

March 31, 2014

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

Re: Compliance Inspections (Crawford Co) AFIN: 17-00059 NPDES Permit No.: AR0021466 ARR000321

State No-Discharge: 5068-W

Dear Mr. Yardley:

On March 25, 2014, I performed routine compliance inspections at the wastewater treatment 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:

AR0021466

- Facility currently conveys treated effluent to the Arkansas River through two separate pipes. One is a gravity line which was installed originally during plant construction. The other is a force main which was installed in 1999. These two discharge pipes are located in a wet well which is downstream of the totalizer, final treatment, and the sample location. Prior to the next permit renewal (April 2018), please contact the ADEQ Permits Branch to include this information with your permit. No further action is required at this time.
- 2. Early signs of erosion were observed along the east bank of cell 2; efforts should be taken to prevent potential damage to the integrity of the bank levee. Please provide a response to these findings.

<u>ARR000321</u>

At the time of the inspection, the facility was in compliance with the requirements for the No-Exposure Certification.

Yardley City of Alma Page 2

<u>5068-W</u>

At the time of the inspection, the facility was in compliance with the terms and conditions of the permit.

The above item for **AR0021466** requires your immediate attention. Please submit a written response to these findings to the Water Division Inspection Branch of this Department. This response should be mailed to the address at the bottom of the first page of the letter or e-mailed to <u>Water-Inspection-Report@adeq.state.ar.us</u>. 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 with all necessary documentation (i.e. photos) is due by <u>April 14, 2014.</u>

If I can be of any assistance, please contact me at (479) 424-0325 or tyler@adeq.state.ar.us.

Sincerely,

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Jeff Tyler District 4 Field Inspector Water Division

≎EPA	Form Approved OMB No. 2040-0003										
UNITED STATES ENVIRONMEN		AGENCY									
Washington, D.C. 20460 NPDES Compliance Inspection Report											
Section A: National Data System Coding											
Transaction Code NPDES 1 N 2 5 3 A R 0 0 2 1 4		12 1 marks	Yr/Mo/Day 4 0 3 2 5 17	Insj 18	pec. Type Inspector Fac. Type C 19 S 20 1						
A F I N 1 7 Inspection Work Days Facility Evaluation Rate	Reserved										
67 69 70 3	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 0905/ March 25, 2014Permit Effective Date May 1, 2013City of Alma POTW											
2500 Orrick Road Alma, AR 72921Exit Time/Date 1215 / March 25, 2014Permit Expiration Date April 30, 2018											
Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s) Other Facility Data Tony Maxwell / Chief Operator / 479-632-2267 / cell / 479-670-3003 Other Facility Data 0utfall 001 N 35*26*43.2"											
Name, Address of Responsible Official/Title/Phone and Fax Number Mark Yardley / Public Works Director / 479-632-225 811 Fayetteville Ave. Alma, AR 72921	94*09*33.6" S# 077006										
	on C: Areas Eval M = Marginal, U		uring Inspection isfactory, N = Not Evaluated)								
S Permit S Flow Measurement			erations & Maintenance	Ν	Sample Inspection Procedures						
S Records/Reports S Self-Monitoring Pr	ogram	N Slu	ıdge Handling/Disposal	Ν	SWPPP						
S Facility Site Review S Compliance Schedu	ules	N Pro	etreatment	Ν	Multimedia						
S Effluent/Receiving Waters S Laboratory			orm Water	Ν	Other:						
	-		tach additional sheets if necessary								
 Early signs of erosion were observed on the east-side of the bank on Cell 2. Facility plans to stabilize with rip-rap as money becomes available. Inspection revealed that facility utilizes two lines when conveying treated effluent to the Arkansas River. One is a gravity line; the other is a force main. These pipes are located in a wet well after final treatment; downstream of the totalizer and the sample location. The 2013 November DMR was reviewed along with chain of custody reports, facility spread sheets, and lab reports. It was noted that the monthly average and the 7-day average for BOD was exceeded. This excursion was reported to the Department. There have been no other permit limit violations since November 2013. 											
Jeff Tyler 9n H-	Agency/Office/Te ADEQ-/Ft. Smi	-	/Fax)-424-0325 / fax / 479-424-033	0	Date March 27, 2014						
	Agency/Office/Ph ADEQ / NLR / 50				Date March 31, 2014						

ADEQ Water NPDES Inspection	ADEQ	Nater NPDES Inspection	
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AFIN: 17-00059

SECTION A: PERMIT VERIFICATION	
PERMIT SATISFACTORILY ADDRESSES OBSERVATIONS	🗹 S 🗆 M 🗇 U 🗆 NA 🗆 NE
DETAILS:	
1. CORRECT NAME AND MAILING ADDRESS OF PERMITTEE:	Øy 🛛 n 🖓 na 🖓 ne
2. NOTIFICATION GIVEN TO EPA/STATE OF NEW DIFFERENT OR INCREASED DISCHARGES:	Dy Dn Øna Dne
3. NUMBER AND LOCATION OF DISCHARGE POINTS AS DESCRIBED IN PERMIT:	🗹 Y 🗆 N 🗆 NA 🖾 NE
4. ALL DISCHARGES ARE PERMITTED:	
SECTION B: RECORDKEEPING AND REPORTING EVALUATION	
RECORDS AND REPORTS MAINTAINED AS REQUIRED BY PERMIT	
DETAILS:	
1. ANALYTICAL RESULTS CONSISTENT WITH DATA REPORTED ON DMRS:	
2. SAMPLING AND ANALYSES DATA ADEQUATE AND INCLUDE:	Øs 🗆m 🗇u 🖾na 🖾ne
a. DATES AND TIME(S) OF SAMPLING:	
b. EXACT LOCATION(S) OF SAMPLING:	
c. NAME OF INDIVIDUAL PERFORMING SAMPLING:	
d. ANALYTICAL METHODS AND TECHNIQUES:	
e. RESULTS OF CALIBRATIONS:	
f. RESULTS OF ANALYSES:	
g. DATES AND TIMES OF ANALYSES:	
h. NAME OF PERSON(S) PERFORMING ANALYSES:	
3. LABORATORY EQUIPMENT CALIBRATION AND MAINTENANCE RECORDS ADEQUATE:	
4. PLANT RECORDS INCLUDE SCHEDULES, DATES OF EQUIPMENT MAINTENANCE AND REPAIR:	
5. EFFLUENT LOADINGS CALCULATED USING DAILY EFFLUENT FLOW AND DAILY ANALYTICAL DATA:	
SECTION C: OPERATIONS AND MAINTENANCE	
TREATMENT FACILITY PROPERLY OPERATED AND MAINTAINED	
DETAILS: Signs of early erosion were observed on the east side of the bank at Cell 2.	
1. TREATMENT UNITS PROPERLY OPERATED:	Øs Om Ou Ona One
2. TREATMENT UNITS PROPERLY MAINTAINED:	OS 🗹 M OU ONA ONE
3. STANDBY POWER OR OTHER EQUIVALENT PROVIDED: Equalization pond and portable generator	Øs Om Ou Ona One
4. ADEQUATE ALARM SYSTEM FOR POWER OR EQUIPMENT FAILURES AVAILABLE:	Øs 🗆m 🗇u 🖾na 🖾ne
5. ALL NEEDED TREATMENT UNITS IN SERVICE:	Øs 🗆m 🗇u 🖾na 🗇ne
6. ADEQUATE NUMBER OF QUALIFIED OPERATORS PROVIDED: 1 Class III and 1 Class I	Øs Om Ou Ona One
7. SPARE PARTS AND SUPPLIES INVENTORY MAINTAINED:	Øs Om Ou Ona One
8. OPERATION AND MAINTENANCE MANUAL AVAILABLE:	
9. STANDARD OPERATING PROCEDURES AND SCHEDULES ESTABLISHED:	
10. PROCEDURES FOR EMERGENCY TREATMENT CONTROL ESTABLISHED:	
11. HAVE BYPASSES/ <u>OVERFLOWS</u> OCCURRED AT THE PLANT OR IN THE <u>COLLECTION SYSTEM</u> IN THE LAST YEAR:	Øy 🛛 n 🖓 na 🖓 ne
12. IF SO, HAS THE REGULATORY AGENCY BEEN NOTIFIED: Monthly SSO report	Øy 🛛 n 🖓 na 🖓 ne
13. HAS CORRECTIVE ACTION BEEN TAKEN TO PREVENT ADDITIONAL BYPASSES/OVERFLOWS:	
14. HAVE ANY HYDRAULIC OVERLOADS OCCURRED AT THE TREATMENT PLANT:	
15. IF SO, DID PERMIT VIOLATIONS OCCUR AS A RESULT:	DY DN ØNA DNE

Permit #: AR0021466

SECTION D: SAMPLING	
PERMITTEE SAMPLING MEETS PERMIT REQUIREMENTS	
DETAILS:	·
1. SAMPLES TAKEN AT SITE(S) SPECIFIED IN PERMIT:	
2. LOCATIONS ADEQUATE FOR REPRESENTATIVE SAMPLES:	
3. FLOW PROPORTIONED SAMPLES OBTAINED WHEN REQUIRED BY PERMIT:	🗹 y 🗆 n 🗆 na 🗇 ne
4. SAMPLING AND ANALYSES COMPLETED ON PARAMETERS SPECIFIED IN PERMIT:	
5. SAMPLING AND ANALYSES PERFORMED AT FREQUENCY SPECIFIED IN PERMIT:	
6. SAMPLE COLLECTION PROCEDURES ADEQUATE:	
a. SAMPLES REFRIGERATED DURING COMPOSITING:	
b. PROPER PRESERVATION TECHNIQUES USED:	
c. CONTAINERS AND SAMPLE HOLDING TIMES CONFORM TO 40 CFR 136:	
7. IF MONITORING IS PERFORMED MORE OFTEN THAN REQUIRED ARE RESULTS REPORTED ON THE DMR:	
SECTION E: FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS	
DETAILS:	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED: TYPE OF DEVICE: 3' rect. Weir w/	end contr.
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED:	
4. CALIBRATION FREQUENCY ADEQUATE: Date of last calibration (July 13, 2013)	
5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:	
6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE: one per month	
7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:	
8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:	
9. HEAD MEASURED AT PROPER LOCATION:	
SECTION F: LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS	🛛 🖾 🗆 🖾 🖾 🖉
DETAILS:	
1. EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(B) FOR SLUDGES) :	
2. IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED:	
3. SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT:	
4. QUALITY CONTROL PROCEDURES ADEQUATE:	
5. DUPLICATE SAMPLES ARE ANALYZED ≥10% OF THE TIME:	
6. SPIKED SAMPLES ARE ANALYZED ≥10% OF THE TIME:	
7. COMMERCIAL LABORATORY USED:	
a. LAB NAME: Data Testing American Interplex	
b. LAB ADDRESS: 3434 Country Club Ave. Ft. Smith 8600 Kanis Road Little	Rock
c. PARAMETERS PERFORMED: TSS,BOD,FCB,TP, and NO3 +NO2 Bio-monitoring	
8. BIOMONITORING PROCEDURES ADEQUATE:	Øy On Ona One
a. PROPER ORGANISMS USED:	
b. PROPER DILUTION SERIES FOLLOWED:	
c. PROPER TEST METHODS AND DURATION:	
d. RETESTS AND/OR TRE PERFORMED AS REQUIRED:	Dy On Øna One

ADEQ Water NPDES Inspection

AFIN: 17-00059

SECTION	G: EFFLUE	NT/RECEIVIN	G WATERS	OBSERVATIO	ONS				
BASED ON	VISUAL OBS	ERVATIONS C	NLY			⊠s ⊡m			
DETAILS:	Two discharge	pipes were obs	erved at the riv	ver, a 18" diame	ter force main ar	nd a gravity li	ine		
OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER		
001	None	None	Light	Trace	Light	Light Green			
SECTION	H: SLUDGE	DISPOSAL							
	DISPOSAL ME	ETS PERMIT R		rs		⊠s ⊡m			
DETAILS:									
1. SLUDGE M	IANAGEMENT ADEQU	ATE TO MAINTAIN EF	FLUENT QUALITY:			⊠s ⊑	IM 🗆 U 🗆 NA 🗆 NE		
2. SLUDGE R	ECORDS MAINTAINE	D AS REQUIRED BY 40) CFR 503:			⊠s ⊑	Im 🗆 u 🗆 na 🗆 ne		
3. FOR LAND	APPLIED SLUDGE, T	PE OF LAND APPLIE	D TO: (E.G., FOREST,	AGRICULTURAL, PUE	BLIC CONTACT SITE):				
			-						
	I: SAMPLIN				F				
	RESULTS WITH	HIN PERMIT R	EQUIREMENT	S		□s □m	□u Øna □ne		
DETAILS:									
	OBTAINED THIS INSP]y ∅n □na □ne		
2. TYPE OF S	SAMPLE: GRAB:		IETHOD: FREQUE	NCY:					
3. SAMPLES	PRESERVED:						IY ON ØNA ONE		
4. FLOW PRO	PORTIONED SAMPLE	S OBTAINED:]y ⊡n Øna ⊡ne		
5. SAMPLE C	BTAINED FROM FACI	LITY'S SAMPLING DEV	ICE:				IY ON ØNA ONE		
6. SAMPLE R	EPRESENTATIVE OF	VOLUME AND NATUR	E OF DISCHARGE:				IY 🗆 N 🗹 NA 🗆 NE		
7. SAMPLE S	PLIT WITH PERMITTE	E:					IY ON ØNA ONE		
8. CHAIN-OF	CUSTODY PROCEDU	RES EMPLOYED:					IY ON ØNA ONE		
9. SAMPLES	COLLECTED IN ACCO	RDANCE WITH PERM	IT:]y ⊡n Øna ⊡ne		
	J: STORM W								
	ATER MANAG						□u Øna □ne		
				<u>on in July 2010;</u>	tracked under #				
	PDATED AS NEEDED:								
	INCLUDING ALL DISCH		CE WATERS:				IY ON ØNA ONE		
	N PREVENTION TEAM								
	N PREVENTION TEAM		:						
	STORM WATER DISCH	ARGES ARE AUTHOR	IZED:						
	RUCTURAL BMPS:								
	ON-STRUCTURAL BMF								
	PERLY OPERATED A								
11. INSPECTIO	ONS CONDUCTED AS	REQUIRED:					IY ON ØNA ONE		

ADEQ Water NPDES Inspection

AFIN: 17-00059

			FLOW C	ALCULA	ATION	SHEET				
Date:	03-25-14		Time: 11	54						
Head ir	n Inches:	NA	Feet:	.38						
Tioud II										
Type & Size of Primary Flow Measurement Device:										
3' Recta	3' Rectangular weir with end contractions									
			dary Flow Me	asureme	ent Dev	vice:				
Milltron	ics OCM III									
Date of	last Calib	oration of	Secondary F	-low De	vice: J	uly 13, 20	13			
			_				_	1		
Record	ed Flow a	t Date &	Time Listed	Above:	1.469	ð mgd		(Facility Flow Meter)		
Calcula	ted Flow	at Date a	& Time Listed	Above:	1.4	74 mgd				
						rement Hand	book-5 th	Edition, Table # 10-5)		
	Rec	orded V	alue - Ca	Iculated	Value					
% Erro	r =		Calculated Va		X 100					
		4 4 9 9								
% Erro	r =	1.469	1.474	1.474	-	X 100				
			1.777							
% Erro	r =	-0.005	— X 100							
		1.474								
% Erro	r =	-0.003	X 100							
% Erro	r =	-0.34	%							
Comme	ents: OK	. within	+/- 10%							

ADEQ Water NPDE	ater NPDES Inspection AFIN: 17-00059				Permit #: AR0021466					
DMR Calculation Check										
Reporting Period:	From	2013 Year	Nov Month	<u>01</u> Day	_ То	2013 Year	Nov Month	<u> </u>		
Parameter Checke	d٠	TSS		0						
i urumeter eneeke	u	100	_							
Loading Mass					Concentration Monthly					
Mo. Avg lbs/day							7-day Avg	g mg/l		
Reported Value:		114.3			16		20			
Calculated Value:		114.3			16		20			
Permit Value:		437.9			30		45			

If calculated value does not equal reported value, explain: Equal

ADEQ Water NPDES	Permit #: AR0021466									
DMR Calculation Check										
Reporting Period:	From	2013	Nov	<u>01</u>	To	2013	Nov Month	<u>30</u>		
		Year	Month	Day		Year	Month	Day		
Parameter Checked	:	BOD	_							
	Concentration Monthly									
Mass Mo. Avg lbs/day				Mo. Avg mg/l			7-day Avg mg/l			
Reported Value:		319.9		44.3			46.3			
Calculated Value:		319.9		44.3			46.3			
Permit Value:		437.9			30		45			

If calculated value does not equal reported value, explain: Equal, effluent limitation for monthly average and 7-day average was exceeded for BOD; this excursion was reported to the Department.

ADEQ Water NPDES Inspection	
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AFIN: 17-00059

		Wate	r Division NPDES Phot	ographic Ev	idence Sheet		
Location: C			V located in Crawford Co	ounty.			
Photographer:	Jeff Ty	ler		Witness:	None		
Photo # 1		6		Date:	03-25-14	Time:	1137
Description:	Erosior	n issues e	volving on east side of ba	ink at Cell 2.			
Photographer:	Jeff Ty	ler		Witness:	None		
Photo # 2		6		Date:	03-25-14	Time:	1158
Description:	Locatio	on where	flow is monitored just up	stream of rec	tangular weir.	•I	

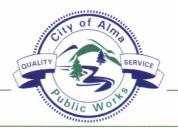
ADEQ Water NPDES Inspection

AFIN: 17-00059

		Wate	er Division NPDES Pho	tographic Ev	vidence Sheet		
Location:	Cit	ty of Alma POT	W located in Crawford C	ounty.			
Photographe	r:	Jeff Tyler		Witness:	None		
Photo #	3	Of 6		Date:	03-26-14	Time:	0856
Description:		View of the two	pipes discharging efflue	ent at the Arka	ansas River.		
Photographe		Jeff Tyler		Witness:	None		
Photo #	4	Of 6		Date:	03-26-14	Time:	0857
Description:		Gravity line (on Arkansas River	left) and the force main	(on right) bot	h discharging	treated efflu	ent at the

ADEQ Water NPDES Inspection

		Wat	er Division NPDES Phot	ographic Ev	vidence Sheet			
Location: City of Alma POTW located in Crawford County.								
Photographer:	NA			Witness:	None			
Photo # 5	Of	6		Date:	03-27-14	Time:	NA	
Description:	Aeria	view ind	icating location of flow m	onitoring an	d sample locat	ion.		
Imagery Date. 10/5/2	2013 20 1996			Gample locativ	on w/force mail		ne: Dgle earth	
Photographer:	NA			Witness:	None			
Photo # 6	Of	6		Date:	10-02-13	Time:	1230	
Description: Aerial view of POTW and the outfall at the Arkansas River (1.47 miles).								
Hamer-Ro			cation w/force main & gravity line er & Weir	Shizrp Chapel R.d				



811 Fayetteville Ave. Alma, Arkansas 72921 (479) 632-2254 Fax (479) 632-5136

April 9, 2014

Arkansas Department of Environmental Quality Water Division Inspection Branch 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

RE: Response to Compliance Inspection AFIN: 17-00059 NPDES Permit No: AR0021466

- Finding 1: The City of Alma will request inclusion of this information in the next Permit (April 2018).
- Finding 2: The City has an ongoing maintenance program that includes the addition of rip-rap along the banks of all 4 lagoons. The east bank of cell 2 is included in that program and will be completed as the process continues.

Thank you for all your support as we strive to improve the quality of water in our community.

Mark Handley

Mark Yardley Public Works Director



April 25, 2014

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

Re: Response to Inspection (Crawford Co) AFIN: 17-00059 NPDES Permit No.: AR0021466

Dear Mr. Yardley:

I have reviewed the response pertaining to my March 25, 2014 inspection conducted at the City of Alma POTW. The information provided sufficiently addresses the violation referenced in my inspection report. At this time, the Department has no further comment concerning this particular inspection. Acceptance of this response by the Department does not preclude any future enforcement action deemed necessary at this site or any other site.

If we need further information concerning this matter, we will contact you. Thank you for your attention to this matter. Should you have any questions, feel free to contact me at (479) 424-0325 or you may e-mail me at tyler@adeq.state.ar.us.

Sincerely,

Jeff Tyler District 4 Field Inspector Water Division