



# 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**

July 11, 2016

Dear Sir or Madame:

Enclosed please find the results of second quarter Table III analyses conducted on Springdale Water Utilities' wastewater treatment facility influent, effluent and biosolids (belt press influent) for 2016. 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

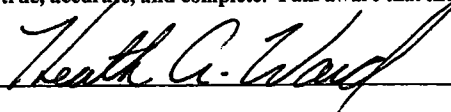
## System Overflow Report for June 2016

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
06/18/2016	11:30 am- 11:40 am	10 min	795 N. Shiloh Street Springdale, AR	30 gal	Roots	Spread lime on affected area.	None	Overflow into field
06/23/2016	5:30 pm- 6:30 pm	1 hr	435 Village Lane Springdale, AR	20 gal	Grease	Hydro clean	None	Overflow into storm drain

"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



Date 07/11/2016



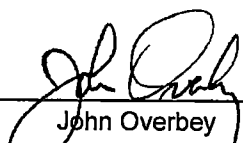
June 1, 2016  
Control No. 202276  
Page 1 of 9

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 May 18, 2016. 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 Chief Operating Officer or a qualified designee.



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John Overbey  
Chief Operating Officer

This document has been distributed to the following:

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



Springdale Water Utilities  
Post Office Box 769  
Springdale, AR 72762

**SAMPLE INFORMATION**

**Project Description:**

Four (4) water and one (1) sludge sample(s) received on May 18, 2016  
Table III

**Receipt Details:**

A Chain of Custody was provided. The samples were delivered in one (1) ice chest.  
Ice chest #1 was delivered with shipping documentation.

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:**

Laboratory ID	Client Sample ID	Sampled Date/Time	Notes
202276-1	Influent	10-May-2016 1000	
202276-2	Influent	10-May-2016 1600	
202276-3	Effluent	13-May-2016 0200	
202276-4	Effluent	13-May-2016 0800	
202276-5	Belt Press Influent	13-May-2016 0800	

**Qualifiers:**

X Spiking level is invalid due to the high concentration of analyte in the spiked sample

**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).



Springdale Water Utilities  
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**ANALYTICAL RESULTS**

**AIC No. 202276-1**

**Sample Identification:** Influent 10-May-2016 1000

Analyte	Result	RL	Units	Qualifier
<b>Total Recoverable Phenolics</b> EPA 420.1	<b>110</b>	<b>5</b>	<b>ug/l</b>	
Prep: 19-May-2016 0835 by 319	Analyzed: 19-May-2016 1443 by 319		Batch: W55975	
<b>Total Cyanide</b> SM 4500-CN C,E 1999	<b>&lt; 10</b>	<b>10</b>	<b>ug/l</b>	
Prep: 19-May-2016 0828 by 308	Analyzed: 19-May-2016 1051 by 308		Batch: W55974	

**AIC No. 202276-2**

**Sample Identification:** Influent 10-May-2016 1600

Analyte	Result	RL	Units	Qualifier
<b>Total Recoverable Antimony</b> EPA 200.8	<b>&lt; 60</b>	<b>60</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Arsenic</b> EPA 200.8	<b>2.0</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Beryllium</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Cadmium</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Chromium</b> EPA 200.8	<b>&lt; 10</b>	<b>10</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Copper</b> EPA 200.8	<b>18</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Lead</b> EPA 200.8	<b>0.56</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Molybdenum</b> EPA 200.8	<b>&lt; 8</b>	<b>8</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Nickel</b> EPA 200.8	<b>6.6</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Selenium</b> EPA 200.8	<b>&lt; 5</b>	<b>5</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Silver</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Thallium</b> EPA 200.8	<b>&lt; 0.5</b>	<b>0.5</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	
<b>Total Recoverable Zinc</b> EPA 200.8	<b>110</b>	<b>20</b>	<b>ug/l</b>	
Prep: 18-May-2016 1320 by 317	Analyzed: 18-May-2016 1742 by 317		Batch: S41152	

**AIC No. 202276-3**

**Sample Identification:** Effluent 13-May-2016 0200

Analyte	Result	RL	Units	Qualifier
<b>Total Recoverable Phenolics</b> EPA 420.1	<b>43</b>	<b>5</b>	<b>ug/l</b>	
Prep: 19-May-2016 0835 by 319	Analyzed: 19-May-2016 1444 by 319		Batch: W55975	



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**ANALYTICAL RESULTS**

**AIC No. 202276-3 (Continued)**  
**Sample Identification: Effluent 13-May-2016 0200**

Analyte	Result	RL	Units	Qualifier
<b>Total Cyanide</b> SM 4500-CN C,E 1999	<b>&lt; 10</b> Analyzed: 19-May-2016 1052 by 308	<b>10</b>	<b>ug/l</b> Batch: W55974	

**AIC No. 202276-4**  
**Sample Identification: Effluent 13-May-2016 0800**

Analyte	Result	RL	Units	Qualifier
<b>Total Recoverable Antimony</b> EPA 200.8	<b>&lt; 60</b> Analyzed: 18-May-2016 1748 by 317	<b>60</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Arsenic</b> EPA 200.8	<b>&lt; 0.5</b> Analyzed: 18-May-2016 1748 by 317	<b>0.5</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Beryllium</b> EPA 200.8	<b>&lt; 0.5</b> Analyzed: 18-May-2016 1748 by 317	<b>0.5</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Cadmium</b> EPA 200.8	<b>&lt; 0.5</b> Analyzed: 18-May-2016 1748 by 317	<b>0.5</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Chromium</b> EPA 200.8	<b>&lt; 10</b> Analyzed: 18-May-2016 1748 by 317	<b>10</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Copper</b> EPA 200.8	<b>3.4</b> Analyzed: 18-May-2016 1748 by 317	<b>0.5</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Lead</b> EPA 200.8	<b>&lt; 0.5</b> Analyzed: 18-May-2016 1748 by 317	<b>0.5</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Molybdenum</b> EPA 200.8	<b>&lt; 8</b> Analyzed: 18-May-2016 1748 by 317	<b>8</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Nickel</b> EPA 200.8	<b>3.6</b> Analyzed: 18-May-2016 1748 by 317	<b>0.5</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Selenium</b> EPA 200.8	<b>&lt; 5</b> Analyzed: 18-May-2016 1748 by 317	<b>5</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Silver</b> EPA 200.8	<b>&lt; 0.5</b> Analyzed: 18-May-2016 1748 by 317	<b>0.5</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Thallium</b> EPA 200.8	<b>&lt; 0.5</b> Analyzed: 18-May-2016 1748 by 317	<b>0.5</b>	<b>ug/l</b> Batch: S41152	
<b>Total Recoverable Zinc</b> EPA 200.8	<b>32</b> Analyzed: 18-May-2016 1748 by 317	<b>20</b>	<b>ug/l</b> Batch: S41152	

**AIC No. 202276-5**  
**Sample Identification: Belt Press Influent 13-May-2016 0800**

Analyte	Result	RL	Units	Qualifier
<b>Total Cyanide</b> EPA 9010C, 9014	<b>&lt; 3</b> Analyzed: 23-May-2016 1637 by 319	<b>3</b>	<b>mg/Kg</b> Batch: W56007	
<b>Total Recoverable Phenolics</b> EPA 9065	<b>&lt; 20</b> Analyzed: 23-May-2016 1416 by 308	<b>20</b>	<b>mg/Kg</b> Batch: W56001	



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**ANALYTICAL RESULTS**

AIC No. 202276-5 (Continued)

Sample Identification: Belt Press Influent 13-May-2016 0800

Analyte		Result	RL	Units	Qualifier
<b>Total Solids</b>		<b>3.6</b>	<b>0.01</b>	<b>wt %</b>	
SM 2540 G 1997	Prep: 18-May-2016 1343 by 100	Analyzed: 19-May-2016 1032 by 100		Batch: W55961	
<b>Antimony</b>		<b>&lt; 3</b>	<b>3</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Arsenic</b>		<b>&lt; 5</b>	<b>5</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Beryllium</b>		<b>&lt; 0.03</b>	<b>0.03</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Cadmium</b>		<b>&lt; 0.4</b>	<b>0.4</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Chromium</b>		<b>12</b>	<b>0.7</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Copper</b>		<b>90</b>	<b>0.6</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Lead</b>		<b>&lt; 4</b>	<b>4</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Molybdenum</b>		<b>5.2</b>	<b>0.8</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Nickel</b>		<b>15</b>	<b>1</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Selenium</b>		<b>&lt; 7</b>	<b>7</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Silver</b>		<b>1.4</b>	<b>0.7</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Thallium</b>		<b>&lt; 4</b>	<b>4</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Zinc</b>		<b>270</b>	<b>0.2</b>	<b>mg/Kg</b>	
EPA 3051A, 6010C	Prep: 19-May-2016 0923 by 313	Analyzed: 20-May-2016 1205 by 317		Batch: S41159	
<b>Mercury</b>		<b>0.18</b>	<b>0.1</b>	<b>mg/Kg</b>	
EPA 7471B	Prep: 20-May-2016 1044 by 313	Analyzed: 27-May-2016 1714 by 313		Batch: S41167	



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**DUPLICATE RESULTS**

Analyte	AIC No.	Result	RPD		Preparation Date	Analysis Date	Dil	Qual
			RPD	Limit				
Total Solids	202227-1	31 wt %			18May16 1135 by 100	19May16 1032 by 100		
	Batch: W55961 Duplicate	31 wt %	0.788	10.0	18May16 1135 by 100	19May16 1032 by 100		

**LABORATORY CONTROL SAMPLE RESULTS**

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	93.3	85.0-115			W55975	19May16 0836 by 319	19May16 1439 by 319		
Total Cyanide	0.1 mg/l	88.7	85.0-115			W55974	19May16 0829 by 308	19May16 1044 by 308		
Total Recoverable Antimony	0.05 mg/l	101	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Arsenic	0.05 mg/l	97.8	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Beryllium	0.05 mg/l	99.1	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Cadmium	0.05 mg/l	101	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Chromium	0.05 mg/l	102	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Copper	0.05 mg/l	98.5	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Lead	0.05 mg/l	99.0	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Molybdenum	0.05 mg/l	101	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Nickel	0.05 mg/l	99.6	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Selenium	0.05 mg/l	99.3	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Silver	0.02 mg/l	102	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Thallium	0.05 mg/l	99.2	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Recoverable Zinc	0.05 mg/l	101	85.0-115			S41152	18May16 0836 by 317	18May16 1613 by 317		
Total Cyanide	0.500 mg/Kg	97.7	85.0-115			W56007	23May16 1344 by 319	23May16 1635 by 319		
Total Recoverable Phenolics	10.0 mg/Kg	95.2	85.0-115			W56001	23May16 0743 by 308	23May16 1415 by 308		
Antimony	500 mg/Kg	90.4	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Arsenic	500 mg/Kg	92.6	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Beryllium	50.0 mg/Kg	91.4	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Cadmium	500 mg/Kg	91.7	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Chromium	50.0 mg/Kg	88.0	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Copper	50.0 mg/Kg	95.7	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Lead	500 mg/Kg	93.1	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Molybdenum	50.0 mg/Kg	90.9	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Nickel	50.0 mg/Kg	92.2	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Selenium	500 mg/Kg	91.1	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Silver	10.0 mg/Kg	103	85.0-115			S41159	19May16 0923 by 313	20May16 1112 by 317		
Thallium	500 mg/Kg	90.2	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Zinc	50.0 mg/Kg	90.7	85.0-115			S41159	19May16 0923 by 313	19May16 1411 by 317		
Mercury	1.25 mg/Kg	104	85.0-115			S41167	20May16 1044 by 313	27May16 1626 by 313		





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**MATRIX SPIKE SAMPLE RESULTS**

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	DII	Qual
Total Recoverable Phenolics	202226-1	0.1 mg/l	90.2	80.0-120	W55975	19May16 0836 by 319	19May16 1440 by 319		
	202226-1	0.1 mg/l	83.7	80.0-120	W55975	19May16 0836 by 319	19May16 1441 by 319		
	Relative Percent Difference:		7.48	10.0	W55975				
Total Cyanide	202226-1	0.1 mg/l	86.9	75.0-125	W55974	19May16 0829 by 308	19May16 1047 by 308		
	202226-1	0.1 mg/l	91.5	75.0-125	W55974	19May16 0829 by 308	19May16 1049 by 308		
	Relative Percent Difference:		5.16	20.0	W55974				
Total Recoverable Antimony	202231-2	0.05 mg/l	108	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.05 mg/l	109	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		0.567	20.0	S41152				
Total Recoverable Arsenic	202231-2	0.05 mg/l	96.5	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.05 mg/l	102	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		5.58	20.0	S41152				
Total Recoverable Beryllium	202231-2	0.05 mg/l	89.6	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.05 mg/l	85.1	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		5.08	20.0	S41152				
Total Recoverable Cadmium	202231-2	0.05 mg/l	96.6	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.05 mg/l	97.0	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		0.422	20.0	S41152				
Total Recoverable Chromium	202231-2	0.05 mg/l	93.9	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.05 mg/l	83.9	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		11.2	20.0	S41152				
Total Recoverable Copper	202231-2	0.05 mg/l	92.3	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.05 mg/l	85.3	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		5.36	20.0	S41152				
Total Recoverable Lead	202231-2	0.05 mg/l	107	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.05 mg/l	111	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		1.20	20.0	S41152				
Total Recoverable Molybdenum	202231-2	0.05 mg/l	97.5	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.05 mg/l	104	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		4.78	20.0	S41152				
Total Recoverable Nickel	202231-2	0.05 mg/l	87.1	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.05 mg/l	79.6	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		7.52	20.0	S41152				
Total Recoverable Selenium	202231-2	0.05 mg/l	98.9	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.05 mg/l	90.8	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		8.55	20.0	S41152				
Total Recoverable Silver	202231-2	0.02 mg/l	94.9	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.02 mg/l	93.0	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		2.00	20.0	S41152				
Total Recoverable Thallium	202231-2	0.05 mg/l	90.8	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		
	202231-2	0.05 mg/l	91.1	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		
	Relative Percent Difference:		0.335	20.0	S41152				
Total Recoverable Zinc	202231-2	0.05 mg/l	-	75.0-125	S41152	18May16 0836 by 317	18May16 1618 by 317		X
	202231-2	0.05 mg/l	-	75.0-125	S41152	18May16 0836 by 317	18May16 1624 by 317		X
	Relative Percent Difference:		11.3	20.0	S41152				
Total Cyanide	202276-5	0.985 mg/Kg	79.7	75.0-125	W56007	23May16 1344 by 319	23May16 1639 by 319		
	202276-5	0.996 mg/Kg	80.8	75.0-125	W56007	23May16 1344 by 319	23May16 1640 by 319		
	Relative Percent Difference:		1.10	20.0	W56007				
Total Recoverable Phenolics	202276-5	9.45 mg/Kg	90.9	80.0-120	W56001	23May16 0743 by 308	23May16 1416 by 308		
	202276-5	9.34 mg/Kg	93.4	80.0-120	W56001	23May16 0743 by 308	23May16 1417 by 308		
	Relative Percent Difference:		2.80	10.0	W56001				

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	202266-1	498 mg/Kg	89.4	75.0-125	S41159	19May16 0923 by 313	20May16 1116 by 317		
	202266-1	499 mg/Kg	90.2	75.0-125	S41159	19May16 0923 by 313	20May16 1123 by 317		
	Relative Percent Difference:		0.891	20.0	S41159				
Arsenic	202266-1	498 mg/Kg	87.3	75.0-125	S41159	19May16 0923 by 313	19May16 1418 by 317		
	202266-1	499 mg/Kg	87.3	75.0-125	S41159	19May16 0923 by 313	19May16 1426 by 317		
	Relative Percent Difference:		0.0886	20.0	S41159				
Beryllium	202266-1	49.8 mg/Kg	88.1	75.0-125	S41159	19May16 0923 by 313	19May16 1418 by 317		
	202266-1	49.9 mg/Kg	87.4	75.0-125	S41159	19May16 0923 by 313	19May16 1426 by 317		
	Relative Percent Difference:		0.834	20.0	S41159				
Cadmium	202266-1	498 mg/Kg	78.0	75.0-125	S41159	19May16 0923 by 313	19May16 1418 by 317		
	202266-1	499 mg/Kg	77.7	75.0-125	S41159	19May16 0923 by 313	19May16 1426 by 317		
	Relative Percent Difference:		0.493	20.0	S41159				
Chromium	202266-1	49.8 mg/Kg	91.8	75.0-125	S41159	19May16 0923 by 313	20May16 1116 by 317		
	202266-1	49.9 mg/Kg	93.1	75.0-125	S41159	19May16 0923 by 313	20May16 1123 by 317		
	Relative Percent Difference:		0.856	20.0	S41159				
Copper	202266-1	49.8 mg/Kg	95.7	75.0-125	S41159	19May16 0923 by 313	19May16 1418 by 317		
	202266-1	49.9 mg/Kg	96.6	75.0-125	S41159	19May16 0923 by 313	19May16 1426 by 317		
	Relative Percent Difference:		0.610	20.0	S41159				
Lead	202266-1	498 mg/Kg	87.2	75.0-125	S41159	19May16 0923 by 313	19May16 1418 by 317		
	202266-1	499 mg/Kg	86.7	75.0-125	S41159	19May16 0923 by 313	19May16 1426 by 317		
	Relative Percent Difference:		0.567	20.0	S41159				
Molybdenum	202266-1	49.8 mg/Kg	84.7	75.0-125	S41159	19May16 0923 by 313	19May16 1418 by 317		
	202266-1	49.9 mg/Kg	83.9	75.0-125	S41159	19May16 0923 by 313	19May16 1426 by 317		
	Relative Percent Difference:		0.953	20.0	S41159				
Nickel	202266-1	49.8 mg/Kg	91.5	75.0-125	S41159	19May16 0923 by 313	19May16 1418 by 317		
	202266-1	49.9 mg/Kg	91.6	75.0-125	S41159	19May16 0923 by 313	19May16 1426 by 317		
	Relative Percent Difference:		0.0684	20.0	S41159				
Selenium	202266-1	498 mg/Kg	84.7	75.0-125	S41159	19May16 0923 by 313	19May16 1418 by 317		
	202266-1	499 mg/Kg	84.3	75.0-125	S41159	19May16 0923 by 313	19May16 1426 by 317		
	Relative Percent Difference:		0.474	20.0	S41159				
Silver	202266-1	9.95 mg/Kg	101	75.0-125	S41159	19May16 0923 by 313	20May16 1116 by 317		
	202266-1	9.98 mg/Kg	102	75.0-125	S41159	19May16 0923 by 313	20May16 1123 by 317		
	Relative Percent Difference:		0.985	20.0	S41159				
Thallium	202266-1	498 mg/Kg	83.7	75.0-125	S41159	19May16 0923 by 313	19May16 1418 by 317		
	202266-1	499 mg/Kg	82.8	75.0-125	S41159	19May16 0923 by 313	19May16 1426 by 317		
	Relative Percent Difference:		1.07	20.0	S41159				
Zinc	202266-1	49.8 mg/Kg	97.6	75.0-125	S41159	19May16 0923 by 313	19May16 1418 by 317		
	202266-1	49.9 mg/Kg	106	75.0-125	S41159	19May16 0923 by 313	19May16 1426 by 317		
	Relative Percent Difference:		4.79	20.0	S41159				
Mercury	202242-1	2.47 mg/Kg	110	70.0-130	S41167	20May16 1044 by 313	27May16 1654 by 313		
	202242-1	2.48 mg/Kg	99.6	70.0-130	S41167	20May16 1044 by 313	27May16 1658 by 313		
	Relative Percent Difference:		4.10	20.0	S41167				



Springdale Water Utilities  
Post Office Box 769  
Springdale, AR 72762

**LABORATORY BLANK RESULTS**

Analyte	Result	RL	PQL	QC Sample	Preparation Date	Analysis Date	Qual
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W55975-1	19May16 0836 by 319	19May16 1438 by 319	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W55974-1	19May16 0829 by 308	19May16 1043 by 308	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Cadmium	< 0.0002 mg/l	0.0002	0.0002	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S41152-1	18May16 0836 by 317	18May16 1607 by 317	
Total Cyanide	< 0.1 mg/Kg	0.1	0.1	W56007-1	23May16 1344 by 319	23May16 1634 by 319	
Total Recoverable Phenolics	< 0.5 mg/Kg	0.5	0.5	W56001-1	23May16 0743 by 308	23May16 1414 by 308	
Total Solids	< 0.01 wt %	0.01	0.01	W55961-1	18May16 1135 by 100	19May16 1032 by 100	
Antimony	< 3 mg/Kg	3	3	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Arsenic	< 5 mg/Kg	5	5	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Chromium	< 0.7 mg/Kg	0.7	0.7	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Copper	< 0.6 mg/Kg	0.6	0.6	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Lead	< 4 mg/Kg	4	4	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Nickel	< 1 mg/Kg	1	1	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Selenium	< 7 mg/Kg	7	7	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Silver	< 0.7 mg/Kg	0.7	0.7	S41159-1	19May16 0923 by 313	20May16 1107 by 317	
Thallium	< 4 mg/Kg	4	4	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Zinc	< 0.2 mg/Kg	0.2	0.2	S41159-1	19May16 0923 by 313	19May16 1405 by 317	
Mercury	< 0.1 mg/Kg	0.1	0.1	S41167-1	20May16 1044 by 313	27May16 1623 by 313	



8600 Kanis Road  
 Little Rock, AR 72204-2322  
 (501) 224-5060  
 FAX (501) 224-5072

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

PAGE 01 OF 01

Client: <u>SPRINGDALE WATER UTILITIES</u>			PO No.		NO OF BOTTLES		ANALYSES REQUESTED										AIC CONTROL NO: <u>202276</u>			
Project Reference: <u>TABLE III</u>			SAMPLE MATRIX		BOTTLES		CYANIDE	PHENOLICS	PP METALS + MO (NO Hg)	TABLE II: CA, T, PHENOLICS, PP METALS + MO								AIC PROPOSAL NO:		
Project Manager: <u>BRAD STEWART</u>			W	S	S															
Sampled By: <u>OPERATIONS + BIOSOLIDS STAFF</u>			G	R	C	A	B												Received on Ice (4°C)? <u>YES</u> <input type="checkbox"/> NO <input type="checkbox"/>	
AIC No.	Sample Identification	Date/Time Collected	A	B	C	P	R	S	S	S										Remarks
<u>1</u>	<u>INFLUENT</u>	<u>1600, 2200, 0400, 1000 05/09-10/16</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>													
<u>1</u>	<u>INFLUENT</u>	<u>1600, 2200, 0400, 1000 05/09-10/16</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>													
<u>2X</u>	<u>INFLUENT</u>	<u>1600-1600 05/09-10/16</u>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
<u>3Z</u>	<u>EFFLUENT</u>	<u>0800, 1400, 2000, 0200 05/12-13/16</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>													
<u>3Z</u>	<u>EFFLUENT</u>	<u>0800, 1400, 2000, 0200 05/12-13/16</u>	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>													
<u>4Z</u>	<u>EFFLUENT</u>	<u>0800-0800 05/12-13/16</u>			<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>														
<u>5X</u>	<u>BELT PRESS INFLUENT</u>	<u>0800 05/13/16</u>	<input checked="" type="checkbox"/>																	
		Container Type																		Field pH calibration on _____ @ _____
		Preservative																		Buffer:
G = Glass P = Plastic V = VOA vials H = HCl to pH2 T = Sodium Thiosulfate			NO = none S = Sulfuric acid pH2 N = Nitric acid pH2			B = NaOH to pH12			Z = Zinc acetate											
Turnaround Time Requested: (Please circle) <u>NORMAL</u> or EXPEDITED IN _____ DAYS										Relinquished By: <u>M. Phillips</u>		Date/Time: <u>05/17/16</u>		Received By:		Date/Time:				
Expedited results requested by: <u>N/A</u>										Relinquished By:		Date/Time:		Received in Lab By: <u>[Signature]</u>		Date/Time: <u>5/18/16</u>				
Who should AIC contact with questions: <u>BRAD STEWART</u>										Comments:  <u>FedEx# 7831 0484 977</u>										
Phone: <u>(479) 756-3659</u> Fax: <u>(479) 750-7195</u>																				
Report Attention to: <u>BRAD STEWART</u>																				
Report Address to: <u>P.O. BOX 769</u> <u>SPRINGDALE, AR</u> <u>72762</u>																				

# Mercury One LTD

Mercury Analysis

Analytical Report  
EPA Method 1631E

Report #: 160622-10 Springdale AR

Page 1 of 1

Customer Name:

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

Date: 6/22/16

Attention:

Project/PO#

swu01

Lab /(Field ID) or (Customer ID)	Results ng/L	Results ng/L	Results ng/L	Results ng/L	Mercury One ID:
Plant Influent (Composite Samples 1-4)	154				160617-09
Plant Effluent (Composite Samples 1-4)		2.24			160617-10
Field Blank			<0.2		160617-11
Sample Type	Influent	Effluent	Field Blank		
Date Sampled:	6/6-7/2016	6/9-10/2016	1/0/00		
Date Received:	6/17/16	6/17/16	6/17/16		
Date Prepared:	6/17/16	6/17/16	6/17/16		
Date Analyzed:	6/21/16	6/21/16	6/21/16		
Time Analyzed	10:50	13:39	13:51		
Dilution Factor					
High Cal Range Used 1-1000 ng/L	X				<b>QCS/MS/MSD</b>
Method Detection Limit	0.2ng/L				Acceptable Range
QCS (Quality Control Standard)	91%				71-125%
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

71-125%

Sample ID

MS %Recovery

MSD %Recovery

RPD

160617-01

84.0%

86.4%

2.8%

Normal Calibration range 0.5-200ng/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

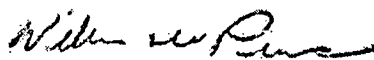
J\* = Estimated result ,

\* 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](mailto:customerservice@mercuryoneltd.com)

**Method 1631 Mercury**

Other:

ATTN: Brad Stewart  
Client: Springdale Water Utilities  
Address: PO Box 769  
City: Springdale State: AR Zip: 72762  
Phone: 479-756-3659 Fax: 479-750-7196 E-Mail: bstewart@springdalewater.com  
Sampled By: JRW, MRP, TCP

Collection Date	Time	Sample Matrix	Comp/Grab	Sample Description/Comments	Mercury One Lab ID
06/06/16	0700	w/w	G	PLANT INFLUENT	✓/1015
06/06/16	1058 <sup>TOP</sup>	w/w	G	Plant Influent	1160017
06/06/16	1456	w/w	G	Plant Influent	
06/07/16	0702	w/w	G	Plant Influent	
06/09/16	0708	w/w	G	PLANT EFFLUENT	1160017-10
06/09/16	1100	w/w	G	PLANT EFFLUENT	
06/09/16	1452	w/w	G	PLANT EFFLUENT	
06/10/16	0708	w/w	G	PLANT EFFLUENT	
					FB 1160017-51

Relinquished By: Josh W. Deane Date: 06/10/16 Time: 1015  
 Received By: Mercury One Ltd. Date: 6/17/16 Time: 1315  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Use multiple lines for description if necessary.  
Temp

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

**CERTIFIED MAIL™**



7013 0600 0001 6399 9521



1000



72118

U.S. POSTAGE  
PAID  
SPRINGDALE, AR  
72764  
JUL 13, 16  
AMOUNT

**\$7.57**

R2305E125778-03

RETURN RECEIPT  
REQUESTED

Arkansas Dept. of Environmental Quality  
NPDES Enforcement Section  
5301 Northshore Drive  
North Little Rock, AR 72118-5317

