



# CITY OF HOT SPRINGS

Utilities Department

780 Adams Street

Hot Springs, Arkansas 71901

August 10, 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  
Progress Report and SECAP Delivery**

Dear Ms. Allen-Daniel,

The following components are a brief synopsis of progress regarding the CAO.

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	09/25/22	Design Phase Services
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	6/22/2022	6/22/2022	CHS and Hawkins-Weir (HW) 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/permitting on 8/9/22.
3	9/25/22	10/25/22	Bidding and Negotiation Services
4	10/26/22	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.

<b>Lower Gulpha Interceptor – RJN Group</b>			
<b>Item No.</b>	<b>Begin</b>	<b>End</b>	<b>Description</b>
1	3/22/22	10/16/22	Conceptual Design Report Draft (anticipated schedule)
2	3/22/22	10/16/22	30% Plan Submittal (anticipated schedule)
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)
<b>Sub Consultants</b>			
5	3/22/22	Ongoing	Crist Survey - Crist submitted full topo deliverable. Due to alignment edits, additional survey is required. Coordination is underway.
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 15 holes are in progress.

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.

<b>Gulpha Pump Station Improvements – Crist Engineers</b>			
<b>Item No.</b>	<b>Begin</b>	<b>End</b>	<b>Description</b>
1	3/22/22	Ongoing 7/1/2022 9/1/2022 1/1/2023 3/1/2023	Engagement of professional services with Crist Engineers Conceptual Design Phase 60% Design Phase 90% Design Phase 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.

On July 21, 2022 CHS Staff met with Crist Engineers and Hanson & McLaughlin Engineers to make decisions regarding the route of force main from the Gulpha Pump Station to the Davidson Drive treatment plant. It has been decided by Staff that the force main will be reduced to a 30" PVC Main utilizing a new route all the way from to the Davidson Drive WWTP. It will be connected to the old 20" DIP Force main via some valves close to the discharge point into the existing gravity main. The connection will be downstream of where all the force main failures have occurred. This will allow the existing pump station to utilize the new force main quicker and abandon the existing force main. Then construction of the remainder of the new 30" force main can continue. Easements are being acquired by CHS for the new route.

Gulpha Force Main – Hanson Mclaughlin			
Item No.	Begin	End	Description
1	3/15/22	12/31/23	Gulpha 36-Inch Force Main contract signed
2	3/15/22	Ongoing	Surveying and geotechnical engineering proposals received
6	4/8/22	Ongoing	Design Process
7	4/8/22	Ongoing	Project Manual (specifications) preparation
8	4/15/22	Complete	30% Plan Submittal
9	6/1/22	7/31/22	60% Plan Submittal
10	8/1/22	11/30/22	100% Plan Submittal
11	12/1/22	3/31/23	Bid Phase/Procurement Services
12	4/1/23	12/31/23	Construction Phase Services

Should you need further information, please contact me at (501)651-7730 or by email at [mledbetter@cityhs.net](mailto:mledbetter@cityhs.net).

Sincerely,



Monty Ledbetter  
Utilities Director

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

WATER QUALITY ASSESSMENT (WQA)

Manhole 1750

July, 2022

Overflow Date: 7/24/22 – 7/25/22

Sample Date: 7/25/22

Manhole 1750	Overflow		
	Location Site 1	Upstream Site 2	Downstream Site 3
pH SU	7.50	8.06	7.40
Temperature C	30.80	30.80	31.20
DO ppm	7.00	8.65	6.30
Conductivity uS/cm	143.10	124.20	130.20
Turbidity NTU	18.70	13.60	4.12
Alkalinity mg/L	45.00	40.00	40.00
BOD mg/L	8.23	1.58	3.23
TSS mg/L	9.40	11.10	4.70
Ammonia mg/L	1.87	0.07	0.43
Total Phosphorus mg/L	0.42	0.10	0.11
Ortho-phosphate mg/L	0.70	0.11	0.12
Sulfate mg/L	24.5	20.70	17.80
TDS mg/L	89.00	63.00	67.00
Chloride mg/L	9.90	7.70	7.90
Nitrate/Nitrite mg/L	<0.50	<0.50	<0.50
TKN mg/L	4.20	0.78	1.20
Chlophyll A mg/L	<0.005	<0.005	0.0053
Fecal Coliforms/100ml	11250	7063.00	4333.00
E. Coli cfu/100ml	>2419.60	>2419.60	>2419.60

Sample Date: 7/29/22		
Site No.	Fecal Coliforms	E. coli
2	25.00	58.10
3	143.75	147.00
4	56.25	78.00
5	18.75	4.10

Sample Date: 8/1/22		
Site No.	Fecal Coliforms	E. coli
2	50.00	32.30
3	125.00	36.80
4	6.25	4.40
5	25.00	9.60

Sample Date: 8/2/22		
Site No.	Fecal Coliforms	E. coli
2	25.00	62.20
3	150.00	103.40
4	0.00	1.00
5	6.25	1.00

# WATER QUALITY ASSESSMENT (WQA)

## Manhole 1750

Averages: December 2021 – July 2022

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	43.18
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	6.44	6.99	5.43
Ammonia mg/L	0.25	0.02	1.08
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	43.38	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	<0.005
Fecal Coliforms/100ml	<1447.58	<1062.79	<593.28
E. Coli cfu/100ml	>610.29	>609.28	>756.14