



ARKANSAS

ENERGY & ENVIRONMENT

November 7, 2022

Robert Tharp, Mayor
City of Decatur
PO Box 247
Decatur, AR 72722

Via email to: bobtharp@decaturarkansas.us & james.boston@decaturarkansas.us

RE: City of Decatur WWTP Inspection
AFIN: 04-00052 **Permit No.: AR0022292**

Honorable Mayor Tharp:

On November 16, 2021, I performed a Compliance Evaluation Inspection with a follow-up reconnaissance on March 16, 2022, 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. Copies of the inspection reports are enclosed for your records.


Please refer to the “Summary of Findings” section 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 **November 25, 2022.**

If I can be of any assistance please contact me at grimes@adeq.state.ar.us or 501-837-2067.

Sincerely,

A handwritten signature in blue ink that reads "Garrett Grimes".

Garrett Grimes
Inspector, Office of Water Quality
5301 Northshore Drive, North Little Rock, AR, 72118

 <p>ENVIRONMENTAL QUALITY</p>	OFFICE OF WATER QUALITY INSPECTION REPORT				
	AFIN: 04-00052	PERMIT #: AR0022292	DATE: 11/16/2021		
	COUNTY: 04 Benton	PDS #: 123277	MEDIA: WN		
	GPS LAT: 36.34417 LONG: -94.47271 LOCATION: General Area				
FACILITY INFORMATION		INSPECTION INFORMATION			
NAME: City of Decatur WWTP LOCATION: 985 Austin Avenue CITY: Decatur		FACILITY TYPE: 1 - Municipal INSPECTOR ID#: 104111 S - State FACILITY EVALUATION RATING: 1 - Unsatisfactory INSPECTION TYPE: Compliance Evaluation			
RESPONSIBLE OFFICIAL		DATE(S): 11/16/2021 ENTRY TIME: 10:34 EXIT TIME: 15:00 PERMIT EFFECTIVE DATE: 11/30/2020 PERMIT EXPIRATION DATE: 11/30/2025			
NAME: / TITLE Robert Tharp / Mayor COMPANY: City of Decatur MAILING ADDRESS: PO Box 247 CITY, STATE, ZIP: Decatur AR 72722 PHONE & EXT: / FAX: 479-752-3912 / EMAIL: bobtharp@decaturarkansas.us & james.boston@decaturarkansas.us		FAYETTEVILLE SHALE RELATED: N FAYETTEVILLE SHALE VIOLATIONS: N			
CONTACTED DURING INSPECTION: No		INSPECTION PARTICIPANTS			
		NAME/TITLE/PHONE/FAX/EMAIL/ETC.: Michael Karp, Technician, City of Decatur; James Boston, Public Works Director, City of Decatur; Cole Southerland, District 1 Inspector, DEQ; Garrett Grimes, District 1 Inspector, DEQ			
AREA EVALUATIONS (S=Satisfactory, M=Marginal, U=Unsatisfactory, N=Not Applicable/Evaluated)					
S	PERMIT	S	FLOW MEASUREMENT	N	STORMWATER
M	RECORDS/REPORTS	M	LABORATORY	N	FACILITY SITE REVIEW
U	OPERATION & MAINTENANCE	S	EFFLUENT/RECEIVING WATER	U	SELF-MONITORING PROGRAM
U	SAMPLING	S	SLUDGE HANDLING/DISPOSAL	N	PRETREATMENT
N	OTHER:				
SUMMARY OF FINDINGS					
The following items were noted during the inspection:					
<ol style="list-style-type: none"> 1. Part I, Section A of the permit. <ol style="list-style-type: none"> a. A total of 14 effluent excursions were noted on Discharge Monitoring Reports following the previous January 14, 2020, Compliance Evaluation Inspection (Attachment 1). These excursions were addressed by the City of Decatur in Non-compliance Reports submitted to the DEQ Office of Water Quality-Enforcement Branch. No response is required. 2. Part III, Section C.3 of the permit. <ol style="list-style-type: none"> a. Dissolved oxygen duplicates are not being obtained as required by the permit (Attachment 2). Duplicates must be analyzed on 10% of samples in order to verify the integrity of the sample. 3. Part III, Section C.5 of the permit. <ol style="list-style-type: none"> a. Reported results on DMRs do not match DEQ calculations (See pages #10 - #11). This appears to result from analyses in 7-day average calculations from the end of the previous month also being incorporated in to monthly averages of the current reporting month (i.e. an August 31, 2021, analyses used in September 2021 monthly average calculations). The facility was cited for a similar issue following the previous January 14, 2020, Compliance Evaluation Inspection, 					

Inspection Report: **City of Decatur WWTP**, AFIN: **04-00052**, Permit #: **AR0022292**
where it was noted that samples obtained at the end of the month were being omitted from the monthly averages. Monthly averages for loading and concentration must incorporate samples from only the calendar month.

4. **Part III, Section B.1.A of the permit.**
 - a. **Composite sampling of influent was occurring during the inspection. However, the refrigeration unit of the composite sampling equipment was not functional at the time of the inspection. This unit must be repaired or alternative methods used to insure that sampled influent is being held at the proper temperature.**
 - b. **Evidence of leaking alum was observed from the side of a storage building. Discharges of alum to the ground must be prevented.**
 - c. **Solids were observed accumulating at the high level bar screen at the head of the plant. These solids must be removed.**
 - d. **A large cap of solids was observed accumulating in the anaerobic zone of the Membrane Bioreactor (MBR) unit. Mr. Boston stated that this cap was likely from grease that enters the unit and that it was not currently affecting treatment. However, this cap is increasing in size and concerns were raised about future impact to treatment. The City did not have a plan to deal with this cap at the time of the inspection.**
 - e. **A sludge holding pond was lacking freeboard and there was no way to expediently remove wastewater from this pond. A pump was in the process of being installed at the time of the inspection.**
 - f. **Wastewater from the above noted sludge storage pond was observed leaking from the berms on the on the north face of the pond into a former treatment pond containing stormwater.**
5. **At the time of the inspection, an overflow had occurred recently within the plant at the MBR unit. This was due to a failure at the fine mesh screen where wastewater enters the unit. When a failure occurs at this screen, the screen becomes impassible to wastewater resulting in overflow from the unit onto the surrounding ground. From the MBR unit, wastewater flows downstream to the remains of a former treatment pond. At the time of the inspection, wastewater was observed within the former treatment pond. The City of Decatur did not note discharges from this pond off the boundaries of the site. However, this pond's ability to hold wastewater is not known. Therefore, all overflows from the unit to this pond must be reported as per Part III, Section D.6 of the permit. Furthermore, the City of Decatur must call the DEQ Office of Water Quality-Permits Branch concerning the use of this former pond and any possible required modifications to the permit.**
6. **The permit does not include a sludge storage pond. This pond was used during renovations at the facility and last used several months prior to the inspection, according to Mr. Boston. Should the City wish to continue using this pond, the DEQ Office of Water Quality-Permits Branch must be contacted. If this pond is no longer intended for use, then wastes should be removed and the pond closed.**

Refer to the narrative in the "General Comments" section for additional information.

GENERAL COMMENTS

I arrived at the City of Decatur Wastewater Treatment Plant on November 14, 2021, and conducted a Compliance Evaluation Inspection in response to several complaints. Upon arrival I was greeted by Michael Karp, Wastewater Technician, City of Decatur and was later joined by James Boston, Public Works Director, City of Decatur.

The walkthrough began at the head of the plant starting at the equalization basin. The basin appeared to be well maintained with vegetation on the berms kept to a minimum and aerators functional (Photos #1 - #2). Influent from the City's two major sources of wastewater: the City of Centerton and Simmons Foods in Gentry, were examined with no issues noted (Photos #3 - #4). Influent samples were being collected, but the refrigeration unit for the influent composite sampler was not operational at the time of the inspection (Photos #5 - #6). Alum is added to the wastewater prior to entering the plant. Equipment for these additions was operational, but there was evidence of leaking alum solution from one of the storage buildings (Photos #7 - #8). Following the equalization basin, solids and grit removal screens were examined with excessive solids build up noted in the path to the bar screens causing overflows to the secondary screen (Photos #9 - #10). The solids/grit accumulation area is covered and no active wastewater leaks were observed in the area (Photo #11).

The City of Decatur operates a MBR. The MBR unit was also mentioned in the complaints received by DEQ prior to the inspection alleging overflows from this system, and there was evidence of this on satellite imagery in use by Benton County (Attachment 3). Mr. Boston confirmed wastewater overflows have occurred from this unit twice in the year 2021. Mr. Boston stated that these occurred in February 2021 and recently prior to the inspection. According to Mr. Boston, wastewater must pass through a fine mesh screen prior to entering the MBR unit and freezing in February 2021 and a recent power outage caused the screen to cease functioning and become fouled (Photo #12). When this occurs, wastewater can no longer pass through the mesh and overflows from the inlet of the MBR, according to Mr. Boston. After the wastewater overflows it follows a westward path to remains of an unused wastewater treatment pond (Photos #13 - #14). Mr. Boston stated that he did not believe wastewater was able to leave this pond and that it would evaporate over time.

A large (~4') cap of solids was observed in the anaerobic zone of the MBR unit (Photos #15 - #16). Mr. Boston stated that this cap may be from grease, and that it was not currently affecting treatment. Mr. Boston stated that the City had recently completed maintenance on the MBR membrane filters which included a chemical clean of the filters. Mr. Boston also stated that these filters are serviced once weekly and that a chemical clean with dilute bleach and citric acid are used as part of this process (Photos #17 - #18). According to Mr. Boston, the use of these chemicals is standard for cleaning MBRs and does not negatively affect the plant. The City is currently assessing adding an additional filter unit to the MBR to increase the treatment capacity of the plant.

Following the MBR, wastewater is routed through UV treatment for disinfection. UV light banks were operational and appeared in good working condition (Photos #19 - #20). The composite sampler in this area was also in good working condition. The UV disinfection is the last area of active treatment, but effluent is passively oxygenated prior to discharge from Outfall 001 (Photo #21). Algae were observed accumulating on the surface of this area, but did not appear to impair functionality. Effluent discharged appeared clear and in good condition with no solids visibly discharged or accumulating in the receiving stream (Photos #22 - #23).

A screw press is utilized for processing sludge. This press appeared operation and in good working condition at the time of the inspection (Photo #24). A sludge storage pond is located west of the main building. Freeboard was low in this pond at the time of the inspection and the City was in the process of installing a pump to begin removing liquid from the pond (Photos #25 - #26). Furthermore, there was some evidence of possible leakage from the berms into a previously used treatment pond which is now filled with stormwater (Photos #27 - #29).

INSPECTOR'S SIGNATURE: <i>Garrett Grimes</i>	Garrett Grimes	DATE: 1/20/2022
SUPERVISOR'S SIGNATURE: <i>Brent L Walker</i>	Brent L. Walker	DATE: 10/26/2022

SECTION A: PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. ALL DISCHARGES ARE PERMITTED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
SECTION B: RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRS:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
a. DATES AND TIME(S) OF SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. EXACT LOCATION(S) OF SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. NAME OF INDIVIDUAL PERFORMING SAMPLING:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
d. ANALYTICAL METHODS AND TECHNIQUES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
e. RESULTS OF CALIBRATIONS:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
f. RESULTS OF ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
g. DATES AND TIMES OF ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
h. NAME OF PERSON(S) PERFORMING ANALYSES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR:	<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
SECTION C: OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED	<input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. TREATMENT UNITS PROPERLY OPERATED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
2. TREATMENT UNITS PROPERLY MAINTAINED:	<input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
5. ALL NEEDED TREATMENT UNITS IN SERVICE:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED:	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED:	<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE:	<input type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input checked="" type="checkbox"/> NE
9. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
10. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
11. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
12. IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
13. HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
14. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
15. IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE

SECTION D: SAMPLING	
PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS	<input type="checkbox"/> S <input type="checkbox"/> M <input checked="" type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. SAMPLE COLLECTION PROCEDURES ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. SAMPLES REFRIGERATED DURING COMPOSITING: <u>Influent composite sampler refrigeration unit was not functional</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. PROPER PRESERVATION TECHNIQUES USED: <u>See above</u>	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. IF MONITORING IS PERFORMED MORE OFTEN THAN REQUIRED ARE RESULTS REPORTED ON THE DMR:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
SECTION E: FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS	<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: <u>9"</u> TYPE OF DEVICE: <u>Parshall Flume</u>	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. CALIBRATION FREQUENCY ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
9. HEAD MEASURED AT PROPER LOCATION:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
SECTION F: LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS	<input type="checkbox"/> S <input checked="" type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE
DETAILS:	
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(B) FOR SLUDGES) :	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
4. QUALITY CONTROL PROCEDURES ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
5. DUPLICATE SAMPLES ARE ANALYZED \geq 10% OF THE TIME:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
6. SPIKED SAMPLES ARE ANALYZED \geq 10% OF THE TIME:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
7. COMMERCIAL LABORATORY USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. LAB NAME: <u>Environmental Services Company (ESC), Geotechnical and Testing Services (GTS), Pace Analytical</u>	
b. LAB ADDRESS:	
c. PARAMETERS PERFORMED: <u>All permitted excluding flow, pH, DO</u>	
8. BIOMONITORING PROCEDURES ADEQUATE:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
a. PROPER ORGANISMS USED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
b. PROPER DILUTION SERIES FOLLOWED:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
c. PROPER TEST METHODS AND DURATION:	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N <input type="checkbox"/> NA <input type="checkbox"/> NE
d. RETESTS AND/OR TRE PERFORMED AS REQUIRED:	<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE

SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS							
BASED ON VISUAL OBSERVATIONS ONLY						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS:							
OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER
001	None	None	Clear	Trace	None	Clear	--
SECTION H: SLUDGE DISPOSAL							
SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS:							
1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY:						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> NE	
2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503:						<input checked="" type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input type="checkbox"/> NA <input type="checkbox"/> 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						<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS:							
1. SAMPLES OBTAINED THIS INSPECTION:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
2. TYPE OF SAMPLE: <input type="checkbox"/> GRAB:___ <input type="checkbox"/> COMPOSITE:___ METHOD:___ FREQUENCY:___							
3. SAMPLES PRESERVED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
4. FLOW PROPORTIONED SAMPLES OBTAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
7. SAMPLE SPLIT WITH PERMITTEE:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
SECTION J: STORM WATER POLLUTION PREVENTION PLAN							
STORM WATER MANAGEMENT MEETS PERMIT REQUIREMENTS						<input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> U <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
DETAILS: <u>Refer to separate Industrial Stormwater No-Exposure Inspection</u>							
1. SWPPP UPDATED AS NEEDED:___ DATE OF LAST UPDATE:___						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
2. SITE MAP INCLUDING ALL DISCHARGES AND SURFACE WATERS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
3. POLLUTION PREVENTION TEAM IDENTIFIED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
4. POLLUTION PREVENTION TEAM PROPERLY TRAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
5. LIST OF POTENTIAL POLLUTANT SOURCES:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
6. LIST OF POTENTIAL SOURCES AND PAST SPILLS AND LEAKS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
7. ALL NON-STORM WATER DISCHARGES ARE AUTHORIZED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
8. LIST OF STRUCTURAL BMPS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
9. LIST OF NON-STRUCTURAL BMPS:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
10. BMPS PROPERLY OPERATED AND MAINTAINED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	
11. INSPECTIONS CONDUCTED AS REQUIRED:						<input type="checkbox"/> Y <input type="checkbox"/> N <input checked="" type="checkbox"/> NA <input type="checkbox"/> NE	

FLOW CALCULATION SHEET

Date: **11/16/2021** Time: **13:51**

Head in Inches: **20.64** Feet: **1.72**

Type & Size of Primary Flow Measurement Device: **9 inch Parshall flume**

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

Date of last Calibration of Secondary Flow Device:

Recorded Flow at Date & Time Listed Above: **4.43 MGD** (Facility Flow Meter)

Calculated Flow at Date & Time Listed Above: **4.55 MGD**

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

% Error =	Recorded Value	-	Calculated Value	X 100
	Calculated Value			

% Error =	4.43	-	4.55	X 100
	4.43			

% Error =	-0.12	X 100
	4.43	

% Error =	-0.03	X 100
-----------	-------	-------

% Error =	3	%
-----------	----------	---

Comments:

DMR Calculation Check

Reporting Period: From 2021 09 01 To 2021 09 31
 Year Month Day Year Month Day

Parameter Checked: Total Phosphorus

	Loading Mass Mo. Avg. - lbs/day	Concentration Monthly Mo. Avg. - mg/l 7-day Avg. - mg/l	
	Reported Value:	<u>5.26</u>	<u>0.22</u>
Calculated Value:	<u>5.8</u>	<u>0.2</u>	<u>0.6</u>
Permit Value:	<u>15.8</u>	<u>0.5</u>	<u>0.8</u>

If calculated value does not equal reported value, explain:
Rounding. Monthly averages are incorporating samples from the previous month used in the 7-day average calculation (i.e. August 31, 2021, sample incorporated into September monthly average).

DMR Calculation Check

Reporting Period: From 2021 09 01 To 2021 09 31
 Year Month Day Year Month Day

Parameter Checked: NO3+NO2-N

**Loading
 Mass
 Mo. Avg. - lbs/day**

**Concentration
 Monthly
 Inst. Max. - mg/l**

Reported Value: 145.9 5.8

Calculated Value: 145.8 5.8

Permit Value: 316.9 10.0

If calculated value does not equal reported value, explain:
Monthly averages are incorporating samples from the previous month used in the 7-day average calculation (i.e. August 31, 2021, sample incorporated into September monthly average).

Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	10:44
		Photo #:	1
Description:	Equalization basin with aerators.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	10:44
		Photo #:	2
Description:	Continued from Photo #1.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:		Date:	11/16/2021
Witness:		Time:	14:17
		Photo #:	3
Description:	Influent from the City of Centerterton.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	14:18
		Photo #:	4
Description:	Influent from the Simmons Foods plant in Gentry, AR.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	10:57
		Photo #:	5
Description:	Composite sampler running during the inspection.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	10:57
		Photo #:	6
Description:	Thermometer within the composite sampler refrigeration unit showing the unit is not functioning.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	11:03
		Photo #:	7
Description:	Alum storage building showing evidence of leaks.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	11:04
		Photo #:	8
Description:	Evidence of leaks from alum storage building.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	11:08
		Photo #:	9
Description:	High level bar screen showing an abundance of solids.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	11:07
		Photo #:	10
Description:	Solids build up near the overflow		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	11:12
		Photo #:	11
Description:	Grit and solids collection area.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	12:07
		Photo #:	12
Description:	Fine mesh screen on the MBR unit.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	11:58
		Photo #:	13
Description:	Evidence of wastewater flow to unused pond.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	11:58
		Photo #:	14
Description:	Wastewater accumulation in the unused pond.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP				
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021	Time:	12:17
Witness:				Photo #:	15
Description:	Solids build up on the surface of the anaerobic zone in the MBR.				



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021	Time:	12:21
Witness:				Photo #:	16
Description:	Continued from Photo #15.				



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	13:11
		Photo #:	17
Description:	Chemicals used to clean the filter membranes.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	12:38
		Photo #:	18
Description:	Filter membrane location within the MBR.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	13:15
		Photo #:	19
Description:	Display screen showing functional UV banks.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	13:14
		Photo #:	20
Description:	UV treatment tank showing UV lights are active.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	13:25
		Photo #:	21
Description:	Passive aeration prior to discharge.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	13:27
		Photo #:	22
Description:	Outfall 001 showing discharge.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	13:27
		Photo #:	23
Description:	Continued from Photo #22.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	14:05
		Photo #:	24
Description:	Sludge press.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	13:40
		Photo #:	25
Description:	Sludge holding pond showing a lack of freeboard.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	13:45
		Photo #:	26
Description:	Location of planned pump installation.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP		
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	13:36
		Photo #:	27
Description:	Area along the north berm of the sludge holding pond showing suspected leak.		



Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021
Witness:		Time:	13:35
		Photo #:	28
Description:	Continued from Photo #27.		



Office of Water Quality Photographic Evidence Sheet

Location:	City of Decatur WWTP				
Photographer:	Garrett Grimes, District 1 Inspector	Date:	11/16/2021	Time:	13:29
Witness:				Photo #:	29
Description:	Former treatment pond showing the north berm of the sludge storage pond on the left.				



Attachment 1: Table showing effluent excursions.

DMR Data

AR0022292 - DECATUR, CITY OF (04-00052)

DMR End Date	Parameter Desc	Reported DMR Value	Limit Value	Vio %	Vio Code
02/29/2020	Nitrite + Nitrate total [as N] (INST MAX, mg/L)	10.9	10	9%	Numeric Vio
05/31/2020	Phosphorus, total [as P] (MO AVG, lb/d)	30.2	15.8	91%	Numeric Vio
05/31/2020	Phosphorus, total [as P] (MO AVG, mg/L)	1	.5	100%	Numeric Vio
05/31/2020	Phosphorus, total [as P] (7 DA AVG, mg/L)	1.7	.75	127%	Numeric Vio
07/31/2020	Nitrogen, ammonia total [as N] (MO AVG, lb/d)	75.41	50.7	49%	Numeric Vio
07/31/2020	Nitrogen, ammonia total [as N] (MO AVG, mg/L)	2.39	1.6	49%	Numeric Vio
07/31/2020	Nitrogen, ammonia total [as N] (7 DA AVG, mg/L)	9.4	3.2	194%	Numeric Vio
03/31/2021	Nitrogen, ammonia total [as N] (MO AVG, lb/d)	355.77	129.9	174%	Numeric Vio
03/31/2021	Nitrogen, ammonia total [as N] (MO AVG, mg/L)	11.46	4.1	180%	Numeric Vio
03/31/2021	Nitrogen, ammonia total [as N] (7 DA AVG, mg/L)	43.9	6.2	608%	Numeric Vio
04/30/2021	Nitrite + Nitrate total [as N] (INST MAX, mg/L)	13.2	10	32%	Numeric Vio
06/30/2021	Nitrogen, ammonia total [as N] (MO AVG, lb/d)	193.22	50.7	281%	Numeric Vio
06/30/2021	Nitrogen, ammonia total [as N] (MO AVG, mg/L)	6.7	1.6	319%	Numeric Vio
06/30/2021	Nitrogen, ammonia total [as N] (7 DA AVG, mg/L)	14.3	3.2	347%	Numeric Vio

Inspection Report: City of Decatur WWTP, AFIN: 04-00052, Permit #: AR002292

Attachment 2: Records indicating dissolved oxygen duplicates are not being obtained.

SR 4000 #/B	PH METER MANUFACTURER THERMO ELECTRON CORP.	MODEL ORION STAR A111	SN J14219	HACH LDO PROBE 40 CFB 136.3	DISSOLVED OXYGEN METHOD:0396 LDO	PRODUCT# HQ300300003		
DATE	TIME / NAME SAMPLE COLLECTED	TIME / NAME SAMPLE ANALYZED	PH VALUE/TEMP SAMPLE	PH VALUE/TEMP DUPLICATE	ABSOLUTE SAMPLE DIFFERENCE	TIME / NAME SAMPLE ANALYZED	DO VALUE SAMPLE	
Flow	2021							
2.21 MGD	8/9/2021	6:17 AM / AV	6:20 AM / AV	7.09 / 24.6	7.03 / 24.5	0.06	3:25 PM / AF	7.76
2.30 MGD	9/1/2021	6:19 AM / AV	6:21 AM / AV	7.10 / 24.9	7.08 / 24.8	0.02	2:45 PM / AF	6.57
2.60 MGD	9/2/2021	6:05 AM / AV	6:07 AM / AV	7.13 / 24.9	7.07 / 24.9	0.06	3:00 PM / MAK	6.76

SAMPLE TAKEN AT EFFLUENT PARSHALL FLUME

DO IS MEASURED AT OUTFALL 001

PH CALIBRATION RECORD					DO CALIBRATION RECORD				
DATE CALIBRATED	TIME / NAME CALIBRATED	1 BUFFER VALUE/TEMP	4 BUFFER VALUE/TEMP	10 BUFFER VALUE/TEMP	SLOPE %	DATE	TIME / NAME CALIBRATED	DO / TEMP	% SLOPE
8/31/2021	5:57 AM / AV	7.06 / 24.5	7.16 / 24.5	7.26 / 24.5	97.0%	8/31/2021	3:40 PM / AF	8.18 / 24.6	99.4%
9/1/2021	6:14 AM / AV	7.06 / 23.7	7.14 / 22.9	7.19 / 23.6	97.1%	9/1/2021	2:55 PM / AF	8.00 / 24.5	99.2%
9/2/2021	6:00 AM / AV	7.02 / 23.5	7.07 / 24.5	7.00 / 24.5	97.9%	9/2/2021	2:55 PM / AF	8.02 / 24.2	98.7%

SR 4000 #/B	PH METER MANUFACTURER THERMO ELECTRON CORP.	MODEL ORION STAR A111	SN J14219	HACH LDO PROBE 40 CFB 136.3	DISSOLVED OXYGEN METHOD:0396 LDO	PRODUCT# HQ300300003		
DATE	TIME / NAME SAMPLE COLLECTED	TIME / NAME SAMPLE ANALYZED	PH VALUE/TEMP SAMPLE	PH VALUE/TEMP DUPLICATE	ABSOLUTE SAMPLE DIFFERENCE	TIME / NAME SAMPLE ANALYZED	DO VALUE SAMPLE	
Flow	2021							
3.60 MGD	9/7/2021	6:22 AM / AV	6:24 AM / AV	6.90 / 22.9	6.84 / 22.8	0.04	2:15 PM / AF	6.95
3.70 MGD	9/8/2021	6:04 AM / AV	6:07 AM / AV	6.71 / 22.8	6.71 / 22.6	0.00	2:20 PM / AF	6.81
3.46 MGD	9/9/2021	6:14 AM / AV	6:17 AM / AV	6.97 / 22.9	6.91 / 22.8	0.03	3:05 PM / AF	6.69

SAMPLE TAKEN AT EFFLUENT PARSHALL FLUME

DO IS MEASURED AT OUTFALL 001

PH CALIBRATION RECORD					DO CALIBRATION RECORD				
DATE CALIBRATED	TIME / NAME CALIBRATED	1 BUFFER VALUE/TEMP	4 BUFFER VALUE/TEMP	10 BUFFER VALUE/TEMP	SLOPE %	DATE	TIME / NAME CALIBRATED	DO / TEMP	% SLOPE
9/7/2021	6:15 AM / AV	7.03 / 23.4	7.16 / 23.8	7.16 / 23.9	97.2	9/7/2021	1:50 PM / AF	8.22 / 23.9	99.3%
9/8/2021	6:02 AM / AV	7.01 / 22.9	7.01 / 22.9	7.03 / 22.5	97.1	9/8/2021	3:05 PM / AF	8.21 / 23.0	98.9%
9/9/2021	6:11 AM / AV	7.04 / 23.5	7.02 / 22.8	7.00 / 22.6	97.3	9/9/2021	2:30 PM / AF	8.19 / 23.1	99.7%

SR 4000 #/B	PH METER MANUFACTURER THERMO ELECTRON CORP.	MODEL ORION STAR A111	SN J14219	HACH LDO PROBE 40 CFB 136.3	DISSOLVED OXYGEN METHOD:0396 LDO	PRODUCT# HQ300300003		
DATE	TIME / NAME SAMPLE COLLECTED	TIME / NAME SAMPLE ANALYZED	PH VALUE/TEMP SAMPLE	PH VALUE/TEMP DUPLICATE	ABSOLUTE SAMPLE DIFFERENCE	TIME / NAME SAMPLE ANALYZED	DO VALUE SAMPLE	
Flow	2021							
3.10 MGD	9/14/2021	6:19 AM / AV	6:22 AM / AV	7.21 / 22.9	7.08 / 22.9	0.06	3:15 PM / AF	6.94
3.60 MGD	9/15/2021	6:17 AM / AV	6:18 AM / AV	7.13 / 22.8	7.10 / 22.8	0.03	3:10 PM / AF	6.64
3.42 MGD	9/16/2021	6:15 AM / AV	6:20 AM / AV	7.14 / 22.8	7.09 / 22.8	0.07	3:15 PM / AF	6.88

SAMPLE TAKEN AT EFFLUENT PARSHALL FLUME

DO IS MEASURED AT OUTFALL 001

PH CALIBRATION RECORD					DO CALIBRATION RECORD				
DATE CALIBRATED	TIME / NAME CALIBRATED	1 BUFFER VALUE/TEMP	4 BUFFER VALUE/TEMP	10 BUFFER VALUE/TEMP	SLOPE %	DATE	TIME / NAME CALIBRATED	DO / TEMP	% SLOPE
9/14/2021	6:14 AM / AV	7.04 / 23.5	7.04 / 23.5	7.04 / 23.5	97.3%	9/14/2021	3:00 PM / AF	8.19 / 22.6	99.4%
9/15/2021	6:15 AM / AV	7.04 / 22.5	7.04 / 22.5	7.04 / 22.5	97.9%	9/15/2021	3:05 PM / AF	8.15 / 22.9	100.1%
9/16/2021	6:16 AM / AV	7.02 / 23.2	7.06 / 23.5	7.06 / 22.9	97.3%	9/16/2021	3:10 PM / AF	8.21 / 22.9	100.3%

SR 4000 #/B	PH METER MANUFACTURER THERMO ELECTRON CORP.	MODEL ORION STAR A111	SN J14219	HACH LDO PROBE 40 CFB 136.3	DISSOLVED OXYGEN METHOD:0396 LDO	PRODUCT# HQ300300003		
DATE	TIME / NAME SAMPLE COLLECTED	TIME / NAME SAMPLE ANALYZED	PH VALUE/TEMP SAMPLE	PH VALUE/TEMP DUPLICATE	ABSOLUTE SAMPLE DIFFERENCE	TIME / NAME SAMPLE ANALYZED	DO VALUE SAMPLE	
Flow	2021							
2.6 MGD	9/21/2021	6:46 AM / AV	6:49 AM / AV	6.90 / 22.9	6.80 / 22.0	0.00	3:10 PM / AF	6.97
3.1 MGD	9/22/2021	7:45 AM / AV	7:48 AM / AV	7.05 / 21.9	7.04 / 21.9	0.01	3:20 PM / AF	7.04
3.6 MGD	9/23/2021	6:25 AM / AV	6:29 AM / AV	7.14 / 22.5	7.14 / 22.5	0.04	3:10 PM / AF	6.81

SAMPLE TAKEN AT EFFLUENT PARSHALL FLUME

DO IS MEASURED AT OUTFALL 001

PH CALIBRATION RECORD					DO CALIBRATION RECORD				
DATE CALIBRATED	TIME / NAME CALIBRATED	1 BUFFER VALUE/TEMP	4 BUFFER VALUE/TEMP	10 BUFFER VALUE/TEMP	SLOPE %	DATE	TIME / NAME CALIBRATED	DO / TEMP	% SLOPE
9/21/2021	6:43 AM / AV	7.03 / 23.5	7.03 / 23.5	7.06 / 23.5	97.3	9/21/2021	3:00 PM / AF	8.20 / 22.5	100.1%
9/22/2021	7:30 AM / AV	7.03 / 22.5	7.03 / 22.5	7.03 / 22.5	96.6%	9/22/2021	3:40 PM / AF	8.22 / 22.6	99.6%
9/23/2021	6:23 AM / AV	7.06 / 20.9	7.06 / 20.9	7.06 / 20.9	97.3%	9/23/2021	3:20 PM / AV	8.19 / 21.5	98.9%

Attachment 3: Satellite image showing overflow from the MBR to the storage pond.



From: [James Boston](#)
To: [Uniqika Marshall \(adpce.ad\)](#); ["bobtharp@decaturarkansas.us"](mailto:bobtharp@decaturarkansas.us)
Cc: ["james.boston@decaturarkansas.us"](mailto:james.boston@decaturarkansas.us); [Garrett Grimes \(adpce.ad\)](#); [Brent Walker \(adpce.ad\)](#)
Subject: RE: Inspection
Date: Friday, November 25, 2022 9:22:57 PM
Attachments: [image001.png](#)

Dear Ms. Marshall,

I have been working on the response from the inspection earlier this year. I am not going to have it done by the end of the day today. I do take this response seriously, and I want to complete it with the time and effort that it deserves.

Due to a lot of heavy maintenance at the WWTP and a very busy week next week, I would respectfully like to ask for an extension in my response time to no later than December 9, 2022. We have vendors and contractors coming in to help us with the items at the WWTP we are trying to get improved, items that I need to be involved with during this time. I do not think I will need until December 9th, but in case weather or unexpected issues come up with the work we have in front of us, I want to make sure there are no more delays,

I will work on completing the response report as soon as possible. Your patience with me is greatly appreciated. If you have any questions or concerns please let me know.

Respectfully,

James Boston
Public Works Manager
City of Decatur

From: Uniqika Marshall (adpce.ad) <Uniqika.Marshall@adeq.state.ar.us>
Sent: Monday, November 7, 2022 1:41 PM
To: 'bobtharp@decaturarkansas.us' <bobtharp@decaturarkansas.us>
Cc: 'james.boston@decaturarkansas.us' <james.boston@decaturarkansas.us>; Garrett Grimes (adpce.ad) <Garrett.Grimes@adeq.state.ar.us>; Brent Walker (adpce.ad) <Brent.L.Walker@adeq.state.ar.us>
Subject: Inspection
Importance: High

Honorable Mayor Tharp,

The previous inspection report sent to you November 1st, did not include all inspections performed for the City of Decatur WWTP. We sincerely apologize for the clerical error, but we have extended the response due date to November 25, 2022. The Office of Water Quality is sending the attached correspondence to you via email only. If you would like a physical copy, please let me know and one will be sent to you at the earliest opportunity. For assistance you may reply to this email.

Thank you,

Uniqika Marshall | Administrative Specialist III

Arkansas Energy and Environment | Office of Water Quality | Compliance Branch

5301 Northshore Drive, North Little Rock, AR 72118-5317

t: 501.682.0972 | e: uniqika.marshall@adeq.state.ar.us



ARKANSAS
ENERGY & ENVIRONMENT

From: [Brent Walker \(adpce.ad\)](mailto:Brent.Walker@adpce.ad)
To: "James Boston"; [Uniqika Marshall \(adpce.ad\)](mailto:Uniqika.Marshall@adpce.ad); ["bobtharp@decatarkansas.us"](mailto:bobtharp@decatarkansas.us)
Cc: ["james.boston@decatarkansas.us"](mailto:james.boston@decatarkansas.us); [Garrett Grimes \(adpce.ad\)](mailto:Garrett.Grimes@adpce.ad)
Subject: RE: Inspection
Date: Monday, November 28, 2022 8:10:08 AM
Attachments: [image002.png](#)
[image003.png](#)

Mr. Boston,

We will extend your response due date to December 9, 2022.

Thank you,

--

Brent L. Walker | Inspector Supervisor

**Division of Environmental Quality | Office of Water Quality
Compliance Branch | Jonesboro Area Office**

2212 Fowler Ave. Suite B. | Jonesboro, AR 72401

t: 870.935.7221 ext.-12 | c: 501.837.2068 | e: walker@adeq.state.ar.us



ARKANSAS
ENERGY & ENVIRONMENT

From: James Boston [mailto:JBoston@decatark.us]
Sent: Friday, November 25, 2022 9:25 PM
To: Uniqika Marshall (adpce.ad); 'bobtharp@decatarkansas.us'
Cc: 'james.boston@decatarkansas.us'; Garrett Grimes (adpce.ad); Brent Walker (adpce.ad)
Subject: RE: Inspection

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I will work on completing the response report as soon as possible. Your patience with me is greatly appreciated. If you have any questions or concerns please let me know.

Respectfully,

James Boston
Public Works Manager
City of Decatur

From: Uniqika Marshall (adpce.ad) <Uniqika.Marshall@adeq.state.ar.us>
Sent: Monday, November 7, 2022 1:41 PM
To: 'bobtharp@decaturarkansas.us' <bobtharp@decaturarkansas.us>
Cc: 'james.boston@decaturarkansas.us' <james.boston@decaturarkansas.us>; Garrett Grimes (adpce.ad) <Garrett.Grimes@adeq.state.ar.us>; Brent Walker (adpce.ad) <Brent.L.Walker@adeq.state.ar.us>
Subject: Inspection
Importance: High

Honorable Mayor Tharp,

The previous inspection report sent to you November 1st, did not include all inspections performed for the City of Decatur's WWTP. We sincerely apologize for the clerical error, but we have extended the response due date to November 25, 2022. The Office of Water Quality is sending the attached correspondence to you via email only. If you would like a physical copy, please let me know and one will be sent to you at the earliest opportunity. For assistance you may reply to this email.

Thank you,

Uniqika Marshall | Administrative Specialist III
Arkansas Energy and Environment | Office of Water Quality | Compliance Branch
5301 Northshore Drive, North Little Rock, AR 72118-5317
t: 501.682.0972 | e: uniqika.marshall@adeq.state.ar.us



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December 29, 2022

Robert Tharp, Mayor
City of Decatur
PO Box 247
Decatur, AR 72722

Via email to: bobtharp@decaturarkansas.us & james.boston@decaturarkansas.us

Re: City of Decatur - Response to Inspection (Benton Co)
AFIN: 04-00052 NPDES Permit No.: AR0022292

Honorable Mayor Tharp:

I have reviewed your response pertaining to my November 16, 2021 Compliance Evaluation Inspection of your POTW. Please review the following:

1. **Report Item 1.a:** No additional information required.
2. **Report Item 2.a:** Part III, Section C.3 requires that a minimum spike and duplicates must be analyzed on 10% of the samples. This is to verify the accuracy of the sample and address the possibility of human error. DO duplicates must be obtained. Please verify that this has occurred.
3. **Report Item 3.a:** Please refer to the DEQ 2009 DMR Manual, which states:

A 7-day average is an arithmetic average of the samples collected during a calendar week. In the State of Arkansas, the 7-day week ends on Saturday, and therefore, the 7-day average must be reported in the month in which the Saturday falls. For example, August 1, 2009, is a Saturday. Samples collected from July 25, 2009 through July 31, 2009, should be averaged and reported as a 7-day average during the month of August since the Saturday of the week falls in August. The samples collected during July 25 through July 31 will be included with the other July samples for the purpose of reporting the monthly average in July. Only the highest 7-day average during the month will be reported on the DMR.

Please contact the facility's Enforcement Analyst, Thomas Harrington, at (501) 682-0736 or thomas.harrington@adeq.state.ar.us for assistance. .

4. **Report Item 4.a:** Your response states that the city is in the process of obtaining a replacement sampling unit for influent BOD and TSS samples. This item will be referred to the DEQ - Office of Water Quality - Enforcement Branch for further review.
5. **Report Item 4.b:** No additional information required.
6. **Report Item 4.c:** Your response to "Report Item 5" states that the spiral screen has been replaced with an automated bar screen and that this has resulted in increased

removal of solids from the influent channel. Photographs have been attached showing the unit has been installed. This area will be further evaluated during the Federal Year 2024 Compliance Evaluation Inspection.

7. **Report Item 4.d:** No additional information required.
8. **Report Item 4.e:** Your response states that freeboard has been increased by two (2) feet since the inspection. You also stated that the pond is now aerated and fish have been added in order to reduce the amount of solids in the pond. Please state if the pump to remove wastewater has been completed. Please submit photographs of the increased freeboard.
9. **Report Item 4.f:** Your response states that the pond has a clay liner and that the facility is reducing the amount of wastewater in the pond to take pressure off the berm. Your response also states that it is the city's intent to close the pond, but funds are not currently available. This item will be forwarded to the DEQ - Office of Water Quality – Enforcement Branch for review.
10. **Report Item 5:** Your response states that the replacement of the spiral screen with the automated bar screen has increased the facility's capacity to remove screenings at the headworks and prevent downstream clogs. However, the response states that the closed, former treatment pond is still intended for use for overflows. This item will be referred to the DEQ - Office of Water Quality – Enforcement Branch for further review.
11. **Report Item 6:** Your response states that the pond is not being actively used by the facility. However, solids from previous use are still in place and being treated to reduce volume. Furthermore, this pond has not been added to the permit nor closed. This item will be referred to the DEQ - Office of Water Quality – Enforcement Branch for further review.

Any requested work/documentation should be completed/submitted as soon as possible. Please provide the information no later than **January 19, 2023**. Thank you for your attention to this matter. Should you have any questions, please contact me at (501) 837-2067 or email me at garrett.grimes@adeq.state.ar.us.

Sincerely,



Garrett Grimes
Inspector, Office of Water Quality
5301 Northshore Drive, North Little Rock, AR, 72118

From: [Garrett Grimes \(adpce.ad\)](#)
To: [Uniqika Marshall \(adpce.ad\)](#)
Cc: [Kerri McCabe \(adpce.ad\)](#)
Subject: FW: AR0022292
Date: Thursday, December 22, 2022 8:59:50 AM
Attachments: [AR0022292_Inspection Follow-up Letter_20221213.PDF](#)
[image001.png](#)
[image002.png](#)

Uniqika,

Could you please attach this response to the City of Decatur's Compliance Evaluation Inspection (PDS 123277) and Recon Inspection (123356).

Thank you,

Garrett Grimes | District 1 Inspector
Division of Environmental Quality | Office of Water Quality
5301 Northshore Drive | North Little Rock, AR 72118
c: [501.837.2067](tel:501.837.2067) | e : garrett.grimes@adeq.state.ar.us



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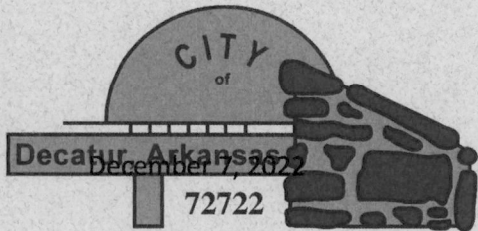
From: Deena Thuston (adpce.ad)
Sent: Tuesday, December 13, 2022 9:13 AM
To: Garrett Grimes (adpce.ad)
Subject: AR0022292

Garrett,
The attached letter came in the mail. I edited it.

Deena Thuston | Administrative Assistant III
Division of Environmental Quality | Office of Water Quality
Permits Branch
5301 Northshore Drive | North Little Rock, AR 72118
t: 501.682.0929 | e : deena.thuston@adeq.state.ar.us



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310 Maple Avenue • Box 247
Phone: (479) 752-3912

Mr. Garrett Grimes
Inspector, Office of Water Quality
5301 Northshore Drive
North Little Rock AR 72118

RE: Compliance Inspection Follow Up
AFIN: 04-00052 Permit No: AR0022292

Mr. Grimes,

Below is the follow up responses to your inspection done on 11/16/2021. Following that will be from your visit on 3/16/2022. I will do my best to respond in a satisfactory way. Some of the items are still ongoing and will be dealt with in our upcoming expansion. As of today, we have a Design Build team hired, and we are at the 30% point in our design of the next expansion. We have already sold bonds to pay for part of this upcoming expansion.

1. Item number two you ask about a duplicate of 10% of the dissolved oxygen samples. We do not do a duplicate sample like other test such as pH, we test directly in the effluent stream to get our D.O. result. This is how we have done it per instruction by a previous inspector, John Fazio. We will review the permit and see if there is a way to do this.
2. Item three is still a problem for me and how to report this, you spent time with me, and the months we talked about made since. Other months have come up and have made what is needed harder to make since of. You say the facility has been cited for this in the past. As in the past I need help with this to get it the way you want it. A cheat sheet for a year or a sit down explaining all combinations of this is needed. All labs are getting reported, but there are too many different end of the month or start of the month situations that make this difficult. Until I understand this completely, I can only do the best I can do.
3. Part III section A. We are in the process of getting a new sampler for the once-a-month BOD and TSS test we are required to do for the permit.
4. Section C. Since your visit, we have put up a new alum building. And moved the pumps to the east building where we have containment in case of any leaks. This is a big step toward minimizing leak chances in the future.
5. Section D of Part III. This talks about the grease cap in the anaerobic tanks that builds up over time. These caps are common to anaerobic tanks, and since your visit have not become worse or a problem. I have looked at a treatment process that would help keep each of the caps smaller or removed. I did address this in the scope of our pending expansion. I do not know if the funds will be available for this, but I do think it would fix the problem. But for now, the cap is not causing operational problems.

6. Section E and F. The old BIOLAC treatment pond does have a Bentonite Clay liner. And has not had anything added to it for at least 2 years or more. We have started aerating the pond to reduce solids. We have also dropped the level approximately 2 feet since your visit. We have also added fish that we have researched that will aid in solids removal, and plan on adding Tilapia next year when the water becomes warm enough (May 2023). I would like to close the ponds but funds are just not available. With the improvements we have upcoming to the treatment plant, all I can currently do is to try and reduce the solids to a point to where we can drain the ponds, and contact ADEQ and then, to properly close the ponds. Reducing the water level should take the pressure off of the pond berm into the lower pond.
7. Item 5. This item is the biggest problem we have at the Decatur Wastewater Plant. The rags or disposable wipes have been a menace to us, and that is an understatement. Like I told you back in March there was not much I could do to solve this problem without the right equipment. The manual bar screen is not an option since the wipes overwhelm the bar screen quickly. The Spiral Screen you saw that day had just been rebuilt, when it was put in the water it was inoperable after 24 hours of use, cleaning it by hand and putting it back online achieved the same result after 24 hours. The screen worked great when it was put online in 2009, but with invent of disposable wipes, has become obsolete. What I have done is replace it with an automated bar screen made by Aqualitec. It went online last week after a 7-month lead time to get manufactured. It was a direct replacement for the old technology and did not require any changes to the existing headworks. It is performing as promised so far, keeping a lot of materials out of our influent pump station and fine screens on top of the plant. This should buy us the time to get the plant expanded. Headworks and influent pump station are the most important part of the upcoming expansion. The pond off to the south will help us in case of an overflow. In my opinion it is a good asset to have, and is a much better option than going to the creek. Any future overflows to this pond will be reported.
8. Item 6. We currently do not use the pond for a sludge wasting storage pond. It would make a great pond to do that since it has lining in it. And with proper mixing and aeration would be a great place to thicken and reduce the volume that we need to haul. However what funding we have, will only allow for the treatment upgrade items in the upcoming expansion project. In the mean time we will not add sludge to the pond, keep the volume down and remediate the pond with ADEQ if its use changes, or when funds are available, close out the pond.

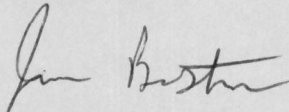
The response for the March 16, 2022 visit are listed below...

Items 1 and 2 dealt with the problems we have had with the "disposable wipes" and "rags". We really felt like getting the Westec screen rebuilt and put back on line, before your visit in March would have served us until our expansion next year. We were wrong, the screen clogged after being put back to new condition, in 24 hours. (Page 7 pics of your report) Since the manual bar screen is not an option, we have had no choice or answer to the problem except to let the fine screens catch the material, until we installed a new screen last week. This screen is much better equipped to handle these products. Without a machine that handles these products we had no alternative but to let theme pass on through our influent lift station up into our fine screens, these screens made by JWC really struggle with these large stringy products. Our pumps have struggled just as bad trying to pass them as will. So, two things have been done since your visit that will make a huge difference until the expansion.

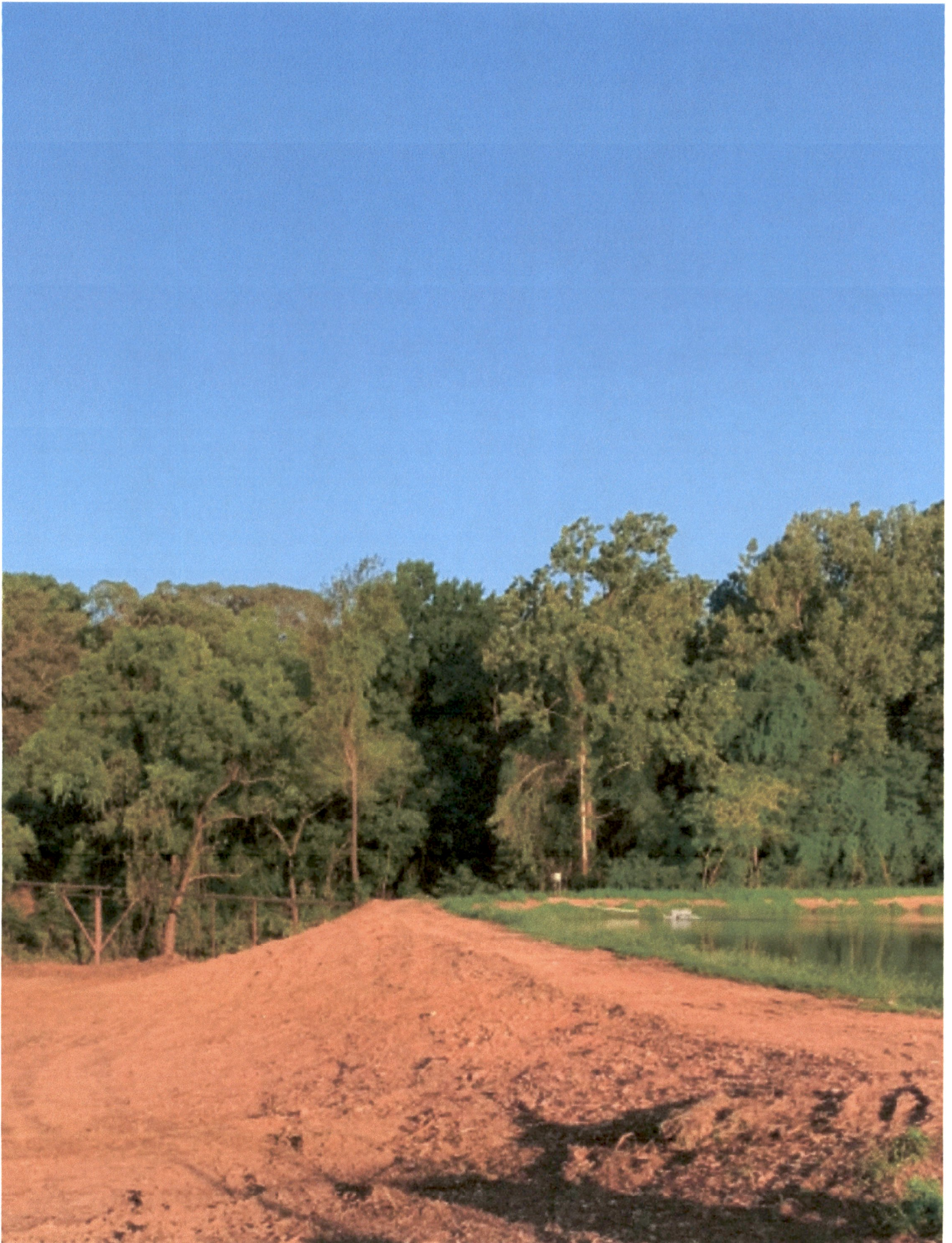
1. We have added a device to our influent pump station made by a company called Deragger. What it does is monitor the run current of the lift station pumps. Once you establish the normal run amp load, we set the Deragger approximately 2 amps above and below the normal run amps. When it reaches the higher or lower amp setting, it automatically stops the pump, reverses it, spins off wipes, and puts it back on line. This is making a huge difference. We hope to put this device on all of our lift stations as soon as possible. Picture of controller attached.
2. The other big item is we have replaced our Westec screen from your photo on page 7 of your report, with a Aqualitec brand screen, that is better equipped to catch wipes. So far it is working fantastic. I have attached a photo of the replacement screen, that replaced the Westec screen from your photo.
3. Item 3 dealt with the equalization pond that we still use on a daily basis. We did have a lot of vegetation that was grown up in a fence on the south side of the pond. Time and attention in other places had led it to be overgrown with vegetation in the fence, and pond bank. We have now cleaned this up and done work on the pond bank or berm. I have attached a photo of what it looks like now. We have been in the process of taking bids to replace the security fence along this pond, we should have a contractor to replace the fence next week. We are aerating the pond and adding bacteria to the pond from time to time to keep it healthy. Once the expansion occurs it should only be used for rainfall events or when the plant needs to be taken off line for a maintenance event. The aerator you saw the day you were there that was off was due to it being in shallow water, that end of the pond is not as deep.

Although we have had issues on the influent side to our plant, we are gaining ground on those issues. Our effluent to the creek has been excellent for quite some time now. We do feel like we can put some of the highest quality effluent to the creek of any plant in the state, we are just overcoming problems many others are having. Long wait times on parts, wipes or rags, and some times getting contractors to do some of the work we cannot do internally. If you have any question about this report, please let me know.

Respectfully,



James Boston
Public Works Manager
City of Decatur



Decatur Equalization Pond



Influent Deragger

Sent from my iPhone

James Boston

From: James Boston <james.boston@decaturarkansas.us>
Sent: Thursday, December 8, 2022 2:14 PM
To: James Boston



Decatur Aqualitec Screen

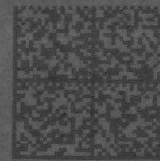
James Boston

From: James Boston <james.boston@decaturarkansas.us>
Sent: Thursday, December 8, 2022 2:18 PM
To: James Boston

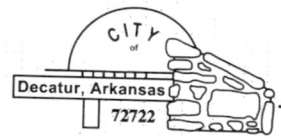


Decatur Aqualitec Screen In Service

Sent from my iPhone



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02 1P
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310 MAPLE AVENUE
P.O. BOX 247

Office Of Water Quality Compliance Branch
5301 Northshore Drive
North LITTLE ROCK, AR 72118