ADEQ

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

September 8, 2015

Thomas Myers, Wastewater Superintendent
City of Siloam Springs
400 N. Broadway
Siloam Springs, AR 72761

RE: City of Siloam Springs Pollution Control Facility Inspection
AFIN: 04-00106 Permit No.: AR0020273

Dear Mr. Myers:

On August 18-19, 2015, Alison West, District 1 Field Inspector, and I performed a Compliance Sampling Inspection of the above referenced facility in accordance with the provisions of the Federal Clean Water Act, the Arkansas Water and Air Pollution Control Act, and the regulations promulgated thereunder. A copy of the inspection report is enclosed for your records.

No violations were noted at the time of the inspection. Please refer to the attached inspection report for any comments.

If I can be of any assistance, please contact me at holden@adeq.state.ar.us or 479-267-0811 ext. 16.

Sincerely,

Matt Holden
District 1 Field Inspector
Water Division

ADEQ
ARKANSAS
Department of Environmental Quality

WATER DIVISION INSPECTION REPORT

AFIN: **04-00106** | PERMIT #: **AR0020273** | DATE: **8/18/2015**

COUNTY: **04 Benton** | PDS #: **086351** | MEDIA: **WN**

GPS LAT: **36.1134** LONG: **94.3348** LOCATION: **General Area**

FACILITY INFORMATION

NAME:
City of Siloam Springs Pollution Control Facility
LOCATION:
975 Anderson Ave.
CITY:
Siloam Springs, AR 72761

RESPONSIBLE OFFICIAL

NAME: / TITLE
Thomas Myers / Wastewater Superintendent
COMPANY:
City of Siloam Springs
MAILING ADDRESS:
400 N. Broadway
CITY, STATE, ZIP:
Siloam Springs AR 72761
PHONE & EXT: / FAX:
479-524-5623 / 479-524-4653
EMAIL:
tmyers@siloamsprings.com
CONTACTED DURING INSPECTION: **Yes**

INSPECTION INFORMATION

FACILITY TYPE: **1 - Municipal**
INSPECTOR ID#: **102078 S - State**
FACILITY EVALUATION RATING: **3 - Satisfactory**
INSPECTION TYPE: **Compliance Sampling**

DATE(S):	ENTRY TIME:	EXIT TIME:
08/18/2015	**09:28**	**10:59**
08/19/2015	**09:20**	**10:20**

PERMIT EFFECTIVE DATE: **10/1/2007**
PERMIT EXPIRATION DATE: **9/30/2012**

FAYETTEVILLE SHALE RELATED: **N**

FAYETTEVILLE SHALE VIOLATIONS: **N**

INSPECTION PARTICIPANTS

NAME/TITLE/PHONE/FAX/EMAIL/ETC.:
Matt Holden/District 1 Field Inspector/479-267-0811 ext. 16/holden@adeq.state.ar.us
Alison West/District 1 Field Inspector/479-267-0811 ext. 12/west@adeq.state.ar.us
Thomas Myers/Wastewater Superintendent/479-524-5623/tmyers@siloamsprings.com

AREA EVALUATIONS

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

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

SUMMARY OF FINDINGS

No violations were observed at the time of inspection.

GENERAL COMMENTS

On August 18-19, 2015, Alison West, District 1 Field Inspector, and I conducted a compliance sampling inspection at the above referenced facility. Thomas Myers, Wastewater Superintendent, and Jack Harriston, Operator, gave us a tour of the facility on August 18, 2015. On August 19, 2015, Alison and I returned to the facility and collected effluent samples from Outfall 001 for the compliance sampling inspection. Samples were transported to the ADEQ laboratory in North Little Rock for analysis. Sample analysis results indicated all parameters were within permit limits (Attachment 1). Photographs available upon request.

INSPECTOR'S SIGNATURE: Matthew Holden **Matt Holden** DATE: **9/2/2015**

SUPERVISOR'S SIGNATURE: **Jason Bolenbaugh** DATE: **9/4/2015**

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

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

SECTION E: FLOW MEASUREMENT	
PERMITTEE FLOW MEASUREMENT MEETS PERMIT REQUIREMENTS	☑S ☐M ☐U ☐NA ☐NE
DETAILS:	
1. PRIMARY FLOW MEASUREMENT DEVICE PROPERLY INSTALLED AND MAINTAINED:__ TYPE OF DEVICE: **5ft Rectangular Weir without end contractions**	☑Y ☐N ☐NA ☐NE
2. FLOW MEASURED AT EACH OUTFALL AS REQUIRED:	☑Y ☐N ☐NA ☐NE
3. SECONDARY INSTRUMENTS (TOTALIZERS, RECORDERS, ETC.) PROPERLY OPERATED AND MAINTAINED:	☑Y ☐N ☐NA ☐NE
4. CALIBRATION FREQUENCY ADEQUATE:	☑Y ☐N ☐NA ☐NE
5. RECORDS MAINTAINED OF CALIBRATION PROCEDURES:	☑Y ☐N ☐NA ☐NE
6. CALIBRATION CHECKS DONE TO ASSURE CONTINUED COMPLIANCE:	☑Y ☐N ☐NA ☐NE
7. FLOW ENTERING DEVICE WELL DISTRIBUTED ACROSS THE CHANNEL AND FREE OF TURBULENCE:	☑Y ☐N ☐NA ☐NE
8. FLOW MEASUREMENT EQUIPMENT ADEQUATE TO HANDLE EXPECTED RANGE OF FLOW RATES:	☑Y ☐N ☐NA ☐NE
9. HEAD MEASURED AT PROPER LOCATION:	☑Y ☐N ☐NA ☐NE

SECTION F: LABORATORY	
PERMITTEE LABORATORY PROCEDURES MEET PERMIT REQUIREMENTS	☑S ☐M ☐U ☐NA ☐NE
DETAILS:	
EPA APPROVED ANALYTICAL PROCEDURES USED (40 CFR 136.3 FOR LIQUIDS, 503.8(B) FOR SLUDGES) :	☑Y ☐N ☐NA ☐NE
IF ALTERNATIVE ANALYTICAL PROCEDURES ARE USED, PROPER APPROVAL HAS BEEN OBTAINED:	☐Y ☐N ☑NA ☐NE
SATISFACTORY CALIBRATION AND MAINTENANCE OF INSTRUMENTS AND EQUIPMENT:	☑Y ☐N ☐NA ☐NE
QUALITY CONTROL PROCEDURES ADEQUATE:	☑Y ☐N ☐NA ☐NE
DUPLICATE SAMPLES ARE ANALYZED ≥10% OF THE TIME:	☑Y ☐N ☐NA ☐NE
SPIKED SAMPLES ARE ANALYZED ≥10% OF THE TIME:	☐Y ☐N ☑NA ☐NE
COMMERCIAL LABORATORY USED:	☑Y ☐N ☐NA ☐NE
LAB NAME: **Environmental Testing Group**	
LAB ADDRESS: **1702 E. Central, Suite 10, Bentonville, AR 72712**	
PARAMETERS PERFORMED: **Ammonia, CBOD, Nitrate Nitrogen, Nitrate/Nitrite as N, Nitrite as N, Total Phosphorus, TSS, Total Recoverable Copper**	
BIOMONITORING PROCEDURES ADEQUATE:	☑Y ☐N ☐NA ☐NE
PROPER ORGANISMS USED:	☑Y ☐N ☐NA ☐NE
PROPER DILUTION SERIES FOLLOWED:	☑Y ☐N ☐NA ☐NE
PROPER TEST METHODS AND DURATION:	☑Y ☐N ☐NA ☐NE
RETESTS AND/OR TRE PERFORMED AS REQUIRED:	☑Y ☐N ☐NA ☐NE

SECTION G: EFFLUENT/RECEIVING WATERS OBSERVATIONS

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

DETAILS:

OUTFALL #:	OIL SHEEN	GREASE	TURBIDITY	VISIBLE FOAM	FLOATING SOLIDS	COLOR	OTHER
001	No	No	No	No	No	Clear	--

SECTION H: SLUDGE DISPOSAL

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

DETAILS: **Wastemanagement Towntitown Landfill**

SLUDGE MANAGEMENT ADEQUATE TO MAINTAIN EFFLUENT QUALITY: ☑S ☐M ☐U ☐NA ☐NE

SLUDGE RECORDS MAINTAINED AS REQUIRED BY 40 CFR 503: ☐S ☐M ☐U ☐NA ☑NE

FOR LAND APPLIED SLUDGE, TYPE OF LAND APPLIED TO: (E.G., FOREST, AGRICULTURAL, PUBLIC CONTACT SITE): **NA**

SECTION I: SAMPLING INSPECTION PROCEDURES

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

DETAILS:

SAMPLES OBTAINED THIS INSPECTION: **Fecal Coliform, CBOD, TSS, Ammonia Nitrogen, DO, pH, Total Phosphorus, Total Recoverable Copper, Total Nitrate Nitrogen** ☑Y ☐N ☐NA ☐NE

TYPE OF SAMPLE: ☑GRAB:__ ☑COMPOSITE:__ METHOD:__ FREQUENCY:

SAMPLES PRESERVED: ☑Y ☐N ☐NA ☐NE

FLOW PROPORTIONED SAMPLES OBTAINED: ☑Y ☐N ☐NA ☐NE

SAMPLE OBTAINED FROM FACILITY'S SAMPLING DEVICE: ☑Y ☐N ☐NA ☐NE

SAMPLE REPRESENTATIVE OF VOLUME AND NATURE OF DISCHARGE: ☑Y ☐N ☐NA ☐NE

SAMPLE SPLIT WITH PERMITTEE: ☑Y ☐N ☐NA ☐NE

CHAIN-OF-CUSTODY PROCEDURES EMPLOYED: ☑Y ☐N ☐NA ☐NE

SAMPLES COLLECTED IN ACCORDANCE WITH PERMIT: ☑Y ☐N ☐NA ☐NE

SECTION J: STORM WATER POLLUTION PREVENTION PLAN

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

DETAILS: **No Exposure Permit #ARR000276**

SWPPP UPDATED AS NEEDED:__ DATE OF LAST UPDATE: ☐Y ☐N ☐NA ☑NE

SITE MAP INCLUDING ALL DISCHARGES AND SURFACE WATERS: ☐Y ☐N ☐NA ☑NE

POLLUTION PREVENTION TEAM IDENTIFIED: ☐Y ☐N ☐NA ☑NE

POLLUTION PREVENTION TEAM PROPERLY TRAINED: ☐Y ☐N ☐NA ☑NE

LIST OF POTENTIAL POLLUTANT SOURCES: ☐Y ☐N ☐NA ☑NE

LIST OF POTENTIAL SOURCES AND PAST SPILLS AND LEAKS: ☐Y ☐N ☐NA ☑NE

ALL NON-STORM WATER DISCHARGES ARE AUTHORIZED: ☐Y ☐N ☐NA ☑NE

LIST OF STRUCTURAL BMPS: ☐Y ☐N ☐NA ☑NE

LIST OF NON-STRUCTURAL BMPS: ☐Y ☐N ☐NA ☑NE

BMPS PROPERLY OPERATED AND MAINTAINED: ☐Y ☐N ☐NA ☑NE

INSPECTIONS CONDUCTED AS REQUIRED: ☐Y ☐N ☐NA ☑NE

FLOW CALCULATION SHEET

Date: **08/18/2015** Time: **09:55**

Head in Inches: **5.25** Feet: **0.4375**

Type & Size of Primary Flow Measurement Device: 5 foot rectangular weir without end contractions

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

Date of last Calibration of Secondary Flow Device: 01/28/2015

Recorded Flow at Date & Time Listed Above: **2357 GPM** (Facility Flow Meter)

Calculated Flow at Date & Time Listed Above: **2181 GPM**

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

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

$$\% \text{ Error} = \frac{2357 - 2181}{2181} \times 100$$

$$\% \text{ Error} = \frac{176}{2181} \times 100$$

$$\% \text{ Error} = 0.0806 \times 100$$

% Error = **8.06** %

Comments:

DMR Calculation Check

Reporting Period:	**From**	**2015** (Year)	**06** (Month)	**01** (Day)	**To**	**2015** (Year)	**06** (Month)	**30** (Day)

Parameter Checked: **TSS**

	Loading Mass	**Concentration Monthly**	
	Mo. Avg. - lbs/day	**Mo. Avg. - mg/l**	**7-day Avg. - mg/l**
Reported Value:	**67.2**	**2.3**	**3.2**
Calculated Value:	**67.2**	**2.3**	**3.2**
Permit Value:	**734**	**20**	**30**

If calculated value does not equal reported value, explain:

DMR Calculation Check

Reporting Period:	**From**	**2015**	**04**	**01**	**To**	**2015**	**04**	**30**
		Year	**Month**	**Day**		**Year**	**Month**	**Day**

Parameter Checked: **Total Phosphorus**

	Loading Mass Mo. Avg. - lbs/day	**Concentration Monthly Mo. Avg. - mg/l**	**Concentration Monthly 7-day Avg. - mg/l**
Reported Value:	**2.56**	**0.11**	**0.16**
Calculated Value:	**2.56**	**0.11**	**0.16**
Permit Value:	**37**	**1.0**	**1.5**

If calculated value does not equal reported value, explain:

Attachment 1: Sample Analysis Results

5301 Northshore Drive
North Little Rock, AR 72118
Telephone: 501-682-0744

Client Report For:	City of Siloam Springs pollution Control Facility CSI 2015 2244
Attention:	
Client Address:	
	,
Report Date:	September 02, 2015
LAB ID:	AR15AUG19-06
Comment:	

Approved By:_____ Date:September 02, 2015

Client:	CSI	**Client Sample ID:**	Siloam Springs - Outfall
Lab ID:	2015-2244	**Collection Date:**	8/19/2015 2:52:00 PM
		Matrix:	Water

Analyses

Fecal Coliforms ***SM 9222 D*** ***Batch: 15082108*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Fecal Coliforms	110	4	4		cfu/100ml
Analyzed By	Melanie Treat				
Analysis Date/Time	08/19/2015 15:30				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client:	CSI	**Client Sample ID:**	Siloam Springs - Outfall
Lab ID:	2015-2244	**Collection Date:**	8/19/2015 2:52:00 PM
		Matrix:	Water

Analyses

Ammonia as Nitrogen — *SM 4500-NH3 H (20th)* — *Batch: 15082112* — *Run: 1*

	Result	Reporting Limit	MDL	Qual	Unit
Ammonia as N	2.30	0.15	0.03		mg/L
Dilution Factor	5				
Analyzed By	Chad Carrington				
Analysis Date/Time	8/19/2015 3:22:39 PM				

Carb. Biochemical Oxygen Demand (CBOD) 5 Day — *SM 5210-B* — *Batch: 15082807* — *Run: 1*

	Result	Reporting Limit	MDL	Qual	Unit
Carbonaceous BOD	7.03	0.2	0.2		mg/L
Analyzed By	Robert Graddy				
Analysis Date/Time	8-19-2015 1600				

Nitrate and Nitrite — *SM 4500-NO3 I (20th)* — *Batch: 15082114* — *Run: 1*

	Result	Reporting Limit	MDL	Qual	Unit
Nitrate/Nitrite as N	1.42	0.03	0.03		mg/L
Dilution Factor	1				
Analyzed By	Chad Carrington				
Analysis Date/Time	8/19/2015 3:50:45 PM				

Total Dissolved Solids — *EPA 160.1* — *Batch: 15082008* — *Run: 1*

	Result	Reporting Limit	MDL	Qual	Unit
Total Dissolved Solids	662	5.0	5.0		mg/L
Analyzed By	Kathryn Hattenhauer				
Analysis Date/Time	8/19/2015 9:00				

Total Suspended Solids — *EPA 160.2* — *Batch: 15082007* — *Run: 1*

	Result	Reporting Limit	MDL	Qual	Unit

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Total Suspended Solids	4.0	1.0	1.0	mg/L
Analyzed By	Kathryn Hattenhauer			
Analysis Date/Time	8/19/2015 7:30			

Total Phosphorus ***SM 4500-P J (20th)*** ***Batch: 15082115*** ***Run: 1***

	Result	Reporting Limit	MDL	Qual	Unit
Phosphorus-total	0.138	0.04	0.02		mg/L
Dilution Factor	2				
Analyzed By	Chad Carrington				
Analysis Date/Time	8/20/2015 9:28:02 AM				

Arkansas Department of Environmental Quality
5301 Northshore Drive
North Little Rock, AR 72118

Laboratory Contact: Jeff Ruehr
Ruehr@adeq.state.ar.us
501-682-0955

Client:	CSI	**Client Sample ID:**	Siloam Springs - Outfall
Lab ID:	2015-2244	**Collection Date:**	8/19/2015 2:52:00 PM
		Matrix:	Water

Analyses

Total Metals by EPA 200.8 *EPA 200.8* *Batch: 15082506* *Run: 1*

	Result	Reporting Limit	MDL	Qual	Unit
Aluminum	131	20	20		ug/L
Antimony	<10	10	5		ug/L
Arsenic	<1	1	0.5		ug/L
Barium	22.2	10	2.0		ug/L
Beryllium	<0.5	0.5	0.1		ug/L
Boron	110	25	5.0		ug/L
Cadmium	<1	1	0.3		ug/L
Calcium	57.1	0.04	0.04		mg/L
Chromium	<1	1	0.3		ug/L
Cobalt	<1	1	0.5		ug/L
Copper	1.77	1	0.5		ug/L
Iron	95.0	20	10.0		ug/L
Lead	<1	1	0.1		ug/L
Magnesium	4.67	0.1	0.1		mg/L
Manganese	49.6	1	0.2		ug/L
Nickel	<2.5	2.5	0.5		ug/L
Potassium	32.6	1	0.05		mg/L
Selenium	<2	2	0.5		ug/L
Silver	<5	5	1.0		ug/L
Sodium	112	0.04	0.02		mg/L
Thallium	<2.5	2.5	0.05		ug/L
Vanadium	<2.5	2.5	1.0		ug/L
Zinc	17.8	3	2.0		ug/L
Dilution Factor	1				
Analyzed By	Robert Graddy				
Analysis Date/Time	Aug 24 2015 9:52PM				
Prep By					
Prep Date/Time					