

QUARTERLY REPORT

CORRECTIVE ACTION PLAN ADC NORTH CENTRAL WASTEWATER TREATMENT FACILITY

CALICO ROCK, IZARD COUNTY, AR 72519

PROJECT INFORMATION

REPORT DATE	AFIN NUMBER	PERMIT NUMBER	MCE PROJECT NUMBER
January 15, 2025	AR0044016	33-00036	22-5794

SUMMARY

Pursuant to the Consent Administrative Order, CAO LIS 22-082, Arkansas Department of Correction (ADC) – North Central Unit is required to submit quarterly reports in conformance with Paragraph 2 of Order and Agreement section of the said Order until the cited order is closed. This quarterly status report number 10 is for the period that ended December 31, 2024.

Improvements in the 2nd quarter of 2024 include the updating components of the tertiary filter, which involved new filter media, control panel, piping, and diffusers.

MCE is currently evaluating cost effective solutions to remove Nitrate-Nitrogen that are comparable to what has been laid out in the Corrective Action Plan.

MCE was able to visit and evaluate components of the NCU WWTP. Observation of the newly installed mechanical bar screen was completed. The newly installed mechanical bar screen was performing optimal.

In the fourth quarter of 2024, ADC started manually cycling the oxidation ditch aerators on and off to assist in creating anoxic zones that will facilitate denitrification.

MILESTONE TASKS

TASK	DATE	% DONE
1) Performance observation of the newly installed equipment • Complete	Aug 4 – Nov 4, 2022	100
2) Finetuning of the operations of the WWTP to assist in the achievement of nitrate-nitrogen compliance • Replacement of magna rotor – complete	Nov 7, 2022 – Mar 31, 2023	75%

<ul style="list-style-type: none"> • Refurbishment of the aeration system – complete • Installation of new UV lights- complete • Dissolved oxygen meters have been installed and are operational – complete • UV module has been installed and is operational – complete • WWTP Startup will be on January 11, 2023 • Tertiary filter improvements- Complete 		
3) Reduction of inflow/infiltration (I/I) within the wastewater collection system <ul style="list-style-type: none"> • SSSES Plan in progress of evaluating areas of in need of repair. • Smoke Testing-Done • Water Reduction Measures- Complete 	Nov 7, 2022 – Jun 30, 2023	75%
4) Design and construction of a new wastewater treatment process that will include nitrate-nitrogen removal capabilities. - In progress	Apr 2023 – Apr 2025	