



AR 0021750
2nd QUARTER

June 27, 2012
Control No. 157274R
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City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

AR0021750

SAMPLE INFORMATION



Project Description:

Two (2) water and one (1) sludge sample(s) received on April 26, 2012
Massard Table III Priority Pollutants

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
157274-1	Massard Influent 4/25/12 0800	25-Apr-2012 0800	
157274-2	Massard Effluent 4/25/12 1300	25-Apr-2012 1300	
157274-3	Massard Raw Biosolid 4/25/12 0815	25-Apr-2012 0815	

Qualifiers:

- D Result is from a secondary dilution factor
- Q Analyte is not within quality control limits

Case Narrative:

Matrix spike for batch S32318 was not performed on any sample associated with AIC Control No. 157274. Matrix spike for batch S32347 was not performed on any sample associated with AIC Control No. 157274.

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", 20th edition, 1998.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

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ANALYTICAL RESULTS

AIC No. 157274-1

Sample Identification: Massard Influent 4/25/12 0800

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	0.12	0.005	mg/l	
Prep: 30-Apr-2012 1002 by 306	Analyzed: 30-Apr-2012 1615 by 306		Batch: W39681	
Total Cyanide SM4500-CN C,E	< 0.01	0.01	mg/l	
Prep: 08-May-2012 1439 by 302	Analyzed: 08-May-2012 2137 by 302		Batch: W39772	
Mercury, low level EPA 245.7	160	18	ng/l	D
Prep: 15-May-2012 0801 by 271	Analyzed: 15-May-2012 2241 by 270		Batch: S32402	Dil: 10
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Arsenic EPA 200.8	0.91	0.5	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Cadmium EPA 200.8	0.52	0.5	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Copper EPA 200.8	14	0.5	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Lead EPA 200.8	5.5	0.5	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Molybdenum EPA 200.8	12	8	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Nickel EPA 200.8	8.8	0.5	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Selenium EPA 200.8	6.7	5	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	
Total Recoverable Zinc EPA 200.8	160	20	ug/l	
Prep: 30-Apr-2012 1102 by 271	Analyzed: 09-May-2012 0001 by 270		Batch: S32331	

AIC No. 157274-2

Sample Identification: Massard Effluent 4/25/12 1300

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	0.015	0.005	mg/l	
Prep: 30-Apr-2012 1002 by 306	Analyzed: 30-Apr-2012 1615 by 306		Batch: W39681	
Total Cyanide SM4500-CN C,E	< 0.01	0.01	mg/l	
Prep: 08-May-2012 1439 by 302	Analyzed: 08-May-2012 2139 by 302		Batch: W39772	

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ANALYTICAL RESULTS

AIC No. 157274-2 (Continued)

Sample Identification: Massard Effluent 4/25/12 1300

<u>Analyte</u>		<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Mercury, low level EPA 245.7	Prep: 15-May-2012 0801 by 271	8.2	1.8	ng/l	
		Analyzed: 15-May-2012 1820 by 270		Batch: S32402	
Total Recoverable Antimony EPA 200.8	Prep: 30-Apr-2012 1102 by 271	< 60	60	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Arsenic EPA 200.8	Prep: 30-Apr-2012 1102 by 271	< 0.5	0.5	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Beryllium EPA 200.8	Prep: 30-Apr-2012 1102 by 271	< 0.5	0.5	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Cadmium EPA 200.8	Prep: 30-Apr-2012 1102 by 271	< 0.5	0.5	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Chromium EPA 200.8	Prep: 30-Apr-2012 1102 by 271	< 10	10	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Copper EPA 200.8	Prep: 30-Apr-2012 1102 by 271	3.2	0.5	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Lead EPA 200.8	Prep: 30-Apr-2012 1102 by 271	< 0.5	0.5	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Molybdenum EPA 200.8	Prep: 30-Apr-2012 1102 by 271	9.6	8	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Nickel EPA 200.8	Prep: 30-Apr-2012 1102 by 271	6.0	0.5	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Selenium EPA 200.8	Prep: 30-Apr-2012 1102 by 271	< 5	5	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Silver EPA 200.8	Prep: 30-Apr-2012 1102 by 271	< 0.5	0.5	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Thallium EPA 200.8	Prep: 30-Apr-2012 1102 by 271	< 0.5	0.5	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	
Total Recoverable Zinc EPA 200.8	Prep: 30-Apr-2012 1102 by 271	32	20	ug/l	
		Analyzed: 09-May-2012 0007 by 270		Batch: S32331	

AIC No. 157274-3

Sample Identification: Massard Raw Biosolid 4/25/12 0815

<u>Analyte</u>		<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Total Cyanide EPA 9010C, 9014	Prep: 02-May-2012 1455 by 306	< 7	7	mg/Kg	
		Analyzed: 04-May-2012 1605 by 306		Batch: W39703	
Total Recoverable Phenolics EPA 9065	Prep: 26-Apr-2012 1359 by 306	450	40	mg/Kg	
		Analyzed: 27-Apr-2012 0950 by 306		Batch: W39662	
Total Solids SM 2540G	Prep: 07-May-2012 0905 by 285	1.6	0.01	%	
		Analyzed: 07-May-2012 1528 by 285		Batch: W39740	
Antimony EPA 3051A, 6010C	Prep: 27-Apr-2012 0946 by 100	< 3	3	mg/Kg	
		Analyzed: 02-May-2012 0912 by 297		Batch: S32318	

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ANALYTICAL RESULTS

AIC No. 157274-3 (Continued)

Sample Identification: Massard Raw Biosolid 4/25/12 0815

<u>Analyte</u>		<u>Result</u>	<u>RL</u>	<u>Units</u>	<u>Qualifier</u>
Arsenic		< 5	5	mg/Kg	
EPA 3051A, 6010C	Prep: 27-Apr-2012 0946 by 100	Analyzed: 02-May-2012 0912 by 297		Batch: S32318	
Beryllium		< 0.03	0.03	mg/Kg	
EPA 3051A, 6010C	Prep: 27-Apr-2012 0946 by 100	Analyzed: 02-May-2012 0912 by 297		Batch: S32318	
Cadmium		3.7	0.4	mg/Kg	
EPA 3051A, 6010C	Prep: 27-Apr-2012 0946 by 100	Analyzed: 02-May-2012 0912 by 297		Batch: S32318	
Chromium		30	0.7	mg/Kg	
EPA 3051A, 6010C	Prep: 27-Apr-2012 0946 by 100	Analyzed: 02-May-2012 0912 by 297		Batch: S32318	
Copper		340	0.6	mg/Kg	
EPA 3051A, 6010C	Prep: 27-Apr-2012 0946 by 100	Analyzed: 02-May-2012 0912 by 297		Batch: S32318	
Lead		49	4	mg/Kg	
EPA 3051A, 6010C	Prep: 27-Apr-2012 0946 by 100	Analyzed: 02-May-2012 0912 by 297		Batch: S32318	
Nickel		190	1	mg/Kg	
EPA 3051A, 6010C	Prep: 27-Apr-2012 0946 by 100	Analyzed: 02-May-2012 0912 by 297		Batch: S32318	
Selenium		< 7	7	mg/Kg	
EPA 3051A, 6010C	Prep: 27-Apr-2012 0946 by 100	Analyzed: 02-May-2012 0912 by 297		Batch: S32318	
Silver		5.8	0.7	mg/Kg	
EPA 3051A, 6010C	Prep: 27-Apr-2012 0946 by 100	Analyzed: 02-May-2012 0912 by 297		Batch: S32318	
Thallium		< 4	4	mg/Kg	
EPA 3051A, 6010C	Prep: 27-Apr-2012 0946 by 100	Analyzed: 02-May-2012 0912 by 297		Batch: S32318	
Zinc		540	0.2	mg/Kg	
EPA 3051A, 6010C	Prep: 02-May-2012 1448 by 100	Analyzed: 03-May-2012 0735 by 270		Batch: S32347	
Mercury		0.84	0.1	mg/Kg	
EPA 7471B	Prep: 27-Apr-2012 1503 by 100	Analyzed: 01-May-2012 1941 by 271		Batch: S32326	



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD	RPD Limit	Preparation Date	Analysis Date	Dil	Qual
Total Solids	157257-1	13 %			07May12 0905 by 285	07May12 1528 by 285		
	Batch: W39740 Duplicate	13 %	2.76	10.0	07May12 0905 by 285	07May12 1528 by 285		

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LABORATORY CONTROL SAMPLE RESULTS

Analyte	Spike Amount	%	Limits	RPD	Limit	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	0.1 mg/l	100	85.0-115			W39681	30Apr12 1003 by 306	30Apr12 1615 by 306		
Total Cyanide	0.1 mg/l	95.3	85.0-115			W39772	08May12 1439 by 302	08May12 2128 by 302		
Mercury, low level	10 ng/l	98.1	71.2-129			S32402	15May12 0801 by 271	15May12 2216 by 270		
Total Recoverable Antimony	0.05 mg/l	97.8	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Arsenic	0.05 mg/l	94.2	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Beryllium	0.05 mg/l	97.1	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Cadmium	0.05 mg/l	101	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Chromium	0.05 mg/l	96.1	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Copper	0.05 mg/l	101	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Lead	0.05 mg/l	97.7	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Molybdenum	0.05 mg/l	102	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Nickel	0.05 mg/l	102	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Selenium	0.05 mg/l	93.6	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Silver	0.02 mg/l	105	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Thallium	0.05 mg/l	97.3	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Recoverable Zinc	0.05 mg/l	102	85.0-115			S32331	30Apr12 1103 by 271	08May12 2320 by 270		
Total Cyanide	0.1 mg/Kg	95.3	85.0-115			W39703	02May12 1456 by 306	04May12 1555 by 306		
Total Recoverable Phenolics	0.1 mg/Kg	94.1	85.0-115			W39662	26Apr12 1400 by 306	27Apr12 0950 by 306		
Antimony	5 mg/Kg	100	85.0-115			S32318	27Apr12 0947 by 100	02May12 0824 by 297		
Antimony	5 mg/Kg	103	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Arsenic	5 mg/Kg	106	85.0-115			S32318	27Apr12 0947 by 100	02May12 0824 by 297		
Arsenic	5 mg/Kg	98.6	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Beryllium	0.5 mg/Kg	100	85.0-115			S32318	27Apr12 0947 by 100	02May12 0824 by 297		
Beryllium	0.5 mg/Kg	99.3	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Cadmium	5 mg/Kg	102	85.0-115			S32318	27Apr12 0947 by 100	02May12 0824 by 297		
Cadmium	5 mg/Kg	98.1	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Chromium	0.5 mg/Kg	104	85.0-115			S32318	27Apr12 0947 by 100	02May12 0824 by 297		
Chromium	0.5 mg/Kg	96.6	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Copper	0.5 mg/Kg	99.3	85.0-115			S32318	27Apr12 0947 by 100	02May12 0824 by 297		
Copper	0.5 mg/Kg	96.8	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Lead	5 mg/Kg	95.4	85.0-115			S32318	27Apr12 0947 by 100	02May12 0824 by 297		
Lead	5 mg/Kg	94.2	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Nickel	0.5 mg/Kg	99.1	85.0-115			S32318	27Apr12 0947 by 100	02May12 0824 by 297		
Nickel	0.5 mg/Kg	96.2	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Selenium	5 mg/Kg	107	85.0-115			S32318	27Apr12 0947 by 100	02May12 0824 by 297		
Selenium	5 mg/Kg	98.9	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Silver	0.1 mg/Kg	95.2	85.0-115			S32318	27Apr12 0947 by 100	02May12 0824 by 297		
Silver	0.1 mg/Kg	94.7	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Thallium	5 mg/Kg	106	85.0-115			S32318	27Apr12 0947 by 100	02May12 0824 by 297		
Thallium	5 mg/Kg	103	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		
Zinc	0.5 mg/Kg	94.9	85.0-115			S32347	02May12 1115 by 100	03May12 1413 by 297		



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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>
Mercury	0.0025 mg/Kg	98.4	85.0-115			S32326	27Apr12 1504 by 100	01May12 1921 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	157274-2	0.1 mg/l	91.7	80.0-120	W39681	30Apr12 1003 by 306	30Apr12 1615 by 306		
	157274-2	0.1 mg/l	102	80.0-120	W39681	30Apr12 1003 by 306	30Apr12 1615 by 306		
	Relative Percent Difference:		8.98	10.0		W39681			
Total Cyanide	157379-3	0.1 mg/l	79.8	75.0-125	W39772	08May12 1439 by 302	08May12 2131 by 302		
	157379-3	0.1 mg/l	77.7	75.0-125	W39772	08May12 1439 by 302	08May12 2133 by 302		
	Relative Percent Difference:		2.55	20.0		W39772			
Mercury, low level	157584-1	10 ng/l	107	50.8-143	S32402	15May12 0801 by 271	15May12 2221 by 270		
	157584-1	10 ng/l	109	50.8-143	S32402	15May12 0801 by 271	15May12 2226 by 270		
	Relative Percent Difference:		1.69	20.0		S32402			
Total Recoverable Antimony	157276-1	0.05 mg/l	97.9	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	95.2	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		2.77	20.0		S32331			
Total Recoverable Arsenic	157276-1	0.05 mg/l	93.7	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	92.5	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		1.24	20.0		S32331			
Total Recoverable Beryllium	157276-1	0.05 mg/l	95.8	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	95.0	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		0.854	20.0		S32331			
Total Recoverable Cadmium	157276-1	0.05 mg/l	99.8	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	97.9	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		1.94	20.0		S32331			
Total Recoverable Chromium	157276-1	0.05 mg/l	95.1	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	92.2	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		3.16	20.0		S32331			
Total Recoverable Copper	157276-1	0.05 mg/l	98.6	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	98.4	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		0.212	20.0		S32331			
Total Recoverable Lead	157276-1	0.05 mg/l	98.3	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	95.9	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		2.54	20.0		S32331			
Total Recoverable Molybdenum	157276-1	0.05 mg/l	101	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	98.7	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		2.51	20.0		S32331			
Total Recoverable Nickel	157276-1	0.05 mg/l	99.5	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	98.1	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		1.36	20.0		S32331			
Total Recoverable Selenium	157276-1	0.05 mg/l	92.0	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	89.4	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		2.82	20.0		S32331			
Total Recoverable Silver	157276-1	0.02 mg/l	91.0	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.02 mg/l	90.8	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		0.241	20.0		S32331			
Total Recoverable Thallium	157276-1	0.05 mg/l	94.3	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	92.2	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		2.25	20.0		S32331			
Total Recoverable Zinc	157276-1	0.05 mg/l	95.1	75.0-125	S32331	30Apr12 1103 by 271	08May12 2325 by 270		
	157276-1	0.05 mg/l	94.0	75.0-125	S32331	30Apr12 1103 by 271	08May12 2331 by 270		
	Relative Percent Difference:		1.17	20.0		S32331			
Total Cyanide	157200-2	0.1 mg/Kg	84.6	75.0-125	W39703	02May12 1456 by 306	04May12 1559 by 306		
	157200-2	0.1 mg/Kg	82.3	75.0-125	W39703	02May12 1456 by 306	04May12 1601 by 306		
	Relative Percent Difference:		2.76	20.0		W39703			

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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	157200-2	0.1 mg/Kg	88.0	80.0-120	W39662	26Apr12 1400 by 306	27Apr12 0950 by 306		
	157200-2	0.1 mg/Kg	95.7	80.0-120	W39662	26Apr12 1400 by 306	27Apr12 0950 by 306		
	Relative Percent Difference:		7.46	10.0	W39662				
Antimony	157302-1	500 mg/Kg	83.2	75.0-125	S32318	27Apr12 0947 by 100	02May12 0827 by 297		
	157302-1	500 mg/Kg	84.7	75.0-125	S32318	27Apr12 0947 by 100	02May12 0831 by 297		
	Relative Percent Difference:		1.82	20.0	S32318				
Antimony	157366-1	499 mg/Kg	91.8	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	92.4	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.668	20.0	S32347				
Arsenic	157302-1	500 mg/Kg	89.6	75.0-125	S32318	27Apr12 0947 by 100	02May12 0827 by 297		
	157302-1	500 mg/Kg	90.7	75.0-125	S32318	27Apr12 0947 by 100	02May12 0831 by 297		
	Relative Percent Difference:		1.19	20.0	S32318				
Arsenic	157366-1	499 mg/Kg	89.4	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	89.6	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.260	20.0	S32347				
Beryllium	157302-1	50.0 mg/Kg	89.6	75.0-125	S32318	27Apr12 0947 by 100	02May12 0827 by 297		
	157302-1	50.0 mg/Kg	91.0	75.0-125	S32318	27Apr12 0947 by 100	02May12 0831 by 297		
	Relative Percent Difference:		1.52	20.0	S32318				
Beryllium	157366-1	49.9 mg/Kg	91.1	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	50.0 mg/Kg	91.7	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.548	20.0	S32347				
Cadmium	157302-1	500 mg/Kg	84.2	75.0-125	S32318	27Apr12 0947 by 100	02May12 0827 by 297		
	157302-1	500 mg/Kg	87.5	75.0-125	S32318	27Apr12 0947 by 100	02May12 0831 by 297		
	Relative Percent Difference:		3.74	20.0	S32318				
Cadmium	157366-1	499 mg/Kg	89.3	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	91.0	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		1.77	20.0	S32347				
Chromium	157302-1	50.0 mg/Kg	86.2	75.0-125	S32318	27Apr12 0947 by 100	02May12 0827 by 297		
	157302-1	50.0 mg/Kg	88.4	75.0-125	S32318	27Apr12 0947 by 100	02May12 0831 by 297		
	Relative Percent Difference:		1.32	20.0	S32318				
Chromium	157366-1	49.9 mg/Kg	85.2	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	50.0 mg/Kg	86.3	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.710	20.0	S32347				
Copper	157302-1	50.0 mg/Kg	85.3	75.0-125	S32318	27Apr12 0947 by 100	02May12 0827 by 297		
	157302-1	50.0 mg/Kg	89.0	75.0-125	S32318	27Apr12 0947 by 100	02May12 0831 by 297		
	Relative Percent Difference:		3.00	20.0	S32318				
Copper	157366-1	49.9 mg/Kg	90.7	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	50.0 mg/Kg	93.4	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		2.06	20.0	S32347				
Lead	157302-1	500 mg/Kg	80.2	75.0-125	S32318	27Apr12 0947 by 100	02May12 0827 by 297		
	157302-1	500 mg/Kg	82.7	75.0-125	S32318	27Apr12 0947 by 100	02May12 0831 by 297		
	Relative Percent Difference:		2.90	20.0	S32318				
Lead	157366-1	499 mg/Kg	91.9	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	92.2	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.381	20.0	S32347				
Nickel	157302-1	50.0 mg/Kg	83.6	75.0-125	S32318	27Apr12 0947 by 100	02May12 0827 by 297		
	157302-1	50.0 mg/Kg	84.9	75.0-125	S32318	27Apr12 0947 by 100	02May12 0831 by 297		
	Relative Percent Difference:		0.992	20.0	S32318				
Nickel	157366-1	49.9 mg/Kg	89.6	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	50.0 mg/Kg	90.7	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.633	20.0	S32347				



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MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Selenium	157302-1	500 mg/Kg	79.5	75.0-125	S32318	27Apr12 0947 by 100	02May12 0827 by 297		
	157302-1	500 mg/Kg	79.2	75.0-125	S32318	27Apr12 0947 by 100	02May12 0831 by 297		
	Relative Percent Difference:		0.483	20.0	S32318				
Selenium	157366-1	499 mg/Kg	80.6	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	81.4	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		1.00	20.0	S32347				
Silver	157302-1	9.99 mg/Kg	60.4	75.0-125	S32318	27Apr12 0947 by 100	02May12 0827 by 297		Q
	157302-1	10.0 mg/Kg	60.5	75.0-125	S32318	27Apr12 0947 by 100	02May12 0831 by 297		Q
	Relative Percent Difference:		0.131	20.0	S32318				
Silver	157366-1	9.97 mg/Kg	48.2	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		Q
	157366-1	10.0 mg/Kg	52.1	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		Q
	Relative Percent Difference:		7.49	20.0	S32347				
Thallium	157302-1	500 mg/Kg	88.6	75.0-125	S32318	27Apr12 0947 by 100	02May12 0827 by 297		
	157302-1	500 mg/Kg	90.0	75.0-125	S32318	27Apr12 0947 by 100	02May12 0831 by 297		
	Relative Percent Difference:		1.55	20.0	S32318				
Thallium	157366-1	499 mg/Kg	93.8	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	500 mg/Kg	94.6	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.770	20.0	S32347				
Zinc	157366-1	49.9 mg/Kg	88.3	75.0-125	S32347	02May12 1115 by 100	03May12 1416 by 297		
	157366-1	50.0 mg/Kg	90.0	75.0-125	S32347	02May12 1115 by 100	03May12 1420 by 297		
	Relative Percent Difference:		0.759	20.0	S32347				
Mercury	157210-3	1.25 mg/Kg	101	70.0-130	S32326	27Apr12 1504 by 100	01May12 1926 by 271		
	157210-3	1.25 mg/Kg	102	70.0-130	S32326	27Apr12 1504 by 100	01May12 1931 by 271		
	Relative Percent Difference:		0.857	20.0	S32326				

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LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC		Analysis Date	Qual
				Sample	Preparation Date		
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W39681-1	30Apr12 1003 by 306	30Apr12 1615 by 306	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W39772-1	08May12 1439 by 302	08May12 2126 by 302	
Mercury, low level	< 1.8 ng/l	1.8	5.0	S32402-1	15May12 0801 by 271	15May12 1759 by 270	
Total Recoverable Antimony	< 30 ug/l	30	30	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Arsenic	< 0.5 ug/l	0.5	0.5	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Beryllium	< 0.3 ug/l	0.3	0.3	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Cadmium	< 0.1 ug/l	0.1	0.1	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Chromium	< 7 ug/l	7	7	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Copper	< 0.5 ug/l	0.5	0.5	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Lead	< 0.5 ug/l	0.5	0.5	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Molybdenum	< 8 ug/l	8	8	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Nickel	< 0.5 ug/l	0.5	0.5	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Selenium	< 2 ug/l	2	2	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Silver	< 0.2 ug/l	0.2	0.2	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Thallium	< 0.5 ug/l	0.5	0.5	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Recoverable Zinc	< 2 ug/l	2	2	S32331-1	30Apr12 1103 by 271	08May12 2314 by 270	
Total Cyanide	< 0.01 mg/Kg	0.01	0.01	W39703-1	02May12 1456 by 306	04May12 1554 by 306	
Total Recoverable Phenolics	< 0.005 mg/Kg	0.005	0.005	W39662-1	26Apr12 1400 by 306	27Apr12 0950 by 306	
Total Solids	< 0.01 %	0.01	0.01	W39740-1	07May12 0905 by 285	07May12 1528 by 285	
Antimony	< 3 mg/Kg	3	3	S32318-1	27Apr12 0947 by 100	02May12 0822 by 297	
Arsenic	< 5 mg/Kg	5	5	S32318-1	27Apr12 0947 by 100	02May12 0822 by 297	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S32318-1	27Apr12 0947 by 100	02May12 0822 by 297	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S32318-1	27Apr12 0947 by 100	02May12 0822 by 297	
Chromium	< 0.7 mg/Kg	0.7	0.7	S32318-1	27Apr12 0947 by 100	02May12 0822 by 297	
Copper	< 0.6 mg/Kg	0.6	0.6	S32318-1	27Apr12 0947 by 100	02May12 0822 by 297	
Lead	< 4 mg/Kg	4	4	S32318-1	27Apr12 0947 by 100	02May12 0822 by 297	
Nickel	< 1 mg/Kg	1	1	S32318-1	27Apr12 0947 by 100	02May12 0822 by 297	
Selenium	< 7 mg/Kg	7	7	S32318-1	27Apr12 0947 by 100	02May12 0822 by 297	
Silver	< 0.7 mg/Kg	0.7	0.7	S32318-1	27Apr12 0947 by 100	02May12 0822 by 297	
Thallium	< 4 mg/Kg	4	4	S32318-1	27Apr12 0947 by 100	02May12 0822 by 297	
Zinc	< 0.2 mg/Kg	0.2	0.2	S32347-1	02May12 1115 by 100	03May12 1410 by 297	
Mercury	< 0.1 mg/Kg	0.1	0.1	S32326-1	27Apr12 1504 by 100	01May12 1916 by 271	

AR0033278

2nd Quarter



City of Fort Smith
3900 Kelley Highway
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SAMPLE INFORMATION

Project Description:

Two (2) water and one (1) sludge sample(s) received on June 15, 2012
P Street Table III Priority Pollutants

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>
158628-1	P Street Influent 6/14/12 0958	14-Jun-2012 0958	
158628-2	P Street Effluent 6/14/12 1458	14-Jun-2012 1458	
158628-3	P Street Raw Biosolid 6/14/12 1428	14-Jun-2012 1428	

Qualifiers:

Q Analyte is not within quality control limits

Case Narrative:

The matrix spike recovery for Total Recoverable Phenolics failed to meet acceptance criteria due to matrix interference.

Analysis of soils/sludges are reported on a dry-weight basis unless 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", 20th edition, 1998.
- "American Society for Testing and Materials" (ASTM).
- "Association of Analytical Chemists" (AOAC).

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ANALYTICAL RESULTS
AIC No. 158628-1
Sample Identification: P Street Influent 6/14/12 0958

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	0.10 Analyzed: 21-Jun-2012 1200 by 306	0.005 Analyzed: 21-Jun-2012 1200 by 306	mg/l Batch: W40185	
Total Cyanide SM4500-CN C,E	0.018 Analyzed: 19-Jun-2012 1513 by 306	0.01 Analyzed: 19-Jun-2012 1513 by 306	mg/l Batch: W40165	
Mercury EPA 245.2	< 0.2 Analyzed: 19-Jun-2012 1657 by 297	0.2 Analyzed: 19-Jun-2012 1657 by 297	ug/l Batch: S32611	
Total Recoverable Antimony EPA 200.8	< 60 Analyzed: 17-Jun-2012 1938 by 297	60 Analyzed: 17-Jun-2012 1938 by 297	ug/l Batch: S32603	
Total Recoverable Arsenic EPA 200.8	1.3 Analyzed: 17-Jun-2012 1938 by 297	0.5 Analyzed: 17-Jun-2012 1938 by 297	ug/l Batch: S32603	
Total Recoverable Beryllium EPA 200.8	< 0.5 Analyzed: 17-Jun-2012 1938 by 297	0.5 Analyzed: 17-Jun-2012 1938 by 297	ug/l Batch: S32603	
Total Recoverable Cadmium EPA 200.8	0.62 Analyzed: 17-Jun-2012 1938 by 297	0.5 Analyzed: 17-Jun-2012 1938 by 297	ug/l Batch: S32603	
Total Recoverable Chromium EPA 200.8	130 Analyzed: 17-Jun-2012 1938 by 297	10 Analyzed: 17-Jun-2012 1938 by 297	ug/l Batch: S32603	
Total Recoverable Copper EPA 200.8	39 Analyzed: 17-Jun-2012 1938 by 297	0.5 Analyzed: 17-Jun-2012 1938 by 297	ug/l Batch: S32603	
Total Recoverable Lead EPA 200.8	12 Analyzed: 17-Jun-2012 1938 by 297	0.5 Analyzed: 17-Jun-2012 1938 by 297	ug/l Batch: S32603	
Total Recoverable Molybdenum EPA 200.8	< 8 Analyzed: 17-Jun-2012 1938 by 297	8 Analyzed: 17-Jun-2012 1938 by 297	ug/l Batch: S32603	
Total Recoverable Nickel EPA 200.8	120 Analyzed: 17-Jun-2012 1938 by 297	0.5 Analyzed: 17-Jun-2012 1938 by 297	ug/l Batch: S32603	
Total Recoverable Selenium EPA 200.8	< 5 Analyzed: 17-Jun-2012 1938 by 297	5 Analyzed: 17-Jun-2012 1938 by 297	ug/l Batch: S32603	
Total Recoverable Silver EPA 200.8	< 0.5 Analyzed: 19-Jun-2012 1846 by 270	0.5 Analyzed: 19-Jun-2012 1846 by 270	ug/l Batch: S32603	
Total Recoverable Thallium EPA 200.8	< 0.5 Analyzed: 19-Jun-2012 1846 by 270	0.5 Analyzed: 19-Jun-2012 1846 by 270	ug/l Batch: S32603	
Total Recoverable Zinc EPA 200.8	660 Analyzed: 17-Jun-2012 1938 by 297	20 Analyzed: 17-Jun-2012 1938 by 297	ug/l Batch: S32603	

AIC No. 158628-2
Sample Identification: P Street Effluent 6/14/12 1458

Analyte	Result	RL	Units	Qualifier
Total Recoverable Phenolics EPA 420.1	0.013 Analyzed: 18-Jun-2012 1500 by 306	0.005 Analyzed: 18-Jun-2012 1500 by 306	mg/l Batch: W40155	
Total Cyanide SM4500-CN C,E	< 0.01 Analyzed: 19-Jun-2012 1515 by 306	0.01 Analyzed: 19-Jun-2012 1515 by 306	mg/l Batch: W40165	

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ANALYTICAL RESULTS
AIC No. 158628-2 (Continued)
Sample Identification: P Street Effluent 6/14/12 1458

Analyte	Result	RL	Units	Qualifier
Mercury EPA 245.2	< 0.2	0.2	ug/l	
Prep: 18-Jun-2012 1511 by 100	Analyzed: 26-Jun-2012 0844 by 271		Batch: S32611	
Total Recoverable Antimony EPA 200.8	< 60	60	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 17-Jun-2012 1921 by 297		Batch: S32603	
Total Recoverable Arsenic EPA 200.8	0.51	0.5	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 17-Jun-2012 1921 by 297		Batch: S32603	
Total Recoverable Beryllium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 17-Jun-2012 1921 by 297		Batch: S32603	
Total Recoverable Cadmium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 17-Jun-2012 1921 by 297		Batch: S32603	
Total Recoverable Chromium EPA 200.8	< 10	10	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 17-Jun-2012 1921 by 297		Batch: S32603	
Total Recoverable Copper EPA 200.8	3.8	0.5	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 17-Jun-2012 1921 by 297		Batch: S32603	
Total Recoverable Lead EPA 200.8	1.3	0.5	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 17-Jun-2012 1921 by 297		Batch: S32603	
Total Recoverable Molybdenum EPA 200.8	< 8	8	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 17-Jun-2012 1921 by 297		Batch: S32603	
Total Recoverable Nickel EPA 200.8	11	0.5	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 17-Jun-2012 1921 by 297		Batch: S32603	
Total Recoverable Selenium EPA 200.8	< 5	5	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 17-Jun-2012 1921 by 297		Batch: S32603	
Total Recoverable Silver EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 19-Jun-2012 1852 by 270		Batch: S32603	
Total Recoverable Thallium EPA 200.8	< 0.5	0.5	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 19-Jun-2012 1852 by 270		Batch: S32603	
Total Recoverable Zinc EPA 200.8	56	20	ug/l	
Prep: 15-Jun-2012 1337 by 100	Analyzed: 17-Jun-2012 1921 by 297		Batch: S32603	

AIC No. 158628-3
Sample Identification: P Street Raw Biosolid 6/14/12 1428

Analyte	Result	RL	Units	Qualifier
Total Cyanide EPA 9010C, 9014	< 20	20	mg/Kg	
Prep: 27-Jun-2012 0830 by 306	Analyzed: 27-Jun-2012 1654 by 306		Batch: W40260	
Total Recoverable Phenolics EPA 9065	< 70	70	mg/Kg	
Prep: 21-Jun-2012 1001 by 306	Analyzed: 21-Jun-2012 1530 by 306		Batch: W40204	
Total Solids SM 2540G	0.79	0.01	%	
Prep: 18-Jun-2012 0911 by 285	Analyzed: 18-Jun-2012 1505 by 285		Batch: W40156	
Antimony EPA 3051A, 6010C	< 3	3	mg/Kg	
Prep: 18-Jun-2012 0932 by 100	Analyzed: 18-Jun-2012 1617 by 297		Batch: S32606	

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ANALYTICAL RESULTS

AIC No. 158628-3 (Continued)

Sample Identification: P Street Raw Biosolid 6/14/12 1428

Analyte	Result	RL	Units	Qualifier
Arsenic EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	< 5 Analyzed: 18-Jun-2012 1617 by 297	5	mg/Kg Batch: S32606	
Beryllium EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	< 0.03 Analyzed: 18-Jun-2012 1617 by 297	0.03	mg/Kg Batch: S32606	
Cadmium EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	2.8 Analyzed: 18-Jun-2012 1617 by 297	0.4	mg/Kg Batch: S32606	
Chromium EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	120 Analyzed: 18-Jun-2012 1617 by 297	0.7	mg/Kg Batch: S32606	
Copper EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	380 Analyzed: 18-Jun-2012 1617 by 297	0.6	mg/Kg Batch: S32606	
Lead EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	90 Analyzed: 18-Jun-2012 1617 by 297	4	mg/Kg Batch: S32606	
Molybdenum EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	10 Analyzed: 18-Jun-2012 1617 by 297	0.8	mg/Kg Batch: S32606	
Nickel EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	44 Analyzed: 18-Jun-2012 1617 by 297	1	mg/Kg Batch: S32606	
Selenium EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	< 7 Analyzed: 18-Jun-2012 1617 by 297	7	mg/Kg Batch: S32606	
Silver EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	7.3 Analyzed: 21-Jun-2012 1250 by 297	0.7	mg/Kg Batch: S32606	
Thallium EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	< 4 Analyzed: 18-Jun-2012 1617 by 297	4	mg/Kg Batch: S32606	
Zinc EPA 3051A, 6010C Prep: 18-Jun-2012 0932 by 100	1300 Analyzed: 18-Jun-2012 1617 by 297	0.2	mg/Kg Batch: S32606	
Mercury EPA 7471B Prep: 22-Jun-2012 1245 by 297	1.5 Analyzed: 22-Jun-2012 1407 by 270	0.1	mg/Kg Batch: S32631	



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DUPLICATE RESULTS

Analyte	AIC No.	Result	RPD		Preparation Date	Analysis Date	Dil	Qual
			RPD	Limit				
Total Solids	158614-1	15 %			18Jun12 0911 by 285	18Jun12 1505 by 285		
	Batch: W40156	Duplicate	14 %	0.0945	10.0	18Jun12 0911 by 285	18Jun12 1505 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	99.5	85.0-115			W40155	18Jun12 0902 by 306	18Jun12 1500 by 306		
Total Recoverable Phenolics	0.1 mg/l	91.8	85.0-115			W40185	20Jun12 0831 by 306	21Jun12 1200 by 306		
Total Cyanide	0.1 mg/l	101	85.0-115			W40165	19Jun12 0858 by 306	19Jun12 1701 by 306		
Mercury	0.0025 mg/l	99.6	85.0-115			S32611	18Jun12 1512 by 100	19Jun12 1632 by 297		
Total Recoverable Antimony	0.05 mg/l	94.3	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Recoverable Arsenic	0.05 mg/l	98.1	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Recoverable Beryllium	0.05 mg/l	95.0	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Recoverable Cadmium	0.05 mg/l	96.4	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Recoverable Chromium	0.05 mg/l	97.6	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Recoverable Copper	0.05 mg/l	100	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Recoverable Lead	0.05 mg/l	105	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Recoverable Molybdenum	0.05 mg/l	97.5	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Recoverable Nickel	0.05 mg/l	99.1	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Recoverable Selenium	0.05 mg/l	97.4	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Recoverable Silver	0.02 mg/l	89.0	85.0-115			S32603	15Jun12 1337 by 100	19Jun12 1817 by 270		
Total Recoverable Thallium	0.05 mg/l	98.4	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Recoverable Zinc	0.05 mg/l	102	85.0-115			S32603	15Jun12 1337 by 100	17Jun12 1904 by 297		
Total Cyanide	0.1 mg/Kg	99.3	85.0-115			W40260	27Jun12 0830 by 306	27Jun12 1652 by 306		
Total Recoverable Phenolics	0.1 mg/Kg	91.0	85.0-115			W40204	21Jun12 1002 by 306	21Jun12 1530 by 306		
Antimony	5 mg/Kg	99.4	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Arsenic	5 mg/Kg	99.2	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Beryllium	0.5 mg/Kg	97.7	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Cadmium	5 mg/Kg	98.8	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Chromium	0.5 mg/Kg	96.0	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Copper	0.5 mg/Kg	95.9	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Lead	5 mg/Kg	96.8	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Molybdenum	0.5 mg/Kg	97.3	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Nickel	0.5 mg/Kg	99.1	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Selenium	5 mg/Kg	101	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Silver	0.1 mg/Kg	99.1	85.0-115			S32606	18Jun12 0932 by 100	21Jun12 1240 by 297		
Thallium	5 mg/Kg	101	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Zinc	0.5 mg/Kg	98.2	85.0-115			S32606	18Jun12 0932 by 100	18Jun12 1526 by 297		
Mercury	0.0025 mg/Kg	97.6	85.0-115			S32631	22Jun12 1246 by 297	22Jun12 1353 by 270		

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Recoverable Phenolics	158628-2	0.1 mg/l	86.3	80.0-120	W40155	18Jun12 0902 by 306	18Jun12 1500 by 306		
	158628-2	0.1 mg/l	83.2	80.0-120	W40155	18Jun12 0902 by 306	18Jun12 1500 by 306		
	Relative Percent Difference:		3.16	10.0		W40155			
Total Recoverable Phenolics	158631-3	0.1 mg/l	80.9	80.0-120	W40185	20Jun12 0831 by 306	21Jun12 1200 by 306		
	158631-3	0.1 mg/l	82.4	80.0-120	W40185	20Jun12 0831 by 306	21Jun12 1200 by 306		
	Relative Percent Difference:		1.59	10.0		W40185			
Total Cyanide	158539-1	0.1 mg/l	85.1	75.0-125	W40165	19Jun12 0858 by 306	19Jun12 1452 by 306		
	158539-1	0.1 mg/l	85.0	75.0-125	W40165	19Jun12 0858 by 306	19Jun12 1454 by 306		
	Relative Percent Difference:		0.117	20.0		W40165			
Mercury	158578-1	0.0025 mg/l	92.8	70.0-130	S32611	18Jun12 1512 by 100	19Jun12 1637 by 297		
	158578-1	0.0025 mg/l	95.6	70.0-130	S32611	18Jun12 1512 by 100	19Jun12 1642 by 297		
	Relative Percent Difference:		2.79	20.0		S32611			
Total Recoverable Antimony	158628-2	0.05 mg/l	95.2	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	108	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		12.5	20.0		S32603			
Total Recoverable Arsenic	158628-2	0.05 mg/l	98.1	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	109	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		10.2	20.0		S32603			
Total Recoverable Beryllium	158628-2	0.05 mg/l	96.0	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	107	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		11.2	20.0		S32603			
Total Recoverable Cadmium	158628-2	0.05 mg/l	97.5	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	110	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		12.3	20.0		S32603			
Total Recoverable Chromium	158628-2	0.05 mg/l	97.6	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	109	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		10.8	20.0		S32603			
Total Recoverable Copper	158628-2	0.05 mg/l	101	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	111	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		8.59	20.0		S32603			
Total Recoverable Lead	158628-2	0.05 mg/l	106	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	121	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		12.6	20.0		S32603			
Total Recoverable Molybdenum	158628-2	0.05 mg/l	98.3	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	110	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		10.9	20.0		S32603			
Total Recoverable Nickel	158628-2	0.05 mg/l	101	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	114	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		12.0	20.0		S32603			
Total Recoverable Selenium	158628-2	0.05 mg/l	96.3	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	106	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		9.58	20.0		S32603			
Total Recoverable Silver	158628-2	0.02 mg/l	91.0	75.0-125	S32603	15Jun12 1337 by 100	19Jun12 1823 by 270		
	158628-2	0.02 mg/l	102	75.0-125	S32603	15Jun12 1337 by 100	19Jun12 1830 by 270		
	Relative Percent Difference:		11.4	20.0		S32603			
Total Recoverable Thallium	158628-2	0.05 mg/l	95.3	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	107	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		11.8	20.0		S32603			
Total Recoverable Zinc	158628-2	0.05 mg/l	102	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1909 by 297		
	158628-2	0.05 mg/l	116	75.0-125	S32603	15Jun12 1337 by 100	17Jun12 1915 by 297		
	Relative Percent Difference:		11.1	20.0		S32603			

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

MATRIX SPIKE SAMPLE RESULTS

Analyte	Sample	Spike Amount	%	Limits	Batch	Preparation Date	Analysis Date	Dil	Qual
Total Cyanide	158628-3	0.1 mg/Kg	87.1	75.0-125	W40260	27Jun12 0830 by 306	27Jun12 1656 by 306		
	158628-3	0.1 mg/Kg	89.0	75.0-125	W40260	27Jun12 0830 by 306	27Jun12 1658 by 306		
	Relative Percent Difference:		2.18	20.0	W40260				
Total Recoverable Phenolics	158628-3	0.1 mg/Kg	77.2	80.0-120	W40204	21Jun12 1002 by 306	21Jun12 1530 by 306		Q
	158628-3	0.1 mg/Kg	78.0	80.0-120	W40204	21Jun12 1002 by 306	21Jun12 1530 by 306		Q
	Relative Percent Difference:		0.939	10.0	W40204				
Antimony	158652-1	499 mg/Kg	84.3	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	498 mg/Kg	88.6	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		4.91	20.0	S32606				
Arsenic	158652-1	499 mg/Kg	89.0	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	498 mg/Kg	94.5	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		5.82	20.0	S32606				
Beryllium	158652-1	49.9 mg/Kg	90.6	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	49.8 mg/Kg	90.2	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		0.388	20.0	S32606				
Cadmium	158652-1	499 mg/Kg	90.5	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	498 mg/Kg	95.4	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		5.34	20.0	S32606				
Chromium	158652-1	49.9 mg/Kg	80.3	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	49.8 mg/Kg	96.8	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		9.63	20.0	S32606				
Copper	158652-1	49.9 mg/Kg	93.0	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	49.8 mg/Kg	99.0	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		5.47	20.0	S32606				
Lead	158652-1	499 mg/Kg	89.2	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	498 mg/Kg	93.7	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		4.65	20.0	S32606				
Molybdenum	158652-1	49.9 mg/Kg	89.7	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	49.8 mg/Kg	94.7	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		5.35	20.0	S32606				
Nickel	158652-1	49.9 mg/Kg	89.3	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	49.8 mg/Kg	95.5	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		4.54	20.0	S32606				
Selenium	158652-1	499 mg/Kg	86.4	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	498 mg/Kg	89.5	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		3.59	20.0	S32606				
Silver	158652-1	9.98 mg/Kg	97.8	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1604 by 297		
	158652-1	9.95 mg/Kg	101	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1607 by 297		
	Relative Percent Difference:		-	-	S32606				
Thallium	158652-1	499 mg/Kg	91.4	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	498 mg/Kg	95.7	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		4.63	20.0	S32606				
Zinc	158652-1	49.9 mg/Kg	84.5	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1529 by 297		
	158652-1	49.8 mg/Kg	96.6	75.0-125	S32606	18Jun12 0932 by 100	18Jun12 1532 by 297		
	Relative Percent Difference:		6.02	20.0	S32606				
Mercury	158628-3	1.24 mg/Kg	78.1	70.0-130	S32631	22Jun12 1246 by 297	22Jun12 1358 by 270		
	158628-3	1.25 mg/Kg	79.1	70.0-130	S32631	22Jun12 1246 by 297	22Jun12 1403 by 270		
	Relative Percent Difference:		0.417	20.0	S32631				

City of Fort Smith
3900 Kelley Highway
Fort Smith, AR 72904

LABORATORY BLANK RESULTS

Analyte	Result	RL	PQL	QC		Analysis Date	Qual
				Sample	Preparation Date		
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W40155-1	18Jun12 0902 by 306	18Jun12 1500 by 306	
Total Recoverable Phenolics	< 0.005 mg/l	0.005	0.005	W40185-1	20Jun12 0831 by 306	21Jun12 1200 by 306	
Total Cyanide	< 0.01 mg/l	0.01	0.01	W40165-1	19Jun12 0858 by 306	19Jun12 1446 by 306	
Mercury	< 0.0002 mg/l	0.0002	0.0002	S32611-1	18Jun12 1512 by 100	19Jun12 1627 by 297	
Total Recoverable Antimony	< 0.03 mg/l	0.03	0.03	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Recoverable Arsenic	< 0.0005 mg/l	0.0005	0.0005	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Recoverable Beryllium	< 0.0003 mg/l	0.0003	0.0003	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Recoverable Cadmium	< 0.0001 mg/l	0.0001	0.0001	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Recoverable Chromium	< 0.007 mg/l	0.007	0.007	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Recoverable Copper	< 0.0005 mg/l	0.0005	0.0005	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Recoverable Lead	< 0.0005 mg/l	0.0005	0.0005	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Recoverable Molybdenum	< 0.008 mg/l	0.008	0.008	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Recoverable Nickel	< 0.0005 mg/l	0.0005	0.0005	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Recoverable Selenium	< 0.002 mg/l	0.002	0.002	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Recoverable Silver	< 0.0002 mg/l	0.0002	0.0002	S32603-1	15Jun12 1337 by 100	19Jun12 1811 by 270	
Total Recoverable Thallium	< 0.0005 mg/l	0.0005	0.0005	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Recoverable Zinc	< 0.002 mg/l	0.002	0.002	S32603-1	15Jun12 1337 by 100	17Jun12 1858 by 297	
Total Cyanide	< 0.01 mg/Kg	0.01	0.01	W40260-1	27Jun12 0830 by 306	27Jun12 1651 by 306	
Total Recoverable Phenolics	< 0.005 mg/Kg	0.005	0.005	W40204-1	21Jun12 1002 by 306	21Jun12 1530 by 306	
Total Solids	< 0.01 %	0.01	0.01	W40156-1	18Jun12 0911 by 285	18Jun12 1505 by 285	
Antimony	< 3 mg/Kg	3	3	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Arsenic	< 5 mg/Kg	5	5	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Beryllium	< 0.03 mg/Kg	0.03	0.03	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Cadmium	< 0.4 mg/Kg	0.4	0.4	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Chromium	< 0.7 mg/Kg	0.7	0.7	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Copper	< 0.6 mg/Kg	0.6	0.6	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Lead	< 4 mg/Kg	4	4	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Molybdenum	< 0.8 mg/Kg	0.8	0.8	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Nickel	< 1 mg/Kg	1	1	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Selenium	< 7 mg/Kg	7	7	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Silver	< 0.7 mg/Kg	0.7	0.7	S32606-1	18Jun12 0932 by 100	21Jun12 1238 by 297	
Thallium	< 4 mg/Kg	4	4	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Zinc	< 0.2 mg/Kg	0.2	0.2	S32606-1	18Jun12 0932 by 100	18Jun12 1523 by 297	
Mercury	< 0.1 mg/Kg	0.1	0.1	S32631-1	22Jun12 1246 by 297	22Jun12 1348 by 270	



CHAIN OF CUSTODY / ANALYSIS REQUEST FORM

PAGE / OF

Client: <u>City of Fort Smith</u>		AIC CONTROL NO.: <u>58628</u>													
Project Reference: <u>P Street Table III Priority Rebalancers</u>		AIC PROPOSAL NO.:													
Project Manager: <u>Randy Ensey</u>		Carrier/Packing No.:													
Sampled By: <u>Kristy Cantu</u>		Received Temperature C: <u>20</u>													
Remarks:		Remarks:													
AIC No.	Sample Identification	Date/Time Collected	GRA B	COMP	ANALYSES REQUESTED							NO OF BOTTLES	PO No.	SAMPLE MATRIX	FIELD pH calibration on _____ @ _____ Buffer:
					W	A	S	O	I	L	NO				
1	P Street Influent	6/14/12 0958	X	X	X	X	X	X	X	X	X	1		Water	
1	P Street Influent	6/14/12 0958	X	X	X	X	X	X	X	X	X	1		Water	
1	P Street Influent	6/14/12 0958	X	X	X	X	X	X	X	X	X	1		Water	
2	P Street Effluent	6/14/12 1458	X	X	X	X	X	X	X	X	X	1		Water	
2	P Street Effluent	6/14/12 1458	X	X	X	X	X	X	X	X	X	1		Water	
2	P Street Effluent	6/14/12 1458	X	X	X	X	X	X	X	X	X	1		Water	
3	P Street RAW Biosolid	6/14/12 1400	X	X	X	X	X	X	X	X	X	1		Biosolid	

Turnaround Time Requested: (Please circle) NORMAL or EXPEDITED IN _____ DAYS
 Expedited results requested by: _____
 Who should AIC contact with questions: _____
 Phone: _____ Fax: _____
 Report Attention to: _____
 Report Address to: _____

Comments: Required Reporting Limit for Metals must be identified on back of COC.
FedEx # 800337685714