

ADEQ

ARKANSAS
Department of Environmental Quality

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October 16, 2000

The Honorable John Ballentine
Mayor of Alma
804 Fayetteville Avenue, Suite A
Alma, AR 72921

Re: CSN No.: 17-0059; NPDES Permit No.: AR0021466

Dear Mayor Ballentine:

On October 4, 2000, I performed a routine compliance inspection of the Alma Wastewater Treatment Plant in accordance with the provisions of the federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. This inspection revealed the following violations:

1. On chlorine residual analysis, all required information is not being recorded. Specifically, the time of sampling, the individual performing the sampling, a reference to the methodology used for analysis, the time of analysis, and the name of the individual performing the analysis.
2. On chlorine residual analysis performed at the treatment plant, standards, duplicates, and spikes are not being analyzed as required.
3. The name and address of the contract lab used for analysis is not being recorded on the discharge monitoring reports as required.
4. The auto sampler is not iced down during collection of the composite samples as required.

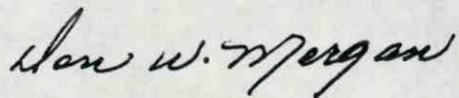
The above items require your immediate attention. Please submit a written response to these findings to the NPDES Enforcement Section of this Department when the violations have been corrected. This response should contain documentation describing the course of action taken to correct the items noted. This corrective action should be completed as soon as possible, and the written response is due by November 15, 2000.

NPDES COMPLIANCE FILES
NPDES # 21466 *depon*
____ DMR'S *coded*
____ NCR
____ CORRESPONDENCE
____ CRAS

Page 2 - Alma POTW Inspection

If I can be any assistance, please contact me at 501-927-3257,
Ext. 13.

Sincerely,

A handwritten signature in cursive script that reads "Don W. Morgan".

Don W. Morgan
District Field Inspector
Water Division

DW
cc: NPDES Branch



NPDES Compliance Inspection Report

Form Approved
OMB No. 2040-0003
Approval Expires 7-31-85

Section A: National Data System Coding

Transaction Code			NPDES								yr/mo/day				Inspec. Type		Inspector		Fac Type										
N	2	5	3	A	R	0	0	2	1	4	6	6	11	12	0	0	1	0	0	4	17	18	C	19	S	20	1		
Remarks																													
C	S	N		1	7	-	0	0	5	9		M	A	J	O	R		M	U		9	2	-	5	0	0			
Inspection Work Days						Facility Evaluation Rating						BI		QA		Reserved													
67						70	2					71	N	72	N	73		74	75										80

Section B: Facility Data

Name and Location of Facility Inspected (For industrial users discharging to POTW, also include POTW name and NPDES permit number)		Entry Time /Date 10:15 AM 10/4/00	Permit Effective Date 9/1/97
City of Alma POTW Orrick St off Airport St. on the East side of Alma. Alma, AR		Exit Time/Date 4:00 PM 10/4/00	Permit Expiration Date 8/31/2002
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Kevin Beaumont/Public Works Director/(501) 632-2254 / 501-632-5136 Tony Maxwell/Wastewater Operator/(501) 632-2267/ No Fax Jay Cristello/Operations Supervisor/(501) 632-2267/ No Fax		Other Facility Data	
Name, Address of Responsible Official/Title/Phone and Fax Number John Ballentine/Mayor/501-632-4110/501-632-5136 804 Fayetteville Avenue, Suite A Alma, AR 72921		Contacted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Section C: Areas Evaluated During Inspection

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

S	Permit	S	Flow Measurement	S	Operations & Maintenance	U	Sampling
U	Records/Reports	U	Self-Monitoring Program	S	Sludge Handling/Disposal	N	Pollution Prevention
S	Facility Site Review	N	Compliance Schedules	N	Pretreatment	N	Multimedia
M	Effluent/Receiving Waters	U	Laboratory	N	Storm Water		Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

Discharge monitoring reports for June, July, and August 2000, and related data for August 2000, were reviewed. No excursions of permit limits were noted.

Construction is being conducted at the POTW under Construction Permit # 21466C. The permit is for removing the dike between Lagoon 1 & 2 and installation of new baffle curtains and aeration equipment.

Name(s) and Signature(s) of Inspector(s) Don W. Morgan	Agency/Office/Telephone/Fax ADEQ/Springdale/(501) 927-3257, Ext 13/501-927-3261	Date 10/12/00
Signature of Management QA Reviewer	Agency/Office/Phone and Fax Numbers	Date

SECTION A - PERMIT VERIFICATIONPERMIT SATISFACTORILY ADDRESSES OBSERVATIONS
DETAILS: S M U NA (FURTHER EXPLANATION ATTACHED No)

1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE

 Y N NA

2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES

 Y N NA

3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT

 Y N NA

4. ALL DISCHARGES ARE PERMITTED

 Y N NA**SECTION B - RECORDKEEPING AND REPORTING EVALUATION**RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT.
DETAILS: S M U NA (FURTHER EXPLANATION ATTACHED Yes)

1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRs.

 Y N NA

2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE.

 S M U NA

a) DATES, TIME(S) AND LOCATION(S) OF SAMPLING

(Chlorine Residual)

 Y N NA

b) NAME OF INDIVIDUAL PERFORMING SAMPLING

(Chlorine Residual)

 Y N NA

c) ANALYTICAL METHODS AND TECHNIQUES.

(Chlorine Residual)

 Y N NA

d) RESULTS OF ANALYSES AND CALIBRATIONS.

(Chlorine Residual)

 Y N NA

e) DATES AND TIMES OF ANALYSES.

(Chlorine Residual)

 Y N NA

f) NAME OF PERSON(S) PERFORMING ANALYSES.

(Chlorine Residual)

 Y N NA

3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE.

 S M U NA

4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR.

 S M U NA

5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA.

 Y N NA**SECTION C - OPERATIONS AND MAINTENANCE**TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED.
DETAILS: S M U NA (FURTHER EXPLANATION ATTACHED Yes)

1. TREATMENT UNITS PROPERLY OPERATED.

 S M U NA

2. TREATMENT UNITS PROPERLY MAINTAINED.

 S M U NA

3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED.

(RETENTION)

 S M U NA

4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE.

 S M U NA

5. ALL NEEDED TREATMENT UNITS IN SERVICE.

 S M U NA

6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED.

 S M U NA

7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED.

 S M U NA

8. OPERATION AND MAINTENANCE MANUAL AVAILABLE.

 Y N NA

STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED.

 Y N NA

PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED.

 Y N NA

SECTION C - OPERATIONS AND MAINTENANCE (CONT'D)

9. HAVE BYPASSES/OVERFLOWS OCCURRED AT THE PLANT OR IN THE COLLECTION SYSTEM IN THE LAST YEAR? Y N NA
 IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED? Y N NA
 HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS? Y N NA
10. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT? Y N NA
 IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT? Y N NA

SECTION D - SAMPLING

PERMITTEE SELF-MONITORING MEETS PERMIT REQUIREMENTS. S M U NA (FURTHER EXPLANATION ATTACHED Yes).
 DETAILS:

1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT. Y N NA
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES. Y N NA
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT. Y N NA
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT. Y N NA
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT. Y N NA
6. SAMPLE COLLECTION PROCEDURES ADEQUATE Y N NA
- a) SAMPLES REFRIGERATED DURING COMPOSITING. Y N NA
- b) PROPER PRESERVATION TECHNIQUES USED. Y N NA
- c) CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136.3. Y N NA
7. IF MONITORING AND ANALYSES ARE PERFORMED MORE OFTEN THAN REQUIRED BY PERMIT, ARE THE RESULTS REPORTED IN PERMITTEE'S SELF-MONITORING REPORT? (NONE PERFORMED MORE OFTEN) Y N NA

SECTION E - FLOW MEASUREMENT

PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS. S M U NA (FURTHER EXPLANATION ATTACHED No)
 DETAILS:

1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED. Y N NA
 TYPE OF DEVICE 3 Ft. Rectangular Weir with End contractions
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED. Y N NA
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED. Y N NA
4. CALIBRATION FREQUENCY ADEQUATE. (DATE OF LAST CALIBRATION 1/15/00) Y N NA
 RECORDS MAINTAINED OF CALIBRATION PROCEDURES. Y N NA
 CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE. Y N NA
5. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE. Y N NA
6. HEAD MEASURED AT PROPER LOCATION. Y N NA
7. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES. Y N NA

SECTION F - LABORATORY

PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS. S M U NA (FURTHER EXPLANATION ATTACHED Yes)
 DETAILS:

1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(b) FOR SLUDGES) Y N NA

SECTION F - LABORATORY (CONT'D)2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED Y N NA3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT. S M U NA4. QUALITY CONTROL PROCEDURES ADEQUATE. (Chlorine Residual) S M U NA5. DUPLICATE SAMPLES ARE ANALYZED. 0 % OF THE TIME. (0% on Chlorine Residual) 100% on all other analyses. Y N NA6. SPIKED SAMPLES ARE ANALYZED. 0 % OF THE TIME. (Chlorine Residual) Y N NA7. COMMERCIAL LABORATORY USED. Y N NALAB NAME Data TestingLAB ADDRESS 3434 Country Club, Fort Smith, AR 72903PARAMETERS PERFORMED BOD, TSS, Fecal Coliform**SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS.** S M U NA (FURTHER EXPLANATION ATTACHED Yes).

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	None	None	Moderate	None	None	Light Green	

RECEIVING WATER OBSERVATIONS Not Observed**SECTION H - SLUDGE DISPOSAL**SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS. S M U NA (FURTHER EXPLANATION ATTACHED No).
DETAILS:1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY. S M U NA2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503. (No sludge has been removed from lagoons) S M U NA3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: N/A (e.g., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE)**SECTION I - SAMPLING INSPECTION PROCEDURES** (FURTHER EXPLANATION ATTACHED No).1. SAMPLES OBTAINED THIS INSPECTION. Y N NA

2. TYPE OF SAMPLE OBTAINED

GRAB (Fecal Coliform) COMPOSITE SAMPLE METHOD FREQUENCY

3. SAMPLES PRESERVED. Y N NA4. FLOW PROPORTIONED SAMPLES OBTAINED. Y N NA5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE. Y N NA6. SAMPLE REPRESENTATIVE OF VOLUME AND MATURE OF DISCHARGE. Y N NA7. SAMPLE SPLIT WITH PERMITTEE. Y N NA8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED. Y N NA9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT. Y N NA

DMR Calculation Check

Reporting Period: From 2000 August 1 To 2000 August 31
Year Month Day Year Month Day

Parameter Checked: BOD

	<u>Quantity</u>		
	<u>Min- Mg/L</u>	<u>Avg-Mg/L</u>	<u>7 Day Avg Max-Mg/l</u>
Reported Value:	N/A	11.93	15.00
Calculated Value:	N/A	11.9	15.0
Permit Value:	N/A	30	45

If calculated value does not equal reported value, explain:

O.K.

Flow Calculation Sheet

Field Data: Date 10/4/00 Time 1015 hrs.

Head 0.221 Feet

Type & Size of Flow Monitoring Device: Rectangular Weir with End Contractions/3 Foot

Name & Model of Flow Monitoring Device : Milltronics Model OCM-3

Monitoring Device Flow at date & time listed above: 0.670 MGD

Reference for Flow Calculations; Isco Open Channel Flow Measurement Handbook, 5th Edition

Formula: $CFS = 3.330 (3.0 - 0.2H) H^{1.5}$

Calculations: Head = 0.221 Feet Recorded Flow = 0.670 Feet

Calculated Flow: From page 203, Table 10-5, the flow for 0.22 feet of head = 0.6564 MGD calculated flow

$$\% \text{ error} = \frac{\text{recorded value} - \text{calculated value}}{\text{calculated value}} (100)$$

$$\% \text{ error} = \frac{0.670 \text{ MGD} - 0.6564 \text{ MGD}}{0.6564 \text{ MGD}} (100)$$

$$\% \text{ error} = 2.07 \%$$

OK

NPDES Compliance Inspection Report
Further Explanation

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Section B Part N/A

Detail 2(a-f), other

2, a-f) On chlorine residual analysis, required information is not being recorded. Specifically, the time of sampling, the individual performing the sampling, a reference to the methodology used for analysis, calibration records, time of analysis, and the name of the individual performing the analysis.

other) The name and address of the contract lab used for analysis is not being recorded on the discharge monitoring reports.

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Section C Part N/A

Detail other

Two (one aerated lagoon and one storage lagoon) of the five treatment/storage lagoons are out of service due to construction. Construction permit #21466C.

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Section D Part N/A

Detail 6a, b

6a, b) The sample is not being iced down in the auto sampler during collection of the composite sample.

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Section F Part N/A

Detail 4, 5, 6

4, 5, 6) Standards, duplicates, and spikes are not being analyzed on chlorine residual analysis performed at the POTW.

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Further Explanation

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Section G Part N/A

Detail All

The effluent was light green with a substantial amount of solids. This is probably due to the aeration basin being out of service due to work being conducted two of the lagoons, the aeration lagoon and one of the storage lagoons.