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 15, 2016

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 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 March 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
03/05/2016	4:40 pm-9:30 pm	4 hr. 50 min.	3126 Willow Bend Cir. Springdale, AR 72762	2900 gal	Debris/Construction	Jet-Vac	None	Into storm drain.
03/07/2016	2:30 pm-3:00 pm	30 min.	2706 Eidson St. Springdale, AR 72762	25 gal	Roots/Debris	Jet-Vac	None	Into storm drain.
03/12/2016	2:49 pm-3:30 pm	41 min.	6900 Zan Loop Springdale, AR 72762	800 gal	Roots	Jet-Vac	None	Into yard.
03/18/2016	9:30 am-10:30 am	1 hr.	2307 N. Thompson St. Springdale, AR 72764	1000 gal	Vandalism	Jet-Vac, Camera Inspection, Bypass Pumping, Excavation to remove debris.	None	Into ditch.

"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 evalu 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 knowled 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 A. Ward **Date 04/15/2016**

Springdale Water Utilities

Springdale, Arkansas

System Overflow Report for March 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
03/19/2016	9:21 am-11:15 am	1 hr. 54 min.	1915 Patti Ave. Springdale, AR 72762	50 gal	Roots	Jet-Vac	None	Into yard.
03/20/2016	7:05 pm-8:00 pm	55 min.	1011Porter Ave. Springdale, AR 72764	150 gal	Roots/Grease	Jet-Vac/Spread lime on affected area	None	Into yard.

"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** 04/15/2016

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

TEST VALIDITY

The Pimephales promelas control survival rate was 100%. The mean dry weight (growth) of the Pimephales promelas was determined at 0.430 mg/organism in the controls. The percent coefficient of variation (%CV) values for the fathead minnow control for survival and growth were 0.00 and 7.50. The Ceriodaphnia dubia survival rates were 100 in the control. The Ceriodaphnia in the control produced an average of 20.0 young over the seven-day exposure period. Percent CV values for Ceriodaphnia dubia control survival and reproduction was 0.00 and 15.28. Control data met or exceeded all criteria set out by EPA 821-R-02-013 for test acceptance.

CONCLUSIONS

The No Observed Effect Concentration (NOEC) for Pimephales promelas was 97% for survival and 97% for growth. The No Observed Effect Concentration (NOEC) for Ceriodaphnia dubia was 97% for Survival and 97% for Reproduction. The tests were ran using a synthetic control against effluent concentrations of 31%, 41%, 55%, 73%, and 97%. The effluent sampled on 3-7-16, 3-9-16, and 3-11-16 exhibited acceptable chronic toxicity in Pimephales promelas and in Ceriodaphnia dubia during the exposure period as described in EPA 821-R-02-013.

Mercury One LTD

Mercury Analysis

Analytical Report **Report #: 160331-05 springdale ar**

EPA Method 1631E **Page 1 of 1**

Customer Name: Springdale Water Utlilities **Date: 3/31/16**

P.O. Box 769

Springdale, AR 72765-0769

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:
Influent (Composite Samples 1-4)	**42.0**				160328-17
Effluent (Compsoite Samples 1-4)		**0.977**			160328-18
Field Blank			**<0.2**		160328-19
Sample Type	Influent	Effluent	Field Blank		
Date Sampled:	3/14-15/2016	3/17-18/2016	3/17/16		
Date Received:	3/28/16	3/28/16	3/28/16		
Date Prepared:	3/28/16	3/28/16	3/28/16		
Date Analyzed:	3/31/16	3/31/16	3/31/16		
Time Analyzed	11:47	11:53	11:59		
Dilution Factor					
High Cal Range Used 1-1000 ng/L					**QCS/MS/MSD**
Method Detection Limit	0.2ng/L				**Acceptable Range**
QCS (Quality Control Standard)	81%				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%
Mercury One Sample ID	**% MS Recovery**	**% MSD Recovery**	**RPD**

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

Mercury One LTD

Mercury Analysis

Analytical Report **Report #: 160331-05 springdale ar**

EPA Method 1631E **Page 1 of 1**

Customer Name: Springdale Water Utilities **Date: 3/31/16**

P.O. Box 769

Springdale, AR 72765-0769

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:
Influent (Composite Samples 1-4)	**42.0**				160328-17
Effluent (Compsoite Samples 1-4)		**0.977**			160328-18
Field Blank			**<0.2**		160328-19
Sample Type	Influent	Effluent	Field Blank		
Date Sampled:	3/14-15/2016	3/17-18/2016	3/17/16		
Date Received:	3/28/16	3/28/16	3/28/16		
Date Prepared:	3/28/16	3/28/16	3/28/16		
Date Analyzed:	3/31/16	3/31/16	3/31/16		
Time Analyzed	11:47	11:53	11:59		
Dilution Factor					
High Cal Range Used 1-1000 ng/L					**QCS/MS/MSD**
Method Detection Limit	0.2ng/L				**Acceptable Range**
QCS (Quality Control Standard)	81%				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%

Mercury One Sample ID	**% MS Recovery**	**% MSD Recovery**	**RPD**

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

Method 1631 Mercury

Other:

ATTN: BRAD STEWART

Client: SPRINGDALE WATER UTILITIES

Address: P.O. BOX 769

City: SPRINGDALE **State:** AR **Zip:** 72762

Phone: 479-756-8659 **Fax:** 479-750-7195 **E-Mail:**

Sampled By: LAB STAFF

Collection Date	Time	Sample Matrix	Comp/ Grab	Sample Description/Comments	Mercury One Lab ID
03/14/16	0900	WATER	GRAB	INFLUENT	
03/14/16	1300	WATER	GRAB	INFLUENT (COMPOSITE)	1603328-17a, 17b, 17c, 17d
03/14/16	1700	WATER	GRAB	INFLUENT (INF. GRABS)	
03/15/16	0900	WATER	GRAB	INFLUENT	
03/17/16	0900	WATER	GRAB	EFFLUENT	
03/17/16	1300	WATER	GRAB	EFFLUENT (COMPOSITE)	1603328-18a, b, c, d
03/17/16	1700	WATER	GRAB	EFFLUENT (EFF. GRABS)	
03/18/16	0900	WATER	GRAB	EFFLUENT	
03/17/16	1300	WATER	—	BLANK	1603328-19

Relinquished By: Jeb Weaver **Date:** 03/21/16 **Time:** 0950

Received By: [illegible] **Date:** 3/22/16 **Time:** 1315

Relinquished By: **Date:** **Time:**

Received By: **Date:** **Time:**

Use multiple lines for description if necessary.

Temp

AMERICAN INTERPLEX CORPORATION LABORATORIES

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 15, 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.

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

AMERICAN INTERPLEX CORPORATION LABORATORIES

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 March 15, 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
200316-1	Influent	08-Mar-2016 1000	
200316-2	Influent	08-Mar-2016 1600	
200316-3	Effluent	11-Mar-2016 0200	
200316-4	Effluent	11-Mar-2016 0800	
200316-5	Belt Press Influent	11-Mar-2016 0958	

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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Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

ANALYTICAL RESULTS

AIC No. 200316-1
Sample Identification: Influent 08-Mar-2016 1000

Analyte		Result	RL	Units	Qualifier
Total Recoverable Phenolics		**88**	5	ug/l	
EPA 420.1	Prep: 17-Mar-2016 0750 by 308	Analyzed: 17-Mar-2016 1154 by 308		Batch: W55264	
Total Cyanide		**< 10**	10	ug/l	
SM 4500-CN C,E 1999	Prep: 17-Mar-2016 1045 by 319	Analyzed: 17-Mar-2016 1650 by 308		Batch: W55270	

AIC No. 200316-2
Sample Identification: Influent 08-Mar-2016 1600

Analyte		Result	RL	Units	Qualifier
Total Recoverable Zinc		**71**	20	ug/l	
EPA 200.7	Prep: 18-Mar-2016 1408 by 317	Analyzed: 22-Mar-2016 1053 by 317		Batch: S40816	
Total Recoverable Antimony		**< 60**	60	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1844 by 317		Batch: S40804	
Total Recoverable Arsenic		**2.5**	0.5	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 18-Mar-2016 1655 by 317		Batch: S40804	
Total Recoverable Beryllium		**< 0.5**	0.5	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1844 by 317		Batch: S40804	
Total Recoverable Cadmium		**< 0.5**	0.5	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1844 by 317		Batch: S40804	
Total Recoverable Chromium		**< 10**	10	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1844 by 317		Batch: S40804	
Total Recoverable Copper		**16**	0.5	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1844 by 317		Batch: S40804	
Total Recoverable Lead		**0.64**	0.5	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1844 by 317		Batch: S40804	
Total Recoverable Molybdenum		**< 8**	8	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1844 by 317		Batch: S40804	
Total Recoverable Nickel		**6.1**	0.5	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1844 by 317		Batch: S40804	
Total Recoverable Selenium		**< 5**	5	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1844 by 317		Batch: S40804	
Total Recoverable Silver		**< 0.5**	0.5	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1844 by 317		Batch: S40804	
Total Recoverable Thallium		**< 0.5**	0.5	ug/l	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1844 by 317		Batch: S40804	

AIC No. 200316-3
Sample Identification: Effluent 11-Mar-2016 0200

Analyte		Result	RL	Units	Qualifier
Total Recoverable Phenolics		**9.0**	5	ug/l	
EPA 420.1	Prep: 17-Mar-2016 0750 by 308	Analyzed: 17-Mar-2016 1151 by 308		Batch: W55264	

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Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

ANALYTICAL RESULTS

AIC No. 200316-3 (Continued)
Sample Identification: Effluent 11-Mar-2016 0200

Analyte		Result	RL	Units	Qualifier
Total Cyanide		**< 10**	10	**ug/l**	
SM 4500-CN C,E 1999	Prep: 17-Mar-2016 1045 by 319	Analyzed: 17-Mar-2016 1645 by 308		Batch: W55270	

AIC No. 200316-4
Sample Identification: Effluent 11-Mar-2016 0800

Analyte		Result	RL	Units	Qualifier
Total Recoverable Zinc		**34**	20	**ug/l**	
EPA 200.7	Prep: 18-Mar-2016 1408 by 317	Analyzed: 22-Mar-2016 1056 by 317		Batch: S40816	
Total Recoverable Antimony		**< 60**	60	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1838 by 317		Batch: S40804	
Total Recoverable Arsenic		**3.6**	0.5	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 18-Mar-2016 1651 by 317		Batch: S40804	
Total Recoverable Beryllium		**< 0.5**	0.5	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1838 by 317		Batch: S40804	
Total Recoverable Cadmium		**< 0.5**	0.5	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1838 by 317		Batch: S40804	
Total Recoverable Chromium		**< 10**	10	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1838 by 317		Batch: S40804	
Total Recoverable Copper		**4.1**	0.5	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1838 by 317		Batch: S40804	
Total Recoverable Lead		**1.1**	0.5	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1838 by 317		Batch: S40804	
Total Recoverable Molybdenum		**< 8**	8	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1838 by 317		Batch: S40804	
Total Recoverable Nickel		**3.2**	0.5	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1838 by 317		Batch: S40804	
Total Recoverable Selenium		**< 5**	5	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1838 by 317		Batch: S40804	
Total Recoverable Silver		**< 0.5**	0.5	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1838 by 317		Batch: S40804	
Total Recoverable Thallium		**< 0.5**	0.5	**ug/l**	
EPA 200.8	Prep: 17-Mar-2016 0950 by 313	Analyzed: 17-Mar-2016 1838 by 317		Batch: S40804	

AIC No. 200316-5
Sample Identification: Belt Press Influent 11-Mar-2016 0958

Analyte		Result	RL	Units	Qualifier
Total Cyanide		**< 3**	3	**mg/Kg**	
EPA 9010C, 9014	Prep: 18-Mar-2016 0807 by 319	Analyzed: 18-Mar-2016 1601 by 319		Batch: W55281	
Total Recoverable Phenolics		**40**	20	**mg/Kg**	
EPA 9065	Prep: 18-Mar-2016 0733 by 308	Analyzed: 18-Mar-2016 1342 by 308		Batch: W55280	

AMERICAN INTERPLEX CORPORATION LABORATORIES

Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

ANALYTICAL RESULTS

AIC No. 200316-5 (Continued)
Sample Identification: Belt Press Influent 11-Mar-2016 0958

Analyte		Result	RL	Units	Qualifier
Total Solids		**4.5**	0.01	**wt %**	
SM 2540 G 1997	Prep: 17-Mar-2016 1042 by 100	Analyzed: 18-Mar-2016 1147 by 100		Batch: W55269	
Antimony		**< 3**	3	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 22-Mar-2016 1937 by 317		Batch: S40820	
Arsenic		**< 5**	5	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 23-Mar-2016 1358 by 317		Batch: S40820	
Beryllium		**0.038**	0.03	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 23-Mar-2016 1358 by 317		Batch: S40820	
Cadmium		**< 0.4**	0.4	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 22-Mar-2016 1937 by 317		Batch: S40820	
Chromium		**7.4**	0.7	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 22-Mar-2016 1937 by 317		Batch: S40820	
Copper		**70**	0.6	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 22-Mar-2016 1937 by 317		Batch: S40820	
Lead		**< 4**	4	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 22-Mar-2016 1937 by 317		Batch: S40820	
Molybdenum		**4.0**	0.8	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 22-Mar-2016 1937 by 317		Batch: S40820	
Nickel		**13**	1	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 22-Mar-2016 1937 by 317		Batch: S40820	
Selenium		**< 7**	7	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 22-Mar-2016 1937 by 317		Batch: S40820	
Silver		**1.2**	0.7	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 22-Mar-2016 1937 by 317		Batch: S40820	
Thallium		**< 4**	4	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 22-Mar-2016 1937 by 317		Batch: S40820	
Zinc		**200**	0.2	**mg/Kg**	
EPA 3051A, 6010C	Prep: 21-Mar-2016 1355 by 313	Analyzed: 22-Mar-2016 1937 by 317		Batch: S40820	
Mercury		**0.37**	0.1	**mg/Kg**	
EPA 7471B	Prep: 17-Mar-2016 1438 by 313	Analyzed: 18-Mar-2016 1123 by 313		Batch: S40808	

AMERICAN INTERPLEX CORPORATION
LABORATORIES

Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Total Solids	200316-5	4.5 wt %			17Mar16 1042 by 100	18Mar16 1147 by 100		
Batch: W55269	Duplicate	4.5 wt %	0.285	10.0	17Mar16 1042 by 100	18Mar16 1147 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	108	85.0-115			W55264	17Mar16 0750 by 308	17Mar16 1150 by 308		
Total Cyanide	0.1 mg/l	92.2	85.0-115			W55270	17Mar16 1045 by 319	17Mar16 1644 by 308		
Total Recoverable Zinc	0.5 mg/l	86.8	85.0-115			S40816	18Mar16 1408 by 317	22Mar16 1015 by 317		
Total Recoverable Antimony	0.05 mg/l	90.7	85.0-115			S40804	17Mar16 0950 by 313	17Mar16 1821 by 317		
Total Recoverable Arsenic	0.05 mg/l	99.0	85.0-115			S40804	17Mar16 0950 by 313	18Mar16 1639 by 317		
Total Recoverable Beryllium	0.05 mg/l	99.2	85.0-115			S40804	17Mar16 0950 by 313	17Mar16 1821 by 317		
Total Recoverable Cadmium	0.05 mg/l	102	85.0-115			S40804	17Mar16 0950 by 313	17Mar16 1821 by 317		
Total Recoverable Chromium	0.05 mg/l	105	85.0-115			S40804	17Mar16 0950 by 313	17Mar16 1821 by 317		
Total Recoverable Copper	0.05 mg/l	103	85.0-115			S40804	17Mar16 0950 by 313	17Mar16 1821 by 317		
Total Recoverable Lead	0.05 mg/l	101	85.0-115			S40804	17Mar16 0950 by 313	17Mar16 1821 by 317		
Total Recoverable Molybdenum	0.05 mg/l	99.6	85.0-115			S40804	17Mar16 0950 by 313	17Mar16 1821 by 317		
Total Recoverable Nickel	0.05 mg/l	103	85.0-115			S40804	17Mar16 0950 by 313	17Mar16 1821 by 317		
Total Recoverable Selenium	0.05 mg/l	103	85.0-115			S40804	17Mar16 0950 by 313	17Mar16 1821 by 317		
Total Recoverable Silver	0.02 mg/l	102	85.0-115			S40804	17Mar16 0950 by 313	17Mar16 1821 by 317		
Total Recoverable Thallium	0.05 mg/l	105	85.0-115			S40804	17Mar16 0950 by 313	17Mar16 1821 by 317		
Total Cyanide	0.500 mg/Kg	86.8	85.0-115			W55281	18Mar16 0811 by 319	18Mar16 1559 by 319		
Total Recoverable Phenolics	10.0 mg/Kg	105	85.0-115			W55280	18Mar16 0734 by 308	18Mar16 1341 by 308		
Antimony	500 mg/Kg	94.6	85.0-115			S40820	21Mar16 1355 by 313	22Mar16 1735 by 317		
Arsenic	500 mg/Kg	98.8	85.0-115			S40820	21Mar16 1355 by 313	23Mar16 1313 by 317		
Beryllium	50.0 mg/Kg	98.4	85.0-115			S40820	21Mar16 1355 by 313	23Mar16 1313 by 317		
Cadmium	500 mg/Kg	94.6	85.0-115			S40820	21Mar16 1355 by 313	22Mar16 1735 by 317		
Chromium	50.0 mg/Kg	92.3	85.0-115			S40820	21Mar16 1355 by 313	22Mar16 1735 by 317		
Copper	50.0 mg/Kg	90.6	85.0-115			S40820	21Mar16 1355 by 313	22Mar16 1735 by 317		
Lead	500 mg/Kg	95.8	85.0-115			S40820	21Mar16 1355 by 313	22Mar16 1735 by 317		
Molybdenum	50.0 mg/Kg	90.0	85.0-115			S40820	21Mar16 1355 by 313	22Mar16 1735 by 317		
Nickel	50.0 mg/Kg	93.6	85.0-115			S40820	21Mar16 1355 by 313	22Mar16 1735 by 317		
Selenium	500 mg/Kg	92.3	85.0-115			S40820	21Mar16 1355 by 313	22Mar16 1735 by 317		
Silver	10.0 mg/Kg	103	85.0-115			S40820	21Mar16 1355 by 313	22Mar16 1735 by 317		
Thallium	500 mg/Kg	92.8	85.0-115			S40820	21Mar16 1355 by 313	22Mar16 1735 by 317		
Zinc	50.0 mg/Kg	91.5	85.0-115			S40820	21Mar16 1355 by 313	22Mar16 1735 by 317		
Mercury	1.25 mg/Kg	99.1	85.0-115			S40808	17Mar16 1438 by 313	18Mar16 1030 by 313		

AMERICAN INTERPLEX CORPORATION
LABORATORIES

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
Total Recoverable Phenolics	200316-3	0.1 mg/l	99.9	80.0-120	W55264	17Mar16 0750 by 308	17Mar16 1152 by 308		
	200316-3	0.1 mg/l	93.7	80.0-120	W55264	17Mar16 0750 by 308	17Mar16 1153 by 308		
	Relative Percent Difference:		5.86	10.0	W55264				
Total Cyanide	200316-3	0.1 mg/l	81.6	75.0-125	W55270	17Mar16 1045 by 319	17Mar16 1647 by 308		
	200316-3	0.1 mg/l	81.0	75.0-125	W55270	17Mar16 1045 by 319	17Mar16 1649 by 308		
	Relative Percent Difference:		0.738	20.0	W55270				
Total Recoverable Zinc	200338-7	0.5 mg/l	88.8	75.0-125	S40816	18Mar16 1408 by 317	22Mar16 1018 by 317		
	200338-7	0.5 mg/l	91.0	75.0-125	S40816	18Mar16 1408 by 317	22Mar16 1020 by 317		
	Relative Percent Difference:		2.39	20.0	S40816				
Total Recoverable Antimony	200316-4	0.05 mg/l	95.7	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1826 by 317		
	200316-4	0.05 mg/l	93.3	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1832 by 317		
	Relative Percent Difference:		2.50	20.0	S40804				
Total Recoverable Arsenic	200316-4	0.05 mg/l	98.2	75.0-125	S40804	17Mar16 0950 by 313	18Mar16 1643 by 317		
	200316-4	0.05 mg/l	96.2	75.0-125	S40804	17Mar16 0950 by 313	18Mar16 1647 by 317		
	Relative Percent Difference:		1.99	20.0	S40804				
Total Recoverable Beryllium	200316-4	0.05 mg/l	97.1	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1826 by 317		
	200316-4	0.05 mg/l	95.5	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1832 by 317		
	Relative Percent Difference:		1.64	20.0	S40804				
Total Recoverable Cadmium	200316-4	0.05 mg/l	104	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1826 by 317		
	200316-4	0.05 mg/l	102	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1832 by 317		
	Relative Percent Difference:		2.28	20.0	S40804				
Total Recoverable Chromium	200316-4	0.05 mg/l	110	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1826 by 317		
	200316-4	0.05 mg/l	105	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1832 by 317		
	Relative Percent Difference:		4.99	20.0	S40804				
Total Recoverable Copper	200316-4	0.05 mg/l	106	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1826 by 317		
	200316-4	0.05 mg/l	100	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1832 by 317		
	Relative Percent Difference:		5.68	20.0	S40804				
Total Recoverable Lead	200316-4	0.05 mg/l	103	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1826 by 317		
	200316-4	0.05 mg/l	97.7	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1832 by 317		
	Relative Percent Difference:		4.84	20.0	S40804				
Total Recoverable Molybdenum	200316-4	0.05 mg/l	102	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1826 by 317		
	200316-4	0.05 mg/l	102	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1832 by 317		
	Relative Percent Difference:		0.821	20.0	S40804				
Total Recoverable Nickel	200316-4	0.05 mg/l	105	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1826 by 317		
	200316-4	0.05 mg/l	99.7	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1832 by 317		
	Relative Percent Difference:		4.90	20.0	S40804				
Total Recoverable Selenium	200316-4	0.05 mg/l	105	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1826 by 317		
	200316-4	0.05 mg/l	101	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1832 by 317		
	Relative Percent Difference:		4.05	20.0	S40804				
Total Recoverable Silver	200316-4	0.02 mg/l	100	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1826 by 317		
	200316-4	0.02 mg/l	98.3	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1832 by 317		
	Relative Percent Difference:		2.05	20.0	S40804				
Total Recoverable Thallium	200316-4	0.05 mg/l	107	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1826 by 317		
	200316-4	0.05 mg/l	102	75.0-125	S40804	17Mar16 0950 by 313	17Mar16 1832 by 317		
	Relative Percent Difference:		4.28	20.0	S40804				
Total Cyanide	200316-5	1.00 mg/Kg	76.2	75.0-125	W55281	18Mar16 0811 by 319	18Mar16 1602 by 319		
	200316-5	0.965 mg/Kg	81.6	75.0-125	W55281	18Mar16 0811 by 319	18Mar16 1604 by 319		
	Relative Percent Difference:		7.62	20.0	W55281				
Total Recoverable Phenolics	200316-5	9.42 mg/Kg	91.5	80.0-120	W55280	18Mar16 0734 by 308	18Mar16 1343 by 308		
	200316-5	9.55 mg/Kg	94.6	80.0-120	W55280	18Mar16 0734 by 308	18Mar16 1343 by 308		
	Relative Percent Difference:		2.67	10.0	W55280				

AMERICAN INTERPLEX CORPORATION LABORATORIES

Springdale Water Utilities
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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Antimony	200353-1	499 mg/Kg	90.6	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1741 by 317		
	200353-1	499 mg/Kg	90.2	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1748 by 317		
	Relative Percent Difference:		0.429	20.0	S40820				
Arsenic	200353-1	499 mg/Kg	97.7	75.0-125	S40820	21Mar16 1355 by 313	23Mar16 1318 by 317		
	200353-1	499 mg/Kg	96.5	75.0-125	S40820	21Mar16 1355 by 313	23Mar16 1323 by 317		
	Relative Percent Difference:		1.21	20.0	S40820				
Beryllium	200353-1	49.9 mg/Kg	96.7	75.0-125	S40820	21Mar16 1355 by 313	23Mar16 1318 by 317		
	200353-1	49.9 mg/Kg	95.9	75.0-125	S40820	21Mar16 1355 by 313	23Mar16 1323 by 317		
	Relative Percent Difference:		0.824	20.0	S40820				
Cadmium	200353-1	499 mg/Kg	95.4	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1756 by 317		
	200353-1	499 mg/Kg	97.4	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1801 by 317		
	Relative Percent Difference:		2.07	20.0	S40820				
Chromium	200353-1	49.9 mg/Kg	103	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1741 by 317		
	200353-1	49.9 mg/Kg	89.7	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1748 by 317		
	Relative Percent Difference:		10.5	20.0	S40820				
Copper	200353-1	49.9 mg/Kg	88.9	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1741 by 317		
	200353-1	49.9 mg/Kg	87.6	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1748 by 317		
	Relative Percent Difference:		1.36	20.0	S40820				
Lead	200353-1	499 mg/Kg	93.5	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1741 by 317		
	200353-1	499 mg/Kg	93.1	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1748 by 317		
	Relative Percent Difference:		0.464	20.0	S40820				
Molybdenum	200353-1	49.9 mg/Kg	88.4	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1741 by 317		
	200353-1	49.9 mg/Kg	88.2	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1748 by 317		
	Relative Percent Difference:		0.211	20.0	S40820				
Nickel	200353-1	49.9 mg/Kg	89.9	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1741 by 317		
	200353-1	49.9 mg/Kg	92.7	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1748 by 317		
	Relative Percent Difference:		2.27	20.0	S40820				
Selenium	200353-1	499 mg/Kg	84.9	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1741 by 317		
	200353-1	499 mg/Kg	83.9	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1748 by 317		
	Relative Percent Difference:		1.14	20.0	S40820				
Silver	200353-1	9.97 mg/Kg	101	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1741 by 317		
	200353-1	9.98 mg/Kg	101	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1748 by 317		
	Relative Percent Difference:		0.0149	20.0	S40820				
Thallium	200353-1	499 mg/Kg	88.9	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1741 by 317		
	200353-1	499 mg/Kg	88.1	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1748 by 317		
	Relative Percent Difference:		0.857	20.0	S40820				
Zinc	200353-1	49.9 mg/Kg	92.8	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1741 by 317		
	200353-1	49.9 mg/Kg	92.9	75.0-125	S40820	21Mar16 1355 by 313	22Mar16 1748 by 317		
	Relative Percent Difference:		0.00574	20.0	S40820				
Mercury	200204-1	2.46 mg/Kg	90.2	70.0-130	S40808	17Mar16 1438 by 313	18Mar16 1033 by 313		
	200204-1	2.48 mg/Kg	87.1	70.0-130	S40808	17Mar16 1438 by 313	18Mar16 1036 by 313		
	Relative Percent Difference:		3.55	20.0	S40808				

AMERICAN INTERPLEX CORPORATION LABORATORIES

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	W55264-1	17Mar16 0750 by 308	17Mar16 1149 by 308	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W55270-1	17Mar16 1045 by 319	17Mar16 1642 by 308	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S40816-1	18Mar16 1408 by 317	22Mar16 1012 by 317	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S40804-1	17Mar16 0950 by 313	17Mar16 1815 by 317	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S40804-1	17Mar16 0950 by 313	18Mar16 1635 by 317	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S40804-1	17Mar16 0950 by 313	17Mar16 1815 by 317	
Total Recoverable Cadmium	< 0.0002 mg/l	0.0002	0.0002	S40804-1	17Mar16 0950 by 313	17Mar16 1815 by 317	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S40804-1	17Mar16 0950 by 313	17Mar16 1815 by 317	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S40804-1	17Mar16 0950 by 313	17Mar16 1815 by 317	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S40804-1	17Mar16 0950 by 313	17Mar16 1815 by 317	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S40804-1	17Mar16 0950 by 313	17Mar16 1815 by 317	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S40804-1	17Mar16 0950 by 313	17Mar16 1815 by 317	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S40804-1	17Mar16 0950 by 313	17Mar16 1815 by 317	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S40804-1	17Mar16 0950 by 313	17Mar16 1815 by 317	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S40804-1	17Mar16 0950 by 313	17Mar16 1815 by 317	
Total Cyanide	< 0.1 mg/Kg	0.1	0.1	W55281-1	18Mar16 0811 by 319	18Mar16 1557 by 319	
Total Recoverable Phenolics	< 0.5 mg/Kg	0.5	0.5	W55280-1	18Mar16 0734 by 308	18Mar16 1340 by 308	
Total Solids	< 0.01 wt %	0.01	0.01	W55269-1	17Mar16 1042 by 100	18Mar16 1147 by 100	
Antimony	< 3 mg/Kg	3	3	S40820-1	21Mar16 1355 by 313	22Mar16 1730 by 317	
Arsenic	< 5 mg/Kg	5	5	S40820-1	21Mar16 1355 by 313	23Mar16 1308 by 317	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S40820-1	21Mar16 1355 by 313	23Mar16 1308 by 317	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S40820-1	21Mar16 1355 by 313	22Mar16 1730 by 317	
Chromium	< 0.7 mg/Kg	0.7	0.7	S40820-1	21Mar16 1355 by 313	22Mar16 1730 by 317	
Copper	< 0.6 mg/Kg	0.6	0.6	S40820-1	21Mar16 1355 by 313	22Mar16 1730 by 317	
Lead	< 4 mg/Kg	4	4	S40820-1	21Mar16 1355 by 313	22Mar16 1730 by 317	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S40820-1	21Mar16 1355 by 313	22Mar16 1730 by 317	
Nickel	< 1 mg/Kg	1	1	S40820-1	21Mar16 1355 by 313	22Mar16 1730 by 317	
Selenium	< 7 mg/Kg	7	7	S40820-1	21Mar16 1355 by 313	22Mar16 1730 by 317	
Silver	< 0.7 mg/Kg	0.7	0.7	S40820-1	21Mar16 1355 by 313	22Mar16 1730 by 317	
Thallium	< 4 mg/Kg	4	4	S40820-1	21Mar16 1355 by 313	22Mar16 1730 by 317	
Zinc	< 0.2 mg/Kg	0.2	0.2	S40820-1	21Mar16 1355 by 313	22Mar16 1730 by 317	
Mercury	< 0.1 mg/Kg	0.1	0.1	S40808-1	17Mar16 1438 by 313	18Mar16 1026 by 313	

AMERICAN INTERPLEX CORPORATION
LABORATORIES

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: SPRINGDALE WATER UTILITIES
Project Reference: TABLE III
Project Manager: BRAD STEWART
Sampled By: OPERATIONS STAFF

PO No.

AIC CONTROL NO: 200316
AIC PROPOSAL NO:
Carrier: FED EX
Received Temperature C: 0.1

AIC No.	Sample Identification	Date/Time Collected	GRAB	COMP	MATRIX: WATER	SOIL	SLUDGE	NO OF BOTTLES	ANALYSES REQUESTED: CYANIDE	PHENOLICS	PP METALS + Mo (No Hg)	PHENOLICS, C.N.I.T., PP METALS + Mo, T. SOLIDS	Remarks
1	INFLUENT	1600, 2200, 0400, 1000 03/07-08/16	✓	✓	✓			1	✓				
1	INFLUENT	1600, 2600, 0400, 1000 03/07-08/16	✓		✓			1		✓			
2	INFLUENT	1600 - 1600 03/07-08/16		✓	✓			1			✓		
3	EFFLUENT	0800, 1400, 2000, 0200 03/10-11/16	✓		✓			1	✓				
3	EFFLUENT	0800, 1400, 2000, 0200 03/10-11/16	✓		✓			1		✓			
4	EFFLUENT	0800 - 0800 03/10-11/16		✓	✓			1			✓		
5	BELT PRESS INFLUENT	0958 03/11/16	✓				✓	1				✓	Field pH calibration
		Container Type							P	G	P	G	on _____ @ _____
		Preservative							B	S	N	NO	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 A=$(NH_4)_2SO_4$, NH_4OH

Turnaround Time Requested: (Please circle)
(NORMAL) or EXPEDITED IN ____ DAYS
Expedited results requested by: N/A
Who should AIC contact with questions: BRAD STEWART
Phone: 479-756-3659 Fax: 479-750-7195
Report Attention to: BRAD STEWART
Report Address to: P.O. BOX 769
SPRINGDALE, AR
Email Address:

Relinquished By:	Date/Time	Received By:	Date/Time
Josh Weaver	03/14/16-1000		
Relinquished By:	Date/Time	Received in Lab By: D. Brown	Date/Time 3-15-16 1005

Comments: 7825 8697 5550

9/2014 FORM 0060

CERTIFIED MAIL™

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Springdale, AR 72765-0769

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