



Springdale Water Utilities

526 Oak Avenue P.O. Box 769 Springdale, Arkansas 72765-0769 (479) 751-5751

Enforcement Branch
Arkansas Dept. of Environmental Quality
5301 Northshore Dr.
North Little Rock, AR 72118-5317

**RE: NPDES Permit No. AR0022063
AFIN #72-00003
Springdale, AR**

April 14, 2015

Dear Sir or Madame:

Enclosed please find the results of first quarter Ceriodaphnia dubia and Pimephales promelas analyses, and first quarter Table III analyses conducted on Springdale Water Utilities' wastewater treatment facility influent, effluent, and sludge (belt press influent) for 2015. These analyses are required by our NPDES Permit.

Please feel free to call Ms. Jennifer Enos at (479)756-3657 if you have any questions concerning these analyses.

Sincerely yours,

Heath A. Ward
Executive Director

JEE/jee

Enclosures

Cc: Jennifer Enos, SWU
Mary Barnett, ADEQ
File

Springdale Water Utilities

Springdale, Arkansas

System Overflow Report for March 2015

This report submitted to Arkansas Department of Environmental Quality in compliance with Permit Number AR0022063 AFIN: 72-00003

Date	Time	Duration	Address	Est. Vol.	Cause of overflow	Remedial Action	Environmental Impact	Discharge Location
03/07/2015	5:15 pm-7:00 pm	1 hrs. 45 min.	412 Morrison Place Springdale, AR	500 gal	Grease	Jet-Vac, Hydro Cleaned	None	Two manholes- into street.
03/08/2015	10:30 am-12:30 pm	14 hrs.	4006 Miller Drive Springdale, AR	75 gal	Debris	Jet-Vac	None	Overflow soaked into ground.
03/20/2015	1:48 pm-2:45	57 min.	6932 Zan Loop Springdale, AR	300 gal	Grease	Jet-Vac	None	Overflow soaked into ground and into retention basin.

"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 all 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."

Signature

Heath G. Ward

Date

4-14-15

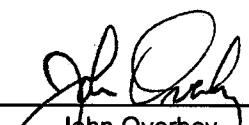


Springdale Water Utilities
ATTN: Mr. Brad Stewart
Post Office Box 769
Springdale, AR 72762

This report contains the analytical results and supporting information for samples submitted on March 10, 2015. Attached please find a copy of the Chain of Custody and/or other documents received. Note that any remaining sample will be discarded two weeks from the original report date unless other arrangements are made.

This report is intended for the sole use of the client listed above. Assessment of the data requires access to the entire document.

This report has been reviewed by the Laboratory Director or a qualified designee.



John Overbey
Laboratory Director

This document has been distributed to the following:

PDF cc: Springdale Water Utilities
ATTN: Mr. Brad Stewart
bstewart@springdalewater.com



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SAMPLE INFORMATION

Project Description:

Four (4) water and one (1) sludge sample(s) received on March 10, 2015
Table III
P.O. No. 0018442 00

Receipt Details:

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.

Each sample container was checked for proper labeling, including date and time sampled. Sample containers were reviewed for proper type, adequate volume, integrity, temperature, preservation, and holding times. Any exceptions are noted below:

Sample Identification:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
188285-1	Influent	03-Mar-2015 0800	
188285-2	Influent	03-Mar-2015 1400	
188285-3	Effluent	06-Mar-2015 2359	
188285-4	Effluent	06-Mar-2015 0600	
188285-5	Belt Press Influent	06-Mar-2015 0900	

Case Narrative:

Analysis of soils/sludges are reported on a dry-weight basis unless otherwise specified.

References:

- "Methods for Chemical Analysis of Water and Wastes", EPA/600/4-79-020 (Mar 1983) with updates and supplements EPA/600/5-91-010 (Jun 1991), EPA/600/R-92-129 (Aug 1992) and EPA/600/R-93-100 (Aug 1993).
- "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846)", Third Edition.
- "Standard Methods for the Examination of Water and Wastewaters", (SM).
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).



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ANALYTICAL RESULTS

AIC No. 188285-1

Sample Identification: Influent 03-Mar-2015 0800

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	220	5	ug/l	
Prep: 11-Mar-2015 0805 by 308	Analyzed: 11-Mar-2015 1545 by 308		Batch: W51172	
Total Cyanide SM 4500-CN C,E 1999	< 10	10	ug/l	
Prep: 11-Mar-2015 1024 by 308	Analyzed: 11-Mar-2015 1622 by 308		Batch: W51178	

AIC No. 188285-2

Sample Identification: Influent 03-Mar-2015 1400

Analyte	Result	RL	Units	Qualifier
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Arsenic EPA 200.8	1.5	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Copper EPA 200.8	27	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Lead EPA 200.8	0.79	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Nickel EPA 200.8	6.9	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Zinc EPA 200.8	95	20	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1205 by 235		Batch: S38553	Dil: 0.5

AIC No. 188285-3

Sample Identification: Effluent 06-Mar-2015 2359

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	32	5	ug/l	
Prep: 11-Mar-2015 0805 by 308	Analyzed: 11-Mar-2015 1545 by 308		Batch: W51172	

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ANALYTICAL RESULTS

AIC No. 188285-3 (Continued)
Sample Identification: Effluent 06-Mar-2015 2359

Analyte	Result	RL	Units	Qualifier
Total Cyanide SM 4500-CN C,E 1999	< 10	10	ug/l	
Prep: 11-Mar-2015 1024 by 308	Analyzed: 11-Mar-2015 1615 by 308		Batch: W51178	

AIC No. 188285-4
Sample Identification: Effluent 06-Mar-2015 0600

Analyte	Result	RL	Units	Qualifier
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Arsenic EPA 200.8	0.67	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Copper EPA 200.8	7.4	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Lead EPA 200.8	< 0.5	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Nickel EPA 200.8	3.1	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5
Total Recoverable Zinc EPA 200.8	36	20	ug/l	
Prep: 25-Mar-2015 0844 by 313	Analyzed: 25-Mar-2015 1210 by 235		Batch: S38553	Dil: 0.5

AIC No. 188285-5
Sample Identification: Belt Press Influent 06-Mar-2015 0900

Analyte	Result	RL	Units	Qualifier
Total Cyanide EPA 9010C, 9014	< 3	3	mg/Kg	
Prep: 16-Mar-2015 0807 by 308	Analyzed: 16-Mar-2015 1533 by 308		Batch: W51225	
Total Recoverable Phenolics EPA 9065	94	20	mg/Kg	
Prep: 16-Mar-2015 0807 by 308	Analyzed: 16-Mar-2015 1300 by 308		Batch: W51224	

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ANALYTICAL RESULTS

AIC No. 188285-5 (Continued)

Sample Identification: Belt Press Influent 06-Mar-2015 0900

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Solids SM 2540 G 1997	3.2 Prep: 13-Mar-2015 1547 by 308	0.01 Analyzed: 16-Mar-2015 1004 by 308	wt % Batch: W51219	
Antimony EPA 3051A, 6010C	< 3 Prep: 13-Mar-2015 1339 by 313	3 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Arsenic EPA 3051A, 6010C	< 5 Prep: 13-Mar-2015 1339 by 313	5 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Beryllium EPA 3051A, 6010C	< 0.03 Prep: 13-Mar-2015 1339 by 313	0.03 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Cadmium EPA 3051A, 6010C	< 0.4 Prep: 13-Mar-2015 1339 by 313	0.4 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Chromium EPA 3051A, 6010C	13 Prep: 13-Mar-2015 1339 by 313	0.7 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Copper EPA 3051A, 6010C	82 Prep: 13-Mar-2015 1339 by 313	0.6 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Lead EPA 3051A, 6010C	< 4 Prep: 13-Mar-2015 1339 by 313	4 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Molybdenum EPA 3051A, 6010C	5.3 Prep: 13-Mar-2015 1339 by 313	0.8 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Nickel EPA 3051A, 6010C	15 Prep: 13-Mar-2015 1339 by 313	1 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Selenium EPA 3051A, 6010C	< 7 Prep: 13-Mar-2015 1339 by 313	7 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Silver EPA 3051A, 6010C	1.5 Prep: 13-Mar-2015 1339 by 313	0.7 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Thallium EPA 3051A, 6010C	< 4 Prep: 13-Mar-2015 1339 by 313	4 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Zinc EPA 3051A, 6010C	240 Prep: 13-Mar-2015 1339 by 313	0.2 Analyzed: 16-Mar-2015 1404 by 315	mg/Kg Batch: S38478	
Mercury EPA 7471B	0.17 Prep: 13-Mar-2015 1057 by 301	0.1 Analyzed: 16-Mar-2015 0937 by 301	mg/Kg Batch: S38474	



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD		Preparation Date	Analysis Date	Dil	Qual
			RPD	Limit				
Total Solids	188239-1	76 wt %			13Mar15 1547 by 308	16Mar15 1004 by 308		
	Batch: W51219 Duplicate	83 wt %	8.63	10.0	13Mar15 1547 by 308	16Mar15 1004 by 308		

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	90.8	85.0-115			W51172	11Mar15 0805 by 308	11Mar15 1545 by 308		
Total Cyanide	0.1 mg/l	90.3	85.0-115			W51178	11Mar15 1025 by 308	11Mar15 1613 by 308		
Total Recoverable Antimony	0.05 mg/l	104	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Arsenic	0.05 mg/l	91.1	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Beryllium	0.05 mg/l	96.0	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Cadmium	0.05 mg/l	102	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Chromium	0.05 mg/l	93.5	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Copper	0.05 mg/l	95.8	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Lead	0.05 mg/l	104	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Molybdenum	0.05 mg/l	100	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Nickel	0.05 mg/l	96.4	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Selenium	0.05 mg/l	86.2	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Silver	0.02 mg/l	103	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Thallium	0.05 mg/l	100	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Recoverable Zinc	0.05 mg/l	95.5	85.0-115			S38553	25Mar15 0845 by 313	25Mar15 1137 by 235		
Total Cyanide	0.500 mg/Kg	98.5	85.0-115			W51225	16Mar15 0807 by 308	16Mar15 1531 by 308		
Total Recoverable Phenolics	10.0 mg/Kg	101	85.0-115			W51224	16Mar15 0807 by 308	16Mar15 1300 by 308		
Antimony	500 mg/Kg	99.2	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Arsenic	500 mg/Kg	98.7	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Beryllium ✓	50.0 mg/Kg	99.3	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Cadmium	500 mg/Kg	96.9	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Chromium	50.0 mg/Kg	97.5	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Copper	50.0 mg/Kg	96.0	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Lead	500 mg/Kg	96.2	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Molybdenum	50.0 mg/Kg	97.4	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Nickel	50.0 mg/Kg	97.0	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Selenium	500 mg/Kg	95.6	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Silver	10.0 mg/Kg	98.1	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Thallium	500 mg/Kg	97.3	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Zinc	50.0 mg/Kg	107	85.0-115			S38478	13Mar15 1340 by 313	16Mar15 1339 by 315		
Mercury	1.25 mg/Kg	94.0	85.0-115			S38474	13Mar15 1057 by 301	16Mar15 0920 by 301		



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	188288-1	0.1 mg/l	82.2	80.0-120	W51172	11Mar15 0805 by 308	11Mar15 1545 by 308		
	188288-1	0.1 mg/l	86.5	80.0-120	W51172	11Mar15 0805 by 308	11Mar15 1545 by 308		
	Relative Percent Difference:		3.12	10.0	W51172				
Total Cyanide	188285-3	0.1 mg/l	89.8	75.0-125	W51178	11Mar15 1025 by 308	11Mar15 1617 by 308		
	188285-3	0.1 mg/l	88.9	75.0-125	W51178	11Mar15 1025 by 308	11Mar15 1618 by 308		
	Relative Percent Difference:		1.01	20.0	W51178				
Total Recoverable Antimony	188381-2	0.05 mg/l	104	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	106	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		2.00	20.0	S38553				
Total Recoverable Arsenic	188381-2	0.05 mg/l	91.8	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	89.8	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		2.13	20.0	S38553				
Total Recoverable Beryllium	188381-2	0.05 mg/l	108	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	96.4	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		11.4	20.0	S38553				
Total Recoverable Cadmium	188381-2	0.05 mg/l	103	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	101	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		2.17	20.0	S38553				
Total Recoverable Chromium	188381-2	0.05 mg/l	92.4	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	91.9	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		0.607	20.0	S38553				
Total Recoverable Copper	188381-2	0.05 mg/l	94.7	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	95.0	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		0.273	20.0	S38553				
Total Recoverable Lead	188381-2	0.05 mg/l	104	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	104	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		0.397	20.0	S38553				
Total Recoverable Molybdenum	188381-2	0.05 mg/l	101	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	99.0	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		1.90	20.0	S38553				
Total Recoverable Nickel	188381-2	0.05 mg/l	95.6	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	95.2	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		0.476	20.0	S38553				
Total Recoverable Selenium	188381-2	0.05 mg/l	86.4	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	85.7	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		0.807	20.0	S38553				
Total Recoverable Silver	188381-2	0.02 mg/l	103	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.02 mg/l	103	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		0.392	20.0	S38553				
Total Recoverable Thallium	188381-2	0.05 mg/l	99.7	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	99.7	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		0.00462	20.0	S38553				
Total Recoverable Zinc	188381-2	0.05 mg/l	92.8	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1143 by 235		
	188381-2	0.05 mg/l	92.9	75.0-125	S38553	25Mar15 0845 by 313	25Mar15 1149 by 235		
	Relative Percent Difference:		0.132	20.0	S38553				
Total Cyanide	188285-5	0.934 mg/Kg	84.5	75.0-125	W51225	16Mar15 0807 by 308	16Mar15 1535 by 308		
	188285-5	0.942 mg/Kg	87.4	75.0-125	W51225	16Mar15 0807 by 308	16Mar15 1536 by 308		
	Relative Percent Difference:		3.25	20.0	W51225				
Total Recoverable Phenolics	188285-5	8.68 mg/Kg	108	80.0-120	W51224	16Mar15 0807 by 308	16Mar15 1300 by 308		
	188285-5	8.85 mg/Kg	105	80.0-120	W51224	16Mar15 0807 by 308	16Mar15 1300 by 308		
	Relative Percent Difference:		2.52	10.0	W51224				



Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Antimony	188349-3	497 mg/Kg	99.2	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1342 by 315		
	188349-3	497 mg/Kg	100	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		1.22	20.0	S38478				
Arsenic	188349-3	250 mg/Kg	98.3	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1343 by 315		
	188349-3	497 mg/Kg	99.3	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		-	-	S38478				
Beryllium	188349-3	49.7 mg/Kg	99.5	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1342 by 315		
	188349-3	49.7 mg/Kg	99.4	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		0.136	20.0	S38478				
Cadmium	188349-3	497 mg/Kg	98.0	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1342 by 315		
	188349-3	497 mg/Kg	98.0	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		0.0206	20.0	S38478				
Chromium	188349-3	49.7 mg/Kg	97.8	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1342 by 315		
	188349-3	49.7 mg/Kg	99.0	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		1.06	20.0	S38478				
Copper	188349-3	49.7 mg/Kg	99.6	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1342 by 315		
	188349-3	49.7 mg/Kg	99.9	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		0.262	20.0	S38478				
Lead	188349-3	497 mg/Kg	98.4	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1342 by 315		
	188349-3	497 mg/Kg	99.0	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		0.602	20.0	S38478				
Molybdenum	188349-3	49.7 mg/Kg	99.1	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1342 by 315		
	188349-3	49.7 mg/Kg	100	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		1.21	20.0	S38478				
Nickel	188349-3	49.7 mg/Kg	97.1	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1342 by 315		
	188349-3	49.7 mg/Kg	98.2	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		1.07	20.0	S38478				
Selenium	188349-3	497 mg/Kg	93.8	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1342 by 315		
	188349-3	497 mg/Kg	94.3	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		0.487	20.0	S38478				
Silver	188349-3	5.00 mg/Kg	99.7	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1343 by 315		
	188349-3	9.93 mg/Kg	94.7	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		-	-	S38478				
Thallium	188349-3	497 mg/Kg	99.2	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1342 by 315		
	188349-3	497 mg/Kg	99.8	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		0.607	20.0	S38478				
Zinc	188349-3	49.7 mg/Kg	97.8	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1342 by 315		
	188349-3	49.7 mg/Kg	98.4	75.0-125	S38478	13Mar15 1340 by 313	16Mar15 1347 by 315		
	Relative Percent Difference:		0.495	20.0	S38478				
Mercury	188349-3	2.42 mg/Kg	97.1	70.0-130	S38474	13Mar15 1057 by 301	16Mar15 0925 by 301		
	188349-3	2.44 mg/Kg	92.2	70.0-130	S38474	13Mar15 1057 by 301	16Mar15 0929 by 301		
	Relative Percent Difference:		5.29	20.0	S38474				



Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC		Qual
				Sample	Preparation Date	
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W51172-1	11Mar15 0805 by 308	11Mar15 1545 by 308
Total Cyanide	< 0.01 mg/l	0.01	0.01	W51178-1	11Mar15 1025 by 308	11Mar15 1611 by 308
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S38553-1	25Mar15 0845 by 313	25Mar15 1131 by 235
Total Cyanide	< 0.1 mg/Kg	0.1	0.1	W51225-1	16Mar15 0807 by 308	16Mar15 1529 by 308
Total Recoverable Phenolics	< 0.005 mg/Kg	0.005	0.005	W51224-1	16Mar15 0807 by 308	16Mar15 1300 by 308
Total Solids	< 0.01 wt %	0.01	0.01	W51219-1	13Mar15 1547 by 308	16Mar15 1004 by 308
Antimony	< 3 mg/Kg	3	3	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Arsenic	< 5 mg/Kg	5	5	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Beryllium	< 0.03 mg/Kg	0.03	0.03	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Cadmium	< 0.4 mg/Kg	0.4	0.4	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Chromium	< 0.7 mg/Kg	0.7	0.7	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Copper	< 0.6 mg/Kg	0.6	0.6	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Lead	< 4 mg/Kg	4	4	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Nickel	< 1 mg/Kg	1	1	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Selenium	< 7 mg/Kg	7	7	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Silver	< 0.7 mg/Kg	0.7	0.7	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Thallium	< 4 mg/Kg	4	4	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Zinc	< 0.2 mg/Kg	0.2	0.2	S38478-1	13Mar15 1340 by 313	16Mar15 1335 by 315
Mercury	< 0.1 mg/Kg	0.1	0.1	S38474-1	13Mar15 1057 by 301	16Mar15 0917 by 301

Mercury One LTD

Mercury Analysis

Analytical Report
EPA Method 1631E

Report #: 15-0331

Page 1 of 1

Customer Name:

Springdale Water Utilities
P.O. Box 769
Springdale, AR 72765-0769

3/27/15

Attention:

Jennefer Enos

Project/PO#

0

swu01

Lab /(Field ID) or (Customer ID)	Results ng/L	Results ng/L	Results ng/L	Results ng/L	Mercury One ID:
Influent (Composite Samples 1-4)	18.5				150326-06
Effluent (Composite Samples 1-4)		0.808			150326-07
Field Blank			<0.5		150326-08
Sample Type	Influent	Effluent	Field Blank		
Date Sampled:	3/20-21/15	3/23-24/15	3/23/15		
Date Received:	3/26/15	3/26/15	3/26/15		
Date Prepared:	3/26/15	3/26/15	3/26/15		
Date Analyzed:	3/27/15	3/27/15	3/27/15		
Time Analyzed:	8:46	8:49	8:58		
Dilution Factor					
High Cal Range Used					QCS/MS/MSD
Method Detection Limit	0.2ng/L				Acceptable Range
QCS (Quality Control Standard)	93%				71-124%
Method Blank Result	<0.2	Method Blank Requirement			<0.2

M= Modified: See Below for Explanation

Dilution Factors are calculated into the results.

Method Reporting Limit

0.5ng/L

RPD Acceptable Range <20%

Matrix Spike/ Matrix Spike Duplicate Recoveries

MS/MSD Acceptable Range

71-129%

Mercury One Sample ID

% MS Recovery

% MSD Recovery

RPD

The Calibration Range of the Instrument using low calibration 0.5-250ng/L, 2015 IDL 0.06ng/L

The Calibration Range of the instrument using a high calibration 0.5-1000ng/L, 2015 IDL 0.075ng/L

The results are related only to the samples presented on this report.

Arkansas Cert# 88-0911

The test results are certified to meet all requirements of the certifying authority

West Virginia Cert # 348

Other Codes

North Carolina Cert # 662

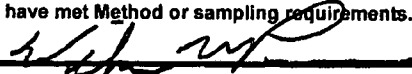
J* = Estimated result ,

* A value found between the Reporting Limit and the Method Detection Limit is considered estimated

or the sample was not received in proper condition as required by the method.

R* = Rejected, Sample may not have met Method or sampling requirements.

William W. Purves



Rev 4 6/23/11

Phone: 330-963-0843

2241 Pinnacle Parkway, Suite B, Twinsburg, OH 44087

Fax: 330-963-1016

Chain of Custody

Mercury One Ltd.
2241 Pinnacle Parkway, Suite B
Twinsburg, OH 44087

Phone: 330-963-0843
Fax: 330-963-1016
E-Mail: customerservice@mercuryoneltd.com

Method 1631 Mercury

Other: _____

ATTN: Brad Stewart

Client: Springdale Water Utilities

Address: P.O. Box 769

City: Springdale State: AR Zip: 72762

Phone: (479) 756-3657 Fax: (479) 750-7195 E-Mail: bstewart@springdalewater.com

Sampled By: Laboratory Staff

Collection Date	Time	Sample Matrix	Comp/Grab	Sample Description/Comments	Mercury One Lab ID
03/20/15	0900	water	grab	Influent	1503210-10a
03/20/15	1300	water	grab	Influent	1503210-10b
03/20/15	1600	water	grab	Influent	1503210-10c
03/21/15	0900	water	grab	Influent composited	1503210-10d
03/23/15	0900	water	grab	Effluent	1503210-7a
03/23/15	1300	water	grab	Effluent	1503210-7b
03/23/15	1500	water	grab	Effluent	1503210-7c
03/24/15	0900	water	grab	Effluent composited	1503210-7d
03/23/15	1300	water	grab	Blank	1503210-8

Relinquished By: Yachet J. Date: 03/24/15 Time: 11:55

Received By: M. E. [Signature] Date: 3/26/15 Time: 1305

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Use multiple lines for description if necessary.
Temp

**CITY OF SPRINGDALE WWTF
 NPDES PERMIT NO. AR0022063
 AFIN NO. 72-00003
 BIOMONITORING REPORTING
 TEST DATE: 03/03/15**

I. *Ceriodaphnia dubia*

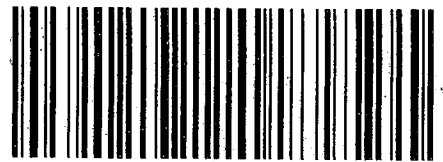
	Response
(A) If the NOEC for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0". Parameter No. TLP3B.	0
(B) Report the NOEC value for survival, Parameter No. TOP3B.	97%
(C) Report the NOEC value for reproduction, Parameter No. TPP3B.	97%
(D) If the NOEC for reproduction is less than the critical dilution, enter a "1"; otherwise, enter a "0". Parameter No. TGP3B.	0
(E) Report the higher (critical dilution or control) Coefficient of Variation, Parameter No. TQP3B.	8.32%

II. *Pimephales promelas* (fathead minnow)

	Response
(A) If the No Observed Effect Concentration (NOEC) for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0". Parameter No. TLP6C.	0
(B) Report the NOEC value for survival, Parameter No. TOP6C.	97%
(C) Report the NOEC value for growth, Parameter No. TPP6C.	97%
(D) If the No Observed Effect Concentration (NOEC) for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0". Parameter No. TGP6C.	0
(E) Report the highest (critical dilution or control) Coefficient of Variation, Parameter No. TQP6C.	6.25%
22415 Retest Number 1	Leave Blank
22416 Retest Number 2	Leave Blank

CERTIFIED MAIL™

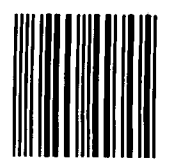
SPRINGDALE WATER UTILITIES
526 OAK AVE
SPRINGDALE, AR 72762



7012 3050 0000 5906 6835



1000



72118

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ADEQ
NPDES Enforcement Section
5301 Northshore Drive
North Little Rock, AR 72118

