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21 August 2013

Mike Rigby
Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax, VA 22031

RE: EC Durango Pilot

Enclosed are the results of analyses for samples received by the laboratory on 08/08/13 17:00.
If you need any further assistance, please feel free to contact me.

Sincerely,

Debbie Zufelt
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. Our NELAP accreditation can be viewed at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water

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Waste Water Management, Inc.	Project: EC Durango Pilot	
2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Raw	1308113-01	Water	08/08/13 14:00	08/08/13 17:00
2 Min	1308113-02	Water	08/08/13 14:00	08/08/13 17:00
5 Min	1308113-03	Water	08/08/13 14:30	08/08/13 17:00
5 Min #2	1308113-04	Water	08/08/13 14:30	08/08/13 17:00

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Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

Raw

1308113-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	**2390**	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	**5.50**			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	**0.0530**	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3		KLJ
Sulfate	**1650**	500	54.0	mg/L	50	08/16/13	4500-SO42- E		ABP
TDS*	**2480**	10.0		mg/L	1	08/14/13	EPA160.1		ABP
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	**5.20**	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	**158**	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (Si02)	**33.3**	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	**15.6**	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	**2.62**	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	**446**	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	**144**	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	**32.1**	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	**1.28**	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (Si02)	**36.0**	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	**16.8**	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	**8.39**	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

Raw

1308113-01 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by ICPMS (E200.8)									
Cadmium*	**0.0025**	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	**0.0106**	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	<0.0050	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	**46.2**	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	**27.5**	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS
Dissolved Metals by ICPMS									
Cadmium*	**0.0027**	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	**0.0108**	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	<0.0050	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	**50.2**	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	**16.9**	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS
Total Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
Dissolved Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS

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2 Min

1308113-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	**2270**	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	**4.79**			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	<0.0500	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3		KLJ
Sulfate	**1550**	500	54.0	mg/L	50	08/16/13	4500-SO42- E		ABP
TDS*	**2280**	10.0		mg/L	1	08/14/13	EPA160.1		ABP
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	**66.0**	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	**214**	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (Si02)	**42.1**	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	**19.7**	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	**6.52**	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	**416**	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	**127**	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	**31.2**	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	<1.00	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (Si02)	**32.8**	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	**15.4**	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	**8.20**	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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2 Min

1308113-02 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by ICPMS (E200.8)									
Cadmium*	**0.0021**	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	**0.100**	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	**0.0419**	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	**46.5**	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	**30.9**	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS
Dissolved Metals by ICPMS									
Cadmium*	**0.0027**	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	**0.0127**	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	**0.0071**	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	**42.8**	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	**15.5**	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS
Total Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
Dissolved Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS

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5 Min

1308113-03 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	**1980**	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	**4.97**			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	<0.0500	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3		KLJ
Sulfate	**1340**	200	21.6	mg/L	20	08/16/13	4500-SO42- E		ABP
TDS*	**2120**	10.0		mg/L	1	08/14/13	EPA160.1		ABP
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	**201**	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	**155**	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (Si02)	**32.7**	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	**15.3**	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	**2.44**	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	**362**	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	**109**	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	**27.8**	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	**1.58**	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (Si02)	**23.5**	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	**11.0**	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	**8.49**	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

5 Min

1308113-03 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by ICPMS (E200.8)									
Cadmium*	**0.0018**	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	**0.0410**	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	**0.0260**	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	**39.5**	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	**24.6**	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS
Dissolved Metals by ICPMS									
Cadmium*	**0.0022**	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	**0.0056**	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	**0.0072**	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	**40.9**	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	**12.4**	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS
Total Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
Dissolved Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS

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5 Min #2

1308113-04 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									
Alkalinity, Bicarbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Carbonate*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Hydroxide*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Alkalinity, Total*	<10.0	10.0		mg/L	2	08/12/13	2320 B		JAW
Chloride	<10.0	10.0	5.00	mg/L	1	08/13/13	4500-Cl- C		JAW
Conductivity*	**1990**	10.0		uS/cm	1	08/08/13	2510 B		MJV
pH*	**5.00**			pH Units	1	08/08/13	EPA150.1		MJV
Phosphate as P, Total	**0.700**	0.0500	0.0250	mg/L	1	08/16/13	EPA365.3	M5	KLJ
Sulfate	**1340**	200	21.6	mg/L	20	08/16/13	4500-SO42- E		ABP
TDS*	**2080**	10.0		mg/L	1	08/14/13	EPA160.1		ABP
Total Recoverable Metals by ICP (E200.7)									
Aluminum*	**148**	0.500	0.015	mg/L	10	08/15/13	EPA200.7		JGS
Iron*	**134**	0.500	0.040	mg/L	10	08/15/13	EPA200.7		JGS
Silica (Si02)	**28.6**	10.7	7.39	mg/L	10	08/15/13	Calc		JGS
Silicon	**13.4**	5.00	3.45	mg/L	10	08/15/13	EPA200.7		JGS
Dissolved Metals by ICP									
Aluminum*	**2.06**	0.050	0.001	mg/L	1	08/13/13	EPA200.7		JGS
Calcium*	**365**	5.00	0.020	mg/L	5	08/13/13	EPA200.7		JGS
Iron*	**104**	0.050	0.004	mg/L	1	08/13/13	EPA200.7		JGS
Magnesium*	**27.2**	1.00	0.019	mg/L	1	08/13/13	EPA200.7		JGS
Potassium*	**1.05**	1.00	0.364	mg/L	1	08/13/13	EPA200.7		JGS
Silica (Si02)	**22.8**	1.07	0.739	mg/L	1	08/13/13	Calc		JGS
Silicon	**10.7**	0.500	0.345	mg/L	1	08/13/13	EPA200.7		JGS
Sodium*	**8.61**	1.00	0.004	mg/L	1	08/13/13	EPA200.7		JGS

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2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
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5 Min #2

1308113-04 (Water)

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
Total Recoverable Metals by ICPMS (E200.8)									
Cadmium*	**0.0016**	0.0010	0.0004	mg/L	10	08/14/13	EPA200.8		JGS
Copper*	**0.0245**	0.0100	0.0013	mg/L	10	08/14/13	EPA200.8		JGS
Lead*	**0.0122**	0.0050	0.0003	mg/L	10	08/14/13	EPA200.8		JGS
Manganese*	**39.2**	0.0050	0.0042	mg/L	10	08/14/13	EPA200.8		JGS
Zinc*	**21.0**	0.0500	0.0063	mg/L	10	08/14/13	EPA200.8		JGS
Dissolved Metals by ICPMS									
Cadmium*	**0.0017**	0.0010	0.0004	mg/L	10	08/13/13	EPA200.8		JGS
Copper*	**0.0039**	0.0010	0.0001	mg/L	10	08/13/13	EPA200.8		JGS
Lead*	<0.0050	0.0050	0.0003	mg/L	10	08/13/13	EPA200.8		JGS
Manganese*	**38.7**	0.0050	0.0042	mg/L	10	08/13/13	EPA200.8		JGS
Zinc*	**11.4**	0.0100	0.0013	mg/L	10	08/13/13	EPA200.8		JGS
Total Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS
Dissolved Mercury by CVAA									
Mercury*	<0.0002	0.0002	0.00002	mg/L	1	08/16/13	245.1		JGS

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Debbie Zufelt, Reports Manager

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www.GreenAnalytical.com

Waste Water Management, Inc.	Project: EC Durango Pilot	
2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308110 - General Prep - Wet Chem										
Duplicate (B308110-DUP1)		**Source: 1308102-01**		Prepared & Analyzed: 08/08/13						
Conductivity	13400	10.0	uS/cm		13300			1.20	20	
Reference (B308110-SRM2)				Prepared & Analyzed: 08/08/13						
Conductivity	1530		uS/cm	1500		102	94-106			
Batch B308114 - General Prep - Wet Chem										
Duplicate (B308114-DUP2)		**Source: 1308113-01**		Prepared & Analyzed: 08/08/13						
pH	5.55		pH Units		5.50			0.905	20	
Reference (B308114-SRM1)				Prepared & Analyzed: 08/08/13						
pH	8.71		pH Units	9.05		96.2	90-110			
Batch B308123 - General Prep - Wet Chem										
Blank (B308123-BLK1)				Prepared & Analyzed: 08/13/13						
Chloride	ND	10.0	mg/L							
LCS (B308123-BS1)				Prepared & Analyzed: 08/13/13						
Chloride	98.0	10.0	mg/L	100		98.0	85-115			
LCS Dup (B308123-BSD1)				Prepared & Analyzed: 08/13/13						
Chloride	99.0	10.0	mg/L	100		99.0	85-115	1.02	20	
Batch B308124 - General Prep - Wet Chem										
Blank (B308124-BLK1)				Prepared: 08/12/13 Analyzed: 08/13/13						
Chloride	ND	10.0	mg/L							

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2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308124 - General Prep - Wet Chem										
LCS (B308124-BS1)				Prepared: 08/12/13 Analyzed: 08/13/13						
Chloride	97.0	10.0	mg/L	100		97.0	85-115			
LCS Dup (B308124-BSD1)				Prepared: 08/12/13 Analyzed: 08/13/13						
Chloride	98.0	10.0	mg/L	100		98.0	85-115	1.03	20	
Batch B308130 - General Prep - Wet Chem										
Blank (B308130-BLK1)				Prepared & Analyzed: 08/12/13						
Alkalinity, Total	ND	10.0	mg/L							
LCS (B308130-BS1)				Prepared & Analyzed: 08/12/13						
Alkalinity, Total	104	10.0	mg/L	100		104	85-115			
LCS Dup (B308130-BSD1)				Prepared & Analyzed: 08/12/13						
Alkalinity, Total	103	10.0	mg/L	100		103	85-115	0.966	20	
Batch B308141 - General Prep - Wet Chem										
Blank (B308141-BLK1)				Prepared: 08/13/13 Analyzed: 08/14/13						
TDS	ND	10.0	mg/L							
Duplicate (B308141-DUP2)		**Source: 1308113-01**		Prepared: 08/13/13 Analyzed: 08/14/13						
TDS	2420	10.0	mg/L		2480			2.45	20	
Reference (B308141-SRM1)				Prepared: 08/13/13 Analyzed: 08/14/13						
TDS	2740	10.0	mg/L				85-115			

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2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

General Chemistry - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308167 - General Prep - Wet Chem										
Blank (B308167-BLK1)				Prepared & Analyzed: 08/16/13						
Sulfate	ND	10.0	mg/L							
LCS (B308167-BS1)				Prepared & Analyzed: 08/16/13						
Sulfate	47.0	10.0	mg/L	50.0		94.0	85-115			
LCS Dup (B308167-BSD1)				Prepared & Analyzed: 08/16/13						
Sulfate	47.0	10.0	mg/L	50.0		94.0	85-115	0.00	20	
Batch B308181 - General Prep - Wet Chem										
Blank (B308181-BLK1)				Prepared & Analyzed: 08/16/13						
Phosphate as P, Total	ND	0.0500	mg/L							
LCS (B308181-BS1)				Prepared & Analyzed: 08/16/13						
Phosphate as P, Total	0.504	0.0500	mg/L	0.500		101	85-115			
LCS Dup (B308181-BSD1)				Prepared & Analyzed: 08/16/13						
Phosphate as P, Total	0.502	0.0500	mg/L	0.500		100	85-115	0.398	20	

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Waste Water Management, Inc.	Project: EC Durango Pilot	
2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

Total Recoverable Metals by ICP (E200.7) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308153 - EPA 200.2										
Blank (B308153-BLK1)				Prepared & Analyzed: 08/15/13						
Aluminum	ND	0.050	mg/L							
Iron	ND	0.050	mg/L							
Silicon	ND	0.500	mg/L							
LCS (B308153-BS1)				Prepared & Analyzed: 08/15/13						
Aluminum	4.38	0.050	mg/L	4.00		109	85-115			
Iron	4.39	0.050	mg/L	4.00		110	85-115			
Silicon	3.93	0.500	mg/L	4.00		98.3	85-115			
LCS Dup (B308153-BSD1)				Prepared & Analyzed: 08/15/13						
Aluminum	4.41	0.050	mg/L	4.00		110	85-115	0.851	20	
Iron	4.39	0.050	mg/L	4.00		110	85-115	0.0417	20	
Silicon	3.96	0.500	mg/L	4.00		99.0	85-115	0.712	20	

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Waste Water Management, Inc.	Project: EC Durango Pilot	
2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

Dissolved Metals by ICP - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308103 - Dissolved Metals, E200.7/E200.8										
Blank (B308103-BLK1)				Prepared: 08/12/13 Analyzed: 08/13/13						
Aluminum	ND	0.050	mg/L							
Calcium	ND	1.00	mg/L							
Iron	ND	0.050	mg/L							
Magnesium	ND	1.00	mg/L							
Potassium	ND	1.00	mg/L							
Silicon	ND	0.500	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B308103-BS1)				Prepared: 08/12/13 Analyzed: 08/13/13						
Aluminum	5.15	0.050	mg/L	5.00		103	85-115			
Calcium	5.09	1.00	mg/L	5.00		102	85-115			
Iron	5.16	0.050	mg/L	5.00		103	85-115			
Magnesium	26.7	1.00	mg/L	25.0		107	85-115			
Potassium	10.0	1.00	mg/L	10.0		100	85-115			
Silicon	4.92	0.500	mg/L	5.00		98.3	85-115			
Sodium	8.01	1.00	mg/L	8.10		98.9	85-115			
LCS Dup (B308103-BSD1)				Prepared: 08/12/13 Analyzed: 08/13/13						
Aluminum	5.16	0.050	mg/L	5.00		103	85-115	0.193	20	
Calcium	5.10	1.00	mg/L	5.00		102	85-115	0.177	20	
Iron	5.18	0.050	mg/L	5.00		104	85-115	0.232	20	
Magnesium	26.7	1.00	mg/L	25.0		107	85-115	0.0637	20	
Potassium	10.0	1.00	mg/L	10.0		100	85-115	0.121	20	
Silicon	4.95	0.500	mg/L	5.00		99.1	85-115	0.742	20	
Sodium	8.03	1.00	mg/L	8.10		99.2	85-115	0.239	20	

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2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

Total Recoverable Metals by ICPMS (E200.8) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308133 - EPA 200.2M										
Blank (B308133-BLK1)				Prepared: 08/13/13 Analyzed: 08/14/13						
Cadmium	ND	0.0001	mg/L							
Copper	0.0007	0.0001	mg/L							B3
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Zinc	0.0042	0.0010	mg/L							B3
LCS (B308133-BS1)				Prepared: 08/13/13 Analyzed: 08/14/13						
Cadmium	0.0508	0.0001	mg/L	0.0500		102	85-115			
Copper	0.0503	0.0001	mg/L	0.0500		101	85-115			
Lead	0.0481	0.0005	mg/L	0.0500		96.2	85-115			
Manganese	0.0461	0.0005	mg/L	0.0500		92.2	85-115			
Zinc	0.0576	0.0010	mg/L	0.0500		115	75-125			
LCS Dup (B308133-BSD1)				Prepared: 08/13/13 Analyzed: 08/14/13						
Cadmium	0.0514	0.0001	mg/L	0.0500		103	85-115	1.23	20	
Copper	0.0516	0.0001	mg/L	0.0500		103	85-115	2.60	20	
Lead	0.0495	0.0005	mg/L	0.0500		98.9	85-115	2.85	20	
Manganese	0.0473	0.0005	mg/L	0.0500		94.6	85-115	2.67	20	
Zinc	0.0510	0.0010	mg/L	0.0500		102	75-125	12.2	20	

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2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

Dissolved Metals by ICPMS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308121 - Dissolved Metals, E200.7/E200.8										
Blank (B308121-BLK1)				Prepared & Analyzed: 08/13/13						
Cadmium	ND	0.0001	mg/L							
Copper	ND	0.0001	mg/L							
Lead	ND	0.0005	mg/L							
Manganese	ND	0.0005	mg/L							
Zinc	ND	0.0010	mg/L							
LCS (B308121-BS1)				Prepared & Analyzed: 08/13/13						
Cadmium	0.0517	0.0001	mg/L	0.0500		103	85-115			
Copper	0.0536	0.0001	mg/L	0.0500		107	85-115			
Lead	0.0499	0.0005	mg/L	0.0500		99.9	85-115			
Manganese	0.0540	0.0005	mg/L	0.0500		108	85-115			
Zinc	0.0493	0.0010	mg/L	0.0500		98.6	85-115			
LCS Dup (B308121-BSD1)				Prepared & Analyzed: 08/13/13						
Cadmium	0.0518	0.0001	mg/L	0.0500		104	85-115	0.204	20	
Copper	0.0535	0.0001	mg/L	0.0500		107	85-115	0.104	20	
Lead	0.0489	0.0005	mg/L	0.0500		97.8	85-115	2.13	20	
Manganese	0.0536	0.0005	mg/L	0.0500		107	85-115	0.737	20	
Zinc	0.0518	0.0010	mg/L	0.0500		104	85-115	5.04	20	

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2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

Total Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308163 - EPA 245.1/7470										
Blank (B308163-BLK1)				Prepared & Analyzed: 08/16/13						
Mercury	ND	0.0002	mg/L							
LCS (B308163-BS1)				Prepared & Analyzed: 08/16/13						
Mercury	0.0021	0.0002	mg/L	0.00200		104	85-115			
LCS Dup (B308163-BSD1)				Prepared & Analyzed: 08/16/13						
Mercury	0.0021	0.0002	mg/L	0.00200		103	85-115	1.01	20	

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Waste Water Management, Inc.	Project: EC Durango Pilot	
2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

Dissolved Mercury by CVAA - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B308162 - EPA 245.1/7470										
Blank (B308162-BLK1)				Prepared & Analyzed: 08/16/13						
Mercury	ND	0.0002	mg/L							
LCS (B308162-BS1)				Prepared & Analyzed: 08/16/13						
Mercury	0.0021	0.0002	mg/L	0.00200		104	85-115			
LCS Dup (B308162-BSD1)				Prepared & Analyzed: 08/16/13						
Mercury	0.0021	0.0002	mg/L	0.00200		103	85-115	1.01	20	

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2820 Dorr Ave, Ste 200	Project Name / Number: BLM	**Reported:**
Fairfax VA, 22031	Project Manager: Mike Rigby	08/21/13 09:40

Notes and Definitions

M5	Sample was chosen for matrix spike. Spike recovery less than 50%, possible matrix interference in sample.
B3	Target analyte detected in method blank or continuing calibration blank. Reporting limit elevated to account for blank result.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis *Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

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ED_000552_00031064-00021

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CHAIN OF CUSTODY RECORD

Page_____ of _____

Client: Waste Water Management
Contact: David Rigby
Address: 2820 Dow Avenue #200
Fairfax VA 22031
Phone Number: 7038460098
Email: david.rigby@wwmi.net

NOTES:
1) Ensure proper container packaging.
2) Ship samples promptly following collection.
3) Designate Sample Reject Disposition.
PO#
Project Name:

Table 1. – Matrix Type
1 = Surface Water, 2 = Ground Water
3 = Soil/Sediment, 4 = Prod.W., 5 = Oil
6 = Waste, 7 = Other (Specify) *

FOR GAL USE ONLY
GAL JOB # 1308-113

Samplers Signature: David Rigby

Lab Name: Green Analytical Laboratories (970) 247-4220 FAX (970) 247-4227
Address: 75 Suttle Street, Durango, CO 81303 www.greenanalytical.com

Sample ID	Collection Date	Collection Time	Collected by: (Init.)	Matrix Type From Table 1	No. of Containers	Sample Filtered ? Y/N	Unpreserved (Ice Only)	HNO3	HCL	H2SO4	NAOH	Other (Specify)	Analyses Required: See Attached	Comments
1. Raw	8/8/13	1400	DJR	7	3		✓			✓				* Adit mine drainage, American Tunnel #18 25-27.3°
2. 2 Min		1400	DJR	"	3		✓			✓				
3. 5 Min		1430	DJR	"	3		✓			✓				
4. 5 Min #2		1430	DJR	"	3		✓			✓				
5.														
6.														
7.														
8.														
9.														
10.														

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
David Rigby	8/8/13	1700	Debbie Enfield	08-08-13	1700
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

* Sample Reject: [ ] Return [ ] Dispose [ ] Store (30 Days)

1779203

Project Information

Waste Water Management, Inc.
2820 Dorr Ave, Ste 200
Fairfax, VA 22031
Laboratory PM: **Debbie Zufelt**
Phone:(703) 846-0098
Fax:-

8/6/2013

Project Name:	EC Durango Pilot	**Invoice To:**	Waste Water Management, Inc.
Project Number:	BLM	**Invoice Bid:**	BLM
Client PM:	Mike Rigby	**Invoice Manager:**	Mike Rigby
Comments:			

Analysis	Comment
Alkalinity, Bicarbonate	
Alkalinity, Carbonate	
Alkalinity, Hydroxide	
Alkalinity, Total	
Aluminum Dissolved by ICP	
Aluminum Total Recoverable by	200.2
Cadmium Dissolved by ICPMS	
Cadmium Total Recoverable by I	
Calcium Dissolved by ICP	
Chloride	
Copper Dissolved by ICPMS	
Copper Total Recoverable by ICI	
Iron Dissolved by ICP	
Iron Total Recoverable by ICP	
Lead Dissolved by ICPMS	
Lead Total Recoverable by ICPM	
Magnesium Dissolved by ICP	
Manganese Dissolved by ICPMS	
Manganese Total Recoverable by	Just Dissolved CATS per Mike Rigby
Mercury Dissolved by CVAA	
Mercury Total by CVAA	
Potassium Dissolved by ICP	
Sodium Dissolved by ICP	
Sulfate	
Zinc Dissolved by ICPMS	
Zinc Total Recoverable by ICPM	

Add: Conductivity, TDS, pH, ~~Mn~~, ~~H_2S~~, Silica, ~~SO_4~~, Ca, K Mg, PO_4