

Sanitary Sewer Overflow Monthly Report

Facility Name: City of Alma

Permit Number: AR0021466

Reporting Period (Month/Year): Feb 2013

No Sanitary Sewer Overflows This Monitoring Period

Summary Report Code Descriptions				
Cause(s) of SSO		SSO Impact	Action(s) Taken	Ultimate Discharge Location
CO-Construction	D-Debris	NEAH-No Evidence of Adverse Health or Environmental Impact	WO-Work Order	CR-Creek/Stream/River (please specify)
E-Equipment Failure	G-Grease	OEHC-Observed or Evidence of Human Contact	EC-Environmental Cleanup	DI-Ditch
HC-Hydro Clean	LF-Line Failure/Break	EFK-Evidence of Fish Kill	HC-Hydro Cleaned	DR-Drop Inlet
R-Rainfall	RG-Roots & Grease		HR-Hand Rodded	GR-Ground Surface
RO-Roots	V-Vandalism		EN-Referred to Engineering	PA-Paved Area
			PN-Public Notification	CB-Contained in Building

Location	Manhole #	Start Date of SSO	End Date of SSO	Estimated Volume (in gallons)	Cause of SSO	Environmental Impact	Action (s) Taken to Address SSO	Ultimate Discharge Location
Lift Station behind 37 East Collum Lane	N/A (Mainline)	02/23/2013	02/24/2013	9144	E	NEAH	WO	CR

Signature of Cognizant or Ranking Official

Mark Handley

Date

03-07-13

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Appendix: B

Daphnia pulex Survival Data

Permitee:	Data Testing, Inc.	Critical Dilution:	13%
NPDES No:	AR0021466 AFIN#17-00059	Sample Source:	Effluent
Contact:	Ms. Dolores Shelby	Species Age:	<24 hours
Test Type:	48-hour renewal definitive toxicity test	Analysts:	280, 298, 304, 307
Dilution Water:	Receiving Water		
Test Initiated:	February 7, 2013 at 1200		
Test Terminated:	February 9, 2013 at 1310		

PERCENT SURVIVAL

24 hours	Receiving	5%	7%	10%	13%	17%
Rep. A	100	100	100	100	100	100
Rep. B	100	100	100	100	100	100
Rep. C	100	100	100	100	100	100
Rep. D	100	100	100	100	100	100
Rep. E	100	100	100	100	100	100

48 hours	Receiving	5%	7%	10%	13%	17%
Rep. A	100	100	100	100	100	100
Rep. B	100	100	100	100	100	100
Rep. C	100	100	100	100	100	100
Rep. D	100	100	100	100	100	100
Rep. E	100	100	100	100	100	100

Dunnett's Procedure or Steel's Many-One Rank Test as appropriate. Is the mean survival at 48 hours significantly different (p=0.05) than the control survival for the % effluent corresponding to:

a) Low Flow 13%: Yes No
 b) 1/2 Low Flow (NA): Yes No

If you answered No to 1a) enter [0], otherwise enter [1]: 0

Enter response to item 2 on the DMR Form, parameter #TEM3D.

NOEL *Daphnia pulex* lethality #TOM3D: 17%

Coefficient of variation for *Daphnia pulex* survival #TQM3D: 0

Enter percent effluent corresponding to LC-50 below.

LC-50 effluent: >17%

Method of LC-50 calculation: NA

Reference Toxicity Test Performed on January 16, 2013 at 1430 to January 18, 2013 at 1510:

LC-50 effluent: 1.94 g/l

Warning Limits: 1.22 to 2.44 g/l

Appendix: B

Daphnia pulex Chemical Parameters Chart

Permitee:	Data Testing, Inc.	Critical Dilution:	13%
NPDES No:	AR0021466 AFIN#17-00059	Sample Source:	Effluent
Contact:	Ms. Dolores Shelby	Species Age:	<24 hours
Test Type:	48-hour renewal definitive toxicity test	Analysts:	280, 298, 304, 307
Dilution Water:	Receiving Water		
Test Initiated:	February 7, 2013 at 1200		
Test Terminated:	February 9, 2013 at 1310		

Day 1		Receiving	5%	7%	10%	13%	17%
DO, mg/l	Initial	8.7	8.4	8.4	8.5	8.6	8.5
DO, mg/l	Final	8.6	7.8	8.4	8.2	7.9	7.8
pH, su	Initial	7.4	7.5	7.5	7.5	7.5	7.6
pH, su	Final	7.5	7.7	7.7	7.7	7.6	7.6
Alkalinity, mg/l		30	NA	NA	NA	48	NA
Hardness, mg/l		30	NA	NA	NA	33	NA
Conductivity, umho/cm		120	140	140	160	170	190
Residual Chlorine, mg/l		<0.05	NA	NA	NA	<0.05	NA

Day 2		Receiving	5%	7%	10%	13%	17%
DO, mg/l	Initial	9.0	8.5	8.5	7.9	7.5	8.3
DO, mg/l	Final	8.1	8.1	8.1	8.0	8.0	8.1
pH, su	Initial	7.4	7.7	7.7	7.7	7.7	7.7
pH, su	Final	7.8	7.9	7.9	7.9	7.9	7.9
Alkalinity, mg/l		27	NA	NA	NA	39	NA
Hardness, mg/l		32	NA	NA	NA	33	NA
Conductivity, umho/cm		150	150	160	170	180	200
Residual Chlorine, mg/l		<0.05	NA	NA	NA	0.050	NA

Appendix: B

Pimephales promelas Survival Data

Permitee:	Data Testing, Inc.	Critical Dilution:	13%
NPDES No:	AR0021466 AFIN#17-00059	Sample Source:	Effluent
Contact:	Ms. Dolores Shelby	Species Age:	7 days
Test Type:	48-hour renewal definitive toxicity test	Analysts:	280, 298, 304, 307
Dilution Water:	Receiving Water		
Test Initiated:	February 7, 2013 at 1250		
Test Terminated:	February 9, 2013 at 1130		

PERCENT SURVIVAL

24 hours	Receiving	5%	7%	10%	13%	17%
Rep. A	100	100	100	100	100	100
Rep. B	100	100	100	100	100	100
Rep. C	100	100	100	100	100	100
Rep. D	100	100	100	100	100	100
Rep. E	100	100	100	100	100	100

48 hours	Receiving	5%	7%	10%	13%	17%
Rep. A	100	100	100	100	100	100
Rep. B	100	100	100	100	100	100
Rep. C	100	100	100	100	100	100
Rep. D	100	100	100	100	100	100
Rep. E	100	100	100	100	100	100

Dunnett's Procedure or Steel's Many-One Rank Test as appropriate. Is the mean survival at 48 hours significantly different ($p=0.05$) than the control survival for the % effluent corresponding to:

- | | | | | |
|-----------------------|-------|-----|---------------|----|
| a) Low Flow 13%: | _____ | Yes | _____ X _____ | No |
| b) 1/2 Low Flow (NA): | _____ | Yes | _____ | No |

If you answered No to 1a) enter [0], otherwise enter [1]: 0

Enter response to item 2 on the DMR Form, parameter #TEM6C.

NOEL *Pimephales promelas* lethality #TOM6C: 17%

Coefficient of variation for *Pimephales promelas* survival #TQM6C: 0

Enter percent effluent corresponding to LC-50 below.

LC-50 effluent: >17%

Method of LC-50 calculation: NA

Reference Toxicity Test Performed on January 16, 2013 at 1300 to January 18, 2013 at 1450:

LC-50 effluent: 6.67 g/l

Warning Limits: 6.28 to 7.81 g/l

Appendix: B

Pimephales promelas Chemical Parameters Chart

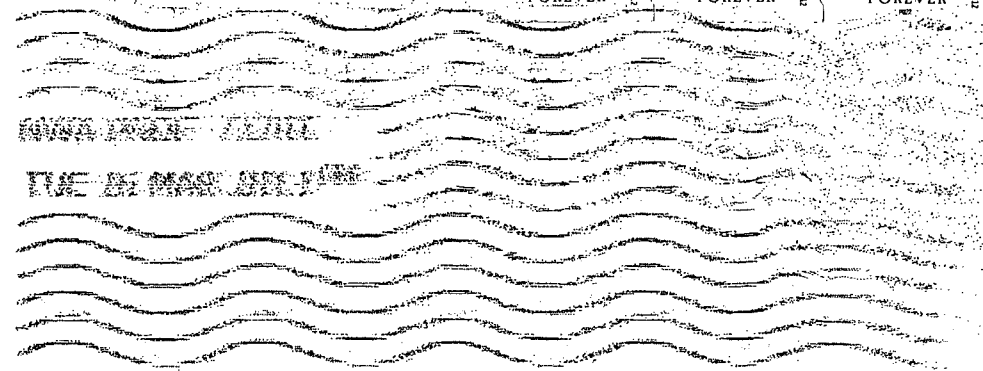
Permitee:	Data Testing, Inc.	Critical Dilution:	13%
NPDES No:	AR0021466 AFIN#17-00059	Sample Source:	Effluent
Contact:	Ms. Dolores Shelby	Species Age:	7 days
Test Type:	48-hour renewal definitive toxicity test	Analysts:	280, 298, 304, 307
Dilution Water:	Receiving Water		
Test Initiated:	February 7, 2013 at 1250		
Test Terminated:	February 9, 2013 at 1130		

Day 1		Receiving	5%	7%	10%	13%	17%
DO, mg/l	Initial	8.7	8.4	8.4	8.5	8.6	8.5
DO, mg/l	Final	7.3	7.7	8.0	7.8	7.5	7.5
pH, su	Initial	7.4	7.5	7.5	7.5	7.5	7.6
pH, su	Final	7.6	7.7	7.7	7.8	7.8	7.8
Alkalinity, mg/l		30	NA	NA	NA	48	NA
Hardness, mg/l		30	NA	NA	NA	33	NA
Conductivity, umho/cm		120	140	140	160	170	190
Residual Chlorine, mg/l		<0.05	NA	NA	NA	<0.05	NA

Day 2		Receiving	5%	7%	10%	13%	17%
DO, mg/l	Initial	9.0	8.5	8.5	7.9	7.5	8.3
DO, mg/l	Final	7.9	8.1	7.8	7.9	7.7	7.8
pH, su	Initial	7.4	7.7	7.7	7.7	7.7	7.7
pH, su	Final	7.6	7.6	7.6	7.7	7.7	7.7
Alkalinity, mg/l		27	NA	NA	NA	39	NA
Hardness, mg/l		32	NA	NA	NA	33	NA
Conductivity, umho/cm		150	150	160	170	180	200
Residual Chlorine, mg/l		<0.05	NA	NA	NA	0.050	NA



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