

QUARTERLY REPORT NO. 7

CORRECTIVE ACTION PLAN CITY OF SILOAM SPRINGS WWTF

SILOAM SPRINGS, AR

PROJECT INFORMATION

REPORT DATE	AFIN NUMBER	PERMIT NUMBER	MCE PROJECT NUMBER
July 15, 2026	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 some offsite storm water from coming into the headworks channel. Further reduction of offsite stormwater will require construction of the proposed emergency repairs.

The city has also completed cleaning of the facility's existing grit settling basin as a part of the information gathering phase of attempting to repair or replace items to get this system back into full operations.

Additional work to mitigate overflows at the WWTP includes the following repair and replacement of known problems within the gravity sewer collection system:

1. To reduce I&I potential during heavy rain events, 17 manholes have been raised out of the flood zone. Additionally, the city will be linking approximately 550 VF of manholes in sewer basin 8, which according to the 2019 RJN study recorded nearly 25% of all I&I.

2. Replaced four additional old or broken frame & covers with new bolt down frame and covers in area high SSO potential.
3. An agreement has been made between the City and Trekk Design Group for the design of 1,200 LF of force main and 10,000 LF of gravity main throughout the collection system.

The city is also in the process of drafting a sanitary sewer overflow response plan. These efforts have allowed normal plant performance and compliance with DEQ requirements.

The previously proposed full replacement of the influent screenings and grit systems with a new facility has proven to be cost prohibitive. Instead, the city is moving forward with a reduced scope for proposed new influent channels and screening solution. MCE is completing the new design, and will submit the revised design to ADH and DEQ once completed. The city is also working with the Construction Manager at Risk, Garney Contractors, on pricing for the proposed work. Once pricing is received, the city will determine the next steps to move forward with the proposed work.

The following is a summary of new overflow events that have occurred at the wastewater treatment plant since the last quarterly report:

- On April 24th, 2026, a significant intake of I&I due to rainfall occurred at the headworks facility resulted in an SSO release of an estimated 273,240 gallons from the headworks onto the ground and then into Sager Creek. Wastewater operations staff responded with spreading lime on the affected area while diverting extra flow to the EQ basin until flow conditions were stabilized. There has been no evidence of adverse health or environmental impact due to the SSO.
- On May 21st, 2026, an SSO occurred of approximately 1,000,000 gallons from the headworks area and influent channel due to excessive rainfall. There has been no evidence of adverse health or environmental impact due to the SSO.
- On June 8th, 2026, a substantial rain event occurred at the headworks which resulted in an SSO due to I&I and equipment failure from the manual bar screen due to significant hydraulic surge. An estimated 240,000 gallons of overflow was discharged from the WWTF to Sager Creek. Wastewater operations staff responded by redirecting flow to the EQ basin for hydraulic relief along with the removal of debris from the manual bar screen. There has been no evidence of adverse health or environmental impact due to the SSO.
- On June 14th, 2026, approximately 702,675 gallons of sanitary sewer was discharged from the headworks of the WWTF due to significant rainfall, resulting

in an SSO. An estimated 4,685 gpm was measured flowing into Sager Creek from the WWTF. There has been no evidence of adverse health or environmental impact due to the SSO.

- On July 6th, 2026, a large influx of dirty water and debris flowed into the WWTF causing a blockage in the manual bar screen and an SSO of 50 gallons occurred. Wastewater operations staff removed the blockage from the manual bar screen and applied lime on the area affected by the SSO. There has been no evidence of adverse health or environmental impact due to the SSO.
- On July 8th, 2026, the lift station at the WWTF experienced a check valve failure which inhibited the lift station from pumping water. This resulted in an SSO of approximately 50 gallons of wastewater flowing back through the 2" drain onto the driveway. Operations staff responded by spreading lime on the affected area. There has been no evidence of adverse health or environmental impact due to the SSO.

All 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. Proposed design is under review by ADH and DEQ for approval.

The next Quarterly Report, No. 8, is due on October 15, 2026.

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 of proposed repairs	Feb 28, 2025	Complete

5) Regulatory approval of screening facility (ADH and DEQ)	Feb 2026	In Progress
6) Begin construction of new headworks facility	April 2026	In Progress
7) Complete construction of the new headwork facility	Oct 2026	Not Started
8) Final report and completion of CAP	Jan 2027	Not Started

Respectfully,

Andrew Stephens, PE

Project Manager
McClelland Consulting Engineers