ARKANSAS
ENERGY & ENVIRONMENT

May 19, 2023

Mr. Monty Ledbetter, Utilities Director
City of Hot Springs
320 Davidson Drive
Hot Springs, AR 71901
Email: mledbetter@cityhs.net ; hmauldin@cityhs.net ; gyates@cityhs.net

RE: Hot Springs - Davidson WWTP Inspections (Garland Co)
AFIN: 26-00145 NPDES Permit No.: AR0033880
ARR000059

Dear Mr. Ledbetter:

On April 27, 2023, I performed a Compliance Evaluation Inspection, an SSO/Collection System Inspection, and an Industrial Stormwater (No-Exposure) Inspection of the above-referenced facility in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. A copy of each inspection report is enclosed for your records.

Please refer to the "Summary of Findings" section of each of the inspection reports and provide a written response for each item that was noted. This response should be mailed to the attention of the Office of Water Quality - Compliance Branch at the address below my signature or emailed to Water-Inspection-Report@adeq.state.ar.us. This response should contain documentation describing the course of action taken to correct each item noted. The corrective action(s) should be completed as soon as possible and the written response with all necessary documentation (i.e., photos) is due by **June 2, 2023**.

If I can be of any assistance, please contact me at travis.harmon@adeq.state.ar.us or (501) 837-2070.

Sincerely,

Travis Harmon

Travis Harmon
Inspector, Office of Water Quality
5301 Northshore Drive, North Little Rock, AR, 72118

ENVIRONMENTAL QUALITY

OFFICE OF WATER QUALITY INSPECTION REPORT

AFIN: **26-00145**	PERMIT #: **AR0033880**	DATE: **4/27/2023**
COUNTY: **26 Garland**	PDS #: **125867**	MEDIA: **WN**
GPS LAT: **34.450316** LONG: **-93.019033** LOCATION: **General Area**		

FACILITY INFORMATION

NAME:
Hot Springs - Davidson WWTP
LOCATION:
320 Davidson Drive
CITY:
Hot Springs, AR 71901

RESPONSIBLE OFFICIAL

NAME: / TITLE
Mr. Monty Ledbetter / Utilities Director
COMPANY:
City of Hot Springs
MAILING ADDRESS:
320 Davidson Drive
CITY, STATE, ZIP:
Hot Springs AR 71901
PHONE & EXT: / FAX:
501-262-1125 / 501-262-0339
EMAIL:
mledbetter@cityhs.net
hmauldin@cityhs.net
gyates@cityhs.net

CONTACTED DURING INSPECTION: **No**

INSPECTION INFORMATION

FACILITY TYPE:	INSPECTOR ID#:
1 - Municipal	**34689 S - State**

FACILITY EVALUATION RATING:	INSPECTION TYPE:
3 - Satisfactory	**Compliance Evaluation**

DATE(S):	ENTRY TIME:	EXIT TIME:	PERMIT EFFECTIVE DATE:
4/27/2023	**09:50**	**14:10**	**9/1/2018**
			PERMIT EXPIRATION DATE: **8/31/2023**

FAYETTEVILLE SHALE RELATED: **N**

FAYETTEVILLE SHALE VIOLATIONS: **N**

INSPECTION PARTICIPANTS

NAME/TITLE/PHONE/FAX/EMAIL/ETC.:
Harold Mauldin/ C.O.
Gordon Yates/ Operator

AREA EVALUATIONS

(S=Satisfactory, M=Marginal, U=Unsatisfactory, N=Not Applicable/Evaluated)

S	PERMIT	**S**	FLOW MEASUREMENT	**S**	STORMWATER
S	RECORDS/REPORTS	**N**	LABORATORY	**N**	FACILITY SITE REVIEW
S	OPERATION & MAINTENANCE	**S**	EFFLUENT/RECEIVING WATER	**N**	SELF-MONITORING PROGRAM
S	SAMPLING	**S**	SLUDGE HANDLING/DISPOSAL	**N**	PRETREATMENT
N	OTHER:				

SUMMARY OF FINDINGS

1. **The facility reported exceedances in the March 2022 DMR for TSS & TP and the February 2023 DMR for CBOD5. The facility also reported lethal and sub-lethal failures in June 2022 and they have conducted TRE. These are violations of Part I.A of the permit. The facility has properly reported these exceedances in monthly DMR and no inspection response is required.**

GENERAL COMMENTS

Introduction

I inspected April 27, 2023. The inspection was scheduled and Mr. Harold Mauldin, Cognizant Official, and Mr. Gordon Yates, Operator, represented the facility. The City of Hot Springs operates a wastewater treatment plant designed to treat 12 MGD. This was a routine inspection.

WWTP Inspection

I inspected the plant starting at the headworks and ending at the final effluent. I then inspected the equalization basin. Treatment consists of two bar screens, two grit chambers, three primary clarifiers (one of which was down for maintenance), three-chamber aeration, four secondary clarifiers, two disc filters with cascade post-aeration, and UV disinfection. Sludge is pressed and loaded for transport to a composting facility. The WWTP also operates an equalization basin for high flows with an emergency bar screen operated near the headworks. I found no violations concerning the WWTP during the inspection. The facility should monitor and seal any seeps in the walls of the primary clarifiers as well as monitor burrowing activity. During the inspection, Mr. Yates reported the facility is considering purchasing weir covers for the secondary clarifiers to prevent excessive algae accumulation. He reported that wash down of the algae disrupts the new disc filters.

Records Review

I reviewed monthly DMR from March 2022 through February 2023. I also reviewed quarterly WET tests during this time period. I reviewed the February 2023 data analysis sheet to determine proper averaging and load calculation for DMR. I reviewed the June 2022 bio-monitoring report for proper organisms, proper duration, and proper dilutions. I emailed Mr. Mauldin a laboratory records request, which will be sent to Mr. Richard Healey, OWQ - Enforcement Branch Manager, for review.

INSPECTOR'S SIGNATURE: Travis Harmon	**Travis Harmon**	DATE: **5/5/2023**
SUPERVISOR'S SIGNATURE: Kerri McCabe	**Kerri McCabe**	DATE: **5/12/2023**

SECTION A: PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	☑S ☐M ☐U ☐NA ☐NE
DETAILS:	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE:	☑Y ☐N ☐NA ☐NE
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES:	☐Y ☐N ☑NA ☐NE
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT:	☑Y ☐N ☐NA ☐NE
4. ALL DISCHARGES ARE PERMITTED:	☑Y ☐N ☐NA ☐NE

SECTION B: RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT	☑S ☐M ☐U ☐NA ☐NE
DETAILS:	
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRS:	☑Y ☐N ☐NA ☐NE
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE:	☑S ☐M ☐U ☐NA ☐NE
a. DATES AND TIME(S) OF SAMPLING:	☑Y ☐N ☐NA ☐NE
b. EXACT LOCATION(S) OF SAMPLING:	☑Y ☐N ☐NA ☐NE
c. NAME OF INDIVIDUAL PERFORMING SAMPLING:	☑Y ☐N ☐NA ☐NE
d. ANALYTICAL METHODS AND TECHNIQUES:	☑Y ☐N ☐NA ☐NE
e. RESULTS OF CALIBRATIONS:	☐Y ☐N ☐NA ☑NE
f. RESULTS OF ANALYSES:	☑Y ☐N ☐NA ☐NE
g. DATES AND TIMES OF ANALYSES:	☑Y ☐N ☐NA ☐NE
h. NAME OF PERSON(S) PERFORMING ANALYSES:	☑Y ☐N ☐NA ☐NE
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE:	☐S ☐M ☐U ☐NA ☑NE
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR:	☐S ☐M ☐U ☐NA ☑NE
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA:	☑Y ☐N ☐NA ☐NE

SECTION C: OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED	☑S ☐M ☐U ☐NA ☐NE
DETAILS: **See narrative regarding clarifier weir algae**	
1. TREATMENT UNITS PROPERLY OPERATED:	☑S ☐M ☐U ☐NA ☐NE
2. TREATMENT UNITS PROPERLY MAINTAINED:	☑S ☐M ☐U ☐NA ☐NE
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED:	☑S ☐M ☐U ☐NA ☐NE
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE:	☑S ☐M ☐U ☐NA ☐NE
5. ALL NEEDED TREATMENT UNITS IN SERVICE:	☑S ☐M ☐U ☐NA ☐NE
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED:	☑S ☐M ☐U ☐NA ☐NE
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED:	☑S ☐M ☐U ☐NA ☐NE
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE:	☑Y ☐N ☐NA ☐NE
9. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED:	☑Y ☐N ☐NA ☐NE
10. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED:	☑Y ☐N ☐NA ☐NE
11. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR:	☑Y ☐N ☐NA ☐NE
12. IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED: **Bypass reported 1/31/2023 & 4/20/2022**	☑Y ☐N ☐NA ☐NE
13. HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS: **Construction mod pending**	☑Y ☐N ☐NA ☐NE
14. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT:	☑Y ☐N ☐NA ☐NE
15. IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT:	☑Y ☐N ☐NA ☐NE

SECTION D: SAMPLING	
PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS	☑S ☐M ☐U ☐NA ☐NE
DETAILS:	
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT:	☑Y ☐N ☐NA ☐NE
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES:	☑Y ☐N ☐NA ☐NE
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT:	☑Y ☐N ☐NA ☐NE
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT:	☑Y ☐N ☐NA ☐NE
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT:	☑Y ☐N ☐NA ☐NE
6. SAMPLE COLLECTION PROCEDURES ADEQUATE:	☑Y ☐N ☐NA ☐NE
a. SAMPLES REFRIGERATED DURING COMPOSITING:	☑Y ☐N ☐NA ☐NE
b. PROPER PRESERVATION TECHNIQUES USED:	☑Y ☐N ☐NA ☐NE
c. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136:	☑Y ☐N ☐NA ☐NE
7. IF MONITORING IS PERFORMED MORE OFTEN THAN REQUIRED ARE RESULTS REPORTED ON THE DMR:	☐Y ☐N ☑NA ☐NE

SECTION E: FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS	☑S ☐M ☐U ☐NA ☐NE
DETAILS:	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: TYPE OF DEVICE: **4 ft. Parshall flume**	☑Y ☐N ☐NA ☐NE
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	☑Y ☐N ☐NA ☐NE
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED: **ISCO**	☑Y ☐N ☐NA ☐NE
4. CALIBRATION FREQUENCY ADEQUATE:	☑Y ☐N ☐NA ☐NE
5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES: **Contracted**	☐Y ☐N ☐NA ☑NE
6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:	☑Y ☐N ☐NA ☐NE
7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:	☑Y ☐N ☐NA ☐NE
8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:	☑Y ☐N ☐NA ☐NE
9. HEAD MEASURED AT PROPER LOCATION:	☑Y ☐N ☐NA ☐NE

SECTION F: LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS	☐S ☐M ☐U ☐NA ☑NE
DETAILS: **Lab records request sent via email; will be mailed to Richard Healey.**	
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(B) FOR SLUDGES) :	☐Y ☐N ☐NA ☑NE
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED:	☐Y ☐N ☐NA ☑NE
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT:	☐Y ☐N ☐NA ☑NE
4. QUALITY CONTROL PROCEDURES ADEQUATE:	☐Y ☐N ☐NA ☑NE
5. DUPLICATE SAMPLES ARE ANALYZED ≥10% OF THE TIME:	☐Y ☐N ☐NA ☑NE
6. SPIKED SAMPLES ARE ANALYZED ≥10% OF THE TIME:	☐Y ☐N ☐NA ☑NE
7. COMMERCIAL LABORATORY USED:	☐Y ☑N ☐NA ☐NE
a. LAB NAME: **City of Hot Springs Davidson WWTP**	
b. LAB ADDRESS: **320 Davidson Drive, Hot Springs, AR 71901**	
c. PARAMETERS PERFORMED: **CBOD5, TSS, NH3-N, DO, FCB, TP, NO3+NO2-N, pH**	
8. BIOMONITORING PROCEDURES ADEQUATE:	☑Y ☐N ☐NA ☐NE
a. PROPER ORGANISMS USED:	☑Y ☐N ☐NA ☐NE
b. PROPER DILUTION SERIES FOLLOWED:	☑Y ☐N ☐NA ☐NE
c. PROPER TEST METHODS AND DURATION:	☑Y ☐N ☐NA ☐NE
d. RETESTS AND/OR TRE PERFORMED AS REQUIRED: **Failed lethal and sub-lethal in June 2022; TRE initiated.**	☑Y ☐N ☐NA ☐NE

SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS

BASED ON VISUAL OBSERVATIONS ONLY — ☑S ☐M ☐U ☐NA ☐NE

DETAILS: **Viewed at flume**

OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER
001	none	none	Very slight	some	none	clear	--

SECTION H: SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS — ☑S ☐M ☐U ☐NA ☐NE

DETAILS: **Sludge pressed and then composted at city compost facility.**

1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY: ☑S ☐M ☐U ☐NA ☐NE
2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503: ☐S ☐M ☐U ☐NA ☑NE
3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: (E.G., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE):

SECTION I: SAMPLING INSPECTION PROCEDURES

SAMPLE RESULTS WITHIN PERMIT REQUIREMENTS — ☐S ☐M ☐U ☑NA ☐NE

DETAILS:

1. SAMPLES OBTAINED THIS INSPECTION: ☐Y ☐N ☑NA ☐NE
2. TYPE OF SAMPLE: ☐GRAB:__ ☐COMPOSITE:__ METHOD:__ FREQUENCY:
3. SAMPLES PRESERVED: ☐Y ☐N ☑NA ☐NE
4. FLOW PROPORTIONED SAMPLES OBTAINED: ☐Y ☐N ☑NA ☐NE
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE: ☐Y ☐N ☑NA ☐NE
6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE: ☐Y ☐N ☑NA ☐NE
7. SAMPLE SPLIT WITH PERMITTEE: ☐Y ☐N ☑NA ☐NE
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED: ☐Y ☐N ☑NA ☐NE
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT: ☐Y ☐N ☑NA ☐NE

SECTION J: STORM WATER POLLUTION PREVENTION PLAN

STORM WATER MANAGEMENT MEETS PERMIT REQUIREMENTS — ☑S ☐M ☐U ☐NA ☐NE

DETAILS: **No-Exposure Exclusion. Please see inspection report for ARR000059 conducted April 27, 2023.**

1. SWPPP UPDATED AS NEEDED:__ DATE OF LAST UPDATE: ☐Y ☐N ☑NA ☐NE
2. SITE MAP INCLUDING ALL DISCHARGES AND SURFACE WATERS: ☐Y ☐N ☑NA ☐NE
3. POLLUTION PREVENTION TEAM IDENTIFIED: ☐Y ☐N ☑NA ☐NE
4. POLLUTION PREVENTION TEAM PROPERLY TRAINED: ☐Y ☐N ☑NA ☐NE
5. LIST OF POTENTIAL POLLUTANT SOURCES: ☐Y ☐N ☑NA ☐NE
6. LIST OF POTENTIAL SOURCES AND PAST SPILLS AND LEAKS: ☐Y ☐N ☑NA ☐NE
7. ALL NON-STORM WATER DISCHARGES ARE AUTHORIZED: ☑Y ☐N ☐NA ☐NE
8. LIST OF STRUCTURAL BMPS: ☐Y ☐N ☑NA ☐NE
9. LIST OF NON-STRUCTURAL BMPS: ☐Y ☐N ☑NA ☐NE
10. BMPS PROPERLY OPERATED AND MAINTAINED: ☐Y ☐N ☑NA ☐NE
11. INSPECTIONS CONDUCTED AS REQUIRED: ☐Y ☐N ☑NA ☐NE

FLOW CALCULATION SHEET

Date: **4/27/2023** Time: **1106**

Head in Inches: Feet: **1.309 ft.**

Type & Size of Primary Flow Measurement Device: **4 ft. Parshall Flume**

Name & Model of Secondary Flow Measurement Device: **Teledyne ISCO**

Date of last Calibration of Secondary Flow Device: **October 2022**

Recorded Flow at Date & Time Listed Above: **15.813 MGD** (Facility Flow Meter)

Calculated Flow at Date & Time Listed Above: **15.64 MGD**

(Flow is calculated using flow charts in: ISCO Open Channel Flow Measurement Handbook-5th Edition)

$$\% \text{ Error} = \frac{\text{Recorded Value} - \text{Calculated Value}}{\text{Calculated Value}} \times 100$$

$$\% \text{ Error} = \frac{15.813 - 15.64}{15.64} \times 100$$

$$\% \text{ Error} = \frac{0.173}{15.64} \times 100$$

% Error = 0.01106 X 100

% Error = **1.1** %

Comments:

DMR Calculation Check

Reporting Period:	**From**	**2023** (Year)	**02** (Month)	**01** (Day)	**To**	**2023** (Year)	**02** (Month)	**28** (Day)

Parameter Checked: TSS

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly Mo. Avg. - mg/l	Concentration Monthly 7-day Avg. - mg/l
Reported Value:	1,303.0	8.1	9.7
Calculated Value:	1,302.9	8.1	9.7
Permit Value:	1,500	15	22.5

If calculated value does not equal reported value, explain:

DMR Calculation Check

Reporting Period:	**From**	**2023** (Year)	**02** (Month)	**01** (Day)	**To**	**2023** (Year)	**02** (Month)	**28** (Day)

Parameter Checked: CBOD5

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly Mo. Avg. - mg/l	Concentration Monthly 7-day Avg. - mg/l
Reported Value:	1,336.3	8.01	8.71
Calculated Value:	1,336.28	8.01	8.71
Permit Value:	1,000	10	15

If calculated value does not equal reported value, explain:

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1016**
Witness:	**None- no other regulatory personnel**			Photo #:	**1**
Description:	**Influent junction box**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1017**
Witness:	**None**			Photo #:	**2**
Description:	**Emergency/high-flow bar screen to equalization basin**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1021**
Witness:	**None**			Photo #:	**3**
Description:	**Two bar screens to plant**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1025**
Witness:	**None**			Photo #:	**4**
Description:	**Two grit chambers**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1025**
Witness:	**None**			Photo #:	**5**
Description:	**Grit chamber effluent**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1025**
Witness:	**None**			Photo #:	**6**
Description:	**Other grit chamber down at time of inspection**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1026**
Witness:	**None**			Photo #:	**7**
Description:	**One of three primary clarifiers; one down for maintenance.**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	
Witness:	**None**			Photo #:	**8**
Description:	**Second of three primary clarifiers**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1032**
Witness:	**None**			Photo #:	**9**
Description:	**Third of three primary clarifiers**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1035**
Witness:	**None**			Photo #:	**10**
Description:	**Facility will need to add sealant and monitor; monitor burrowing animal activity.**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1037**
Witness:	**None**			Photo #:	**11**
Description:	**Three chamber aeration with view of RAS tank.**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1037**
Witness:	**None**			Photo #:	**12**
Description:	**First aeration tank**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1038**
Witness:	**None**			Photo #:	**13**
Description:	**Second RAS tank**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1038**
Witness:	**None**			Photo #:	**14**
Description:	**Second aeration tank**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1039**
Witness:	**None**			Photo #:	**15**
Description:	**Third RAS tank**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1039**
Witness:	**None**			Photo #:	**16**
Description:	**Third aeration tank**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1044**
Witness:	**None**			Photo #:	**17**
Description:	**First of four secondary clarifiers with effluent shown.**				

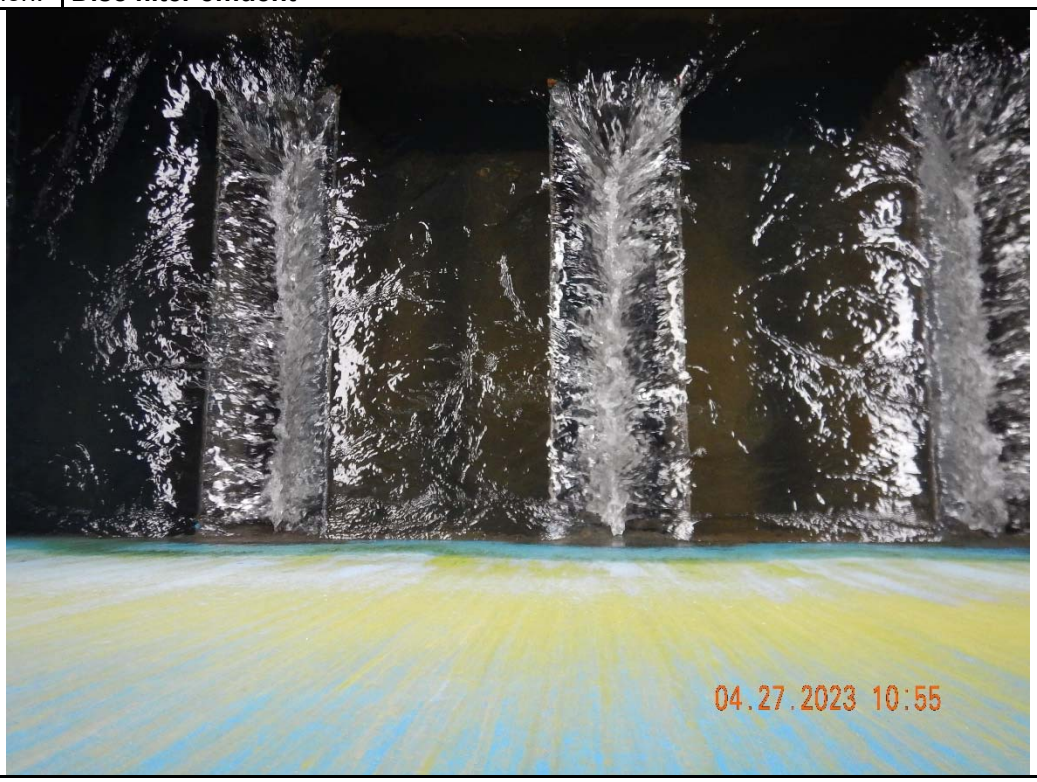
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1045**
Witness:	**None**			Photo #:	**18**
Description:	**Second secondary clarifier. Facility is considering weir covers to prevent algae growth as wash-down can disrupt new filters.**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1048**
Witness:	**None**			Photo #:	**19**
Description:	**Third secondary clarifier**				

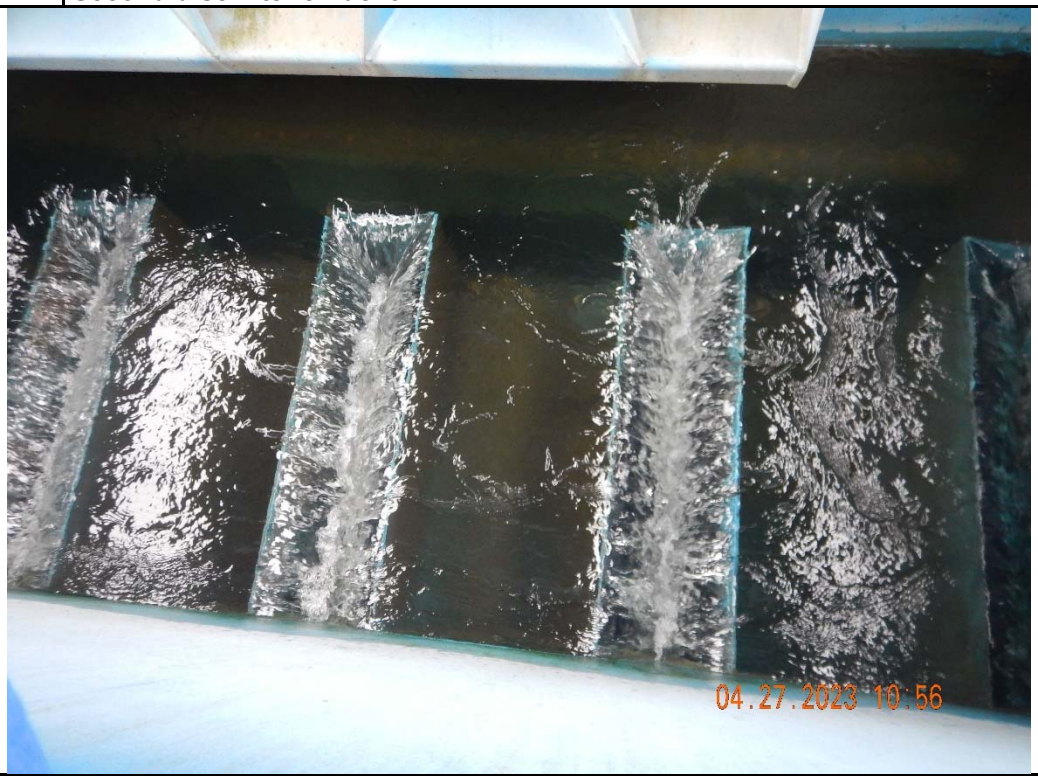
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1049**
Witness:	**None**			Photo #:	**20**
Description:	**Fourth secondary clarifier**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1054**
Witness:	**None**			Photo #:	**21**
Description:	**One of two disc filters**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1055**
Witness:	**None**			Photo #:	**22**
Description:	**Disc filter effluent**				



Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1056**
Witness:	**None**			Photo #:	**23**
Description:	**Second disc filter effluent**				



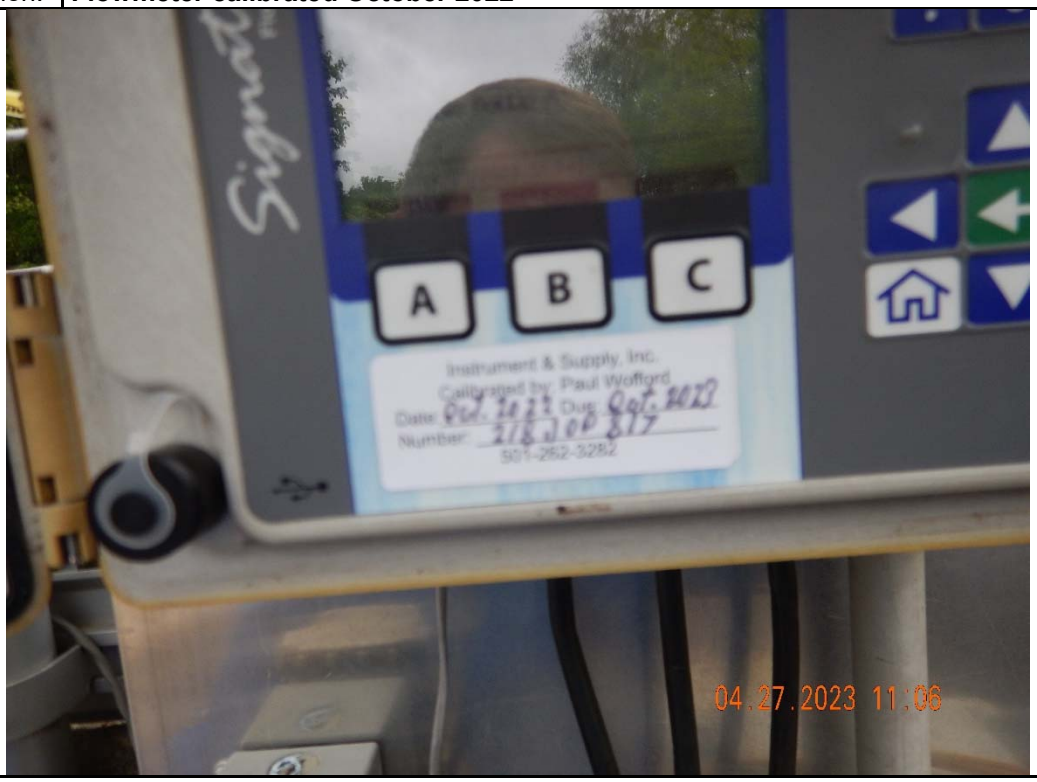
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1057**
Witness:	**None**			Photo #:	**24**
Description:	**Disc filter effluent from both with cascade aeration**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1058**
Witness:	**None**			Photo #:	**25**
Description:	**View of disc filter housing**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1101**
Witness:	**None**			Photo #:	**26**
Description:	**Two lines of UV disinfection**				

Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1104**
Witness:	**None**			Photo #:	**27**
Description:	**View of final effluent at flume**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1106**
Witness:	**None**			Photo #:	**28**
Description:	**Flowmeter calibrated October 2022**				



Office of Water Quality Photographic Evidence Sheet					
Location:	**Hot Springs - Davidson WWTP**				
Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1107**
Witness:	**None**			Photo #:	**29**
Description:	**Composite sampler with thermometer**				

Photographer:	**Travis Harmon**	Date:	**April 27, 2023**	Time:	**1129**
Witness:	**None**			Photo #:	**30**
Description:	**View of equalization basin**				

Figure 1. Google Earth image of CHS – Davidson Plant.