

QUARTERLY REPORT NO. 3

CORRECTIVE ACTION PLAN CITY OF SILOAM SPRINGS WWTF

SILOAM SPRINGS, AR

PROJECT INFORMATION

REPORT DATE	AFIN NUMBER	PERMIT NUMBER	MCE PROJECT NUMBER
July 15, 2025	04-00106	AR0020273	22-2156

BACKGROUND

On October 1, 2024, DEQ sent a Notice of Non-Compliance to the City of Siloam Springs. On November 14, 2024, MCE submitted a Corrective Action Plan (CAP) in response to the Notice of Non-Compliance. As requested, the CAP includes milestones that address the sanitary sewer overflows (SSOs) that have occurred at the plant.

SUMMARY

The city has continued to mitigate and work towards addressing the historical SSOs. The city has continued routine schedule of cleaning the manual bar screen, continued RAS/WAS pump maintenance, and has completed construction of the berm around the headworks area to prevent inflow from stormwater. The new berm has been successful in preventing offsite storm water from coming into the headworks channel. There have been several sanitary sewer over flows since the last quarterly report, all of which have been associated by significant rainfall events. MCE has been working on the hydraulic analysis of the WWTP as part of the headworks expansion project. The hydraulic analysis will be part of the submission to DEQ for review.

On April 19th, 2025, a sanitary sewer overflow was recorded at the bar screen. The plant was processing 15.3 MGD of incoming flow during a rainfall event totaling 3.0 inches, resulting in an estimated 15,000 gallons of wastewater discharging onto the ground at the treatment facility.

On April 21st, 2025, two additional SSO events occurred, resulting in a combined estimated overflow volume of 49,500 gallons. These overflows further contributed to the total volume of untreated wastewater discharged during this period.

On May 1st, 2025, an SSO resulting from excessive rainfall discharged an estimated 4,000 gallons of untreated wastewater onto the ground. No evidence was found to indicate any adverse health or environmental impacts. In response to the incident, operations personnel conducted hydro-cleaning and applied lime to the affected area.

On July 8th, 2025, sustained rainfall event of 5.10 inches contributed to peak influent flows of 17.0 MGD at the facility. The hydraulic overload resulted in a SSO discharge of approximately 483,000 gallons of untreated wastewater into Sager Creek. Wastewater operations staff responded with removal of rags and debris from the bar screens and telescoping valves to mitigate the impact of the overflow.

The SSO's have been reported to the state and the city will continue implementing mitigation measures described in the CAP to prevent recurrence and ensure continued compliance with regulatory requirements.

Quarterly Report No. 4 is due on October 15, 2025.

MILESTONE TASKS

TASK	DATE	STATUS
1) Corrective Action Plan to DEQ	Nov 14, 2024	Complete
2) Place sand bags around the existing channels at the headworks Sandbags have been placed; city will maintain the sandbags and place additional bags as required	Dec 20, 2024	Complete
3) Construct a berm uphill of the existing headworks	Feb 10, 2025	Complete
4) Hydraulic analysis	Feb 28, 2025	Started
5) Regulatory approval of screening facility (ADH and DEQ)	Jul 2025	Not Started
6) Begin construction of new headworks facility	Oct 2025	Not Started
7) Complete construction of the new headwork facility	Dec 2026	Not Started
8) Final report and completion of CAP	Jan 2027	Not Started

Respectfully,

Andrew Stephens, PE

Project Manager

McClelland Consulting Engineers