EPA

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

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Washington, D.C. 20460

NPDES Compliance Inspection Report

Section A: National Data System Coding

1	Transaction Code	2	NPDES	11	12	yr/mo/day	17	18	Inspec. Type	19	Inspector	20	Fac Type
	N	5	AR0021466			070411			C		S		1

Remarks: AFIN 17-00059 CRAWFORD

67	Inspection Work Days	69	70	Facility Evaluation Rating	71	BI	72	QA	73	74	75	Reserved	80
				2		N		N					

Section B: Facility Data

Name and Location of Facility Inspected *(For industrial users discharging to POTW, also include POTW name and NPDES permit number)*
City of Alma, POTW
2500 Orrick Road
Alma, AR 72921

Entry Time /Date: 1250 / 04-11-07

Exit Time/Date: 1600 / 04-11-07

Permit Effective Date: November 1, 2002

Permit Expiration Date: October 31, 2007

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)
Tony Maxwell / Chief Operator /479-632-2267 /cell / 479-285-0370

Name, Address of Responsible Official/Title/Phone and Fax Number
Mark Yardley / Public Works Director / 479-632-2254 / 479-632-5136
811 Fayetteville Ave.
Alma, AR 72921

Contacted: Yes [ ] No [X]

Other Facility Data

Outfall 001-
35˚26'43.23" N
94˚09'33.69" W

Section C: Areas Evaluated During Inspection
(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

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

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

Section C.2- At time of inspection, I observed four blowers in the initial cell that were not in operation. This was also noted in the operator's maintenance log. Operator stated this has been an on-going issue since installing the blowers.

Section D.6.- The facility is currently not collecting a grab sample at the sample location when monitoring for pH. They drop the pH meter below the weir and monitor during flow. It appears that this procedure does not meet the definition of a "grab sample" as stated in the permit.

Section F.3- The facility operator is not recording the pH values and temperature when performing calibration on the pH meter.

Section B- After reviewing October-December 2006 DMR's, the contract lab's name is not indicted.

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone/Fax	Date
Jeff Tyler	**ADEQ / Fort Smith / 479-452-4822 Ext.11**	**April 19, 2007**
Signature of Reviewer	**Agency/Office/Phone and Fax Numbers**	**Date**

	PERMIT NO. **AR0021466**

SECTION A - PERMIT VERIFICATION

PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS ■ S ☐ M ☐ U ☐ NA (FURTHER EXPLANATION ATTACHED (No)
DETAILS:

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. ☐ S ■ M ☐U ☐ NA (FURTHER EXPLANATION ATTACHED (No)
DETAILS: **Contract lab's name is not indicated on DMR's from October-December 2006.**

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	■ Y ☐ N ☐ NA
b) NAME OF INDIVIDUAL PERFORMING SAMPLING	■ Y ☐ N ☐ N
c) ANALYTICAL METHODS AND TECHNIQUES.	■ Y ☐ N ☐ NA
d) RESULTS OF ANALYSES AND CALIBRATIONS.	■ Y ☐ N ☐ NA
e) DATES AND TIMES OF ANALYSES.	■ Y ☐ N ☐ NA
f) NAME OF PERSON(S) PERFORMING ANALYSES.	■ 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. ☐ S ☐ M ■ U ☐ NA (FURTHER EXPLANATION ATTACHED (No)
DETAILS: **During inspection it was noted that four blowers in the initial cell were not in operation.**

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 ponds)**	■ 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. **(1-Class III and 1-Class I)**	■ 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

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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 SAMPLING MEETS PERMIT REQUIREMENTS. ☐S ☐ M ■ U ☐ NA (FURTHER EXPLANATION ATTACHED (No).
DETAILS: **Facility is not collecting a grab sample when monitoring for pH. They check pH insitu, below the weir.**

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 ■ 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? ■ 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- rectangular weir 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 (02-10-07) ■ Y ☐ N ☐ NA
RECORDS MAINTAINED OF CALIBRATION PROCEDURES. ■ Y ☐ N ☐ NA
CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE. (1 per month) ■ 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 No)
DETAILS**: Facility operator not recording pH values and temperature at time of calibration.**

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

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SECTION F - LABORATORY (CONT'D)

2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED ☐ Y ☐ N ■ NA

3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT. ☐ S ■ M ☐ U ☐ NA

4. QUALITY CONTROL PROCEDURES ADEQUATE. ■ S ☐M ☐ U ☐ NA

5. DUPLICATE SAMPLES ARE ANALYZED. 10 % OF THE TIME. ■ Y ☐ N ☐ NA

6. SPIKED SAMPLES ARE ANALYZED. 10 % OF THE TIME. ■ Y ☐ N ☐ NA

7. COMMERCIAL LABORATORY USED. ■ Y ☐ N ☐ NA

LAB NAME **Data Testing** **American Interplex**
LAB ADDRESS **3434 Country Club Fort Smith AR 72903** **8600 Kanis Rd Little Rock, AR 72204-2322**
PARAMETERS PERFORMED **TSS, CBOD, Fecal Col** **Biomonitoring**

SECTION G - EFFLUENT/RECEIVING WATERS OBSERVATIONS. ■ S ☐ M ☐ U ☐ NA (FURTHER EXPLANATION ATTACHED No).

Based on visual observations only.

OUTFALL NO.	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOAT SOL.	COLOR	OTHER
001	None	None	Light	Trace	Light	Very light brown	

Comments: **Receiving waters observed at AR River appeared satisfactory.**

SECTION H - SLUDGE DISPOSAL

SLUDGE DISPOSAL MEETS PERMIT REQUIREMENTS. ■ S ☐ M ☐ U ☐ NA (FURTHER EXPLANATION ATTACHED (No)
DETAILS: **Lagoon system, no sludge has been removed.**

1. SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY. ■ S ☐ M ☐ U ☐ NA

2. SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503. ☐S ☐ M ☐ U ■ NA

3. FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: NA (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 NA COMPOSITE SAMPLE NA METHOD NA FREQUENCY

3. SAMPLES PRESERVED. ☐ Y ☐ N ■ NA

4. FLOW PROPORTIONED SAMPLES OBTAINED. ☐ Y ☐ N ■ NA

5. SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE. ☐ Y ☐ N ■ NA

6. SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE. ☐ Y ☐ N ■ NA

7. SAMPLE SPLIT WITH PERMITTEE. ☐ Y ☐ N ■ NA

8. CHAIN-OF-CUSTODY PROCEDURES EMPLOYED. ☐ Y ☐ N ■ NA

9. SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT. ☐ Y ☐ N ■ NA

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04-19-07
Attachment # 1

FLOW CALCULATION SHEET

Field Data: Date: April 11, 2007 Time: 1400

Head in feet = .31 ft

Type & Size of Primary Flow Measurement Device _____**3' Rectangular Weir with end contractions**____

Name & Model of Secondary Flow Measurement Device: **Millitronics OCM 3**

Recorded Flow at date & time listed above**:** **1.088 mgd**

Flows are calculated from flow charts taken from the ISCO Open Channel Flow Measurement Handbook 5th Edition see Table # 10-5

.31ft = 1.091 mgd

$$\% \text{ error} = \frac{\textit{recorded value - calculated value}}{\textit{calculated value}} \times 100$$

$$\% \text{ error} = \frac{1.088-1.091}{1.091} \times 100$$

% error = -0.003 x 100

% error = -0.3

AR0021466
04-19-07
Attachment # 2

DMR Calculation Check

Reporting Period: From December 01, 2006 - December 31, 2006

Parameter Checked: TSS

	Loading Mass	Concentration Monthly	
	Monthly Avg. (lbs/ day)	Avg.-Mg/l	7- day Avg- Mg/l
Reported Value:	**71.19**	**22.92**	**31.33**
Calculated Value:	**71.19**	**22.33**	**31.33**
Permit Value:	**438**	**30**	**45**

If calculated value does not equal reported value, explain: Variance due to rounding or significant figures.

ADEQ

A R K A N S A S
Department of Environmental Quality

May 4, 2007

Mark Yardley, Public Works Director
City of Alma
811 Fayetteville Ave.
Alma, AR 72921

Re: AFIN: 17-00059 NPDES Permit No. AR0021466

Dear Mr. Yardley:

On April 11, 2007, I performed a routine permit compliance inspection of your 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. This inspection revealed the following violations:

1. At time of inspection, four blowers in the initial cell were not in operation. According to the operator, the plant has experienced on-going problems with the blowers since installation. Efforts must be made to ensure that all blowers are functioning properly within the treatment system.
2. The facility operator is not recording the pH values and temperature when performing calibration on the meter. This information is needed in order to verify the accuracy of the meter.
3. During the inspection, Discharge Monitoring Reports (October-November 2006) were reviewed. The contract lab's name was not indicated on the reports as required by the permit.
4. The facility is currently not collecting a grab sample when monitoring for pH. Current protocol requires the operator to lower the pH meter below the weir and monitoring during flow. It appears that this procedure does not meet the definition of a "grab sample" as stated in the permit.

The violations require your immediate attention. Please submit a written response to these findings to the Enforcement Branch of this Department. This response should contain documentation describing the course of action taken to correct each item noted. This corrective action should be completed as soon as possible and the written response is due by May 25, 2007.

If you have any questions regarding this inspection, please contact me at 479-452-4822 ext. 11

Sincerely,

Jeff Tyler
District Field Inspector
Water Division

cc: Enforcement Branch
Permit Branch