

Final Report
CORRECTIVE ACTION PLAN for SANITARY SEWER OVERFLOWS
 City of Alma, Crawford County, Arkansas
 NPDES Permit No. AR0021466

REPORT DATE: February 12, 2024 (Revised February 20, 2024)

SCOPE: Item 2 as identified in the approved Corrective Action Plan (CAP), Section 3.B. The action list and compliance schedule for resolution of this item (the SSO at Manhole 63-1 due to excessive I and D) is as follows:

TABLE 1		
CAP Compliance Schedule		
Task No.	Action	Estimated Completion Date
1.	Smoke testing and CCTV inspection	September 2023
2.	Evaluation of data and project scoping	March 2024
3. ¹	Development of budget and funding source	February 2025
4. ¹	Design and bidding	June 2025
5. ¹	Construction	December 2025

Note 1: As documented under the Task 5 section below, the repairs of known defects were accomplished by a combination of homeowners and the City of Alma. Therefore, the steps of design, bidding and construction of an improvement project (Tasks 3, 4 and 5) were not necessary and are deleted from the compliance schedule.

ACTIONS THIS REPORTING PERIOD:

Task 5: As stated in the Quarterly Report dated December 12, 2023, five missing or broken service-side cleanouts were discovered during the Task 1 along with two leaking manholes. A map of the repair locations is presented in Exhibit A.

Homeowners with the defective cleanouts were notified and directed by the City of Alma to make repairs to their private service lines. Some complied in a timely manner; others did not and the City made the repairs. The manhole defects were repaired by the City of Alma.

Two of the defective cleanouts were located directly upstream of Manhole 63-1 and were directly contributory to the SSO that is the subject of this report. The other defects (3 cleanouts and 2 manholes), while not directly upstream of Manhole 63-1 were likely contributors to backwater condition a short distance downstream due to excessive wet weather flow. It should be noted that no

documented SSO's have occurred at Manhole 63-1 since October 10, 2022.

A summary of the known defects and corrective actions taken are presented in Tables 2 and 3. Photographic documentation of the repairs is incorporated into this report by Appendix A.

TABLE 2			
Defects Upstream of Manhole 63-1 Discovered Through Smoke Testing			
Location	Defect	Corrective Action	Corrective Action Performed by
1311 Spring Hills Dr.	Missing cleanout cap	Replaced cap	Homeowner
1321 Springdale Dr.	Missing cleanout cap	Replaced cap	Homeowner

TABLE 3			
Other Defects Discovered Through Smoke Testing			
Location	Defect	Corrective Action	Corrective Action Performed by
1322 Briarwood Dr.	Broken cleanout bushing and missing cap	Replaced bushing and cap	City of Alma
1326 Alma North	Broken cleanout riser	Replaced riser and cap	City of Alma
1403 Alma North	Broken cleanout riser	Replaced riser and cap	City of Alma
Manhole 64-1	Leak around service line penetration	Grouted annular space around service line	City of Alma
Manhole 64-1-A	Leak in manhole invert	Grouted leaking area of invert	City of Alma

CONCLUSION & ENGINEER'S CERTIFICATION:

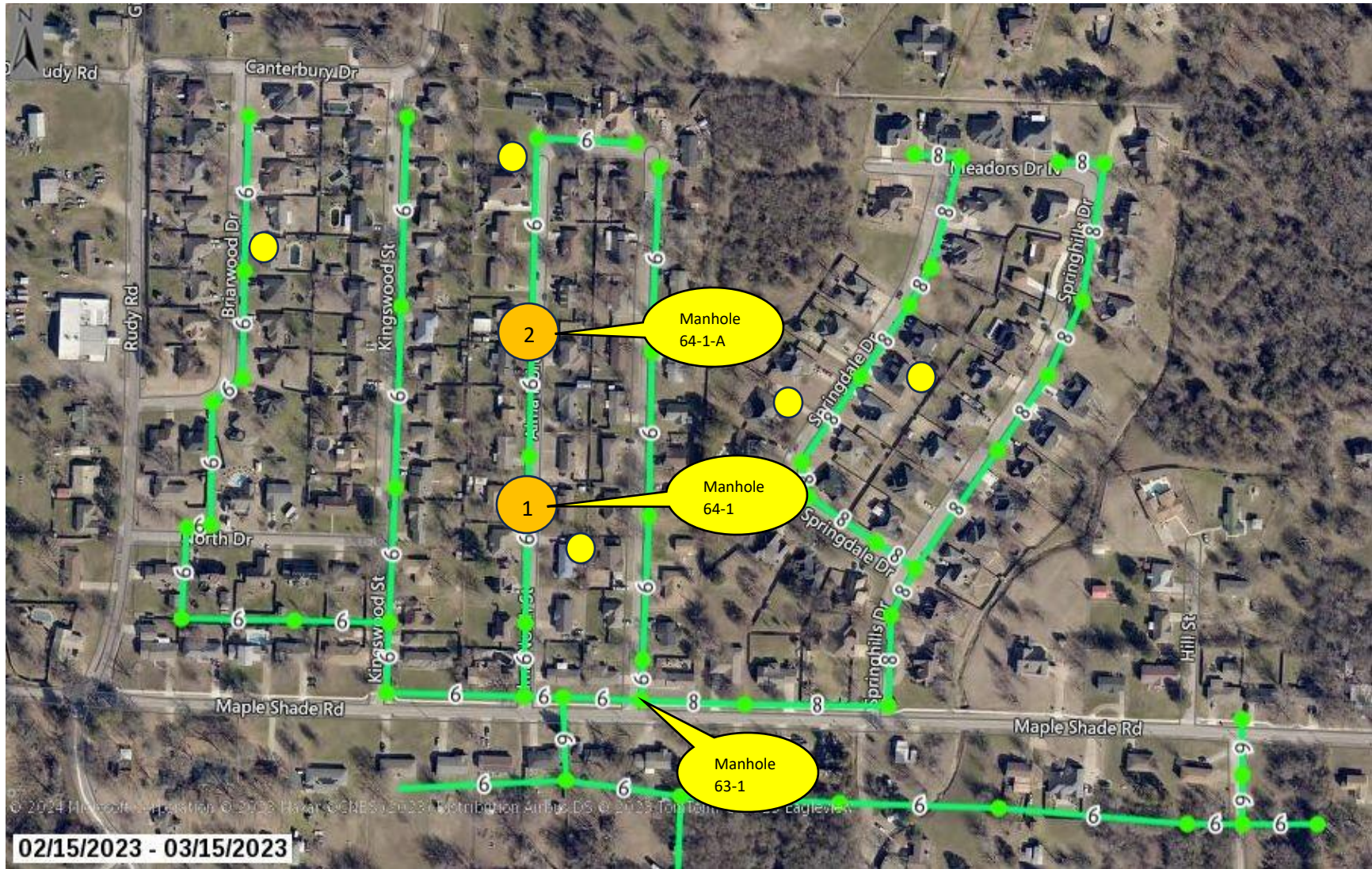
As the Engineer of Record retained by the City of Alma for this action, I conclude that, to the best of my knowledge, the work identified as "Item 2, Maple Shade Road and Northwoods Drive" in the Corrective Action Plan dated March 7, 2023 has been completed. I further certify that this report was prepared under my supervision on behalf of the City of Alma, Arkansas.



Neal T. Morrison, P.E.
Neal Morrison Consulting, LLC



February 20, 2024



- Repaired Manholes
- Repaired Sewer Cleanouts

EXHIBIT "A"

APPENDIX A

Photographic Documentation of Repairs



1311 SPRING HILLS DRIVE



1321 SPRINGDALE DRIVE



1322 BRIARWOOD DRIVE



1326 ALMA NORTH STREET



1403 ALMA NORTH STREET



MANHOLE 64-1



MANHOLE 64-1-A