: Ackerman State: MS Zip: 39735

Email Address:

Phone: 662-387-5758

Sampler Name Printed:

ETMAN ESTERLING

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

Preservative:

List Analyses Requested

Field Testing

Matrix:

W = Water
DW = Drinking Water

S = Solid
SO = Soil
SE = Sediment
L = Liquid
A = Air
O = Oil
SL = Sludge

Project #:

Sample Identification

CCR-5

Sampling Date/Time

6/1/22 9:52

Matrix Code

W

of Containers

4

Grab (G) or Composite (C)

G

Fluoride

Antimony, Arsenic, Barium, Beryllium

Cadmium, Cobalt

Chromium, Lead

Lithium, Mercury

Molybdenum, Selenium

Thallium

Total Radium 226 & 228

Received on Ice? Y N Thermometer #

Cooler #

Receipt Temp Corrected (°C)

Date & Time

By:

Sample

Blank

Cooler

Notes:

All Temps are Corrected Values

Preservation:

1 = H2SO4
2 = H3PO4
3 = NaOH
4 = ZnCAH1006
5 = ZnCAH1006 & NaOH
6 = HNO3
7 = Na2S2O3
8 = HCl
9 = NaHSO4

Relinquished by

ETMAN ESTERLING

Signature

Company

Date

Time

Received by

FELIX

Signature

Company

Date

Time

Relinquished by

FELIX

Signature

Company

Date

Time

Received by

ETMAN ESTERLING

Signature

Company

Date

Time

Relinquished by

ETMAN ESTERLING

Signature

Company

Date

Time

Received by

ETMAN ESTERLING

Signature

Company

Date

Time

July 15, 2022

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

RE: Project: 2206051
Pace Project No.: 30496718

Dear Tina Tomek:

Enclosed are the analytical results for sample(s) received by the laboratory on June 10, 2022. 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,



David A. Pichette
david.pichette@pacelabs.com
(724)850-5617
Project Manager

Enclosures

cc: Accounts Payable, Micro-Methods Lab



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 2206051

Pace Project No.: 30496718

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2206051
Pace Project No.: 30496718

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30496718001	2206051-01	Water	06/01/22 10:56	06/10/22 10:15
30496718002	2206051-02	Water	05/31/22 11:45	06/10/22 10:15
30496718003	2206051-03	Water	05/31/22 15:24	06/10/22 10:15
30496718004	2206051-04	Water	06/01/22 08:58	06/10/22 10:15
30496718005	2206051-05	Water	06/01/22 11:48	06/10/22 10:15
30496718006	2206051-06	Water	06/01/22 11:27	06/10/22 10:15
30496718007	2206051-07	Water	06/01/22 00:00	06/10/22 10:15
30496718008	2206051-08	Water	05/31/22 14:00	06/10/22 10:15
30496718009	2206051-09	Water	05/31/22 16:20	06/10/22 10:15
30496718010	2206051-10	Water	05/31/22 10:15	06/10/22 10:15
30496718011	2206051-11	Water	05/31/22 14:53	06/10/22 10:15
30496718012	2206051-12	Water	05/31/22 09:52	06/10/22 10:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2206051
Pace Project No.: 30496718

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30496718001	2206051-01	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30496718002	2206051-02	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30496718003	2206051-03	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30496718004	2206051-04	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30496718005	2206051-05	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30496718006	2206051-06	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30496718007	2206051-07	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30496718008	2206051-08	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30496718009	2206051-09	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30496718010	2206051-10	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30496718011	2206051-11	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30496718012	2206051-12	EPA 903.1	SLC	1
		EPA 904.0	VAL	1

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206051
Pace Project No.: 30496718

Sample: 2206051-01		Lab ID: 30496718001	Collected: 06/01/22 10:56	Received: 06/10/22 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	07/13/22 15:31	13982-63-3	
	EPA 903.1	0.189 ± 0.268 (0.453) C:NA T:91%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	07/06/22 13:11	15262-20-1	
	EPA 904.0	0.233 ± 0.265 (0.551) C:74% T:91%					
Sample: 2206051-02		Lab ID: 30496718002	Collected: 05/31/22 11:45	Received: 06/10/22 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	07/13/22 15:31	13982-63-3	
	EPA 903.1	0.674 ± 0.459 (0.632) C:NA T:90%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	07/06/22 13:11	15262-20-1	
	EPA 904.0	1.20 ± 0.441 (0.633) C:76% T:90%					
Sample: 2206051-03		Lab ID: 30496718003	Collected: 05/31/22 15:24	Received: 06/10/22 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	07/13/22 15:31	13982-63-3	
	EPA 903.1	0.221 ± 0.272 (0.443) C:NA T:93%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	07/06/22 17:48	15262-20-1	
	EPA 904.0	0.488 ± 0.386 (0.766) C:75% T:93%					
Sample: 2206051-04		Lab ID: 30496718004	Collected: 06/01/22 08:58	Received: 06/10/22 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	07/13/22 15:31	13982-63-3	
	EPA 903.1	0.622 ± 0.395 (0.509) C:NA T:92%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	07/06/22 17:48	15262-20-1	
	EPA 904.0	0.334 ± 0.374 (0.782) C:73% T:92%					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206051
Pace Project No.: 30496718

Sample: 2206051-05		Lab ID: 30496718005	Collected: 06/01/22 11:48	Received: 06/10/22 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	07/13/22 15:31	13982-63-3	
	EPA 903.1	0.196 ± 0.353 (0.623) C:NA T:90%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	07/06/22 17:49	15262-20-1	
	EPA 904.0	0.134 ± 0.325 (0.725) C:71% T:90%					
Sample: 2206051-06		Lab ID: 30496718006	Collected: 06/01/22 11:27	Received: 06/10/22 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	07/13/22 15:31	13982-63-3	
	EPA 903.1	-0.0447 ± 0.291 (0.630) C:NA T:90%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	07/06/22 17:49	15262-20-1	
	EPA 904.0	0.679 ± 0.423 (0.795) C:74% T:90%					
Sample: 2206051-07		Lab ID: 30496718007	Collected: 06/01/22 00:00	Received: 06/10/22 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	07/13/22 15:31	13982-63-3	
	EPA 903.1	0.415 ± 0.348 (0.498) C:NA T:96%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	07/06/22 17:49	15262-20-1	
	EPA 904.0	0.682 ± 0.376 (0.674) C:78% T:96%					
Sample: 2206051-08		Lab ID: 30496718008	Collected: 05/31/22 14:00	Received: 06/10/22 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	07/13/22 15:31	13982-63-3	
	EPA 903.1	-0.0852 ± 0.264 (0.601) C:NA T:86%					
Radium-228	Pace Analytical Services - Greensburg			pCi/L	07/06/22 17:49	15262-20-1	
	EPA 904.0	0.119 ± 0.325 (0.730) C:76% T:86%					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2206051
Pace Project No.: 30496718

Sample: 2206051-09		Lab ID: 30496718009	Collected: 05/31/22 16:20	Received: 06/10/22 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	0.522 ± 0.367 (0.468) C:NA T:87%	pCi/L	07/13/22 15:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	1.47 ± 0.518 (0.737) C:81% T:87%	pCi/L	07/06/22 17:50	15262-20-1	
Sample: 2206051-10		Lab ID: 30496718010	Collected: 05/31/22 10:15	Received: 06/10/22 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	0.363 ± 0.311 (0.421) C:NA T:89%	pCi/L	07/13/22 15:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.888 ± 0.430 (0.730) C:77% T:89%	pCi/L	07/06/22 17:50	15262-20-1	
Sample: 2206051-11		Lab ID: 30496718011	Collected: 05/31/22 14:53	Received: 06/10/22 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	0.202 ± 0.286 (0.485) C:NA T:92%	pCi/L	07/13/22 15:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.639 ± 0.337 (0.563) C:75% T:92%	pCi/L	07/06/22 17:50	15262-20-1	
Sample: 2206051-12		Lab ID: 30496718012	Collected: 05/31/22 09:52	Received: 06/10/22 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	0.0814 ± 0.253 (0.489) C:NA T:86%	pCi/L	07/13/22 15:49	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.749 ± 0.417 (0.747) C:77% T:86%	pCi/L	07/06/22 17:50	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2206051

Pace Project No.: 30496718

QC Batch:	511739	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:	30496718001, 30496718002, 30496718003, 30496718004, 30496718005, 30496718006, 30496718007, 30496718008, 30496718009, 30496718010, 30496718011, 30496718012		

METHOD BLANK: 2480201 Matrix: Water

Associated Lab Samples: 30496718001, 30496718002, 30496718003, 30496718004, 30496718005, 30496718006, 30496718007, 30496718008, 30496718009, 30496718010, 30496718011, 30496718012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.165 ± 0.303 (0.541) C:NA T:87%	pCi/L	07/13/22 15:14	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2206051

Pace Project No.: 30496718

QC Batch:	511740	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:	30496718001, 30496718002, 30496718003, 30496718004, 30496718005, 30496718006, 30496718007, 30496718008, 30496718009, 30496718010, 30496718011, 30496718012		

METHOD BLANK: 2480203 Matrix: Water

Associated Lab Samples: 30496718001, 30496718002, 30496718003, 30496718004, 30496718005, 30496718006, 30496718007, 30496718008, 30496718009, 30496718010, 30496718011, 30496718012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.377 ± 0.322 (0.642) C:77% T:87%	pCi/L	07/06/22 13:23	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2206051
Pace Project No.: 30496718

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.

REPORT OF LABORATORY ANALYSIS

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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#: 30496718



Work Order: 2206051

Analysis	Due	Expires	Comments
Sample ID: 2206051-01 Water Sampled: 06/01/2022 10:56 Sample Name: MW-7			001
Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/29/2022 10:56			
<i>Containers Supplied:</i> 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2206051-02 Water Sampled: 05/31/2022 11:45 Sample Name: MW-9			002
Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/28/2022 11:45			
<i>Containers Supplied:</i> 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2206051-03 Water Sampled: 05/31/2022 15:24 Sample Name: MW-12			003
Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/28/2022 15:24			
<i>Containers Supplied:</i> 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2206051-04 Water Sampled: 06/01/2022 08:58 Sample Name: MW-13			004
Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/29/2022 08:58			
<i>Containers Supplied:</i> 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			
Sample ID: 2206051-05 Water Sampled: 06/01/2022 11:48 Sample Name: MW-14			005
Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/29/2022 11:48			

Released By Amah Jomich Date 4/7/22 10:30

Released By UPS Date

Released By Date

Released By Date

Released By Date

Received By UPS Date 4/7/22 10:30

Received By Z. Andrey Date 6-10-22 10:15

Received By Date

Received By Date

Received By Date



MICRO-METHODS

LABORATORY, INC.

SUBCONTRACT ORDER (Continued)

Work Order: 2206051 (Continued)

Analysis	Due	Expires	Comments
----------	-----	---------	----------

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2206051-06 *Water* **Sampled: 06/01/2022 11:27** **Sample Name: Field Blank**

006

Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/29/2022 11:27

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2206051-07 *Water* **Sampled: 06/01/2022 00:00** **Sample Name: Duplicate**

007

Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/29/2022 00:00

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2206051-08 *Water* **Sampled: 05/31/2022 14:00** **Sample Name: OW-2**

008

Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/28/2022 14:00

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2206051-09 *Water* **Sampled: 05/31/2022 16:20** **Sample Name: CCR-2**

009

Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/28/2022 16:20

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2206051-10 *Water* **Sampled: 05/31/2022 10:15** **Sample Name: CCR-3**

010

Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/28/2022 10:15

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2206051-11 *Water* **Sampled: 05/31/2022 14:53** **Sample Name: CCR-4**

011

Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/28/2022 14:53

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2206051-12 *Water* **Sampled: 06/01/2022 09:52** **Sample Name: CCR-5**

012

Released By

Date

Received By

Date

Released By

Date

Received By

Date

Released By

Date

Received By

Date

Released By

Date

Received By

Date

Released By

Date

Received By

Date

WO#: 30496718

PM: DAP

Due Date: 07/01/22

CLIENT: MICROMETHOD



**SUBCONTRACT
ORDER**
(Continued)

Work Order: 2206051 (Continued)

Analysis	Due	Expires	Comments
Sample ID: 2206051-12 Water Sampled: 06/01/2022 09:52 Sample Name: CCR-5			
Radium, Total 226 & 228 by EPA 903.1 & 90 06/10/2022 06/29/2022 09:52			
<i>Containers Supplied:</i> 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			

WO# : 30496718

PM: DAP Due Date: 07/01/22
CLIENT: MICROMETHOD

<u>Snahjomeh</u>	<u>6/7/22 @ 1630</u>
Released By	Date
<u>UPS</u>	
Released By	Date
Released By	Date
Released By	Date
Released By	Date

<u>UPS</u>	<u>6/7/22 @ 1630</u>
Received By	Date
<u>3 Adm</u>	<u>6-10-22 10:15</u>
Received By	Date
Received By	Date
Received By	Date
Received By	Date

Client Name: Micro-Methods

Project # _____

Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace OtherTracking #: 1Z3530630369965462 + 1Z3530630369234653
 Label 2a
 LIMS Login VPJnc
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#

10D4611Date and Initials of person examining contents: 6-16-22 2a

Comments:

Yes No N/A

Chain of Custody Present: ☒ 1.Chain of Custody Filled Out: ☒ 2.Chain of Custody Relinquished: ☒ 3.Sampler Name & Signature on COC: ☒ 4.Sample Labels match COC: ☒ 5.

-Includes date/time/ID

Matrix: WTSamples 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 sample field filtered ☒ 13.Organic Samples checked for dechlorination: ☒ 14.Filtered volume received for Dissolved tests ☒ 15.All containers have been checked for preservation. ☒

exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix

All containers meet method preservation requirements. ☒Initial when completed 2aDate/time of preservation 6-16-22 16:42

Lot # of added preservative

D622-0625Headspace in VOA Vials (>6mm): ☒ 17.Trip Blank Present: ☒ 18.Trip Blank Custody Seals Present ☒Rad Samples Screened < 0.5 mrem/hr ☒Initial when completed: 2aDate: 6-16-22Survey Meter SN: 1563

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution:

Custody seals on bottles☐ A check in this box indicates that additional information has been stored in ereports.

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

 W0#: 30496718
 PM: DAP
 CLIENT: MICROMETHOD
 Due Date: 07/01/22



WO#: 30496718

Micro-Methods Laboratory
2206051

PM: DAP Due Date: 07/01/22
CLIENT: MICROMETHOD

File Number 14460

Client

Site

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WG9U	WGKU	ZPLC
1	WT											2																
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12	WT																											

Container Codes

Glass		
GCUB	1 Gallon Jug with HNO3	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unpreserved	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	40mL clear VOA vial Na Thiosulfate
GCUB	1 Gallon Jug	40mL clear VOA vial HCl
AG1S	1L amber glass H2SO4	4oz amber wide jar
AG1H	1L amber glass HCl	4oz wide jar unpreserved
AG1T	1L amber glass Na Thiosulfate	500mL clear glass unpreserved
BG1U	1L clear glass unpreserved	500mL amber glass unpreserved
AG3S	250mL amber glass H2SO4	8oz wide jar unpreserved
AG3U	250mL amber glass unpreserved	

Plastic / Misc.		
GCUB	1 Gallon Cubitainer	Ezi
12GN	1/2 Gallon Cubitainer	VOAK
SP5T	120mL Coliform Na Thiosulfate	I
BP1N	1L plastic HNO3	ZPLC
BP1U	1L plastic unpreserved	Ziploc Bag
BP3S	250mL plastic H2SO4	WT
BP3N	250mL plastic HNO3	SL
BP3U	250mL plastic unpreserved	OL
BP3C	250mL plastic NAOH	WP
BP2S	500mL plastic H2SO4	
BP2U	500mL plastic unpreserved	



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

October 05, 2022

Jim Ward

Work Order # : 2209204

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman, MS 39735
RE: CGLP CCR Semi Annual

Purchase Order #: RDH16277 - Yr 2022

Enclosed are Micro-Methods Laboratory, Inc. results of analyses performed on samples received 09/14/2022 10:43. 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.

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim WardReported:
10/05/2022 11:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date/Time Sampled	Sampled by	Date/Time Received
MW-9	2209204-01	Water	09/12/2022 14:00	Kirk Shelton	09/14/2022 10:43
OW-2	2209204-02	Water	09/12/2022 16:58	Kirk Shelton	09/14/2022 10:43
MW-13	2209204-03	Water	09/12/2022 11:50	Kirk Shelton	09/14/2022 10:43
MW-7	2209204-04	Water	09/13/2022 11:48	Kirk Shelton	09/14/2022 10:43
MW-14	2209204-05	Water	09/13/2022 10:56	Kirk Shelton	09/14/2022 10:43
Field Blank	2209204-06	Water	09/13/2022 10:51	Kirk Shelton	09/14/2022 10:43
Duplicate	2209204-07	Water	09/13/2022 00:00	Kirk Shelton	09/14/2022 10:43
MW-12	2209204-08	Water	09/12/2022 16:30	Kirk Shelton	09/14/2022 10:43
CCR-2	2209204-09	Water	09/12/2022 15:39	Kirk Shelton	09/14/2022 10:43
CCR-3	2209204-10	Water	09/12/2022 14:45	Kirk Shelton	09/14/2022 10:43
CCR-4	2209204-11	Water	09/12/2022 13:00	Kirk Shelton	09/14/2022 10:43
CCR-5	2209204-12	Water	09/13/2022 09:55	Kirk Shelton	09/14/2022 10:43

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

Sample Receipt Conditions

Date/Time Received: 9/14/2022 10:43:00AM

Shipped by: Fed Ex

Received by: Sarah E. Tomek

Submitted by: Ethan Easterling

Date/Time Logged: 9/14/2022 11:13:00AM

Logged by: Sarah E. Tomek

 Cooler ID: client cooler #1

 Receipt Temperature: 0.8 °C

<i>Cooler Custody Seals Present</i>	Yes
<i>Containers Intact</i>	Yes
<i>COC/Labels Agree</i>	Yes
<i>Labels Complete</i>	Yes
<i>COC Complete</i>	Yes
<i>Volatile Vial Headspace >6mm</i>	No
<i>Field Sheet/Instructions Included</i>	No
<i>Samples Rejected/Documented in Log</i>	No
<i>Temp Taken From Temp Blank</i>	Yes
<i>Temp Taken From Sample Container</i>	No
<i>Temp Taken From Cooler</i>	No
<i>COC meets acceptance criteria</i>	Yes

<i>Received on Ice but Not Frozen</i>	Yes
<i>No Ice, Short Trip</i>	No
<i>Obvious Contamination</i>	No
<i>Rush to meet HT</i>	No
<i>Received within HT</i>	Yes
<i>Proper Containers for Analysis</i>	Yes
<i>Correct Preservation</i>	Yes
<i>Adequate Sample for Analysis</i>	Yes
<i>Sample Custody Seals Present</i>	Yes
<i>Samples Missing from COC/Cooler</i>	No

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

 Cooler ID: client cooler #2

 Receipt Temperature: 0.9 °C

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

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

 Cooler ID: client cooler #3

 Receipt Temperature: 3.1 °C

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



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:
10/05/2022 11:51

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

Anions-SM 4110B 2011

Qualifiers:

DL-5 Dilution performed due to matrix interference

Chloride, Sulfate as SO₄

2209204-01[MW-9], 2209204-02[OW-2], 2209204-08[MW-12], 2209204-04[MW-7], 2209204-10[CCR-3], 2209204-12[CCR-5]

L1 LCS and/or LCSD Recovery Limit exceeded.

Chloride

2115019-BSD1

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

MW-9
2209204-01 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	320	10.0	mg/L	20.0	2115019	DLW	09/15/2022 02:23	09/15/2022 02:23	SM 4110B 2011	DL-5
Sulfate as SO ₄	97.3	50.0	"	10.0	"	DLW	"	09/15/2022 02:58	"	DL-5
Fluoride	0.34	0.22	"	1.0	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	764	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.081	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 15:46	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	33.2	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	0.063	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	2116010	GWG	"	09/19/2022 13:10	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	0.00369	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cobalt [He]	0.0137	0.00100	"	"	"	GWG	"	"	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

OW-2
2209204-02 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	85.9	2.00	mg/L	4.0	2115019	DLW	09/15/2022 02:23	09/15/2022 03:33	SM 4110B 2011	DL-5
Sulfate as SO ₄	94.2	20.0	"	"	"	DLW	"	"	"	DL-5
Fluoride	0.24	0.22	"	1.0	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	374	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.046	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 15:57	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	38.4	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	0.060	0.040	"	"	"	CLV	"	"	"	

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

Antimony [He]	ND	0.00200	mg/L	1.0	2116010	GWG	"	09/19/2022 13:29	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

MW-13
2209204-03 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	4.14	0.500	mg/L	1.0	2115019	DLW	09/15/2022 02:23	09/15/2022 04:43	SM 4110B 2011	
Sulfate as SO ₄	7.62	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	126	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.185	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 16:01	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	20.0	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	2116010	GWG	"	09/19/2022 13:35	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

MW-7
2209204-04 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	3.50	0.500	mg/L	1.0	2115019	DLW	09/15/2022 02:23	09/15/2022 05:18	SM 4110B 2011	
Sulfate as SO ₄	40.2	20.0	"	4.0	"	DLW	"	"	"	DL-5
Fluoride	ND	0.22	"	1.0	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	152	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.078	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 16:04	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	31.5	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	2116010	GWG	"	09/19/2022 13:41	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

MW-14
2209204-05 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	18.3	0.500	mg/L	1.0	2115019	DLW	09/15/2022 02:23	09/15/2022 09:16	SM 4110B 2011	
Sulfate as SO ₄	9.61	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	75	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.012	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 16:08	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	0.580	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	2116010	GWG	"	09/19/2022 13:47	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	09/23/2022 13:14	"	
Cobalt [He]	ND	0.00100	"	"	"	GWG	"	09/19/2022 13:47	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

Field Blank
2209204-06 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	ND	0.500	mg/L	1.0	2115019	DLW	09/15/2022 02:23	09/15/2022 09:51	SM 4110B 2011	
Sulfate as SO ₄	ND	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	3	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	ND	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 16:12	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	2116010	GWG	"	09/19/2022 14:16	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

Duplicate
2209204-07 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	18.2	0.500	mg/L	1.0	2115019	DLW	09/15/2022 02:23	09/15/2022 10:26	SM 4110B 2011	
Sulfate as SO₄	9.96	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	73	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.012	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 16:15	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	0.601	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	2116010	GWG	"	09/19/2022 14:22	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cobalt [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

MW-12
2209204-08 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	38.0	2.00	mg/L	4.0	2115019	DLW	09/15/2022 02:23	09/15/2022 13:55	SM 4110B 2011	DL-5
Sulfate as SO₄	41.7	20.0	"	"	"	DLW	"	"	"	DL-5
Fluoride	ND	0.22	"	1.0	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	243	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.189	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 16:19	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	26.2	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	2116010	GWG	"	09/19/2022 14:28	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cobalt [He]	0.00467	0.00100	"	"	"	GWG	"	"	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

CCR-2
2209204-09 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	2.50	0.500	mg/L	1.0	2115019	DLW	09/15/2022 02:23	09/15/2022 14:30	SM 4110B 2011	
Sulfate as SO ₄	10.3	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	132	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.140	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 16:22	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	14.8	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	2116010	GWG	"	09/19/2022 14:35	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cobalt [He]	0.0103	0.00100	"	"	"	GWG	"	"	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

CCR-3
2209204-10 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
Classical Chemistry Parameters										
Chloride	5.30	0.500	mg/L	1.0	2115019	DLW	09/15/2022 02:23	09/15/2022 15:05	SM 4110B 2011	
Sulfate as SO ₄	164	50.0	"	10.0	"	DLW	"	09/16/2022 15:47	"	DL-5
Fluoride	ND	0.22	"	1.0	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	287	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	
Metals by EPA 200 Series Methods ICP-AES										
Barium 455.403 [Radial]	0.078	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 16:26	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	27.9	0.050	"	"	"	CLV	"	"	"	
Lithium 610.362 [Axial]	0.084	0.040	"	"	"	CLV	"	"	"	
Metals by EPA 200 Series Methods ICP-MS [Analysis Mode]										
Antimony [He]	ND	0.00200	mg/L	1.0	2116010	GWG	"	09/19/2022 14:53	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cobalt [He]	0.0122	0.00100	"	"	"	GWG	"	"	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

CCR-4
2209204-11 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	7.28	0.500	mg/L	1.0	2115019	DLW	09/15/2022 02:23	09/15/2022 17:24	SM 4110B 2011	
Sulfate as SO ₄	19.4	5.00	"	"	"	DLW	"	"	"	
Fluoride	ND	0.22	"	"	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	174	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.190	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 16:30	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	ND	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	24.9	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	2116010	GWG	"	09/19/2022 15:00	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cobalt [He]	0.00343	0.00100	"	"	"	GWG	"	"	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

CCR-5
2209204-12 (Water)

Analyte	Result	MRL	Units	Dil	Batch	Analyst	Date Time Prepared	Date Time Analyzed	Method	Qualifiers
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Classical Chemistry Parameters

Chloride	5.39	0.500	mg/L	1.0	2115019	DLW	09/15/2022 02:23	09/15/2022 18:34	SM 4110B 2011	
Sulfate as SO ₄	218	50.0	"	10.0	"	DLW	"	09/16/2022 16:22	"	DL-5
Fluoride	ND	0.22	"	1.0	2114052	ASC	09/14/2022 13:00	09/14/2022 16:27	SM 4500-F C 2011	
Total Dissolved Solids	515	1	"	"	2120033	DLW	09/16/2022 16:25	09/19/2022 16:00	SM 2540 C-2015	

Metals by EPA 200 Series Methods ICP-AES

Barium 455.403 [Radial]	0.081	0.010	mg/L	1.0	2116012	CLV	09/16/2022 09:45	09/19/2022 16:41	EPA 200.7 Rev 4.4	
Boron 249.773 [Radial]	0.101	0.050	"	"	"	CLV	"	"	"	
Calcium 315.887 [Radial]	64.5	0.100	"	2.0	"	CLV	"	09/23/2022 11:57	"	
Lithium 610.362 [Axial]	0.064	0.040	"	1.0	"	CLV	"	09/19/2022 16:41	"	

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

Antimony [He]	ND	0.00200	mg/L	1.0	2116010	GWG	"	09/19/2022 15:06	EPA 200.8 Rev 5.4	
Arsenic [NG]	ND	0.00200	"	"	"	GWG	"	"	"	
Beryllium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cadmium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Chromium [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Cobalt [He]	0.00313	0.00100	"	"	"	GWG	"	"	"	
Lead [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Molybdenum [He]	ND	0.00100	"	"	"	GWG	"	"	"	
Selenium [NG]	ND	0.00500	"	"	"	GWG	"	"	"	



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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:
10/05/2022 11:51

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 2114052 - Default Prep GenChem											
Blank (2114052-BLK1)											
Fluoride	9/14/22 16:27	ND	0.22	mg/L							
LCS (2114052-BS1)											
Fluoride	9/14/22 16:27	2.01	0.22	mg/L	2.00		101	83.3-107			
LCS Dup (2114052-BSD1)											
Fluoride	9/14/22 16:27	2.02	0.22	mg/L	2.00		101	83.3-107	0.496	30	
Duplicate (2114052-DUP1) Source: 2209204-01											
Fluoride	9/14/22 16:27	0.31	0.22	mg/L		0.34			8.05	20	
Matrix Spike (2114052-MS1) Source: 2209204-03											
Fluoride	9/14/22 16:27	0.65	0.22	mg/L	0.500	0.16	99.2	79.3-113			
Matrix Spike Dup (2114052-MSD1) Source: 2209204-03											
Fluoride	9/14/22 16:27	0.65	0.22	mg/L	0.500	0.16	98.0	79.3-113	0.926	30	
Batch 2115019 - Default Prep GenChem											
Blank (2115019-BLK1)											
Chloride	9/15/22 0:39	ND	0.500	mg/L							
Sulfate as SO4	9/15/22 0:39	ND	5.00	"							
Blank (2115019-BLK2)											
Sulfate as SO4	9/16/22 14:03	ND	5.00	mg/L							
LCS (2115019-BS1)											
Chloride	9/15/22 1:14	9.82	0.500	mg/L	10.0		98.2	87.4-108			
Sulfate as SO4	9/15/22 1:14	9.38	5.00	"	10.0		93.8	83.3-109			

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 2115019 - Default Prep GenChem											
LCS (2115019-BS2)											
Sulfate as SO4	9/16/22 14:38	9.53	5.00	mg/L	10.0		95.3	83.3-109			
LCS Dup (2115019-BSD1)											
Chloride	9/15/22 0:04	11.9	0.500	mg/L	10.0		119	87.4-108	19.0	20	L1
Sulfate as SO4	9/15/22 0:04	10.1	5.00	"	10.0		101	83.3-109	7.81	20	
LCS Dup (2115019-BSD2)											
Sulfate as SO4	9/16/22 15:12	9.62	5.00	mg/L	10.0		96.2	83.3-109	0.951	20	
Duplicate (2115019-DUP1) Source: 2209204-07											
Chloride	9/15/22 12:11	18.0	0.500	mg/L		18.2			1.18	20	
Sulfate as SO4	9/15/22 12:11	10.5	5.00	"		9.96			5.40	20	
Matrix Spike (2115019-MS1) Source: 2209204-07											
Chloride	9/15/22 12:45	37.8	1.00	mg/L	20.0	18.2	97.9	64.8-131			
Sulfate as SO4	9/15/22 12:45	31.0	10.0	"	20.0	9.96	105	53.2-148			
Matrix Spike Dup (2115019-MSD1) Source: 2209204-07											
Chloride	9/15/22 13:20	38.2	1.00	mg/L	20.0	18.2	99.9	64.8-131	1.03	20	
Sulfate as SO4	9/15/22 13:20	31.7	10.0	"	20.0	9.96	109	53.2-148	2.55	20	
Batch 2120033 - Default Prep GenChem											
Blank (2120033-BLK1)											
Total Dissolved Solids	9/19/22 16:00	ND	1	mg/L							
LCS (2120033-BS1)											
Total Dissolved Solids	9/19/22 16:00	121	1	mg/L	150		80.7	65-105			



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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:
10/05/2022 11:51

Classical Chemistry Parameters - Quality Control

Analyte	Analyzed	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifiers
Batch 2I20033 - Default Prep GenChem											
LCS Dup (2I20033-BSD1)											
Total Dissolved Solids	9/19/22 16:00	127	1	mg/L	150		84.7	65-105	4.84	15	
Duplicate (2I20033-DUP1) Source: 2209204-07											
Total Dissolved Solids	9/19/22 16:00	74	1	mg/L		73			1.36	10	
Duplicate (2I20033-DUP2) Source: 2209204-11											
Total Dissolved Solids	9/19/22 16:00	182	1	mg/L		174			4.49	10	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

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 2116012 - EPA 200.2 DCN 1017 Rev 10											
Blank (2116012-BLK1)											
Barium 455.403 [Radial]	9/19/22 15:35	ND	0.010	mg/L							
Boron 249.773 [Radial]	9/19/22 15:35	ND	0.050	"							
Calcium 315.887 [Radial]	9/19/22 15:35	ND	0.050	"							
Lithium 610.362 [Axial]	9/19/22 15:35	ND	0.040	"							
LCS (2116012-BS1)											
Barium 455.403 [Radial]	9/19/22 15:39	0.219	0.010	mg/L	0.200		110	85-115			
Boron 249.773 [Radial]	9/19/22 15:39	0.230	0.050	"	0.200		115	85-115			
Calcium 315.887 [Radial]	9/19/22 15:39	0.198	0.050	"	0.200		98.9	85-115			
Lithium 610.362 [Axial]	9/19/22 15:39	0.198	0.040	"	0.200		98.9	85-115			
LCS Dup (2116012-BSD1)											
Barium 455.403 [Radial]	9/19/22 15:43	0.221	0.010	mg/L	0.200		110	85-115	0.846	20	
Boron 249.773 [Radial]	9/19/22 15:43	0.230	0.050	"	0.200		115	85-115	0.0977	20	
Calcium 315.887 [Radial]	9/19/22 15:43	0.196	0.050	"	0.200		98.2	85-115	0.692	20	
Lithium 610.362 [Axial]	9/19/22 15:43	0.197	0.040	"	0.200		98.4	85-115	0.534	20	
Duplicate (2116012-DUP1) Source: 2209204-01											
Calcium 315.887 [Radial]	9/19/22 15:50	33.6	0.050	mg/L		33.2			1.36	20	
Duplicate (2116012-DUP2) Source: 2209204-11											
Calcium 315.887 [Radial]	9/19/22 16:33	25.1	0.050	mg/L		24.9			1.01	20	
Matrix Spike (2116012-MS1) Source: 2209204-01											
Barium 455.403 [Radial]	9/19/22 15:50	0.293	0.010	mg/L	0.200	0.081	106	70-130			
Boron 249.773 [Radial]	9/19/22 15:50	0.248	0.050	"	0.200	0.035	107	70-130			
Calcium 315.887 [Radial]	9/19/22 15:50	33.6	0.050	"	0.200	33.2	228	70-130			
Lithium 610.362 [Axial]	9/19/22 15:50	0.245	0.040	"	0.200	0.063	91.1	70-130			

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

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 2116012 - EPA 200.2 DCN 1017 Rev 10											
Matrix Spike (2116012-MS2)				Source: 2209204-11							
Barium 455.403 [Radial]	9/19/22 16:33	0.397	0.010	mg/L	0.200	0.190	103	70-130			
Boron 249.773 [Radial]	9/19/22 16:33	0.250	0.050	"	0.200	0.038	106	70-130			
Lithium 610.362 [Axial]	9/19/22 16:33	0.234	0.040	"	0.200	0.032	101	70-130			
Matrix Spike Dup (2116012-MSD1)				Source: 2209204-01							
Barium 455.403 [Radial]	9/19/22 15:54	0.291	0.010	mg/L	0.200	0.081	105	70-130	0.705	20	
Boron 249.773 [Radial]	9/19/22 15:54	0.244	0.050	"	0.200	0.035	105	70-130	1.71	20	
Calcium 315.887 [Radial]	9/19/22 15:54	33.6	0.050	"	0.200	33.2	208	70-130	0.117	20	
Lithium 610.362 [Axial]	9/19/22 15:54	0.245	0.040	"	0.200	0.063	91.0	70-130	0.104	20	
Matrix Spike Dup (2116012-MSD2)				Source: 2209204-11							
Barium 455.403 [Radial]	9/19/22 16:37	0.394	0.010	mg/L	0.200	0.190	102	70-130	0.882	20	
Boron 249.773 [Radial]	9/19/22 16:37	0.249	0.050	"	0.200	0.038	105	70-130	0.129	20	
Lithium 610.362 [Axial]	9/19/22 16:37	0.231	0.040	"	0.200	0.032	99.5	70-130	1.45	20	

Choctaw Generation LP
 2391 Pensacola Rd.
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 Project: CGLP CCR Semi Annual
 Project Number: [none]
 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
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Batch 2116010 - EPA 200.2 DCN 1017 Rev 10

Blank (2116010-BLK1)

Antimony [He]	9/19/22 11:57	ND	0.00200	mg/L							
Arsenic [NG]	9/19/22 11:57	ND	0.00200	"							
Beryllium [He]	9/19/22 11:57	ND	0.00100	"							
Cadmium [He]	9/19/22 11:57	ND	0.00100	"							
Chromium [He]	9/19/22 11:57	ND	0.00100	"							
Cobalt [He]	9/19/22 11:57	ND	0.00100	"							
Lead [He]	9/19/22 11:57	ND	0.00100	"							
Molybdenum [He]	9/19/22 11:57	ND	0.00100	"							
Selenium [NG]	9/19/22 11:57	ND	0.00500	"							

LCS (2116010-BS1)

Antimony [He]	9/19/22 12:03	0.103	0.00200	mg/L	0.100		103	85-115			
Arsenic [NG]	9/19/22 12:03	0.100	0.00200	"	0.100		100	85-115			
Beryllium [He]	9/19/22 12:03	0.103	0.00100	"	0.100		103	85-115			
Cadmium [He]	9/19/22 12:03	0.103	0.00100	"	0.100		103	85-115			
Chromium [He]	9/19/22 12:03	0.104	0.00100	"	0.100		104	85-115			
Cobalt [He]	9/19/22 12:03	0.104	0.00100	"	0.100		104	85-115			
Lead [He]	9/19/22 12:03	0.102	0.00100	"	0.100		102	85-115			
Molybdenum [He]	9/19/22 12:03	0.099	0.00100	"	0.100		99.4	85-115			
Selenium [NG]	9/19/22 12:03	0.102	0.00500	"	0.100		102	85-115			

LCS Dup (2116010-BSD1)

Antimony [He]	9/19/22 12:09	0.103	0.00200	mg/L	0.100		103	85-115	0.126	20	
Arsenic [NG]	9/19/22 12:09	0.100	0.00200	"	0.100		100	85-115	0.156	20	
Beryllium [He]	9/19/22 12:09	0.104	0.00100	"	0.100		104	85-115	1.44	20	
Cadmium [He]	9/19/22 12:09	0.103	0.00100	"	0.100		103	85-115	0.117	20	
Chromium [He]	9/19/22 12:09	0.103	0.00100	"	0.100		103	85-115	1.58	20	
Cobalt [He]	9/19/22 12:09	0.103	0.00100	"	0.100		103	85-115	1.37	20	
Lead [He]	9/19/22 12:09	0.101	0.00100	"	0.100		101	85-115	1.08	20	
Molybdenum [He]	9/19/22 12:09	0.100	0.00100	"	0.100		99.5	85-115	0.0820	20	
Selenium [NG]	9/19/22 12:09	0.101	0.00500	"	0.100		101	85-115	0.914	20	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

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 2116010 - EPA 200.2 DCN 1017 Rev 10

Matrix Spike (2116010-MS1)

Source: 2209204-01

Antimony [He]	9/19/22 13:16	0.107	0.00200	mg/L	0.100	ND	107	70-130			
Arsenic [NG]	9/19/22 13:16	0.098	0.00200	"	0.100	ND	97.8	70-130			
Beryllium [He]	9/19/22 13:16	0.101	0.00100	"	0.100	0.004	97.8	70-130			
Cadmium [He]	9/19/22 13:16	0.101	0.00100	"	0.100	0.0005	101	70-130			
Chromium [He]	9/19/22 13:16	0.099	0.00100	"	0.100	0.0002	98.7	70-130			
Cobalt [He]	9/19/22 13:16	0.113	0.00100	"	0.100	0.014	98.9	70-130			
Lead [He]	9/19/22 13:16	0.103	0.00100	"	0.100	0.0008	102	70-130			
Molybdenum [He]	9/19/22 13:16	0.109	0.00100	"	0.100	ND	109	70-130			
Selenium [NG]	9/19/22 13:16	0.097	0.00500	"	0.100	ND	97.5	70-130			

Matrix Spike (2116010-MS2)

Source: 2209204-09

Antimony [He]	9/19/22 14:41	0.106	0.00200	mg/L	0.100	ND	106	70-130			
Arsenic [NG]	9/19/22 14:41	0.096	0.00200	"	0.100	ND	95.9	70-130			
Beryllium [He]	9/19/22 14:41	0.104	0.00100	"	0.100	ND	104	70-130			
Cadmium [He]	9/19/22 14:41	0.104	0.00100	"	0.100	ND	104	70-130			
Chromium [He]	9/19/22 14:41	0.104	0.00100	"	0.100	ND	104	70-130			
Cobalt [He]	9/19/22 14:41	0.115	0.00100	"	0.100	0.010	105	70-130			
Lead [He]	9/19/22 14:41	0.102	0.00100	"	0.100	ND	102	70-130			
Molybdenum [He]	9/19/22 14:41	0.103	0.00100	"	0.100	ND	103	70-130			
Selenium [NG]	9/19/22 14:41	0.097	0.00500	"	0.100	ND	97.4	70-130			

Matrix Spike Dup (2116010-MSD1)

Source: 2209204-01

Antimony [He]	9/19/22 13:22	0.106	0.00200	mg/L	0.100	ND	106	70-130	0.749	20	
Arsenic [NG]	9/19/22 13:22	0.098	0.00200	"	0.100	ND	97.6	70-130	0.179	20	
Beryllium [He]	9/19/22 13:22	0.102	0.00100	"	0.100	0.004	97.9	70-130	0.110	20	
Cadmium [He]	9/19/22 13:22	0.100	0.00100	"	0.100	0.0005	99.8	70-130	0.878	20	
Chromium [He]	9/19/22 13:22	0.099	0.00100	"	0.100	0.0002	99.1	70-130	0.424	20	
Cobalt [He]	9/19/22 13:22	0.113	0.00100	"	0.100	0.014	99.6	70-130	0.599	20	
Lead [He]	9/19/22 13:22	0.102	0.00100	"	0.100	0.0008	102	70-130	0.670	20	
Molybdenum [He]	9/19/22 13:22	0.107	0.00100	"	0.100	ND	107	70-130	1.19	20	
Selenium [NG]	9/19/22 13:22	0.097	0.00500	"	0.100	ND	97.2	70-130	0.229	20	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

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
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Batch 2116010 - EPA 200.2 DCN 1017 Rev 10

Matrix Spike Dup (2116010-MSD2)

Source: 2209204-09

Antimony [He]	9/19/22 14:47	0.106	0.00200	mg/L	0.100	ND	106	70-130	0.199	20	
Arsenic [NG]	9/19/22 14:47	0.096	0.00200	"	0.100	ND	95.7	70-130	0.177	20	
Beryllium [He]	9/19/22 14:47	0.101	0.00100	"	0.100	ND	101	70-130	3.04	20	
Cadmium [He]	9/19/22 14:47	0.104	0.00100	"	0.100	ND	104	70-130	0.192	20	
Chromium [He]	9/19/22 14:47	0.102	0.00100	"	0.100	ND	102	70-130	1.76	20	
Cobalt [He]	9/19/22 14:47	0.111	0.00100	"	0.100	0.010	101	70-130	3.37	20	
Lead [He]	9/19/22 14:47	0.101	0.00100	"	0.100	ND	101	70-130	0.990	20	
Molybdenum [He]	9/19/22 14:47	0.102	0.00100	"	0.100	ND	102	70-130	0.263	20	
Selenium [NG]	9/19/22 14:47	0.098	0.00500	"	0.100	ND	98.0	70-130	0.644	20	

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

Certified Analyses Included in this Report

Analyte	Certification Code
<i>EPA 200.7 Rev 4.4 in Water</i>	
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
Lithium 610.362 [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
<i>EPA 200.8 Rev 5.4 in Water</i>	
Aluminum [He]	C01,C02
Antimony [He]	C01,C02
Antimony [HHe]	C01,C02
Antimony [NG]	C01,C02
Arsenic [He]	C01,C02
Arsenic [HHe]	C01,C02
Arsenic [NG]	C01,C02

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

Barium [He]	C01,C02
Beryllium [He]	C01,C02
Boron [NG]	C01,C02
Cadmium [He]	C01,C02
Cadmium [HHe]	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 [HHe]	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

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

Choctaw Generation LP
 2391 Pensacola Rd.
 Ackerman MS, 39735

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

 Reported:
 10/05/2022 11:51

Laboratory Accreditations/Certifications

Code	Description	Number	Expires
C01	LA Environmental Lab Accreditation Program	01960	06/30/2022
C02	The NELAC Institute (NELAP)	TNI01397	06/30/2022
C03	Ms Dept of Health (Drinking Water Microbiology)	MS00021	12/31/2022
C04	Ms Dept of Health (Drinking Water Chemistry)	MS00021	12/31/2022
C05	Ms DEQ Lead Firm Certification	PBF-00000028	03/24/2023
C06	MsDEQ Asbestos Inspector : C.D. Bingham	ABI-00001348	02/12/2023
C07	MsDEQ Air Monitor : C.D. Bingham	AM-011572	02/13/2023
C08	MsDEQ Asbestos Inspector: C. W. Meins	ABI-00001821	09/09/2022
C09	MsDEQ Air Monitor : C.W. Meins	AM-011189	02/13/2023
C14	MsDEQ Lead Paint Inspector : C.D. Bingham	PBI-00003690	01/29/2023
C15	MsDEQ Lead Paint Inspector : C.W. Meins	PBI-00001740	01/29/2023

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 Verification 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.

Choctaw Generation LP
2391 Pensacola Rd.
Ackerman MS, 39735Project: CGLP CCR Semi Annual
Project Number: [none]
Project Manager: Jim Ward**Reported:**
10/05/2022 11:51**Analyst Initials Key**

<u>FullName</u>	<u>Initials</u>
Alexandria S Calloway	ASC
Charles L Vorhoff	CLV
Dortha L. Wells	DLW
Garrett Givhan	GWG
Sarah E. Tomek	SET
Teresa Meins	TKM
Tina Tomek	TPT



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 #
1220091204

Company Name: Choctaw Generation Limited Partnership LLP				Project Manager: Jim Ward			
Address: 2391 Pensacola Rd.				Purchase Order #:			
City: Ackerman		State: MS		Zip: 39735		Email Address: Kshelton@envirocomp.net	
Phone: 662-387-5758				Sampler Name Printed: Kshelton			
Fax:				Sampler Name Signed: <i>[Signature]</i>			
Project Name: CGLP CCR				List Analyses Requested			
Project #:				Preservative:			
Sample Identification				# 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			
MW-9				9-12-22, 14:00 W			
OW-2				9-12-22, 16:58 W			
MW-13				11:50, 9-12-22, 16:58 W			
MW-7				9-13-22, 11:48 W			
MW-14				9-13-22, 10:56 W			
Field Blank				9-13-22, 10:51 W			
Duplicate				9-13-22, 10:51 W			
MW-12				9-12-22, 16:30 W			
CCR-2				9-12-22, 15:37 W			
CCR-3				9-12-22, 14:35 W			
CCR-4				9-12-22, 13:00 W			
Received on Ice? <input checked="" type="checkbox"/> N				Thermometer# 59 Cooler # Blank			
Date & Time				BY: <i>[Signature]</i> Sample <input checked="" type="checkbox"/> Blank <input type="checkbox"/> Cooler <input type="checkbox"/>			
Printed Name		Signature		Company		Date	
Relinquished by		<i>[Signature]</i>		ECS		9/13/22 16:00	
Received by		<i>[Signature]</i>					
Relinquished by		<i>[Signature]</i>		MM		9/14/22 1043	
Received by		<i>[Signature]</i>					
Relinquished by							
Received by							

Notes:

Please notify us once all coolers are received (3 each)

Please ship ECS 4-day coolers back to us immediately.

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 = ZnCAH1006

5 = ZnCAH1006 & NaOH

6 = HNO3

7 = Na2S2O3

8 = HCl

9 = NaHSO4

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 ☐

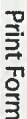
DCN# F316 Rev.#5

Physical Address: 6500 Sunplex Drive, Ocean Springs MS 39564

client cooler #1 0.8°C

client cooler #2 0.9°C

client cooler #3 3.1°C



2209204

M-M Lab
WO #

LELAP ID # 01960
TNI ID # TNI01397

Page 32 of 47

Issued 8/15/2022 SCH

October 04, 2022

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

RE: Project: 2209204
Pace Project No.: 30523247

Dear Tina Tomek:

Enclosed are the analytical results for sample(s) received by the laboratory on September 20, 2022. 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,



David A. Pichette
david.pichette@pacelabs.com
(724)850-5617
Project Manager

Enclosures

cc: Accounts Payable, Micro-Methods Lab



REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: 2209204

Pace Project No.: 30523247

Pace Analytical Services Pennsylvania

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2209204
Pace Project No.: 30523247

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30523247001	2209204-01	Water	09/12/22 14:00	09/20/22 09:45
30523247002	2209204-02	Water	09/12/22 16:58	09/20/22 09:45
30523247003	2209204-03	Water	09/12/22 11:50	09/20/22 09:45
30523247004	2209204-04	Water	09/13/22 11:48	09/20/22 09:45
30523247005	2209204-05	Water	09/13/22 10:56	09/20/22 09:45
30523247006	2209204-06	Water	09/13/22 10:51	09/20/22 09:45
30523247007	2209204-07	Water	09/13/22 00:00	09/20/22 09:45
30523247008	2209204-08	Water	09/12/22 16:30	09/20/22 09:45
30523247009	2209204-09	Water	09/12/22 15:39	09/20/22 09:45
30523247010	2209204-10	Water	09/12/22 14:45	09/20/22 09:45
30523247011	2209204-11	Water	09/12/22 13:00	09/20/22 09:45
30523247012	2209204-12	Water	09/13/22 09:55	09/20/22 09:45

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2209204
Pace Project No.: 30523247

Lab ID	Sample ID	Method	Analysts	Analytes Reported
30523247001	2209204-01	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30523247002	2209204-02	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30523247003	2209204-03	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30523247004	2209204-04	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30523247005	2209204-05	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30523247006	2209204-06	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30523247007	2209204-07	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30523247008	2209204-08	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30523247009	2209204-09	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30523247010	2209204-10	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30523247011	2209204-11	EPA 903.1	SLC	1
		EPA 904.0	VAL	1
30523247012	2209204-12	EPA 903.1	SLC	1
		EPA 904.0	VAL	1

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209204
Pace Project No.: 30523247

Sample: 2209204-01		Lab ID: 30523247001	Collected: 09/12/22 14:00	Received: 09/20/22 09:45	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	1.64 ± 0.727 (0.212) C:NA T:92%		pCi/L	09/30/22 17:16	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.958 ± 0.548 (1.01) C:76% T:89%		pCi/L	10/03/22 15:30	15262-20-1	
Sample: 2209204-02		Lab ID: 30523247002	Collected: 09/12/22 16:58	Received: 09/20/22 09:45	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	0.000 ± 0.498 (1.05) C:NA T:99%		pCi/L	09/30/22 17:16	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.611 ± 0.489 (0.972) C:78% T:86%		pCi/L	10/03/22 15:30	15262-20-1	
Sample: 2209204-03		Lab ID: 30523247003	Collected: 09/12/22 11:50	Received: 09/20/22 09:45	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	0.139 ± 0.385 (0.747) C:NA T:98%		pCi/L	09/30/22 17:16	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	1.16 ± 0.615 (1.12) C:76% T:90%		pCi/L	10/03/22 15:30	15262-20-1	
Sample: 2209204-04		Lab ID: 30523247004	Collected: 09/13/22 11:48	Received: 09/20/22 09:45	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	0.302 ± 0.469 (0.813) C:NA T:91%		pCi/L	09/30/22 17:16	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 904.0	0.754 ± 0.537 (1.05) C:76% T:90%		pCi/L	10/03/22 15:31	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209204
Pace Project No.: 30523247

Sample: 2209204-05		Lab ID: 30523247005	Collected: 09/13/22 10:56	Received: 09/20/22 09:45	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	0.000 ± 0.436 (0.945) C:NA T:95%	pCi/L	09/30/22 17:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.855 ± 0.456 (0.825) C:74% T:91%	pCi/L	10/03/22 15:54	15262-20-1	
Sample: 2209204-06		Lab ID: 30523247006	Collected: 09/13/22 10:51	Received: 09/20/22 09:45	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	0.144 ± 0.330 (0.196) C:NA T:100%	pCi/L	09/30/22 17:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.819 ± 0.404 (0.697) C:79% T:87%	pCi/L	10/03/22 15:54	15262-20-1	
Sample: 2209204-07		Lab ID: 30523247007	Collected: 09/13/22 00:00	Received: 09/20/22 09:45	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	0.287 ± 0.445 (0.771) C:NA T:97%	pCi/L	09/30/22 17:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.664 ± 0.382 (0.696) C:75% T:93%	pCi/L	10/03/22 15:54	15262-20-1	
Sample: 2209204-08		Lab ID: 30523247008	Collected: 09/12/22 16:30	Received: 09/20/22 09:45	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	0.444 ± 0.409 (0.241) C:NA T:91%	pCi/L	09/30/22 17:30	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 904.0	0.766 ± 0.372 (0.610) C:72% T:85%	pCi/L	10/03/22 15:55	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2209204
Pace Project No.: 30523247

Sample: 2209204-09		Lab ID: 30523247009	Collected: 09/12/22 15:39	Received: 09/20/22 09:45	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No. Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/30/22 17:30	13982-63-3
	EPA 903.1	1.06 ± 0.611 (0.239) C:NA T:92%				
Radium-228	Pace Analytical Services - Greensburg			pCi/L	10/03/22 15:55	15262-20-1
	EPA 904.0	1.11 ± 0.425 (0.594) C:72% T:87%				
Sample: 2209204-10		Lab ID: 30523247010	Collected: 09/12/22 14:45	Received: 09/20/22 09:45	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No. Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/30/22 17:30	13982-63-3
	EPA 903.1	0.360 ± 0.677 (1.20) C:NA T:99%				
Radium-228	Pace Analytical Services - Greensburg			pCi/L	10/03/22 15:55	15262-20-1
	EPA 904.0	0.766 ± 0.429 (0.768) C:69% T:86%				
Sample: 2209204-11		Lab ID: 30523247011	Collected: 09/12/22 13:00	Received: 09/20/22 09:45	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No. Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/30/22 17:30	13982-63-3
	EPA 903.1	0.917 ± 0.510 (0.191) C:NA T:101%				
Radium-228	Pace Analytical Services - Greensburg			pCi/L	10/03/22 15:55	15262-20-1
	EPA 904.0	1.00 ± 0.426 (0.678) C:74% T:91%				
Sample: 2209204-12		Lab ID: 30523247012	Collected: 09/13/22 09:55	Received: 09/20/22 09:45	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No. Qual
Radium-226	Pace Analytical Services - Greensburg			pCi/L	09/30/22 17:30	13982-63-3
	EPA 903.1	0.485 ± 0.392 (0.219) C:NA T:95%				
Radium-228	Pace Analytical Services - Greensburg			pCi/L	10/03/22 15:55	15262-20-1
	EPA 904.0	0.495 ± 0.365 (0.700) C:68% T:87%				

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2209204

Pace Project No.: 30523247

QC Batch:	534405	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:	30523247001, 30523247002, 30523247003, 30523247004, 30523247005, 30523247006, 30523247007, 30523247008, 30523247009, 30523247010, 30523247011, 30523247012		

METHOD BLANK: 2592830 Matrix: Water

Associated Lab Samples: 30523247001, 30523247002, 30523247003, 30523247004, 30523247005, 30523247006, 30523247007, 30523247008, 30523247009, 30523247010, 30523247011, 30523247012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.122 ± 0.280 (0.451) C:NA T:94%	pCi/L	09/30/22 17:01	

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: 2209204

Pace Project No.: 30523247

QC Batch:	534407	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:	30523247001, 30523247002, 30523247003, 30523247004, 30523247005, 30523247006, 30523247007, 30523247008, 30523247009, 30523247010, 30523247011, 30523247012		

METHOD BLANK:	2592835	Matrix:	Water
Associated Lab Samples:	30523247001, 30523247002, 30523247003, 30523247004, 30523247005, 30523247006, 30523247007, 30523247008, 30523247009, 30523247010, 30523247011, 30523247012		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0140 ± 0.284 (0.660) C:74% T:93%	pCi/L	10/03/22 12:29	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 2209204
Pace Project No.: 30523247

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.

REPORT OF LABORATORY ANALYSIS

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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# : 30523247



Work Order: 2209204

Analysis	Due	Expires	Comments
----------	-----	---------	----------

Sample ID: 2209204-01 *Water* **Sampled: 09/12/2022 14:00** **Sample Name: MW-9**

Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/10/2022 14:00

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2209204-02 *Water* **Sampled: 09/12/2022 16:58** **Sample Name: OW-2**

Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/10/2022 16:58

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2209204-03 *Water* **Sampled: 09/12/2022 11:50** **Sample Name: MW-13**

Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/10/2022 11:50

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2209204-04 *Water* **Sampled: 09/13/2022 11:48** **Sample Name: MW-7**

Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/11/2022 11:48

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2209204-05 *Water* **Sampled: 09/13/2022 10:56** **Sample Name: MW-14**

Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/11/2022 10:56

Smah Jomeh *9/15/22 1630*
Released By Date

UPS
Released By Date

Released By Date

Released By Date

Released By Date

UPS *9/15/22 1630*
Received By Date

Zy Anderson *9-20-22 9:45*
Received By Date

Received By Date

Received By Date

Received By Date



MICRO-METHODS

LABORATORY, INC.

SUBCONTRACT ORDER (Continued)

Work Order: 2209204 (Continued)

#30523247

Analysis	Due	Expires	Comments
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Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2209204-06 *Water* **Sampled: 09/13/2022 10:51** **Sample Name: Field Blank**

Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/11/2022 10:51

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2209204-07 *Water* **Sampled: 09/13/2022 00:00** **Sample Name: Duplicate**

Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/11/2022 00:00

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2209204-08 *Water* **Sampled: 09/12/2022 16:30** **Sample Name: MW-12**

Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/10/2022 16:30

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2209204-09 *Water* **Sampled: 09/12/2022 15:39** **Sample Name: CCR-2**

Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/10/2022 15:39

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2209204-10 *Water* **Sampled: 09/12/2022 14:45** **Sample Name: CCR-3**

Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/10/2022 14:45

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2209204-11 *Water* **Sampled: 09/12/2022 13:00** **Sample Name: CCR-4**

Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/10/2022 13:00

Containers Supplied:

1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)

Sample ID: 2209204-12 *Water* **Sampled: 09/13/2022 09:55** **Sample Name: CCR-5**

Smahjomeh 9/15/22 1630
Released By Date

UPS
Released By Date

Released By Date

Released By Date

Released By Date

UPS 9/15/22 1630
Received By Date

3 Rodriguez 9-20-22 9:45
Received By Date

Received By Date

Received By Date

Received By Date



MICRO-METHODS

LABORATORY, INC.

SUBCONTRACT ORDER (Continued)

Work Order: 2209204 (Continued)

30523247

Analysis	Due	Expires	Comments
Sample ID: 2209204-12 Water Sampled: 09/13/2022 09:55 Sample Name: CCR-5			
Radium, Total 226 & 228 by EPA 903.1 & 90 09/22/2022 10/11/2022 09:55			
<i>Containers Supplied:</i> 1000mL Plastic w/HNO3 (A) 1000mL Plastic w/HNO3 (B)			

Smah Jomeh 9/15/22 1630
Released By Date

UPS
Released By Date

Released By Date

Released By Date

Released By Date

UPS 9/15/22 1630
Received By Date

Zy Anderson 9-20-22 9:45
Received By Date

Received By Date

Received By Date

Received By Date

Pittsburgh Lab Sample Condition Upon Receipt

Client Name: Micro-methodsProject # 30523247Courier: ☐ Fed Ex ☒ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace OtherTracking #: 12 353 063 03 7015 0099/12 353 063 03 6804 4682Label JKLIMS Login vpCustody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Thermometer Used

Type of Ice: Wet Blue NoneCooler Temperature Observed Temp °C Correction Factor: °C Final Temp: °C

Temp should be above freezing to 6°C

Comments:	pH paper Lot#			Date and Initials of person examining contents: <u>JK 9.20.22</u>
	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1. <u>10D0421</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
-Pace Containers Used:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	11.
Orthophosphate field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	12.
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	14.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	15.
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. <u>PH 4.2</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>JK</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	17.
Trip Blank Present:	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	18.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>JK</u> Date: <u>9.20.22</u> Survey Meter SN: <u>1563</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ A check in this box indicates that additional information has been stored in ereports.

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.



Pace Greensburg Lab -Sample Container Count

#30523247

Client

Profile Number 14460

Site

2209204

Notes

Sample Line Item	Matrix	AG1H	AG1S	AG1T	AG2U	AG3S	AG3U	AG5U	AG5T	BG1U	BG2U	BP1N	BP1U	BP2S	BP2U	BP3C	BP3N	BP3S	BP3U	DG9S	GCUB	VG9H	VG9T	VG9U	VOAK	WGFU	WGKU	ZPLC
1	+											2																
2	+											2																
3	+											2																
4	+											2																
5	+											2																
6	+											2																
7	+											2																
8	+											2																
9	+											2																
10	+											2																
11	+											2																
12	+											2																

Container Codes

Glass		Glass	
GJN	1 Gallon Jug with HNO3	DG9S	40mL amber VOA vial H2SO4
AG5U	100mL amber glass unprservd	VG9U	40mL clear VOA vial
AG5T	100mL amber glass Na Thiosulfate	VG9T	40mL clear VOA vial Na Thiosulf
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 unprservd
AG1T	1L amber glass Na Thiosulfate	BG2U	500mL clear glass unprservd
BG1U	1L clear glass unprservd	AG2U	500mL amber glass unprservd
AG3S	250mL amber glass H2SO4	WGKU	8oz wide jar unprservd
AG3U	250mL amber glass unprservd		

Plastic / Misc.		Plastic / Misc.	
GCUB	1 Gallon Cubitainer	EZL	5g Encore
12GN	1/2 Gallon Cubitainer	VOAK	Kit for Volatile Solid
SP5T	120mL Coliform Na Thiosulfate	I	Wipe/Swab
BP1N	1L plastic HNO3	ZPLC	Ziploc Bag
BP1U	1L plastic unprservd	WT	Water
BP3S	250mL plastic H2SO4	SL	Solid
BP3N	250mL plastic HNO3	OL	Non-aqueous liquid
BP3U	250mL plastic unprservd	WP	Wipe
BP3C	250mL plastic NAOH		
BP2S	500mL plastic H2SO4		
BP2U	500mL plastic unprservd		

APPENDIX C

FIELD SAMPLING DATA

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	

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	

Monitor Well: CCR-5
Date: 3/24/22

Date: 3/24/22

Well Volume: 18.07 gal
(Water Column Height x Well Casing Volume Factor)

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	

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!

Monitor Well: MW-9

Date: 03/23/2022

Date: 03/23/2022

Well Volume: 9.65 gal
(Water Column Height x Well Casing Volume Factor)

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	

Monitor Well: CCR-2
Date: 03/23/2022

Sampling Method:	<u>Pumped</u>
Measured Well Depth:	<u>84.5</u> ft
Static Water Level: (Depth to Water)	<u>48.88</u> ft
Maximum Drawdown Depth (10% of WCH + SWL)	<u>52.44</u> ft

TOC Elevation⁽¹⁾: 542.50 ft
GW Elevation: 490.06 ft
 (TOC Elevation - Static Water Level)
Well Volume: 23.15 gal
 (Water Column Height x Well Casing Volume Factor)

Sample Time: 13:32

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): 2.40

Drawdown/Water Column (%): 6.74 (SWL - Final Depth)

(Total Drawdown / WCH)

Sampler Signature: [Signature] 3/23/22

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 3%
temperature:	0.1 deg. C
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	
8" = 2.61	10" = 4.08	12" = 5.87	6" = 1.46

#REF!

#REF!

Well Diameter: 4 inches

Water Column Height: 17.16 ft
(Measured Well Depth - Static Water Level)

TOC Elevation⁽¹⁾: 489.40 ft

GW Elevation: 479.51 ft
(TOC Elevation - Static Water Level)

Well Volume: 11.15 gal
(Water Column Height x Well Casing Volume Factor)

(Water Column Height x Well Casing Volume Factor)

11:19 WELL
RECHARGE
TO 11.30

11:20

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).

1.4

8.22

(Total Drawdown / WCH)

3/23/22

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

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!



PO Box 1410, Ocean Springs, MS 39566-1410
(228) 875-6420 FAX (228) 875-6423

www.micromethodslab.com

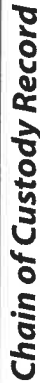
Chain of Custody Record

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

Print Form

M-M Lab
WO #

Company Name: Choctaw Generation Limited Partnership LLLP		Project Manager: Jim Ward	
Address: 2391 Pensacola Rd.		Purchase Order #:	
City: Ackerman	State: MS	Zip: 39735	
Phone: 662-387-5758		Email Address: R. Shelton	
Fax:		Sampler Name Printed: Rock Shelton	
		Sampler Name Signed: Rock Shelton	
Project Name: CGLP CCR		Turn Around Time & Reporting Our normal turn around time is 10 working days <input checked="" type="checkbox"/> Normal <input type="checkbox"/> *All rush order requests must be prior approved. <input type="checkbox"/> Next Day* <input type="checkbox"/> 2nd Day* <input type="checkbox"/> Other*	
Project #: Semi-Annual		QC Level: Level 1 <input type="checkbox"/> Level 2 <input type="checkbox"/> Level 3 <input type="checkbox"/>	
Sample Identification		Field Testing	
MW-9	Sampling Date/Time: 3/23/22 14:35	ID#	ID#
OW-2	3/23/22 11:20	Field Test	Field Test
MW-13	3/24/22 11:10	Field Test	Field Test
MW-7	3/24/22 15:20	Field Test	Field Test
MW-14	3/24/22 13:44	Field Test	Field Test
Field Blank	3/24/22 13:50	Field Test	Field Test
Duplicate	3/23/22 10:50	Field Test	Field Test
MW-12	3/23/22 13:32	Field Test	Field Test
CCR-2	3/23/22 15:52	Field Test	Field Test
CCR-3	3/23/22 16:58	Field Test	Field Test
CCR-4		Field Test	Field Test
Received on Ice? Y N Thermometer# _____ Cooler # _____		Matrix: W = Water DW = Drinking Water S = Solid SO = Soil SE = Sediment L = Liquid A = Air O = Oil SL = Sludge	
Date & Time _____ By: _____		Preservation: 1= H2SO4 2= H3PO4 3= NaOH 4= ZnC4H10O6 5= ZnC4H10O6 & NaOH 6= HNO3 7= Na2S2O3 8= HCl 9= NaHSO4	
Sample _____ Blank _____ Cooler _____		Notes:	
Relinquished by	Signature: Rock Shelton	Date: 3/24/22 18:30	
Received by			
Relinquished by			
Received by			
Relinquished by			
Received by			



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

M-M Lab	WO #
---------	------

Print Form

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: kshelton@cgllp.com		
Phone: 662-387-5758		Sampler Name Printed: R. W. Shelton / E. W. EASTERLING			
Fax:		Sampler Name Signed: [Signature]			
Project Name: CGLP CCR			List Analyses Requested		
Project #: Semi-Annual			Preservative: # of Containers		
Sample Identification	Sampling Date/Time	Matrix Code	Composite (C) or Grab (G)		
COR-5	3/24/22 12:17	W	TDS		
			Chloride, Fluoride, Sulfate		
			Antimony, Arsenic		
			Barium, Boron, Beryllium		
			Cadmium, Chromium		
			Lead, Cobalt		
			Lithium		
			Molybdenum, Selenium		
			Total Radium 226 & 228		
Received on Ice? Y N Thermometer# Cooler #			Receipt Temp Corrected (°C)		
Date & Time			By: Sample Blank Cooler		
Printed Name			Signature		
Relinquished by	R. W. Shelton	muah	Date 3/24/22 18:30		
Received by					
Relinquished by					
Received by					
Relinquished by					
Received by					

DCN# F316 Rev.#5

Physical Address: 6500 Sunplex Drive, Ocean Springs MS 39564

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	

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	

Monitor Well: MW-13
Date: 6/1/22

Date: 6/1/22

(TOC Elevation - Static Water Level)
Well Volume: 29.20 gal
 (Water Column Height x Well Casing Volume Factor)

Start Pump

Total Drawdown (ft): 0.95
Drawdown/Water Column (%): 2.11%

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

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	

Monitor Well: OW-2
Date: 5/31/22

Water Column Height: 16.37 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 489.40 ft
GW Elevation: 478.72 ft
 (TOC Elevation - Static Water Level)
Well Volume: 10.64 gal
 (Water Column Height x Well Casing Volume Factor)

Sample Time: 14:00
 Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Sampler Signature: _____

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

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	

Monitor Well: CCR-2
Date: 5/31/22

Water Column Height: 35.24 ft
(Measured Well Depth - Static Water Level)

TOC Elevation: 542.50 ft
GW Elevation: 493.24ft
 (TOC Elevation - Static Water Level)
Well Volume: 22.91 gal
 (Water Column Height x Well Casing Volume Factor)

Sample Time: 16:20
Sample Analyzed for: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lead, Lithium, Mercury, Molybdenum, Selenium, Thallium, Radium 226/228

Sampler Signature: _____

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

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	

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	

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	


Monitor Well: MW-7

Date: 9-13-22

Date: 7-13-22

Maximum Drawdown Depth 36.8 ft
(10% of WCH + SWL)

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

Sample Time: 11:48
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): 1.16 (SWL - Final Depth)
Drawdown/Water Column (%): 0.051925 (Total Drawdown / WCH)
Sampler Signature: 

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

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	

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!

#REF!

#REF!

Monitor Well: MW-9

Date: 9-12-22

Date: 9-12-22

Well Volume: 8.94 gal
(Water Column Height x Well Casing Volume Factor)

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	

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	

Monitor Well: MW-12
Date: 9-12-22

Date: 9-12-22

Well Volume: 9.3665 gal
(Water Column Height x Well Casing Volume Factor)

#REF!

APPENDIX D

2022 GROUNDWATER MONITORING SUMMARY

Choctaw Generation CCR Groundwater Results for Calendar Year 2022

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
3/23-24/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
5/31-6/1/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
9/12-13/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
Prediction Limit = 0.002, GWPS = 0.006																

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
3/23-24/22	ND	ND	ND	0.00412	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
5/31-6/1/22	ND	ND	ND	0.00444	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
9/12-13/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
Prediction Limit = 0.002, GWPS = 0.010																

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
3/23-24/22	0.161	0.0780	0.176	0.086	NS	NS	NS	0.076	0.081	0.236	0.189	0.013	NS	NS	NS	0.050
5/31-6/1/22	0.147	0.0600	0.166	0.064	NS	NS	NS	0.074	0.070	0.188	0.176	0.013	NS	NS	NS	0.044
9/12-13/22	0.14	0.0780	0.19	0.081	NS	NS	NS	0.078	0.081	0.189	0.185	0.012	NS	NS	NS	0.046
Prediction Limit = 0.2558, GWPS = 2																

Choctaw Generation CCR Groundwater Results for Calendar Year 2022

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
3/23-24/22	ND	ND	ND	ND	NS	NS	NS	ND	0.0037	ND	ND	ND	NS	NS	NS	ND
5/31-6/1/22	ND	ND	ND	ND	NS	NS	NS	ND	0.00422	ND	ND	ND	NS	NS	NS	ND
9/12-13/22	ND	ND	ND	ND	NS	NS	NS	ND	0.00369	ND	ND	ND	NS	NS	NS	ND
Prediction Limit = 0.001, GWPS = 0.004																

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
3/23-24/22	ND	ND	ND	0.096	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
5/31-6/1/22 ⁽¹⁾	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
9/12-13/22	ND	ND	ND	0.101	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
Prediction Limit = 0.050																

(1) Appendix III constituent not required to be monitored during the annual monitoring event.

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
3/23-24/22	16.5	39.7	26.5	115	NS	NS	NS	31.5	46.4	33.8	21.7	0.645	NS	NS	NS	41.2
5/31-6/1/22 ⁽¹⁾	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
9/12-13/22	14.8	27.9	24.9	64.5	NS	NS	NS	31.5	33.2	26.2	20	0.58	NS	NS	NS	38.4
Prediction Limit = 85.8879																

(1) Appendix III constituent not required to be monitored during the annual monitoring event.

Choctaw Generation CCR Groundwater Results for Calendar Year 2022

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
3/23-24/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
5/31-6/1/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
9/12-13/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
Prediction Limit = 0.001, GWPS = 0.005																

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
3/23-24/22	2.53	4.59	8.06	6.06	NS	NS	NS	3.19	361	62.8	3.76	19.5	NS	NS	NS	77.2
5/31-6/1/22 ⁽¹⁾	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
9/12-13/22	2.5	5.3	7.28	5.39	NS	NS	NS	3.5	320	38	4.14	18.3	NS	NS	NS	85.9
Prediction Limit = 26.6034																

(1) Appendix III constituent not required to be monitored during the annual monitoring event.

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
3/23-24/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
5/31-6/1/22	ND	ND	0.0126	ND	NS	NS	NS	0.005	ND	ND	0.00941	ND	NS	NS	NS	ND
9/12-13/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
Prediction Limit = 0.001, GWPS = 0.1																

Choctaw Generation CCR Groundwater Results for Calendar Year 2022

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
3/23-24/22	0.0065	0.0259	0.00434	0.0125	NS	NS	NS	ND	0.0175	0.00339	ND	ND	NS	NS	NS	ND
5/31-6/1/22	0.0117	0.0167	0.00272	0.00556	NS	NS	NS	ND	0.0154	0.0065	ND	ND	NS	NS	NS	ND
9/12-13/22	0.0103	0.0122	0.00343	0.00313	NS	NS	NS	ND	0.0137	0.00467	ND	ND	NS	NS	NS	ND
Prediction Limit = 0.001, GWPS = 0.006																

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
3/23-24/22	ND	ND	ND	ND	NS	NS	NS	0.247	0.364	ND	ND	ND	NS	NS	NS	0.243
5/31-6/1/22	ND	0.25	ND	ND	NS	NS	NS	ND	0.34	0.69	ND	ND	NS	NS	NS	ND
9/12-13/22	ND	ND	ND	ND	NS	NS	NS	ND	0.34	ND	ND	ND	NS	NS	NS	0.24
Prediction Limit = 0.30, GWPS = 4.0																

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
3/23-24/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
5/31-6/1/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
9/12-13/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
Prediction Limit = 0.001, GWPS = 0.015																

Choctaw Generation CCR Groundwater Results for Calendar Year 2022

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
3/23-24/22	ND	0.131	ND	ND	NS	NS	NS	ND	0.076	ND	ND	ND	NS	NS	NS	0.052
5/31-6/1/22	ND	0.084	ND	ND	NS	NS	NS	ND	0.052	ND	ND	ND	NS	NS	NS	ND
9/12-13/22	ND	0.084	ND	0.064	NS	NS	NS	ND	0.063	ND	ND	ND	NS	NS	NS	0.06
Prediction Limit = 0.050, GWPS = 0.050																

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
3/23-24/22 ⁽¹⁾	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
5/31-6/1/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
9/12-13/22 ⁽¹⁾	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
Prediction Limit = 0.002, GWPS = 0.002																

(1) Appendix IV constituent not required to be monitored during semi-annual assessment monitoring.

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
3/23-24/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
5/31-6/1/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
9/12-13/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
Prediction Limit = 0.001, GWPS =0.100																

Choctaw Generation CCR Groundwater Results for Calendar Year 2022

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
3/23-24/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
5/31-6/1/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
9/12-13/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
Prediction Limit = 0.001, GWPS = 0.05																

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
3/23-24/22	12.2	369	30.3	612	NS	NS	NS	48.7	215	98.8	7.06	13.1	NS	NS	NS	126
5/31-6/1/22 ⁽¹⁾	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
9/12-13/22	10.3	164	19.4	218	NS	NS	NS	40.2	97.3	41.7	7.62	9.61	NS	NS	NS	94.2
Prediction Limit = 44.8102																

(1) Appendix III constituent not required to be monitored during the annual monitoring event.

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
3/23-24/22 ⁽¹⁾	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
5/31-6/1/22	ND	ND	ND	ND	NS	NS	NS	ND	ND	ND	ND	ND	NS	NS	NS	ND
9/12-13/22 ⁽¹⁾	-	-	-	-	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.

Choctaw Generation CCR Groundwater Results for Calendar Year 2022

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
3/23-24/22	128	495	203	851	NS	NS	NS	166	838	327	160	91	NS	NS	NS	361
5/31-6/1/22 ⁽¹⁾	-	-	-	-	NS	NS	NS	-	-	-	-	-	NS	NS	NS	-
9/12-13/22	132	287	174	515	NS	NS	NS	152	764	243	126	75	NS	NS	NS	374
Prediction Limit = 320.8384																

(1) Appendix III constituent not required to be monitored during the annual monitoring event.

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
3/23-24/22	6.54	5.82	6.31	6.47	NS	NS	NS	6.42	4.14	5.72	6.78	4.96	NS	NS	NS	5.66
5/31-6/1/22	6.73	6.18	6.5	6.64	NS	NS	NS	6.47	4.55	5.95	6.81	4.87	NS	NS	NS	5.68
9/12-13/22	6.3	6.02	6.38	6.56	NS	NS	NS	6.3	4.31	5.75	6.46	4.8	NS	NS	NS	5.4
Prediction Limit = 3.77 – 9.97																

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
3/23-24/22	1.465	1.496	1.599	3.92	NS	NS	NS	1.47	2.113	1.43	1.702	1.201	NS	NS	NS	1.569
5/31-6/1/22	1.992	1.309	1.124	1.238	NS	NS	NS	1.004	1.874	1.209	1.404	1.348	NS	NS	NS	1.331
9/12-13/22	2.17	1.968	1.917	1.185	NS	NS	NS	1.863	2.65	1.21	1.907	1.8	NS	NS	NS	2.022
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.