



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**

June 13, 2013

Dear Sir or Madame:

Enclosed please find the results of second quarter Ceriodaphnia dubia and Pimephales promelas analyses, and second quarter Table III analyses conducted on Springdale Water Utilities' wastewater treatment facility influent, effluent, and sludge (belt press influent) for 2013. 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 Ward
Executive Director

JEE/jee

Enclosures

Cc: Jennifer Enos, SWU
John Fazio, ADEQ
Mary Barnett, ADEQ
File

Springdale Water Utilities

Springdale, Arkansas

System Overflow Report for May 2013

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
05/01/2013	7:00 am – 8:00 am	1 hr.	1904 Cypress Place Johnson, AR	25 gal	Grease	Jet-Vac/Hydro Cleaned	None	Manhole overflow was absorbed into ground.
05/09/2013	6:00 pm – 7:00 pm	1 hr.	Intersection of Chapman Ave. & Jean St. Springdale, AR	150 gal	Grease	Jet-Vac	None	Overflow ran off of pavement into grassy area and absorbed into ground.
05/11/2013	10:00 am – 2:00 pm	4 hrs.	2526 Amhurst Cir. Springdale, AR	1000 gal	Grease	Jet-Vac/Spread Lime on Affected Area	None	Overflow ran into drainage ditch and was absorbed into ground.
05/12/2013	3:00 pm – 5:00 pm	2 hrs.	328 W. Randal Wobbe Rd. Springdale, AR	20000 gal	Grease	Jet-Vac/used vac truck to collect solids/Spread Lime on Affected Area	None	Overflow went into an unnamed stream that connects to Spring Creek.

"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

Keith A. Ward

Date

June 13, 2013

Springdale Water Utilities

Springdale, Arkansas

System Overflow Report for May 2013

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
05/21/2013	11:00 am- 11:30 am	30 mins.	3203 Luvene Ave. Springdale, AR	25 gal	Grease	Disinfected and Deodorized	None	Sanitary sewer backed up into home.

"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 A. Ward

Date June 13, 2013



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 10, 2013. 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.

A handwritten signature in cursive script that reads 'Steve Bradford'.

Steve Bradford
Deputy Laboratory Director

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:

Two (2) water sample(s) received on May 10, 2013
Table III
P.O. No. 001741100

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:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
167301-1	INFLUENT 05/06-07/13 1100-0900	07-May-2013 0900	
167301-2	INFLUENT 05/06-07/13 1100, 1700, 2300, 0600	07-May-2013 0600	

Case Narrative:

There were no qualifiers for this data and all samples met quality control criteria.

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", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

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ANALYTICAL RESULTS

AIC No. 167301-1

Sample Identification: INFLUENT 05/06-07/13 1100-0900

Analyte	Result	RL	Units	Qualifier
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 14-May-2013 2016 by 305		Batch: S34614	
Total Recoverable Arsenic EPA 200.8	0.71	0.5	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 14-May-2013 2016 by 305		Batch: S34614	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 14-May-2013 2016 by 305		Batch: S34614	
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 14-May-2013 2016 by 305		Batch: S34614	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 14-May-2013 2016 by 305		Batch: S34614	
Total Recoverable Copper EPA 200.8	21	0.5	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 14-May-2013 2016 by 305		Batch: S34614	
Total Recoverable Lead EPA 200.8	1.1	0.5	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 15-May-2013 1755 by 305		Batch: S34614	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 14-May-2013 2016 by 305		Batch: S34614	
Total Recoverable Nickel EPA 200.8	7.2	0.5	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 15-May-2013 1755 by 305		Batch: S34614	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 14-May-2013 2016 by 305		Batch: S34614	
Total Recoverable Silver EPA 200.8	0.93	0.5	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 14-May-2013 2016 by 305		Batch: S34614	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 14-May-2013 2016 by 305		Batch: S34614	
Total Recoverable Zinc EPA 200.8	83	20	ug/l	
Prep: 13-May-2013 1005 by 271	Analyzed: 14-May-2013 2016 by 305		Batch: S34614	

AIC No. 167301-2

Sample Identification: INFLUENT 05/06-07/13 1100, 1700, 2300, 0600

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	190	5	ug/l	
Prep: 13-May-2013 0829 by 308	Analyzed: 13-May-2013 1530 by 308		Batch: W43528	
Total Cyanide SM 4500-CN C,E	< 10	10	ug/l	
Prep: 14-May-2013 0859 by 308	Analyzed: 15-May-2013 1033 by 308		Batch: W43545	



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LABORATORY CONTROL SAMPLE RESULTS

<u>Analyte</u>	<u>Spike Amount</u>	<u>%</u>	<u>Limits</u>	<u>RPD</u>	<u>Limit</u>	<u>Batch</u>	<u>Preparation Date</u>	<u>Analysis Date</u>	<u>Dil</u>	<u>Qual</u>
Total Recoverable Phenolics	0.1 mg/l	90.3	85.0-115			W43528	13May13 0830 by 308	13May13 1530 by 308		
Total Cyanide	0.1 mg/l	93.2	85.0-115			W43545	14May13 0900 by 308	15May13 1024 by 308		
Total Recoverable Antimony	0.05 mg/l	87.2	85.0-115			S34614	13May13 1005 by 271	14May13 1917 by 305		
Total Recoverable Arsenic	0.05 mg/l	95.4	85.0-115			S34614	13May13 1005 by 271	14May13 1917 by 305		
Total Recoverable Beryllium	0.05 mg/l	103	85.0-115			S34614	13May13 1005 by 271	15May13 1728 by 305		
Total Recoverable Cadmium	0.05 mg/l	92.0	85.0-115			S34614	13May13 1005 by 271	14May13 1917 by 305		
Total Recoverable Chromium	0.05 mg/l	111	85.0-115			S34614	13May13 1005 by 271	15May13 1728 by 305		
Total Recoverable Copper	0.05 mg/l	93.7	85.0-115			S34614	13May13 1005 by 271	14May13 1917 by 305		
Total Recoverable Lead	0.05 mg/l	111	85.0-115			S34614	13May13 1005 by 271	15May13 1728 by 305		
Total Recoverable Molybdenum	0.05 mg/l	98.2	85.0-115			S34614	13May13 1005 by 271	14May13 1917 by 305		
Total Recoverable Nickel	0.05 mg/l	92.3	85.0-115			S34614	13May13 1005 by 271	14May13 1917 by 305		
Total Recoverable Selenium	0.05 mg/l	97.4	85.0-115			S34614	13May13 1005 by 271	14May13 1917 by 305		
Total Recoverable Silver	0.02 mg/l	94.6	85.0-115			S34614	13May13 1005 by 271	14May13 1917 by 305		
Total Recoverable Thallium	0.05 mg/l	89.9	85.0-115			S34614	13May13 1005 by 271	14May13 1917 by 305		
Total Recoverable Zinc	0.05 mg/l	91.5	85.0-115			S34614	13May13 1005 by 271	14May13 1917 by 305		



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	167326-2	0.1 mg/l	87.9	80.0-120	W43528	13May13 0830 by 308	13May13 1530 by 308		
	167326-2	0.1 mg/l	88.7	80.0-120	W43528	13May13 0830 by 308	13May13 1530 by 308		
	Relative Percent Difference:		0.906		10.0	W43528			
Total Cyanide	167326-1	0.1 mg/l	92.4	75.0-125	W43545	14May13 0900 by 308	15May13 1103 by 308		
	167326-1	0.1 mg/l	93.2	75.0-125	W43545	14May13 0900 by 308	15May13 1105 by 308		
	Relative Percent Difference:		0.830		20.0	W43545			
Total Recoverable Antimony	167282-1	0.05 mg/l	87.6	75.0-125	S34614	13May13 1005 by 271	14May13 1922 by 305		
	167282-1	0.05 mg/l	87.8	75.0-125	S34614	13May13 1005 by 271	14May13 1928 by 305		
	Relative Percent Difference:		0.234		20.0	S34614			
Total Recoverable Arsenic	167282-1	0.05 mg/l	94.9	75.0-125	S34614	13May13 1005 by 271	14May13 1922 by 305		
	167282-1	0.05 mg/l	94.7	75.0-125	S34614	13May13 1005 by 271	14May13 1928 by 305		
	Relative Percent Difference:		0.190		20.0	S34614			
Total Recoverable Beryllium	167282-1	0.05 mg/l	120	75.0-125	S34614	13May13 1005 by 271	14May13 1922 by 305		
	167282-1	0.05 mg/l	118	75.0-125	S34614	13May13 1005 by 271	14May13 1928 by 305		
	Relative Percent Difference:		2.19		20.0	S34614			
Total Recoverable Cadmium	167282-1	0.05 mg/l	91.2	75.0-125	S34614	13May13 1005 by 271	14May13 1922 by 305		
	167282-1	0.05 mg/l	90.9	75.0-125	S34614	13May13 1005 by 271	14May13 1928 by 305		
	Relative Percent Difference:		0.406		20.0	S34614			
Total Recoverable Chromium	167282-1	0.05 mg/l	113	75.0-125	S34614	13May13 1005 by 271	15May13 1733 by 305		
	167282-1	0.05 mg/l	112	75.0-125	S34614	13May13 1005 by 271	15May13 1738 by 305		
	Relative Percent Difference:		0.638		20.0	S34614			
Total Recoverable Copper	167282-1	0.05 mg/l	94.8	75.0-125	S34614	13May13 1005 by 271	14May13 1922 by 305		
	167282-1	0.05 mg/l	93.4	75.0-125	S34614	13May13 1005 by 271	14May13 1928 by 305		
	Relative Percent Difference:		1.39		20.0	S34614			
Total Recoverable Lead	167282-1	0.05 mg/l	114	75.0-125	S34614	13May13 1005 by 271	15May13 1733 by 305		
	167282-1	0.05 mg/l	114	75.0-125	S34614	13May13 1005 by 271	15May13 1738 by 305		
	Relative Percent Difference:		0.289		20.0	S34614			
Total Recoverable Molybdenum	167282-1	0.05 mg/l	101	75.0-125	S34614	13May13 1005 by 271	14May13 1922 by 305		
	167282-1	0.05 mg/l	99.4	75.0-125	S34614	13May13 1005 by 271	14May13 1928 by 305		
	Relative Percent Difference:		1.30		20.0	S34614			
Total Recoverable Nickel	167282-1	0.05 mg/l	93.0	75.0-125	S34614	13May13 1005 by 271	14May13 1922 by 305		
	167282-1	0.05 mg/l	91.3	75.0-125	S34614	13May13 1005 by 271	14May13 1928 by 305		
	Relative Percent Difference:		1.88		20.0	S34614			
Total Recoverable Selenium	167282-1	0.05 mg/l	94.6	75.0-125	S34614	13May13 1005 by 271	14May13 1922 by 305		
	167282-1	0.05 mg/l	94.4	75.0-125	S34614	13May13 1005 by 271	14May13 1928 by 305		
	Relative Percent Difference:		0.220		20.0	S34614			
Total Recoverable Silver	167282-1	0.02 mg/l	78.0	75.0-125	S34614	13May13 1005 by 271	14May13 1922 by 305		
	167282-1	0.02 mg/l	78.3	75.0-125	S34614	13May13 1005 by 271	14May13 1928 by 305		
	Relative Percent Difference:		0.384		20.0	S34614			
Total Recoverable Thallium	167282-1	0.05 mg/l	90.0	75.0-125	S34614	13May13 1005 by 271	14May13 1922 by 305		
	167282-1	0.05 mg/l	89.0	75.0-125	S34614	13May13 1005 by 271	14May13 1928 by 305		
	Relative Percent Difference:		1.13		20.0	S34614			
Total Recoverable Zinc	167282-1	0.05 mg/l	86.6	75.0-125	S34614	13May13 1005 by 271	14May13 1922 by 305		
	167282-1	0.05 mg/l	85.0	75.0-125	S34614	13May13 1005 by 271	14May13 1928 by 305		
	Relative Percent Difference:		1.38		20.0	S34614			



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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	W43528-1	13May13 0830 by 308	13May13 1530 by 308	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W43545-1	14May13 0900 by 308	15May13 1022 by 308	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S34614-1	13May13 1005 by 271	14May13 1912 by 305	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S34614-1	13May13 1005 by 271	14May13 1912 by 305	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S34614-1	13May13 1005 by 271	14May13 1912 by 305	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S34614-1	13May13 1005 by 271	14May13 1912 by 305	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S34614-1	13May13 1005 by 271	15May13 1707 by 305	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S34614-1	13May13 1005 by 271	14May13 1912 by 305	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S34614-1	13May13 1005 by 271	15May13 1707 by 305	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S34614-1	13May13 1005 by 271	14May13 1912 by 305	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S34614-1	13May13 1005 by 271	14May13 1912 by 305	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S34614-1	13May13 1005 by 271	14May13 1912 by 305	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S34614-1	13May13 1005 by 271	14May13 1912 by 305	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S34614-1	13May13 1005 by 271	14May13 1912 by 305	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S34614-1	13May13 1005 by 271	14May13 1912 by 305	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

PAGE 01 OF 01

Client: SPRINGDALE WATER UTILITIES			PO No. 001741100		NO OF BOTTLES	ANALYSES REQUESTED ¹										AIC CONTROL NO: 107301			
Project Reference: TABLE III			SAMPLE MATRIX			PP METALS + MO - Hg	CYANIDE	PHENOLICS											AIC PROPOSAL NO:
Project Manager: BRAD STEWART			WATER						SOIL										
Sampled By: OPERATIONS STAFF			GRA B	COMP															
AIC No.	Sample Identification	Date/Time Collected																	Remarks
1	INFLUENT	05/06-07/13 1100-0900		✓	✓						✓								
2	INFLUENT	05/06-07/13 1100, 1700, 2300, 0600		✓	✓						✓								
2	INFLUENT	05/06-07/13 1100, 1700, 2300, 0600		✓	✓						✓								
Field pH calibration on _____ @ _____ Buffer: _____			Container Type		G	P	G												
			Preservative		N	B	S												
G = Glass NO = none			P = Plastic S = Sulfuric acid pH2		V = VOA vials N = Nitric acid pH2		H = HCl to pH2 B = NaOH to pH12		T = Sodium Thiosulfate Z = Zinc acetate										
Turnaround Time Requested: (Please circle) (NORMAL) or EXPEDITED IN _____ DAYS					Relinquished By: Josh Weava			Date/Time: 05/08/13-0900			Received By:		Date/Time						
Expedited results requested by: N/A					Relinquished By:			Date/Time:			Received in Lab By: [Signature]		Date/Time: 5-10-13 1130						
Who should AIC contact with questions: BRAD STEWART					Comments:														
Phone: 479-756-3659 Fax: 479-750-7195																			
Report Attention to: BRAD STEWART																			
Report Address to: P.O. BOX 769																			
SPRINGDALE, AR 72764																			



Springdale Water Utilities
ATTN: Mr. Brad Stewart
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Springdale, AR 72762

This report contains the analytical results and supporting information for samples submitted on May 14, 2013. 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



Springdale Water Utilities
Post Office Box 769
Springdale, AR 72762

SAMPLE INFORMATION

Project Description:

Two (2) water and one (1) sludge sample(s) received on May 14, 2013
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:

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Sampled Date/Time</u>	<u>Notes</u>
167377-1	Effluent 05/09/13 0000,0600,1800,2400	09-May-2013 2359	
167377-2	Effluent 05/09/13 0000,0600,1800,2400	09-May-2013 2359	
167377-3	Belt Press Inf 05/10/13 0800	10-May-2013 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", 21st edition.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

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ANALYTICAL RESULTS
AIC No. 167377-1
Sample Identification: Effluent 05/09/13 0000,0600,1800,2400

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	0.038	0.005	mg/l	
Prep: 16-May-2013 0830 by 308	Analyzed: 16-May-2013 1500 by 308		Batch: W43583	
Total Cyanide SM 4500-CN C,E	< 0.01	0.01	mg/l	
Prep: 16-May-2013 0849 by 308	Analyzed: 17-May-2013 1559 by 302		Batch: W43584	

AIC No. 167377-2
Sample Identification: Effluent 05/09/13 0000,0600,1800,2400

Analyte	Result	RL	Units	Qualifier
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 17-May-2013 1514 by 305		Batch: S34635	
Total Recoverable Arsenic EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 16-May-2013 1652 by 305		Batch: S34635	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 17-May-2013 1514 by 305		Batch: S34635	
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 16-May-2013 1652 by 305		Batch: S34635	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 16-May-2013 1652 by 305		Batch: S34635	
Total Recoverable Copper EPA 200.8	4.9	0.5	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 16-May-2013 1652 by 305		Batch: S34635	
Total Recoverable Lead EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 16-May-2013 1652 by 305		Batch: S34635	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 16-May-2013 1652 by 305		Batch: S34635	
Total Recoverable Nickel EPA 200.8	3.9	0.5	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 16-May-2013 1652 by 305		Batch: S34635	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 17-May-2013 1514 by 305		Batch: S34635	
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 16-May-2013 1652 by 305		Batch: S34635	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 16-May-2013 1652 by 305		Batch: S34635	
Total Recoverable Zinc EPA 200.8	43	20	ug/l	
Prep: 15-May-2013 0915 by 271	Analyzed: 16-May-2013 1652 by 305		Batch: S34635	

AIC No. 167377-3
Sample Identification: Belt Press Inf 05/10/13 0800

Analyte	Result	RL	Units	Qualifier
Total Cyanide EPA 9010C, 9014	< 3	3	mg/Kg	
Prep: 15-May-2013 0841 by 308	Analyzed: 16-May-2013 1006 by 302		Batch: W43568	

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ANALYTICAL RESULTS
AIC No. 167377-3 (Continued)
Sample Identification: Belt Press Inf 05/10/13 0800

<u>Analyte</u>	<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Recoverable Phenolics	100	20	mg/Kg	
EPA 9065	Prep: 15-May-2013 0821 by 308	Analyzed: 15-May-2013 1430 by 308	Batch: W43565	
Total Solids	3.6	0.01	%	
SM 2540 G	Prep: 14-May-2013 1603 by 285	Analyzed: 15-May-2013 0850 by 285	Batch: W43546	
Antimony	< 3	3	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Arsenic	< 5	5	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Beryllium	0.092	0.03	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Cadmium	0.61	0.4	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Chromium	15	0.7	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Copper	110	0.6	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Lead	< 4	4	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Molybdenum	5.3	0.8	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Nickel	22	1	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Selenium	7.0	7	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Silver	2.1	0.7	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Thallium	< 4	4	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Zinc	300	0.2	mg/Kg	
EPA 3051A, 6010C	Prep: 16-May-2013 1012 by 100	Analyzed: 16-May-2013 2012 by 305	Batch: S34648	
Mercury	0.37	0.1	mg/Kg	
EPA 7471B	Prep: 17-May-2013 0813 by 271	Analyzed: 20-May-2013 1211 by 271	Batch: S34654	



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD		Preparation Date	Analysis Date	Dil	Qual
			RPD	Limit				
Total Solids	167350-1	94 %			14May13 0952 by 285	15May13 0850 by 285		
	Batch: W43546 Duplicate	95 %	0.450	10.0	14May13 0952 by 285	15May13 0850 by 285		

LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	87.2	85.0-115			W43583	16May13 0832 by 308	16May13 1500 by 308		
Total Cyanide	0.1 mg/l	86.6	85.0-115			W43584	16May13 0849 by 308	17May13 1648 by 308		
Total Recoverable Antimony	0.05 mg/l	113	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 305		
Total Recoverable Arsenic	0.05 mg/l	99.4	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 305		
Total Recoverable Beryllium	0.05 mg/l	103	85.0-115			S34635	15May13 0915 by 271	17May13 1152 by 270		
Total Recoverable Cadmium	0.05 mg/l	109	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 305		
Total Recoverable Chromium	0.05 mg/l	112	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 305		
Total Recoverable Copper	0.05 mg/l	104	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 305		
Total Recoverable Lead	0.05 mg/l	104	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 305		
Total Recoverable Molybdenum	0.05 mg/l	110	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 270		
Total Recoverable Nickel	0.05 mg/l	103	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 305		
Total Recoverable Selenium	0.05 mg/l	111	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 270		
Total Recoverable Silver	0.02 mg/l	99.4	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 305		
Total Recoverable Thallium	0.05 mg/l	108	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 305		
Total Recoverable Zinc	0.05 mg/l	109	85.0-115			S34635	15May13 0915 by 271	16May13 1529 by 305		
Total Cyanide	0.500 mg/Kg	90.5	85.0-115			W43568	15May13 0841 by 308	16May13 0958 by 302		
Total Recoverable Phenolics	10.0 mg/Kg	87.2	85.0-115			W43565	15May13 0822 by 308	15May13 1430 by 308		
Antimony	500 mg/Kg	98.1	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Arsenic	500 mg/Kg	102	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Beryllium	50.0 mg/Kg	92.4	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Cadmium	500 mg/Kg	97.3	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Chromium	50.0 mg/Kg	101	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Copper	50.0 mg/Kg	99.8	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Lead	500 mg/Kg	96.2	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Molybdenum	50.0 mg/Kg	103	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Nickel	50.0 mg/Kg	100	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Selenium	500 mg/Kg	95.1	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Silver	10.0 mg/Kg	90.7	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Thallium	500 mg/Kg	104	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Zinc	50.0 mg/Kg	93.3	85.0-115			S34648	16May13 1012 by 100	17May13 1550 by 305		
Mercury	1.25 mg/Kg	101	85.0-115			S34654	17May13 0814 by 271	20May13 0848 by 271		



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	167355-1	0.1 mg/l	98.3	80.0-120	W43583	16May13 0832 by 308	16May13 1500 by 308		
	167355-1	0.1 mg/l	101	80.0-120	W43583	16May13 0832 by 308	16May13 1500 by 308		
	Relative Percent Difference:		2.15	10.0		W43583			
Total Cyanide	167355-1	0.1 mg/l	76.4	75.0-125	W43584	16May13 0849 by 308	17May13 1552 by 302		
	167355-1	0.1 mg/l	81.1	75.0-125	W43584	16May13 0849 by 308	17May13 1554 by 302		
	Relative Percent Difference:		5.59	20.0		W43584			
Total Recoverable Antimony	167339-1	0.05 mg/l	113	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	113	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		0.0789	20.0		S34635			
Total Recoverable Arsenic	167339-1	0.05 mg/l	98.3	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	98.5	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		0.184	20.0		S34635			
Total Recoverable Beryllium	167339-1	0.05 mg/l	116	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	113	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		2.20	20.0		S34635			
Total Recoverable Cadmium	167339-1	0.05 mg/l	109	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	109	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		0.733	20.0		S34635			
Total Recoverable Chromium	167339-1	0.05 mg/l	112	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	111	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		1.02	20.0		S34635			
Total Recoverable Copper	167339-1	0.05 mg/l	103	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	103	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		0.101	20.0		S34635			
Total Recoverable Lead	167339-1	0.05 mg/l	105	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	106	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		0.434	20.0		S34635			
Total Recoverable Molybdenum	167339-1	0.05 mg/l	124	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	122	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		1.45	20.0		S34635			
Total Recoverable Nickel	167339-1	0.05 mg/l	102	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	103	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		0.493	20.0		S34635			
Total Recoverable Selenium	167339-1	0.05 mg/l	114	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	113	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		1.17	20.0		S34635			
Total Recoverable Silver	167339-1	0.02 mg/l	98.6	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.02 mg/l	98.3	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		0.334	20.0		S34635			
Total Recoverable Thallium	167339-1	0.05 mg/l	109	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	110	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		1.43	20.0		S34635			
Total Recoverable Zinc	167339-1	0.05 mg/l	108	75.0-125	S34635	15May13 0915 by 271	16May13 1535 by 305		
	167339-1	0.05 mg/l	108	75.0-125	S34635	15May13 0915 by 271	16May13 1540 by 305		
	Relative Percent Difference:		0.551	20.0		S34635			
Total Cyanide	167353-2	0.991 mg/Kg	89.5	75.0-125	W43568	15May13 0841 by 308	16May13 1001 by 302		
	167353-2	0.997 mg/Kg	89.8	75.0-125	W43568	15May13 0841 by 308	16May13 1003 by 302		
	Relative Percent Difference:		0.167	20.0		W43568			
Total Recoverable Phenolics	167353-2	9.66 mg/Kg	110	80.0-120	W43565	15May13 0822 by 308	15May13 1430 by 308		
	167353-2	9.69 mg/Kg	103	80.0-120	W43565	15May13 0822 by 308	15May13 1430 by 308		
	Relative Percent Difference:		4.58	10.0		W43565			



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Antimony	167352-5	500 mg/Kg	81.2	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		
	167352-5	499 mg/Kg	81.4	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		
	Relative Percent Difference:		0.292	20.0	S34648				
Arsenic	167352-5	500 mg/Kg	93.8	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		
	167352-5	499 mg/Kg	93.6	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		
	Relative Percent Difference:		0.200	20.0	S34648				
Beryllium	167352-5	50.0 mg/Kg	87.2	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		
	167352-5	49.9 mg/Kg	87.4	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		
	Relative Percent Difference:		0.258	20.0	S34648				
Cadmium	167352-5	500 mg/Kg	89.0	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		
	167352-5	499 mg/Kg	89.0	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		
	Relative Percent Difference:		0.0246	20.0	S34648				
Chromium	167352-5	50.0 mg/Kg	-	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		X
	167352-5	49.9 mg/Kg	-	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		X
	Relative Percent Difference:		0.0150	20.0	S34648				
Copper	167352-5	50.0 mg/Kg	-	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		X
	167352-5	49.9 mg/Kg	-	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		X
	Relative Percent Difference:		0.0558	20.0	S34648				
Lead	167352-5	500 mg/Kg	88.2	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		
	167352-5	499 mg/Kg	87.8	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		
	Relative Percent Difference:		0.427	20.0	S34648				
Molybdenum	167352-5	50.0 mg/Kg	84.2	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		
	167352-5	49.9 mg/Kg	86.2	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		
	Relative Percent Difference:		0.769	20.0	S34648				
Nickel	167352-5	50.0 mg/Kg	-	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		X
	167352-5	49.9 mg/Kg	-	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		X
	Relative Percent Difference:		0.608	20.0	S34648				
Selenium	167352-5	500 mg/Kg	89.0	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		
	167352-5	499 mg/Kg	90.8	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		
	Relative Percent Difference:		1.89	20.0	S34648				
Silver	167352-5	9.99 mg/Kg	104	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		
	167352-5	9.97 mg/Kg	108	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		
	Relative Percent Difference:		0.947	20.0	S34648				
Thallium	167352-5	500 mg/Kg	98.6	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		
	167352-5	499 mg/Kg	98.2	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		
	Relative Percent Difference:		0.403	20.0	S34648				
Zinc	167352-5	50.0 mg/Kg	-	75.0-125	S34648	16May13 1012 by 100	17May13 1720 by 305		X
	167352-5	49.9 mg/Kg	-	75.0-125	S34648	16May13 1012 by 100	17May13 1725 by 305		X
	Relative Percent Difference:		0.215	20.0	S34648				
Mercury	167352-6	1.20 mg/Kg	92.0	70.0-130	S34654	17May13 0814 by 271	20May13 0853 by 271		
	167352-6	1.21 mg/Kg	93.0	70.0-130	S34654	17May13 0814 by 271	20May13 0857 by 271		
	Relative Percent Difference:		0.929	20.0	S34654				



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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	W43583-1	16May13 0832 by 308	16May13 1500 by 308	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W43584-1	16May13 0849 by 308	17May13 1546 by 302	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S34635-1	15May13 0915 by 271	16May13 1524 by 305	
Total Cyanide	< 0.1 mg/Kg	0.1	0.1	W43568-1	15May13 0841 by 308	16May13 0956 by 302	
Total Recoverable Phenolics	< 0.5 mg/Kg	0.5	0.5	W43565-1	15May13 0822 by 308	15May13 1430 by 308	
Total Solids	< 0.01 %	0.01	0.01	W43546-1	14May13 0952 by 285	15May13 0850 by 285	
Antimony	< 3 mg/Kg	3	3	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Arsenic	< 5 mg/Kg	5	5	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Chromium	< 0.7 mg/Kg	0.7	0.7	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Copper	< 0.6 mg/Kg	0.6	0.6	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Lead	< 4 mg/Kg	4	4	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Nickel	< 1 mg/Kg	1	1	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Selenium	< 7 mg/Kg	7	7	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Silver	< 0.7 mg/Kg	0.7	0.7	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Thallium	< 4 mg/Kg	4	4	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Zinc	< 0.2 mg/Kg	0.2	0.2	S34648-1	16May13 1012 by 100	16May13 1747 by 305	
Mercury	< 0.1 mg/Kg	0.1	0.1	S34654-1	17May13 0814 by 271	20May13 0844 by 271	

CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

Client: SPRINGDALE WATER UTILITIES			PO No.		No of BOTTLES	Analyses Requested										AIC Control No: 167377			
Project Reference: TABLE III			0017411 00			PHENOLICS	CYANIDE	PP METAL + MO + Hg	PP METAL + MO + Hg								AIC Proposal No:		
Project Manager: BRAD STEWART			Sample Matrix		WATER												SOIL	SOLID	
Sampled By: OPERATIONS STAFF			G R A B	C O M P												Received Temperature °C 2 °C			
AIC No.	Sample Identification	Date/Time Collected													Remarks				
1	EFFLUENT	0000, 0600, 1800, 2400 05/09/13		✓	✓				1	✓									
1	EFFLUENT	0000 - 0600, 1800, 2400 05/09/13		✓	✓				1		✓								
2	EFFLUENT	0000 - 0000 05/09/13		✓	✓				1			✓							
3	BELT PRESS INF.	0800 05/10/13	✓			✓			1	✓	✓		✓						
Container Type													Field pH calibration on _____ @ _____						
Preservative													Buffer:						
G = Glass NO = none			P = Plastic S = Sulfuric acid pH2			V = VOA vials N = Nitric acid pH2			H = HCl to pH2 B = NaOH to pH12			T = Sodium Thiosulfate Z = Zinc acetate							
Turnaround Time Requested: (Please circle) (NORMAL) or EXPEDITED IN _____ DAYS						Relinquished By: <i>Josh Wilson</i>		Date/Time: 05/10/13 - 1030		Received By:		Date/Time							
Expedited results requested by: N/A						Relinquished By:		Date/Time		Received in Lab By: <i>Steve Pulean</i>		Date/Time: 5-14-13 11:40am							
Who should AIC contact with questions: BRAD STEWART						Comments: DO NOT RUN Hg ON EFFLUENT. PLEASE RUN Hg ON BELT PRESS INF.													
Phone: 479-756-3659 Fax: 479-750-7195																			
Report Attention to: BRAD STEWART																			
Report Address to: P.O. BOX 769 SPRINGDALE, AR 72764																			

(9612417) 045 7662 151 27910

Mercury One LTD

Mercury Analysis

Analytical Report
EPA Method 1631E

Report #: 13-1099

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Customer Name:

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

5/16/13

Attention:

Jennefer Enos

Project/PO#

0017413 00

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)	75.3				130515-43
Effluent (Composite samples 1-4)		2.36			130515-44
Field Blank			<0.2		130515-45
Sample Type	Influent	Effluent	Field Blank		
Date Sampled:	5/6-7/13	5/9-10/13	5/9/13		
Date Received:	5/15/13	5/15/13	5/15/13		
Date Prepared:	5/15/13	5/15/13	5/15/13	5/15/13	
Date Analyzed:	5/16/13	5/16/13	5/16/13		
Time Analyzed:	3:23	3:29	3:35		
Dilution Factor	4				QCS/MS/MSD
Method Detection Limit	0.2ng/L				Acceptable Range
QCS (Quality Control Standard)	101%				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

130515-44

106.4%

110.3%

3.6%

Comments:

New Reporting Requirements- Some states now require reporting values between the detection limit (MDL) and the reporting limit (PQL) rather than using a <0.5 value.

***J See Below**

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 NELAC.

West Virginia Cert # 348

Other Codes

North Carolina Cert # 662

Other Comments: J = Estimated result , R = Rejected,

Reason for J or R flag:

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

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

Analytical Research and Data Validation

Analytical Report
EPA Method 1631E

Report #: 13-1099
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The Calibration Range of the Instrument
0.5 to 200 ng/L
The instrument detection Limit for 2013 is 0.06ng/L

swu01 Springdale Water Utilities

Dilutions occur for the following reasons:

1. Sample concentration is over the analytical range of the instrument.
2. Sample contains high solids and must be diluted to avoid interference.
3. Sample foams during purge and the sample is diluted to avoid foam entering the analytical cell.
4. Sample foams and an interference is perceived during analysis, sample is diluted to avoid interference.

3.6%

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: 479-750-3657 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
05/06/13	0700	water	grab	Influent	130515-4 3a
05/06/13	1100	water	grab	Influent → to be composited	130515-4 3b
05/06/13	1500	water	grab	Influent	130515-4 3c
05/07/13	0700	water	grab	Influent	130515-4 3d
05/09/13	0700	water	grab	Effluent	130515-4 4a
05/09/13	1100	water	grab	Effluent → to be composited	130515-4 4b
05/09/13	1500	water	grab	Effluent	130515-4 4c
05/10/13	0700	water	grab	Effluent	130515-4 4d
05/09/13	1100	water		blank	130515-4 45

Relinquished By: Vadul F Date: 05/13/13 Time: 0800

Received By: M. Eboozie Date: 5/15/13 Time: 1325

Relinquished By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Use multiple lines for description if necessary.
Temp

**CITY OF SPRINGDALE WWTF
 PERMIT NO. NPDES AR0022063
 BIOMONITORING REPORTING
 TEST DATE: 05/07/13**

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.	8.56%

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.	6.89%

22415 Retest Number 1

Leave Blank

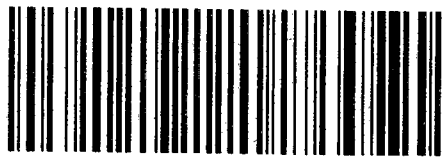
22416 Retest Number 2

Leave Blank

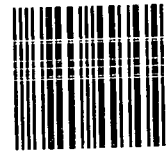


Springdale Water Utilities
 P.O. Box 769
 Springdale, AR 72765-0769

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 72764
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72118

**RETURN RECEIPT
 REQUESTED**

ADEQ
 NPDES Enforcement Section
 5301 Northshore Drive
 North Little Rock, AR 72118-5317

