CITY OF HOT SPRINGS

Utilities Department

780 Adams Street

Hot Springs, Arkansas 71901

November 14, 2022 **VIA Email**

Leslie Allen-Daniel
Enforcement Analyst – Water Division
Arkansas Energy & Environment – Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118-5317

RE: **City of Hot Springs Utilities**
Permit No. AR0033880 / AFIN 26-00145 / CAO LIS 22-007
Manhole 1750, Gulpha Creek and Spencer Bay

Dear Ms. Allen-Daniel,

The following components are a brief synopsis of progress regarding the CAO with regards to SSOs at Manhole 1750 and affecting water quality in Gulpha Creek and Spencer Bay.

Hawkins-Weir Engineers, Inc. has the contract for the Spring Street Collection System Improvements project. The project is funded by the 2020 Wastewater Bond. Below is their updated schedule.

Spring Street Collection System Improvements – Hawkins-Weir Engineers

Item No.	Begin	End	Description
1	3/22/22	Complete	Design Phase Services Complete 11/4/2022
2	3/30/22	Complete	Survey – Crist has completed the topographic survey as well as locating all of the existing sewer manholes and 95% of the existing utilities. They are in the process of completing the boundary portion of the survey.
3	TBD	TBD	Advertising / Bidding
4	9/8/22	Ongoing	Permitting • CHS and Hawkins-Weir met to review the work description for the improvements within the Hot Springs National Park Service (NPS) on 8/3/22. HW submitted the project description and preliminary plans for NPS compliance review. Approval received 10/25/2022. • ADH Approval anticipated by 11/15/2022 • ARDOT Approval – ongoing
5	1/1/23	3/31/2024	Construction Services

The RJN Group, Inc. has the contract for the Lower Gulpha Gravity Interceptor from Spring Street to the Gulpha Pump Station. The project is funded by the 2020 Wastewater Bond. Below is their updated schedule.

Lower Gulpha Interceptor – RJN Group

Item No.	Begin	End	Description
1	3/22/22	9/16/22	Conceptual Design Report Submitted
2	3/22/22	9/16/22	30% Plan Submittal
3	3/22/22	1/21/23	Conceptual Design Report Final (anticipated schedule)
4	3/22/22	1/21/23	60% Plan Submittal (anticipated schedule)
Sub Consultants			
5	3/22/22	Ongoing	Crist Survey is picking up additional survey. Deliverable is expected by end of November.
6	3/22/22	Ongoing	Ace Pipe Multi-Sensor Inspection -Completed field work and submitted summary documentation. RJN in process of reviewing data.
7	3/22/22	Ongoing	Eco Environmental - Completed USFWS IPAC and correspondence with USFWS Bat Biologist for tree cutting dates. Also completed the request for comments letter to SHPO. Awaiting design progression.
8	4/29/22	Ongoing	Grubbs Geotechnical - Field work on initial 13 holes are complete. RJN to finalize alignment and determine where the next 17 investigations will be located.

Crist Engineers, Inc. has the contract for the Gulpha Pump Station Improvements. The project is funded by the 2020 Wastewater Bond. No schedule changes from last month.

Gulpha Pump Station Improvements – Crist Engineers

Item No.	Begin	End	Description
1	3/22/22	Ongoing	Engagement of professional services with Crist Engineers
		7/1/2022	Conceptual Design Phase
		9/1/2022	60% Design Phase
		1/1/2023	90% Design Phase
		3/1/2023	100% Design Phase
2	3/22/22	4/8/22	On site survey on the pump station site, planimetrics, surface features, and contour development
3	3/22/22	Ongoing	Commenced initial hydraulic evaluation of pump alternatives for pump station site. Acceptable pump manufacturers are Cornell, Fairbanks and Flygt.
4	3/22/22	Ongoing	Design Phase Services – Meeting next week to coordinate with Gulpha Force Main Consulting Engineer, Hanson & McLaughlin, LLC
5	3/1/23	5/1/23	Bidding and Negotiation Services
6	5/1/23	9/1/24	Construction Phase Services

Hanson & McLaughlin, LLC is working on the Gulpha Force Main from the Gulpha Pump Station to the Davidson Drive Wastewater Treatment Plant. The project will be bid this year. The project is funded by the 2020 Wastewater Bond. The 36” force main has been downsized to a 30” forcemain for wet weather flow. Dry weather flow will be carried by a new 18” force main, which will be the next phase. No other changes to their schedule.

Gulpha Force Main – Hanson Mclaughlin

Item No.	Begin	End	Description
1	3/15/22	12/31/23	Gulpha 30-Inch Force Main contract signed
2	3/15/22	Complete	Surveying
3	3/15/22	Ongoing	Geotechnical engineering
4	4/8/22	Ongoing	Design Process
5	4/8/22	Ongoing	Project Manual (specifications) preparation
6	4/15/22	Complete	30% Plan Submittal
7	6/1/22	Complete	60% Plan Submittal
8	10/1/22	12/31/23	100% Plan Submittal
9	1/1/23	4/31/23	Bid Phase/Procurement Services
10	5/1/23	12/31/23	Construction Phase Services

There are no SSOs to report for Manholes 1750, 1754 and the Gulpha Creek Pump Station. Should you need further information, please contact me at (501)651-7730 or by email at mledbetter@cityhs.net.

Sincerely,

Monty Ledbetter
Utilities Director

Attachment: Water Quality Assessment Data

cc: **City of Hot Springs** - Bill Burrough, City Manager; Denny McPhate, Deputy City Manager; Harold Mauldin, Wastewater Facilities Operations Manager; Todd Piller, Capital Project Manager;
Consultants - Karl Hanson, Hanson McLaughlin; Chris Leathers, RJN Group; Craig Johnson, Crist Engineers; Elizabeth Heiles, Hawkins-Weir

WATER QUALITY ASSESSMENT (WQA)
Manhole 1750
Averages: December 2021 –October2022

There were no reported SSO's at Manhole 1750 during October. The September WQA average table had two typos, corrected in this document. Otherwise, the WQA averages did not change.

Manhole 1750	Overflow		
	Location Site 1	Upstream Site 2	Downstream Site 3
pH SU	7.09	7.16	7.02
Temperature C	15.81	15.58	15.67
DO ppm	9.70	10.15	9.40
Conductivity uS/cm	66.02	62.57	73.18
Turbidity NTU	13.41	13.10	14.26
Alkalinity mg/L	14.46	13.40	14.98
BOD mg/L	2.11	1.25	1.82
TSS mg/L	6.64	6.99	5.43
Ammonia mg/L	0.25	0.02	0.08
Total Phosphorus mg/L	0.10	0.06	0.06
Ortho-phosphate mg/L	0.11	0.04	0.06
Sulfate mg/L	17.10	16.86	18.00
TDS mg/L	51.44	46.38	55.38
Chloride mg/L	3.96	3.63	4.01
Nitrate/Nitrite mg/L	<0.57	<0.51	<0.50
TKN mg/L	<1.20	<0.68	<0.87
Chlophyll A mg/L	<0.0058	<0.0053	<0.0050
Fecal Coliforms/100ml	<1447.58	<1062.79	<593.28
E. Coli cfu/100ml	>610.29	>609.28	>756.14