



FISHER ARNOLD

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December 9, 2021

Ms. Danielle E. Harbin
Office of Water Quality
Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317

**RE: UPDATE ON ACTIVITIES FOR CORRECTIVE ACTION PLAN
WEST MEMPHIS UTILITIES
NPDES PERMIT NUMBER AR0022039, AFIN 18-00879**

Dear Ms. Harbin:

On behalf of West Memphis Utilities (WMU), please accept the following as an update of activities undertaken since our last update in June 2021. As outlined in WMU's Amended CAP, WMU outlined a plan of action through December 2023. Listed below is a capsule summary of those activities either completed or underway since the CAP was implemented.

1. WMU continues to meet monthly with their CAP Working Group. Members of this group include Todd Pedersen, General Manager WMU; Ward Wimbish, Asst. General Manager, WMU; and AJ Elhaj, all engineers with WMU; Denise Bosnick, Director of Environmental Quality, WMU; and Paul Holloway, WWTP Manager, WMU. Also included in these monthly meetings as necessary are Tim Verner, P.E., and Jeff Old, P.E., Fisher & Arnold, and Mac Compton, P.E., RJN Group. This group directs and tracks on-going efforts by WMU staff and all outside consultants and contractors relative to efforts towards the elimination of systemwide SSOs.
2. Upchurch Services completed the rehabilitation of approximately 200 sanitary manholes that were identified as needing remedial work in the previously mentioned RJN SSES Report.

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3. Engineering plans and specifications for the replacement of Pump Stations 3 and 4, and a new force main are complete and state approvals secured. The project was advertised for bids this past August, but due to groundwater concerns and its impact on the overall project delivery, and the volatility of construction material costs expressed by several plan holders, it was decided to re-bid this project in January 2022.
4. Since our last semiannual report in June 2021, WWTF staff has not had any reported plant bypasses. Additionally, since June 2021, there has only been one reported sanitary sewer overflow.
5. Fisher & Arnold, Inc. is approximately 99% complete with the preparation of plans detailing the expansion of the WWTF. This project, when completed, will increase the average daily flow capacity to 12 MGD and allow a peak flow of 18 MGD. Concurrent with these design efforts, Fisher & Arnold, Inc. will also prepare and submit to ADEQ necessary NPDES permit modifications for this increased flow. It is anticipated that these plans, specifications, and permit modifications will be submitted to ADEQ before the end of December 2021.
6. Between the period of June 8, 2021, and November 18, 2021, WMU has spent \$850,758.15 in the planning, engineering, replacement, and/or repair of their sewer collection and treatment systems. Of this total, \$847,070.25 has been for actual rehabilitation and/or rehabilitation of existing infrastructure. The remained has been for advance planning studies and/or design of sewer infrastructure repairs, rehabilitation, or replacement.
7. WMU is making preparation to develop bid packages for the CIPP of existing gravity sewer mains identified in previous SSES Reports prepared by RJN. This work is planned to commence in the third quarter of 2022.
8. WMU is planning to commence 60 to 75 days of post-rehabilitation flow monitoring in October 2022 to begin assessing the positive impact past rehabilitation efforts have been.

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Hopefully, this summary of activities is useful to you and your staff and demonstrates the commitment of WMU to eliminate SSOs in their collection system and WWTP bypasses. If you require any additional information, please do not hesitate to contact me at this office.

Sincerely,

FISHER & ARNOLD, INC.



Tim Verner, P.E.
Senior Vice-President

TV/tv

Enclosures

Cc: Todd Pedersen, General Manager, WMU





WEST MEMPHIS UTILITY COMMISSION

604 East Cooper

Phone: 870-735-3355

West Memphis, AR 72301

CAP MEETING (June 16, 2021)

Attendees Onsite:

- **WMUC-** Paul Holloway, AJ Elhaj, Denise Bosnick, Todd Pedersen

Attendees Conference call:

- **F&A-** Jeff Old
- **RJN-** Mac Compton

Project Members:

- **W.M.U.C.-** Todd Pedersen, Ward Wimbish, Paul Holloway, AJ Elhaj
- **F&A-** Tim Verner, Jeff Old
- **RJN-** Mac Compton, Stephen Jeffus, Colton Bryant

The Following Actions that were discussed:

A. REVIEW MEETING MINUTES

- Everyone agreed to last meeting notes, and no comments were made.

B. PUMP STATION NUMBER 9 MODIFICATIONS

- Old stated that pump station # 9 crane hoist will be shipped out on June 23, 2021.
- Old stated that FA will schedule date to do inspections and punch list items for pump station 9.

C. COMMON FORCE MAIN EXTENSION & PUMP STATIONS

- Old stated that the health department has approved the plans. The plans were approved on June 4, 2021.
- Old suggested that WMU needs to identify all the easement before advertising.
- Pedersen stated that WMU will need to start advertising by the end of July.

D. 2020 SANITARY SEWER MANHOLE REHABILITATION

- Elhaj stated that Upchurch services are currently working on complete manhole lining and replacing manhole frames & covers, frame seals.
- Elhaj stated that Upchurch Services has contacted the manufacture about the manhole covers defect and the manufacture agreed to replace all 200 manhole covers. The new manhole will be shipped out in the next three weeks.
- Elhaj stated that Upchurch Services are scheduled to be complete by the end of July.



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E. WWTF MODIFICATION

- Old stated that FA will have the first review plans to WMU on June 30, 2021. WMU will have two weeks to review the plans.
- Old stated that the WWTF plans will be submitted to ADEQ by the end of July 2021.



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CAP MEETING (July 7, 2021)

Attendees Onsite:

- **WMUC-** Ward Wimbish, AJ Elhaj, Denise Bosnick, Todd Pedersen

Attendees Conference call:

- **F&A-** Jeff Old, Tim Verner
- **RJN-** Mac Compton

Project Members:

- **W.M.U.C.-** Todd Pedersen, Ward Wimbish, Paul Holloway, AJ Elhaj
- **F&A-** Tim Verner, Jeff Old
- **RJN-** Mac Compton, Stephen Jeffus, Colton Bryant

The Following Actions that were discussed:

A. REVIEW MEETING MINUTES

- Everyone agreed to last meeting notes, and no comments were made.

B. PUMP STATION NUMBER 9 MODIFICATIONS

- Elhaj stated that pump station # 9 crane hoist has been delayed to July 19, 2021, to be shipped out.
- Pedersen stated that the final inspection for pump station 9 needs to be on hold until the crane hoist is installed.

C. COMMON FORCE MAIN EXTENSION & PUMP STATIONS

- Old stated that FA will look into how deep the pit for the horizontal bore at the Barton bridge and have detail on relocating force main by the end of the week.
- Wimbish stated that WMU have easement map out and overlayed on the drawings.
- Wimbish stated that WMU is working on a detail description easement for the Lelr's property.
- Pedersen stated that WMU will need to start advertising by the end of July.

D. 2020 SANITARY SEWER MANHOLE REHABILITATION

- Elhaj stated that Upchurch services are currently working on complete manhole lining and replacing manhole frames & covers, frame seals.



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- Elhaj stated that Upchurch Services has received updates from the manufacturer about the manhole covers defect and the new manhole will be delivered on July 7, 2021.
- Elhaj stated that Upchurch Services are scheduled to be complete by the end of July.

E. WWTF MODIFICATION

- Verner suggested to switch the ras pump station location with UV system location at WWTF and which will create easy access.
- Pedersen stated that the WWTF needs be 100% generator backup.
- Verner stated that FA will schedule a site visit to the WWTF to look at the electrical system with the electrical engineers.
- Pedersen requested that the electrical engineer need to know all the loads before we visit the WWTF site.
- Verner stated that the WWTF plans will be submitted to ADEQ within 45 to 60 days.



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CAP MEETING (August 18, 2021)

Attendees Onsite:

- **WMUC-** Ward Wimbish, AJ Elhaj, Denise Bosnick, Todd Pedersen
- **F&A-** Jeff Old, Tim Verner

Project Members:

- **W.M.U.C.-** Todd Pedersen, Ward Wimbish, Paul Holloway, AJ Elhaj
- **F&A-** Tim Verner, Jeff Old
- **RJN-** Mac Compton, Stephen Jeffus, Colton Bryant

The Following Actions that were discussed:

A. REVIEW MEETING MINUTES

- Everyone agreed to last meeting notes, and no comments were made.

B. PUMP STATION NUMBER 9 MODIFICATIONS

- Elhaj stated that Landmark Construction has received the crane hoist on August 6, 2021, and came on August 10, 2021, to install the hoist. The electrician wires up the hoist, but the hoist has issues.
- Verner stated that Landmark Construction will replace the hoist motor and the parts.
- Verner stated that Fisher Arnold will create a punch list for pump station 9 rehab after the meeting.
- Holloway stated that the existing steel beam (located in the Drywell) will remain in place.

C. COMMON FORCE MAIN EXTENSION & PUMP STATIONS

- Elhaj stated that legal bid notice was advertised in the Arkansas-Democrats newspaper on August 8, 2021. Pre-Bid is scheduled on August 19, 2021.
- Old stated that this project has generated a lot of interested, and open bid is scheduled for September 2, 2021.
- Wimbish stated that WMU has proposed for easement and still waiting for the property owner to respond.

D. 2020 SANITARY SEWER MANHOLE REHABILITATION

- Elhaj stated that Upchurch services have replaced all manhole cover defect.
- Elhaj stated that Upchurch services are currently working replacing manhole frames & covers, frame seals that located in the street.



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- Elhaj stated that Upchurch Services are scheduled to be complete by the end of August.

E. WWTF MODIFICATION

- Verner stated that switching the ras pump station location with UV system location to have climate control for the controls.
- Verner stated that the electrical engineer is waiting on the manufacture to supply details for loads.
- Verner stated that the WWTF plans will be submitted to ADEQ by the end of September 2021.



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CAP MEETING (September 22, 2021)

Attendees Onsite:

- **WMUC-** Ward Wimbish, AJ Elhaj, Paul Holloway
- **F&A-** Jeff Old, Tim Verner

Project Members:

- **W.M.U.C.-** Todd Pedersen, Ward Wimbish, Paul Holloway, AJ Elhaj
- **F&A-** Tim Verner, Jeff Old
- **RJN-** Mac Compton, Stephen Jeffus, Colton Bryant

The Following Actions that were discussed:

A. REVIEW MEETING MINUTES

- Everyone agreed to last meeting notes, and no comments were made.

B. PUMP STATION NUMBER 9 MODIFICATIONS

- Verner stated that Landmark Construction has completed all punch list items.
- Verner stated that Landmark Construction has repaired the trolley hoist and is fully operating.
- Holloway requested a cost estimate to remove existing controls from pump station #9.

C. COMMON FORCE MAIN EXTENSION & PUMP STATIONS

- Old stated that the common force main to be advertised beginning of January 2022. Opening bids were delayed to next year due to material cost.
- Verner stated that the pre-bid meeting should be mandatory.
- Wimbish stated that WMU has proposed 10-foot permanent easement and 15-foot construction easement. WMU still waiting for the property owner to agree.

D. 2020 SANITARY SEWER MANHOLE REHABILITATION

- Elhaj stated that Upchurch services are currently working replacing manhole frames & covers, frame seals that located in the street.
- Elhaj stated that Upchurch Services are scheduled to be complete by the end of September.



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E. WWTF MODIFICATION

- Old stated that the WWTF plans will be submitted to ADEQ by October 7, 2021.
- Old stated that FA are adding labels and modifications to the WWTF plans.
- Verner stated that the uv system and ras pump station are coming together.
- Verner stated that FA has contacted a hydro vac company to locate the sewer force main at WWTF, but the operator wasn't able to locate the force main.
- Verner state that FA contacted Alsip Locating services to locate the sewer force main and the locator was able to get a depth signal of the force main at 14 feet deep.



WEST MEMPHIS UTILITY COMMISSION

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CAP MEETING (October 14, 2021)

Attendees Onsite:

- **WMUC-** Todd Pedersen, AJ Elhaj, Paul Holloway
- **F&A-** Jeff Old, Tim Verner

Project Members:

- **W.M.U.C.-** Todd Pedersen, Ward Wimbish, Paul Holloway, AJ Elhaj
- **F&A-** Tim Verner, Jeff Old
- **RJN-** Mac Compton, Stephen Jeffus, Colton Bryant

The Following Actions that were discussed:

A. REVIEW MEETING MINUTES

- Everyone agreed to last meeting notes, and no comments were made.

B. PUMP STATION NUMBER 9 MODIFICATIONS

- Verner stated that Landmark Construction are finishing up all punch list items.
- Verner stated that FA will do final inspection after the CAP Meeting.

C. COMMON FORCE MAIN EXTENSION & PUMP STATIONS

- Pedersen stated that WMU and FA agreed to re-bid the common force main beginning of 2022.

D. 2020 SANITARY SEWER MANHOLE REHABILITATION

- Elhaj stated that Upchurch services are currently working replacing manhole frames & covers, frame seals that located in the street and punch list items.

E. WWTF MODIFICATION

- Old stated that the WWTF plans has been submitted to Arkansas Health department on October 7, 2021, and a confirmation on October 8, 2021.
- Verner stated that FA are currently working on the SCADA drawings.
- Verner stated that FA will confirm with ADEQ on whether WMU/FA sends a copy of the plans to ADEQ for review.