

Laboratory Data



AIRTECH

*Environmental
Services Inc.*

Gravimetric Analytical Report

**Performed for
Big Rivers
Wilson Station-
Coal**

*Project No. 3648
August 23, 2011*

Analyst: _____
James Christ

The following data has been reviewed for completeness, accuracy, adherence to method protocol and compliance with quality assurance guidelines.

Reviewer: _____ Date: _____

Table of Contents

PROJECT SUMMARY.....	2
<i>General</i>	<i>2</i>
<i>Analytical Equipment</i>	<i>2</i>
<i>Sample Remarks</i>	<i>2</i>
<i>QA/QC</i>	<i>2</i>
<i>Condition of Samples When Received</i>	<i>2</i>
<i>Table 1. Summary of EPA Methods 5B/202 Results.....</i>	<i>3</i>

APPENDIX

Data Entry

Raw Data

Calibration Data

Project Summary

General

Project Information	
Date Received	July 18, 2011
Analytical Protocol	EPA Methods 5B/202
Number of Samples Received	75

Analytical Equipment

Equipment Information	Manufacturer	Model	Serial No.
Analytical Balance	Ohaus	AV114C	8028031056

Sample Remarks

All samples were analyzed according to the EPA Method 5 Section 4 and EPA Method 202 Section 11. A summary of the analytical results is presented in Table 1.

QA/QC

All sample weights were taken until two consecutive weights were within 0.0005g. The Ohaus balance was calibrated daily in addition to the yearly full scale calibration that was performed by Automated Scale Corporation on April 12, 2011.

Condition of Samples When Received

Samples were received in good condition.

Table 1. Summary of EPA Methods 5B/202 Results

Stack			
Filterable PM	Run 4	Run 5	Run 6
Front-Half Particulate (g)	0.0146	0.0161	0.0212
Condensable Particulate	Run 4	Run 5	Run 6
Condensable Particulate (g)	0.0225	0.0164	0.0200
Total Particulate	Run 4	Run 5	Run 6
Total Particulate (g)	0.0371	0.0326	0.0412
ESP 1 Outlet			
Filterable PM	Run 4	Run 5	Run 6
Front-Half Particulate (g)	0.0434	0.1093	0.0114
Condensable Particulate	Run 4	Run 5	Run 6
Condensable Particulate (g)	0.0250	0.0322	0.0438
Total Particulate	Run 4	Run 5	Run 6
Total Particulate (g)	0.0684	0.1415	0.0552
ESP 2 Outlet			
Filterable PM	Run 4	Run 5	Run 6
Front-Half Particulate (g)	0.0068	0.0180	0.0124
Condensable Particulate	Run 4	Run 5	Run 6
Condensable Particulate (g)	0.0165	0.0175	0.0594
Total Particulate	Run 4	Run 5	Run 6
Total Particulate (g)	0.0233	0.0355	0.0718

Table 1. Summary of EPA Methods 5B/202 Results continue

ESP 3 Outlet			
Filterable PM	Run 4	Run 5	Run 6
Front-Half Particulate (g)	0.0142	0.0044	0.0217
Condensable Particulate			
Condensable Particulate (g)	Run 4	Run 5	Run 6
	0.0416	0.0143	0.0100
Total Particulate			
Total Particulate (g)	Run 4	Run 5	Run 6
	0.0558	0.0187	0.0318
ESP 4 Outlet			
Filterable PM	Run 4	Run 5	Run 6
Front-Half Particulate (g)	0.0166	0.0076	0.1623
Condensable Particulate			
Condensable Particulate (g)	Run 4	Run 5	Run 6
	0.0473	0.0209	0.0393
Total Particulate			
Total Particulate (g)	Run 4	Run 5	Run 6
	0.0639	0.0285	0.2015

Appendix

Includes the following:

- *Data Entry*
- *Raw Data*
- *Calibration Logs*

Data Entry

Includes the following:

- *Filter Data Entry*
- *Front-Half-Rinse Data Entry*
- *Organic Fraction Data Entry*
- *Inorganic Fraction Data Entry*

Method 5B/202 Parameters		Run 4	Run 5	Run 6
<u>Filter</u>		12194	12165	12183
Filter tare weight (g)	Trial 1	0.3419	0.3423	0.3429
	Trial 2	0.3418	0.3418	0.3431
	Average	0.3419	0.3421	0.3430
Filter final weight (g)	Trial 1	0.3478	0.3478	0.3501
	Trial 2	0.3480	0.3478	0.3504
	Average	0.3479	0.3478	0.3503
Filter net weight, m_f (g)		0.0061	0.0058	0.0073
<u>PM Front Half Wash</u>		<i>Beaker ID</i> 39	41	36
Beaker tare weight (g)	Trial 1	33.5805	38.3863	36.4993
	Trial 2	33.5803	38.3862	36.4988
	Average	33.5804	38.3863	36.4991
Beaker final weight (g)	Trial 1	33.5892	38.3967	36.5133
	Trial 2	33.5887	38.3966	36.5127
	Average	33.5890	38.3967	36.5130
Volume of Wash, V_{aw} (ml)		75	75	75
Beaker net weight, m_a (g)		0.0085	0.0104	0.0140
<u>Organic Fraction</u>		<i>Weighing tin ID</i> A5	A6	A7
Weighing tin tare weight (g)	Trial 1	3.5326	3.5654	3.5652
	Trial 2	3.5329	3.5655	3.5653
	Average	3.5328	3.5655	3.5653
Weighing tin final weight (g)	Trial 1	3.5489	3.5718	3.5764
	Trial 2	3.5494	3.5718	3.5768
	Average	3.5492	3.5718	3.5766
Volume of Wash, V_{aw} (ml)		400	380	400
Weighing tin net weight, m_a (g)		0.0164	0.0063	0.0114
<u>Inorganic Fraction</u>		<i>Weighing tin ID</i> 104	143	4x
Weighing tin tare weight (g)	Trial 1	86.8781	84.6454	100.0224
	Trial 2	86.8779	84.6451	100.0229
	Average	86.8780	84.6453	100.0227
Weighing tin final weight (g)	Trial 1	86.8854	84.6563	100.0323
	Trial 2	86.8852	84.6567	100.0327
	Average	86.8853	84.6565	100.0325
Volume of Wash, V_{aw} (ml)		540	510	500
Weighing tin net weight, m_a (g)		0.0073	0.0112	0.0099

Method 5B/202 Parameters		Run 4	Run 5	Run 6
<u>Filter</u>		12195	12163	12184
Filter tare weight (g)	Trial 1	0.3438	0.3466	0.3419
	Trial 2	0.3436	0.3463	0.3419
	Average	0.3437	0.3465	0.3419
Filter final weight (g)	Trial 1	0.3774	0.3727	0.3482
	Trial 2	0.3775	0.3730	0.3485
	Average	0.3775	0.3729	0.3484
Filter net weight, m_f (g)		0.0338	0.0264	0.0065
<u>PM Front Half Wash</u>		<i>Beaker ID</i> 54	35	40
Beaker tare weight (g)	Trial 1	33.5812	31.8840	41.8885
	Trial 2	33.5809	31.8836	41.8885
	Average	33.5811	31.8838	41.8885
Beaker final weight (g)	Trial 1	33.5908	31.9669	41.8933
	Trial 2	33.5907	31.9666	41.8936
	Average	33.5908	31.9668	41.8935
Volume of Wash, V_{aw} (ml)		90	100	115
Beaker net weight, m_a (g)		0.0097	0.0829	0.0050
<u>Organic Fraction</u>		<i>Weighing tin ID</i> V3	V4	V5
Weighing tin tare weight (g)	Trial 1	3.5935	3.5564	3.5315
	Trial 2	3.5937	3.5565	3.5315
	Average	3.5936	3.5565	3.5315
Weighing tin final weight (g)	Trial 1	3.6041	3.5660	3.5449
	Trial 2	3.6036	3.5656	3.5447
	Average	3.6039	3.5658	3.5448
Volume of Wash, V_{aw} (ml)		250	100	400
Weighing tin net weight, m_a (g)		0.0102	0.0093	0.0133
<u>Inorganic Fraction</u>		<i>Weighing tin ID</i> 209	405	11
Weighing tin tare weight (g)	Trial 1	97.9871	101.5673	98.3269
	Trial 2	97.9874	101.5675	98.3271
	Average	97.9873	101.5674	98.3270
Weighing tin final weight (g)	Trial 1	98.0034	101.5912	98.3589
	Trial 2	98.0029	101.5916	98.3585
	Average	98.0032	101.5914	98.3587
Volume of Wash, V_{aw} (ml)		375	400	400
Weighing tin net weight, m_a (g)		0.0159	0.0240	0.0317

Method 5B/202 Parameters		Run 4	Run 5	Run 6
<u>Filter</u>		12197	12162	12185
Filter tare weight (g)	Trial 1	0.3442	0.3419	0.3413
	Trial 2	0.3443	0.3416	0.3416
	Average	0.3443	0.3418	0.3415
Filter final weight (g)	Trial 1	0.3467	0.3472	0.3465
	Trial 2	0.3467	0.3476	0.3464
	Average	0.3467	0.3474	0.3465
Filter net weight, m_f (g)		0.0025	0.0057	0.0050
<u>PM Front Half Wash</u>		<i>Beaker ID</i> 60	47	32
Beaker tare weight (g)	Trial 1	35.1142	37.3288	34.1293
	Trial 2	35.1142	37.3292	34.1293
	Average	35.1142	37.3290	34.1293
Beaker final weight (g)	Trial 1	35.1185	37.3412	34.1366
	Trial 2	35.1186	37.3415	34.1368
	Average	35.1186	37.3414	34.1367
Volume of Wash, V_{aw} (ml)		115	125	100
Beaker net weight, m_a (g)		0.0044	0.0124	0.0074
<u>Organic Fraction</u>				
		<i>Weighing tin ID</i> D3	D4	D5
Weighing tin tare weight (g)	Trial 1	3.5247	3.5515	3.5434
	Trial 2	3.5245	3.5515	3.5436
	Average	3.5246	3.5515	3.5435
Weighing tin final weight (g)	Trial 1	3.5314	3.5602	3.5532
	Trial 2	3.5313	3.5601	3.5528
	Average	3.5314	3.5602	3.5530
Volume of Wash, V_{aw} (ml)		400	400	400
Weighing tin net weight, m_a (g)		0.0067	0.0087	0.0095
<u>Inorganic Fraction</u>				
		<i>Weighing tin ID</i> 402	314	312
Weighing tin tare weight (g)	Trial 1	103.0443	84.0259	83.0589
	Trial 2	103.0443	84.0254	83.0584
	Average	103.0443	84.0257	83.0587
Weighing tin final weight (g)	Trial 1	103.0553	84.0358	83.1095
	Trial 2	103.0552	84.0355	83.1100
	Average	103.0553	84.0357	83.1098
Volume of Wash, V_{aw} (ml)		355	365	370
Weighing tin net weight, m_a (g)		0.0109	0.0100	0.0511

Method 5B/202 Parameters		Run 4	Run 5	Run 6
<u>Filter</u>		12193	12161	12186
Filter tare weight (g)	Trial 1	0.3434	0.3405	0.3423
	Trial 2	0.3434	0.3401	0.3427
	Average	0.3434	0.3403	0.3425
Filter final weight (g)	Trial 1	0.3505	0.3428	0.3477
	Trial 2	0.3501	0.3423	0.3473
	Average	0.3503	0.3426	0.3475
Filter net weight, m_f (g)		0.0069	0.0022	0.0050
<u>PM Front Half Wash</u>		<i>Beaker ID</i> 48	18	23
Beaker tare weight (g)	Trial 1	34.8961	34.4207	35.3062
	Trial 2	34.8957	34.4207	35.3063
	Average	34.8959	34.4207	35.3063
Beaker final weight (g)	Trial 1	34.9033	34.4227	35.3231
	Trial 2	34.9031	34.4230	35.3229
	Average	34.9032	34.4229	35.3230
Volume of Wash, V_{aw} (ml)		75	80	75
Beaker net weight, m_a (g)		0.0073	0.0022	0.0167
<u>Organic Fraction</u>		<i>Weighing tin ID</i> C5	C6	C7
Weighing tin tare weight (g)	Trial 1	3.5773	3.5078	3.5673
	Trial 2	3.5774	3.5074	3.5673
	Average	3.5774	3.5076	3.5673
Weighing tin final weight (g)	Trial 1	3.5866	3.5157	3.5698
	Trial 2	3.5866	3.5156	3.5701
	Average	3.5866	3.5157	3.5700
Volume of Wash, V_{aw} (ml)		380	325	400
Weighing tin net weight, m_a (g)		0.0092	0.0080	0.0027
<u>Inorganic Fraction</u>		<i>Weighing tin ID</i> 124	106	57
Weighing tin tare weight (g)	Trial 1	82.0326	81.2737	105.6681
	Trial 2	82.0328	81.2739	105.6676
	Average	82.0327	81.2738	105.6679
Weighing tin final weight (g)	Trial 1	82.0665	81.2814	105.6762
	Trial 2	82.0660	81.2811	105.6766
	Average	82.0663	81.2813	105.6764
Volume of Wash, V_{aw} (ml)		460	106	425
Weighing tin net weight, m_a (g)		0.0335	0.0075	0.0086

Method 5B/202 Parameters		Run 4	Run 5	Run 6
<u>Filter</u>		12196	12164	12187
Filter tare weight (g)	Trial 1	0.3428	0.3437	0.3433
	Trial 2	0.3428	0.3433	0.3434
	Average	0.3428	0.3435	0.3434
Filter final weight (g)	Trial 1	0.3513	0.3480	0.4040
	Trial 2	0.3516	0.3481	0.4040
	Average	0.3515	0.3481	0.4040
Filter net weight, m_f (g)		0.0087	0.0045	0.0607
<u>PM Front Half Wash</u>		<i>Beaker ID</i> 29	37	34
Beaker tare weight (g)	Trial 1	35.3022	36.4366	37.3364
	Trial 2	35.3026	36.4370	37.3360
	Average	35.3024	36.4368	37.3362
Beaker final weight (g)	Trial 1	35.3101	36.4397	37.4378
	Trial 2	35.3106	36.4400	37.4378
	Average	35.3104	36.4399	37.4378
Volume of Wash, V_{aw} (ml)		75	125	100
Beaker net weight, m_a (g)		0.0080	0.0031	0.1016
<u>Organic Fraction</u>		<i>Weighing tin ID</i> B7	B8	C1
Weighing tin tare weight (g)	Trial 1	3.5487	3.5863	3.5555
	Trial 2	3.5485	3.5862	3.5560
	Average	3.5486	3.5863	3.5558
Weighing tin final weight (g)	Trial 1	3.5564	3.5942	3.5682
	Trial 2	3.5567	3.5945	3.5677
	Average	3.5566	3.5944	3.5680
Volume of Wash, V_{aw} (ml)		450	430	495
Weighing tin net weight, m_a (g)		0.0079	0.0081	0.0122
<u>Inorganic Fraction</u>		<i>Weighing tin ID</i> 112	240	63
Weighing tin tare weight (g)	Trial 1	87.6266	82.8559	104.2885
	Trial 2	87.6271	82.8555	104.2890
	Average	87.6269	82.8557	104.2888
Weighing tin final weight (g)	Trial 1	87.6674	82.8699	104.3171
	Trial 2	87.6674	82.8695	104.3169
	Average	87.6674	82.8697	104.3170
Volume of Wash, V_{aw} (ml)		450	425	435
Weighing tin net weight, m_a (g)		0.0406	0.0140	0.0283

Raw Data

Includes the following:

- *Filter Gravimetric Data Sheets*
- *Beaker Gravimetric Data Sheets*
- *Tin Gravimetric Data Sheets*

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Filter Gravimetric Data Sheet

Run No.	Proj. No./Location	Appearance	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
3 Filter ID 12160	3649 Zink	Black	Tare	0.3420	7/11 13:28	0.3418	7/13 22:07		✓	
			Tech		SH					
			Final	0.3779	8/11 10:25	0.3794	8/11 16:40		✓	
			Tech		SH					
			Notes							
S Filter ID 12161	3648 Wilson ESP 7	Light Brown Spots	Tare	0.3405	7/11 13:29	0.3401	7/14 16:03		✓	
			Tech		SH		DD			
			Final	0.3428	7/27 16:07	0.3423	7/28 10:00		✓	
			Tech		SH		MH			
			Notes							
S Filter ID 12162	3648 Wilson ESP 2	Brown Spots	Tare	0.3419	7/11 13:30	0.3416	7/14 16:04		✓	
			Tech		SH		DD			
			Final	0.3472	7/27 15:54	0.3476	7/28 10:34		✓	
			Tech		SH		MH			
			Notes							
S Filter ID 12163	3648 Wilson Esp1	Brown Spots	Tare	0.3466	7/11 13:31	0.3463	7/14 16:05		✓	
			Tech		SH		DD			
			Final	0.3727	7/27 15:50	0.3730	7/28 10:20		✓	
			Tech		SH		MH			
			Notes							
S Filter ID 12164	3648 Wilson ESP 4	White Spots	Tare	0.3437	7/11 13:32	0.3433	7/14 16:06		✓	
			Tech		SH		DD			
			Final	0.3480	7/27 15:50	0.3481	7/28 10:17		✓	
			Tech		SH		MH			
			Notes							
S Filter ID 12165	3648 Wilson Stall	Light Spots	Tare	0.3423	7/11 13:33	0.3418	7/14 16:07		✓	
			Tech		SH		DD			
			Final	0.3478	7/27 15:50	0.3478	7/28 10:26		✓	
			Tech		SH		MH			
			Notes							
Filter ID 12166			Tare	0.3449	7/11 13:35	0.3445	7/14 16:08		✓	
			Tech		SH		DD			
			Final							
			Tech							
			Notes							
Filter ID 12167			Tare	0.3463	7/11 13:36	0.3458	7/14 16:09		✓	
			Tech		SH		DD			
			Final							
			Tech							
			Notes							
Filter ID 12168			Tare	0.3449	7/11 13:38	0.3442	7/14 16:10	0.3441	7/15 10:42	✓
			Tech		SH		DD			
			Final							
			Tech							
			Notes						Filter Grav	

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Filter Gravimetric Data Sheet

Run No.	Proj. No./Location	Appearance	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
12178			Tare	0.3415	7/11 14:04	0.3417	7/14 16:20		✓
			Tech		SH		DD		
			Final						
			Tech						
			Notes						
12179			Tare	0.3432	7/11 14:05	0.3435	7/14 16:21		✓
			Tech		SH		DD		
			Final						
			Tech						
			Notes						
12180			Tare	0.3431	7/11 14:06	0.3432	7/14 16:22		✓
			Tech		SH		DD		
			Final						
			Tech						
			Notes						
12181			Tare	0.3412	7/11 14:08	0.3414	7/14 16:23		✓
			Tech		SH		DD		
			Final						
			Tech						
			Notes						
12182			Tare	0.3395	7/11 14:09	0.3397	7/14 16:24		✓
			Tech		SH		DD		
			Final						
			Tech						
			Notes						
12183	3648 Wilson Stack	light Brown Spots	Tare	0.3429	7/11 14:09	0.3431	7/14 16:24		✓
			Tech		SH		DD		
			Final	0.3501	7/27 15:45	0.3504	7/28 10:30		✓
			Tech		SH		MH		
			Notes						
12184	3648 Wilson ESP 1	light Brown Spots	Tare	0.3419	7/11 14:11	0.3419	7/14 16:25		✓
			Tech		SH		DD		
			Final	0.3482	7/27 15:	0.3485	7/28 10:19		
			Tech		SH		MH		
			Notes						
12185	3648 Wilson RSP 2	light Spots	Tare	0.3413	7/11 14:12	0.3414	7/14 16:26		✓
			Tech		SH		DD		
			Final	0.3465	7/27 15:50	0.3464	7/28 10:32		✓
			Tech		SH		MH		
			Notes						
12186	3648 Wilson ESP 3	light Brown Spots	Tare	0.3423	7/11 14:13	0.3427	7/14 16:27		✓
			Tech		SH		DD		
			Final	0.3477	7/27 15:59	0.3473	7/28 10:09		✓
			Tech		SH		MH		
			Notes						

Filter Grav

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Filter Gravimetric Data Sheet

Run No.	Proj. No./Location	Appearance	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
12187	3648 Wilson ESP4	Brown Dots	Tare	0.3433	7/11 14:15	0.3434	7/14 16:28		✓
			Tech		SH				
			Final	0.4040	7/27 15:31	0.4040	7/28 10:18		
			Tech		SH		MH		
			Notes						
12188			Tare	0.3448	7/11 14:16	0.3451	7/14 16:29		✓
			Tech		SH		DD		
			Final						
			Tech						
			Notes						
12189			Tare	0.3445	7/11 14:18	0.3446	7/14 16:30		✓
			Tech		SH		DD		
			Final						
			Tech						
			Notes						
12190			Tare	0.3431	7/11 14:20	0.3432	7/14 16:31		✓
			Tech		SH		DD		
			Final						
			Tech						
			Notes						
12191			Tare	0.3425	7/11 14:22	0.3425	7/14 16:32		✓
			Tech		SH		DD		
			Final						
			Tech						
			Notes						
12192			Tare	0.3453	7/11 14:23	0.3454	7/14 16:33		✓
			Tech		SH		DD		
			Final						
			Tech						
			Notes						
12193	3648 Wilson ESP3	light spots	Tare	0.3434	7/11 14:24	0.3434	7/14 16:34		✓
			Tech		SH		DD		
			Final	0.3505	7/27 14:04	0.3501	7/28 10:04		✓
			Tech		SH		MH		
			Notes						
12194	3648 Wilson Stack	light Brown spots	Tare	0.3419	7/11 14:25	0.3418	7/14 16:35		✓
			Tech		SH		DD		
			Final	0.3470	7/27 15:47	0.3480	7/28 10:28		✓
			Tech		SH		MH		
			Notes						
12195	3648 Wilson ESP1	Brown spots	Tare	0.3438	7/11 14:26	0.3434	7/14 16:36		✓
			Tech		SH		DD		
			Final	0.3784	7/27 15:36	0.3795	7/28 10:21		
			Tech		SH		MH		
			Notes	Filter Grav					

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Filter Gravimetric Data Sheet

14:28

Run No.	Proj. No./Location	Appearance	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
4 Filter ID 12196	3648 Wilson ESP 02	light spots	Tare	0.3428	7/11 14:28	0.3428	7/14 16:32		✓
			Tech		SH	DD			
			Final	0.3513	7/27 15:55	0.3516	7/28 10:33		✓
			Tech		SH	MH			
Notes									
4 Filter ID 12197	3648 Wilson ESP 02	white dots	Tare	0.3442	7/11 14:32	0.3443	7/14 15:51		✓
			Tech		SH	DD			
			Final	0.3467	7/27 15:29	0.3467	7/28 10:15		✓
			Tech		SH	MH			
Notes									
Filter ID 12198			Tare	0.3410	7/11 14:33	0.3410	7/14 15:53		✓
			Tech		SH	DD			
			Final						
			Tech						
Notes									
Filter ID 12199			Tare	0.3417	7/11 14:34	0.3416	7/14 15:55		✓
			Tech		SH	DD			
			Final						
			Tech						
Notes									
Filter ID 12200			Tare	0.3468	7/11 14:35	0.3469	7/14 15:56		✓
			Tech		SH	DD			
			Final						
			Tech						
Notes									
Filter ID 12201			Tare	0.3422	7/11 14:36	0.3422	7/14 15:57		✓
			Tech		SH	DD			
			Final						
			Tech						
Notes									
1 Filter ID 12202	3615 H.Ler BH	Gray dots	Tare	0.3420	7/11 14:38	0.3419	7/14 15:58		✓
			Tech		SH	DD			
			Final	0.3435	8/8 11:31	0.3437	8/9 7:35		✓
			Tech		MH				
Notes									
3 Filter ID 12203	3615 H.Ler BH	Gray dots	Tare	0.3430	7/11 14:40	0.3439	7/14 15:58		✓
			Tech		SH	DD			
			Final	0.3456	8/8 11:32	0.3452	8/9 7:35		✓
			Tech		MH				
Notes									
2 Filter ID 12204	3615 H.Ler BH	Gray dots	Tare	0.3436	7/11 14:40	0.3435	7/14 15:59		✓
			Tech		SH	DD			
			Final	0.3456	8/8 11:32	0.3452	8/9 7:34		✓
			Tech		MH				
Notes Filter Grav									

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648-wilson

Page of

Client	Big Rivers	Date Received	7/22/11
Plant	Calumet Station Wilson		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
3	Stack 200+ 206 mls	202 DI	Tare	94.4496	7/7 7:29	94.4489	7/8 8:10	94.4489	7/11 5:48	✓
			Tech							
			Final							
			Tech							
Beaker ID										
206										
3	EST 200+ 208 mls	202 DI	Tare	94.4544	7/7 7:30	94.4540	7/8 8:09	94.4544	7/11 5:46	✓
			Tech							
			Final							
			Tech							
Beaker ID										
208										
3	EST-2 200+ 118 mls	202 DI	Tare	96.2313	7/7 7:30	96.2313	7/8 8:09	96.2318	7/11 5:46	✓
			Tech							
			Final							
			Tech							
Beaker ID										
118										
3	ESP-3 200+ 114 mls	202 DI	Tare	96.0061	7/7 7:30	96.0061	7/8 8:09	96.0061	7/11 5:46	✓
			Tech							
			Final							
			Tech							
Beaker ID										
114										
1	Stack wt 200 400 mls	202 DI	Tare	103.5487	7/7 7:31	103.5480	7/8 8:08	103.5484	7/11 5:47	✓
			Tech							
			Final	103.5587	7/11 10:19	103.5592	7/29 10:09			✓
			Tech		MH		MH			
Beaker ID										
61										
2	Stack wt 215 415 mls	202 DI	Tare	84.8560	7/7 7:31	84.8556	7/8 8:08			✓
			Tech							
			Final	84.8621	7/28 10:48	84.8666	7/29 10:09			✓
			Tech		MH		MH			
Beaker ID										
205										
3	Stack 200+ 230 430 mls	202 DI	Tare	85.8968	7/7 7:32	85.8962	7/8 8:07	85.8967	7/11 5:47	✓
			Tech							
			Final	85.9020	7/28 10:49	85.9015	7/29 10:10			✓
			Tech		MH		MH			
Beaker ID										
140										
4	Stack wt 215 + 125 340 mls	202 DI	Tare	86.8781	7/7 7:32	86.8779	7/8 8:07			✓
			Tech							
			Final	86.8854	7/28 10:51	86.8852	7/29 10:08			✓
			Tech		MH		MH			
Beaker ID										
104										

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648 - Wilson

Page		of	
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Client	<u>Big Rivers</u>	Date Received	<u>7/22</u>
Plant	<u>Wilson</u>		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
5	Stack 200+200+ 110 mls	202 DI	Tare	84.6454	7/7 7:24	84.6451	7/8 8:13		✓	
			Tech							
			Final	84.65568	8/2 10:24	84.6567	8/4 7:46		✓	
			Tech		MH					
143										
6	Stack 200+200 100 mls	202 DI	Tare	100.0231	7/7 7:24	100.0224	7/8 8:13	100.0229	7/11 5:45	✓
			Tech							
			Final	100.0323	8/2 10:24	100.0327	8/4 7:45		✓	
			Tech		MH					
4x										
1	ESP 4 200+100 300 mls	202 DI	Tare	87.7732	7/7 7:27	87.7729	7/8 8:12		✓	
			Tech							
			Final	87.9004	8/1 10:27	87.9001	8/4 7:13		✓	
			Tech		MH					
303										
2	ESP 4 200+185 385 mls	202 DI	Tare	85.88	7/7 7:27	85.8688	7/8 8:12		✓	
			Tech	85.8692						
			Final	85.8806	8/1 10:27	85.8811	8/1 16:57		✓	
			Tech		MH		MH			
121										
3	ESP 4 200+175 375 mls	202 DI	Tare	81.6899	7/7 7:27	81.6881	7/8 8:11	81.6881	7/11 5:49	✓
			Tech							
			Final	81.7160	8/1 10:22	81.7164	8/4 7:47		✓	
			Tech		MH					
132										
4	ESP 4 200+200+50 450 mls	202 DI	Tare	87.6272	7/7 7:28	87.6266	7/8 8:12	87.6271	7/11 5:49	✓
			Tech							
			Final	87.6754	8/1 10:28	87.6734	8/4 7:48	87.6624	8/8 11:12	✓
			Tech		MH			MH		
112										
5	ESP 4 200+175 +50 425 mls	202 DI	Tare	82.8559	7/7 7:28	82.8555	7/8 8:11		✓	
			Tech							
			Final	82.8699	8/1 10:26	82.8695	8/2 9:59		✓	
			Tech		MH		MH			
240										
6	ESP 4 200+175 +60 435 mls	202 DI	Tare	104.2893	7/7 7:29	104.2885	7/8 8:10	104.2890	7/11 5:50	✓
			Tech							
			Final	104.3199	8/2 10:26	104.3223	8/4 7:46	104.3171	8/9 7:27	✓
			Tech		MH					
63										

8/2/04
8/4 7:27

104/316
8/11 11:12
MH

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648

Page of

Client	Big Rivers	Date Received	7/22
Plant	Wilson Station		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
1	Stack	202 Hex/Ace	Tare	3.5655	6/30 9:29	3.5653	6/30 16:01		✓
			Tech		NR		NR		
			Final	3.5732	7/28 10:43	3.5728	7/29 9:56		✓
			Tech		MH		MH		
Beaker ID	200+175								
A2	375 mls								
2	Stack	202 Hex/Ace	Tare	3.5644	6/30 9:29	3.5643	6/30 16:01		✓
			Tech		NR		NR		
			Final	3.5685	7/28 10:44	3.5692	7/29 9:57		✓
			Tech	88	MH		MH		
Beaker ID	200+100								
A3	300 mls								
3	Stack	202 Hex/Ace	Tare	3.5481	6/30 9:31	3.5483	6/30 16:00		✓
			Tech		NR		NR		
			Final	3.5629	7/29 16:41	3.5625	8/1 10:35		✓
			Tech		MH		MH		
Beaker ID	200+200+25								
A4	425 mls								
4	Stack	202 Hex/Ace	Tare	3.5326	6/30 9:30	3.5329	6/30 16:01		✓
			Tech		NR		NR		
			Final	3.5489	7/28 10:44	3.5494	7/29 9:59		✓
			Tech		MH		MH		
Beaker ID	200+200								
A5	mls								
5	Stack	202 Hex/Ace	Tare	3.5654	6/30 9:30	3.5655	6/30 16:00		✓
			Tech		NR		NR		
			Final	3.5718	7/29 16:41	3.5718	8/1 10:34		✓
			Tech		MH		MH		
Beaker ID	200+180								
A6	380 mls								
6	Stack	202 Hex/Ace	Tare	3.5652	6/30 9:32	3.5653	6/30 15:39		✓
			Tech		NR		NR		
			Final	3.5764	7/29 16:42	3.5768	8/1 10:31		✓
			Tech		MH		MH		
Beaker ID	200+200								
A7	400 mls								
7	ESP-4	202 Hex/Ace	Tare	3.5722	6/30 9:32	3.5719	6/30 15:59		✓
			Tech		NR		NR		
			Final	3.5789	7/29 16:40	3.5789	8/1 10:35		✓
			Tech	79	MH		MH		
Beaker ID	200+185								
A8	385 mls								
			Tare						
			Tech						
			Final						
			Tech						
Beaker ID									
	mls								

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648

Page of

Client	Big Rivers	Date Received	7/22
Plant	Wilson Station		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
1	Stack	SB	Tare	35.7610	7/11 15:00	35.7611	7/25 11:26		✓	
			Tech		SH					
			Final	35.7898	7/28 10:56	35.7900	7/29 11:18		✓	
			Tech		MH		MH			
49	100 mls	Ace								
2	Stack	SB	Tare	33.9784	7/11 15:01	33.9781	7/25 11:26		✓	
			Tech		SH					
			Final	33.9853	7/28 10:51	33.9850	7/29 11:16		✓	
			Tech	49	MH		MH			
38	160 mls	Ace								
3	Stack	SB	Tare	30.6513	7/11 15:02	30.6512	7/25 11:26		✓	
			Tech		SH					
			Final	30.6702	7/28 10:51	30.6701	7/29 11:17		✓	
			Tech		MH		MH			
58	75 mls	Ace								
4	Stack	SB	Tare	33.5805	7/11 15:02	33.5803	7/25 11:27		✓	
			Tech		SH					
			Final	33.5892	7/28 10:53	33.5887	7/29 11:15		✓	
			Tech		MH		MH			
39	75 mls	Ace								
5	Stack	SB	Tare	38.3863	7/11 15:03	38.3862	7/25 11:30		✓	
			Tech		SH					
			Final	38.3967	7/28 10:56	38.3966	7/29 11:18		✓	
			Tech		MH		MH			
41	75 mls	Ace								
6	Stack	SB	Tare	36.4993	7/11 15:05	36.4988	7/25 11:29		✓	
			Tech		SH					
			Final	36.5133	7/28 10:56	36.5127	7/29 11:19		✓	
			Tech		MH		MH			
36	75 mls	Ace								
1	ESP-4	SB	Tare	30.6940	7/11 15:05	30.6915	7/25 11:28	30.6917	7/26 10:19	✓
			Tech		SH					
			Final	30.6935	7/28 10:55	30.6936	7/29 11:16		✓	
			Tech		MH		MH			
42	75 mls	Ace								
2	ESP-4	SB	Tare	40.6305	7/11 15:06	40.6286	7/25 11:29	40.6283	7/26 10:19	✓
			Tech		SH					
			Final	40.6530	7/28 10:53	40.6532	7/29 11:17		✓	
			Tech		MH		MH			
57	75 mls	Ace								

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3618 - Wilson

Page of

Client	Big Rivers	Date Received	7/22
Plant	Wilson, KY		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good		
4	ESP-1 200+175 375 mls	DI	Tare	97.9887	7/27 14:22	97.9871	7/28 11:26	97.9874	7/28 9:21	✓	
			Tech		SH		MH		MH		
			Final	98.0034	8/5 7:25	98.0029	8/8 11:09				✓
			Tech		/		MH				
Notes											
5	ESP-1 200+200 400 mls	DI	Tare	101.5684	7/27 14:23	101.5673	7/28 11:27	101.5675	7/28 9:21	✓	
			Tech		SH		MH		MH		
			Final	101.5943	8/4 7:09	101.5931	8/5 7:26	101.5912	8/8 11:05	✓	
			Tech		/		/		MH		
Notes											
6	ESP-1 200+200 400 mls	DI	Tare	98.3276	7/27 14:23	98.3269	7/28 11:27	98.3281	7/28 9:22	✓	
			Tech		SH		MH		MH		
			Final	98.3589	8/4 7:09	98.3585	8/5 7:25			✓	
			Tech		/		/				
Notes											
406			Tare	109.4984	7/27 14:24	109.4972	11:28 7/28	109.4980	7/28 9:29	✓	
			Tech		SH		MH		MH		
			Final								
			Tech								
Notes											
107			Tare	85.8483	7/27 14:25	85.8489	7/28 11:28	85.8483	7/28 9:24	✓	
			Tech		SH		MH		MH		
			Final								
			Tech								
Notes											
401			Tare	101.3256	7/27 14:25	101.3241	7/28 11:29	101.3245	7/28 9:26	✓	
			Tech		SH		MH		MH		
			Final								
			Tech								
Notes											
410			Tare	102.6887	7/27 14:26	102.0871	7/28 11:29	101.0875	7/28 9:30	✓	
			Tech		SH		MH		MH		
			Final								
			Tech								
Notes											
316			Tare	85.7036	7/27 14:27	85.7021	7/28 11:30	85.7029	7/28 9:30	✓	
			Tech		SH		MH		MH		
			Final								
			Tech								
Notes											

101.5912
8/8 11:05
7

2

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648

Page of

Client	Big River	Date Received	2/22
Plant	Wilson		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
1	ESP-1	SB	Tare	35.8180	7/11 15:17	35.8155	7/26 10:46	35.8152	7/27 13:41	✓
			Tech		SH		MH		SH	
21	145 mls	Ace	Final	36.0010	8/4 7:52	36.0012	8/5 10:20			✓
			Tech		/		MH			
Notes										
2	ESP-1	SB	Tare	35.3656	7/11 15:18	35.3629	7/26 10:44	35.3628	7/27 13:39	✓
			Tech		SH		MH		SH	
24	100 mls	Ace	Final	35.3670	8/4 7:59	35.3679	8/5 10:23	35.		✓
			Tech		/		MH			
Notes										
3	ESP-1	SB	Tare	36.6370	7/11 15:19	36.6345	7/26 10:44	36.6340	7/27 13:32	✓
			Tech		SH		MH		SH	
56	145 mls	Ace	Final	36.6391	8/4 7:53	36.6389	8/5 10:21			✓
			Tech		/		MH			
Notes										
4	ESP-1	SB	Tare	33.5837	7/11 15:21	33.5812	7/26 10:45	33.5809	7/27 13:37	✓
			Tech		SH		MH		SH	
54	90 mls	Ace	Final	33.5908	8/4 8:00	33.5907	8/5 10:22			✓
			Tech		/		MH			
Notes										
5	ESP-1	SB	Tare	31.8863	7/11 15:22	31.8840	7/26 10:45	31.8836	7/27 13:35	✓
			Tech		SH		MH		SH	
35	100 mls	Ace	Final	31.9619	8/4 7:52	31.9609	8/5 10:22	31.9606	8/5 11:15	✓
			Tech		/		MH		MH	
Notes										
6	ESP-1	SB	Tare	41.8911	7/11 15:22	41.8885	7/26 10:45	41.8885	7/27 13:40	✓
			Tech		SH		MH		SH	
40	115 mls	Ace	Final	41.8933	8/4 7:58	41.8936	8/5 10:23			✓
			Tech		/		MH			
Notes										
70	mls		Tare	37.9525	7/11 15:23	37.9497	7/26 10:46	37.9497	7/27 13:39	✓
			Tech		SH		MH		SH	
Notes										
27	mls		Tare	34.6279	7/11 15:24	34.6252	7/26 10:47	34.6249	7/27 13:38	✓
			Tech		SH		MH		SH	
Notes										

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

10

PROJECT NO. 3648-willson

Page	of
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Client	<u>Big Rivers</u>	Date Received	
Plant	<u>Willson</u>		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
2	ESP 2 200+50	202 Hex	Tare	3.5292	6/30 9:42	3.5295	6/30 5:44		✓	
			Tech							
			Final	3.5335	8/2 10:20	3.5330	8/4 7:28		✓	
			Tech		MH					
D1	250 mls									
3	ESP-2 200+190	202 Hex	Tare	3.4424	6/30 9:42	3.4432	6/30 15:44		✓	
			Tech							
			Final	3.5039	8/2 10:19	3.5036	8/4 7:28		✓	
			Tech		MH					
D2	390 mls									
4	ESP 2 200+200	202 Hex	Tare	3.5244	6/30 9:42	3.5245	6/30 15:44		✓	
			Tech							
			Final	3.5497	8/2 10:18	3.5494	8/4 7:29	3.5317	8/5 10:11	✓
			Tech	3.5497	MH					
D3	400 mls									
5	ESP-2 200+200	202 Hex	Tare	3.5515	6/30 9:41	3.5515	6/30 15:44		✓	
			Tech							
			Final	3.5602	8/2 10:18	3.5601	8/4 7:29		✓	
			Tech		MH					
D4	400 mls									
6	ESP 2 200+200	202 Hex	Tare	3.5434	6/30 9:41	3.5436	6/30 15:44		✓	
			Tech							
			Final	3.5532	8/2 10:19	3.5528	8/4 7:29		✓	
			Tech		MH					
D5	400 mls									
1	ESP-1 200+200	202 Hex	Tare	3.5701	6/30 9:41	3.5701	6/30 15:44		✓	
			Tech							
			Final	3.5863	8/4 7:19	3.5869	8/5 9:54			
			Tech	73	7			MH		
D6	400 mls									
2	ESP-1 200+200+50	202 Hex	Tare	3.5468	6/30 9:40	3.5476	6/30 15:50		✓	
			Tech							
			Final	3.5553	8/4 7:48	3.5550	8/5 9:53		✓	
			Tech		7			MH		
D7	450 mls									
3	ESP 1 200+200+25	202 Hex	Tare	3.5604	6/30 9:40	3.5606	6/30 16:50		✓	
			Tech							
			Final	3.5709	8/4 7:18	3.5698	8/5 9:53	3.5700	8/8 12:09	✓
			Tech					MH	MH	
D8	475 mls									

3.5317
8/5 10:11
✓

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648 Wilson

Page		of	
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Client	<u>Big Rivers</u>	Date Received	<u>7/22</u>
Plant	<u>Wilson, K.</u>		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
2	ESP-2 200+145 306 345 mls	DI	Tare	85.4139	7/27 14:15	85.4126	7/28 11:21	85.4126	7/29 9:31	✓
			Tech		SH		MH		MH	
			Final	85.4238	8/2 10:03	85.4239	8/4 7:42			✓
			Tech		MH		/			
			Notes							
3	ESP-2 200+145 48408 345 mls	DI	Tare	106.3264	7/27 14:15	106.3249	7/28 11:21	106.3243	7/29 9:32	✓
			Tech		SH		MH		MH	
			Final	106.3376	8/2 10:00	106.3371	8/4 7:43			✓
			Tech		MH		/			
			Notes							
4	ESP-2 200+155 402 355 mls	DI	Tare	103.0434	7/27 14:16	103.0413	7/28 11:22	103.0443	7/29 9:32	✓
			Tech		SH		MH		MH	
			Final	103.0553	8/2 10:02	103.0552	8/4 7:44			✓
			Tech		MH		/			
			Notes							
5	ESP-2 200+165 314 365 mls	DI	Tare	84.0267	7/27 14:17	84.0259	7/28 11:22	84.0254	7/29 9:33	✓
			Tech		SH		MH		MH	
			Final	84.0598	8/2 10:04	84.0543	8/4 7:45	84.0358	8/5 10:13	✓
			Tech		MH		/		/	
			Notes							
C	ESP-2 200+170 312 370 mls	DI	Tare	83.0600	7/27 14:18	83.0589	7/28 11:23	83.0584	7/29 9:34	✓
			Tech		SH		MH		MH	
			Final	83.1095	8/2 10:01	83.1100	8/4 7:42			✓
			Tech		MH		/			
			Notes							
1	ESP-1 200+125 415 325 mls	DI	Tare	106.4711	7/27 14:19	106.4700	7/28 11:23	106.4696	7/29 9:35	✓
			Tech		SH		MH		MH	
			Final	106.4945	8/2 10:01	106.4949	8/4 7:41			✓
			Tech		MH		/			
			Notes							
2	ESP-1 200+200 411 400 mls	DI	Tare	103.3263	7/27 14:19	103.3249	7/28 11:24	103.3246	7/29 9:36	✓
			Tech		SH		MH		MH	
			Final	103.3340	8/4 7:11	103.3335	8/5 7:24			✓
			Tech		/		/			
			Notes							
3	ESP-1 200+110 409 310 mls	DI	Tare	107.5282	7/27 14:20	107.5265	7/28 11:25	107.5264	7/29 9:37	✓
			Tech		SH		MH		MH	
			Final	107.5789	8/4 7:44	107.5790	8/5 10:41			✓
			Tech		/		MH			
			Notes							

106.3243
8/2 10:17
MH

84.0358
8/4 5:08
MH

3

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648

Page of

Client	Big River	Date Received	7/22/11
Plant	Wilson		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
5	ESP 3	S FHC Ace	Tare	34.4207	7/11 15:32	34.4207	7/25 11:33		✓
			Tech		SH				
Beaker ID			Final	34.4227	8/4 7:59	34.4230	8/5 10:18		✓
18	80 mls		Tech		1		MH		
			Notes						
6	ESP 3	S Ace	Tare	35.3062	7/11 15:32	35.3063	7/25 11:32		✓
			Tech		SH				
Beaker ID			Final	35.3231	8/4 8:02	35.3229	8/5 10:16		✓
23	75 mls		Tech		7		MH		
			Notes						
1	ESP 2	S Ace	Tare	40.1538	7/11 15:33	40.1540	7/25 11:32		✓
			Tech		SH				
Beaker ID			Final	40.1576	8/4 7:58	40.1577	8/5 10:14		✓
15	125 mls		Tech		1		MH		
			Notes						
7	ESP 2	S Ace	Tare	35.6451	7/11 15:33	35.6451	7/25 11:32		✓
			Tech		SH				
Beaker ID			Final	35.6471	8/4 7:53	35.6477	8/5 10:17		✓
30	110 mls		Tech		1		MH		
			Notes						
3	ESP 2	S Ace	Tare	40.3678	7/11 15:34	40.3712	7/25 11:31		✓
			Tech		SH				
Beaker ID			Final	40.3713	8/4 7:54	40.3740	8/5 10:15		✓
28	90 mls		Tech		1		MH		
			Notes						
4	ESP-2	S Ace	Tare	35.1142	7/25 11:23	35.1142	7/26 10:40		✓
			Tech				MH		
Beaker ID			Final	35.1185	8/4 7:55	35.1186	8/5 10:17		✓
60	115 mls		Tech		1		MH		
			Notes						
5	ESP 2	S Ace	Tare	37.3288	7/25 11:24	37.3292	7/26 10:39		✓
			Tech				MH		
Beaker ID			Final	37.3412	8/4 8:02	37.3415	8/5 10:16		✓
47	125 mls		Tech		1		MH		
			Notes						
6	ESP 2	S Ace	Tare	34.1283	7/25 11:24	34.1293	7/26 10:59		✓
			Tech				MH		
Beaker ID			Final	34.1366	8/4 7:58	34.1368	8/5 10:15		✓
32	100 mls		Tech		1		MH		
			Notes						

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648-Wilson

Page of

Client	<u>Wilson Bgr. Inc.</u>	Date Received	<u>7/22/11</u>
Plant			

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
1 Beaker ID 226	ESP-3 200+175 375 mls	202 DI	Tare	85.2846	7/8 8:17	85.2855	7/11 6:27	85.2856	7/25 11:20	✓
			Tech							
			Final	85.3241	8/2 10:22	85.3291	8/4 7:48	85.3217	8/5 7:30	✓
			Tech		MH					
			Notes							
2 Beaker ID 413	ESP-3 200+150 mls	202 DI	Tare	105.0433	7/8 8:17	105.0427	7/11 6:27	105.0429	7/25 11:20	✓
			Tech							
			Final	105.0810	8/1 10:18	105.0845	8/1 16:36			✓
			Tech		MH		MH			
			Notes							
4 Beaker ID 129	ESP-3 200+200+140 460 mls	202 DI	Tare	82.0332	7/8 8:18	82.0326	7/11 6:26	82.0328	7/25 11:21	
			Tech							
			Final	82.0668	8/2 10:21	82.0665	8/4 7:34B	82.0660	8/10 10:37	✓
			Tech		MH		7C		MH	
			Notes							
3 Beaker ID 24	ESP-3 200+75 275 mls	202 DI	Tare	95.5548	7/8 8:18	95.5544	7/11 6:26			✓
			Tech							
			Final	95.5658	8/1 10:20	95.5668	8/1 16:40	95.5666	8/4 7:44	✓
			Tech		MH		MH		MH	
			Notes							
5 Beaker ID 106	ESP-3 200+160 360 mls	202 DI	Tare	81.2742	7/8 8:19	81.2737	7/11 6:25	81.2739	7/25 11:18	✓
			Tech							
			Final	81.2814	8/2 10:22	81.2811	8/4 7:49			✓
			Tech		MH					
			Notes							
6 Beaker ID 57	ESP-3 200+225 425 mls	202 DI	Tare	105.6681	7/8 8:19	105.6676	7/11 6:25			✓
			Tech							
			Final	105.6762	8/2 10:22	105.6766	8/4 7:49			✓
			Tech		MH					
			Notes							
7 Beaker ID 224	ESP-2 200+120 320 mls	202 DI	Tare	81.4902	7/8 8:20	81.4896	7/11 6:24	81.4897	7/25 11:21	✓
			Tech							
			Final	81.5029	8/1 10:25	81.5031	8/2 9:59			✓
			Tech		MH		MH			
			Notes							
8 Beaker ID 51			Tare	102.2724	7/8 8:20	102.2715	7/11 6:24	102.2720	7/25 11:22	✓
			Tech							
			Final							
			Tech							
			Notes							

85.322
8/11 11:11
MH

AIRTECH ENVIRONMENTAL SERVICES INC.

Beaker Gravimetric Data Sheet

PROJECT NO. 3648

Page		of	
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Client	<u>Big Rivers</u>	Date Received	<u>7/22/11</u>
Plant	<u>Wilson</u>		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
6	ESP 4	202 Hex/Ace	Tare	3.5555	6/30 9:37	3.5560	6/30 15:52		✓
			Tech						
Beaker ID	200+200+95		Final	3.5682	8/2 10:17	3.5677	8/4 7:30		✓
			Tech		MH				
C1	495	mls	Notes						
1	ESP 3	202 Hex/Ace	Tare	3.5765	6/30 9:37	3.5711	6/30 15:52		✓
			Tech						
Beaker ID	200+175		Final	3.5853	8/1 10:38	3.5852	8/1 16:52		✓
			Tech		MH		MH		
C2	375	mls	Notes						
2	ESP 3	202 Hex/Ace	Tare	3.5301	6/30 9:37	3.5301	6/30 15:53		✓
			Tech						
Beaker ID	200+180		Final	3.5381	8/1 10:40	3.5382	8/1 16:51		✓
			Tech		MH		MH		
C3	380	mls	Notes						
3	ESP 3	202 Hex/Ace	Tare	3.5199	6/30 9:36	3.5199	6/30 15:53		✓
			Tech						
Beaker ID	200+200+120		Final	3.5313	8/2 10:15	3.5309	8/4 7:36		✓
			Tech		MH				
C4	520	mls	Notes						
4	ESP 3	202 Hex/Ace	Tare	3.5773	6/30 9:36	3.5774	6/30 15:53		✓
			Tech						
Beaker ID	200+180+		Final	3.5866	8/1 10:38	3.5866	8/1 16:50		✓
			Tech		MH		MH		
C5	380	mls	Notes						
5	ESP 3	202 Hex/Ace	Tare	3.5078	6/30 9:36	3.5074	6/30 15:54		✓
			Tech						
Beaker ID	200+125+		Final	3.5157	8/1 10:39	3.5156	8/1 16:51		✓
			Tech		MH		MH		
C6	355	mls	Notes						
6	ESP 3	202 Hex/Ace	Tare	3.5673	6/30 9:37	3.5673	6/30 15:54		✓
			Tech						
Beaker ID	200+700		Final	3.5698	8/1 10:38	3.5701	8/1 16:51		✓
			Tech		MH		MH		
C7	400	mls	Notes						
1	ESP-2	202 Hex/Ace	Tare	3.5624	6/30 9:37	3.5621	6/30 15:55		✓
			Tech						
Beaker ID	200+190		Final	3.5682	8/1 10:39	3.5678	8/1 16:52		✓
			Tech		MH		MH		
C8	390	mls	Notes						

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648

Page of

Client	Big Mines	Date Received	
Plant	Wilson		

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good	
3	ESP 4	SB F 1/2 Ace	Tare	33.9317	7/11 15:25	33.9297	7/27 1:28	33.9300	7/28 11:02	✓
			Tech		SH		MH		MH	
26	45 mls	SB F 1/2 Ace	Final	33.9320	8/4 8:01	33.9304	8/5 10:19	33.9305	8/8 11:16	✓
			Tech		/		MH		MH	
Notes										
4	ESP 4	SB F 1/2 Ace	Tare	35.3054	7/11 15:25	35.3022	7/27 1:26	35.3026	7/28 11:02	✓
			Tech		SH		MH		MH	
29	75 mls	SB F 1/2 Ace	Final	35.3101	8/4 8:00	35.3106	8/5 10:10			✓
			Tech		/		MH			
Notes										
5	ESP 4	SB F 1/2 Ace	Tare	36.4398	7/11 15:26	36.4366	7/27 1:25	36.4370	7/28 11:03	✓
			Tech		SH		MH		MH	
37	125 mls	SB F 1/2 Ace	Final	36.4397	8/4 7:56	36.4400	8/5 10:01			✓
			Tech		/		MH			
Notes										
6	ESP 4	SB F 1/2 Ace	Tare	37.3364	7/11 15:28	37.3360	7/26 10:41			✓
			Tech		SH		MH			
34	100 mls	SB F 1/2 Ace	Final	37.4353	8/4 7:55	37.4378	8/5 10:12	37.4378	8/8 11:16	✓
			Tech		/		MH		MH	
Notes										
1	ESP 3	SB F 1/2 Ace	Tare	34.4574	7/11 15:28	34.4575	7/26 10:42			✓
			Tech		SH		MH			
46	75 mls	SB F 1/2 Ace	Final	34.4606	8/4 7:57	34.4611	8/5 10:10			✓
			Tech		/		MH			
Notes										
2	ESP 3	SB F 1/2 Ace	Tare	33.1962	7/11 15:29	33.1959	7/26 10:48			✓
			Tech		SH		MH			
33	60 mls	SB F 1/2 Ace	Final	33.1972	8/4 8:03	33.1976	8/5 10:20			✓
			Tech		/		MH			
Notes										
3	ESP 3	SB F 1/2 Ace	Tare	43.4099	7/11 15:30	43.4096	7/26 10:43			✓
			Tech		SH		MH			
51	60 mls	SB F 1/2 Ace	Final	43.4199	8/4 8:03	43.4204	8/5 10:19			✓
			Tech		7c		MH			
Notes										
4	ESP 3	SB F 1/2 Ace	Tare	34.8959	7/11 15:31	34.8961	7/26 10:44	34.8957	7/27 10:14	✓
			Tech		SH		MH		MH	
48	75 60 mls	SB F 1/2 Ace	Final	34.9033	8/4 7:54	34.9031	8/5 10:13			✓
			Tech		/		MH			
Notes										

AIRTECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648-~~7~~ Wilson

Page of

Client	Big Rivers	Date Received	2/22/11
Plant	Coal Station		Wilson

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
3	200+	Hex/Ace	Tare	3.4512	6/30 9:36	3.4512	6/30 15:55		✓
			Final						
			Tech						
			Notes						
B1									
3	200+	Hex/Ace	Tare	3.4142	6/30 9:36	3.4143	6/30 15:56		✓
			Final						
			Tech						
			Notes						
B2									
3	ESP-2 200+	Hex/Ace	Tare	3.4447	6/30 9:32	3.4449	6/30 15:56		✓
			Final						
			Tech						
			Notes						
B3									
3	200+	Hex/Ace	Tare	3.4094	6/30 9:32	3.4094	6/30 15:57		✓
			Final						
			Tech						
			Notes						
B4									
2	ESP-4 200+185	202 Hex/Ace	Tare	3.5777	6/30 9:35	3.5777	6/30 15:57		✓
			Final	3.5800	7/29 16:14	3.5797	8/1 10:33		✓
			Tech		MH		MH		
			Notes						
B5	385 mls								
3	ESP-4 200+175	202 Hex/Ace	Tare	3.5278	6/30 9:34	3.5279	6/30 15:57		✓
			Final	3.5342	7/29 16:44	3.5339	8/1 10:33		✓
			Tech		MH		MH		
			Notes						
B6	375 mls								
1	ESP-4 200+200 50	202 Hex/Ace	Tare	3.5487	6/30 9:34	3.5488	6/30 15:58		✓
			Final	3.5564	7/29 16:43	3.5567	8/1 10:33		✓
			Tech		MH		MH		
			Notes						
B7	450 mls								
5	ESP-4 200+200 30	202 Hex/Ace	Tare	3.5863	6/30 9:33	3.5862	6/30 15:58		✓
			Final	3.5942	7/29 16:43	3.5945	8/1 10:34		✓
			Tech		MH		MH		
			Notes						
B8	430 mls								

AIR TECH ENVIRONMENTAL SERVICES INC.
Beaker Gravimetric Data Sheet

PROJECT NO. 3648 - Wilson

Page of

Client	BREC	Date Received
Plant	Wilson	

Run No.	Location/Volume	Method/ Reagent	Weight	Date / Time	Weight	Date / Time	Weight	Date / Time	Good
5	SBS OUT mid	Ace	Tare	3.5312	6/8 16:22	3.5312	6/9 15:21		✓
			Tech						
			Final	3.5442	6/8 2:10	3.5441	6/8 8:39		✓
			Tech						
			Notes						
Beaker ID	V1	90 mls							
6	MID SBS OUT	Ace	Tare	3.5269	6/8 16:22	3.5271	6/9 15:22		✓
			Tech						
			Final	3.5350	6/8 2:11	3.5348	6/8 8:41		✓
			Tech						
			Notes						
Beaker ID	V2	75 mls							
4	ESP1 200+50	202 Hex/Ace	Tare	3.5935	6/8 16:22	3.5937	6/9 15:23		✓
			Tech						
			Final	3.6041	8/4 7:17	3.6036	8/5 9:58		✓
			Tech						
			Notes						
Beaker ID	V3	250 mls							
5	ESP1 200+200	202 Hex/Ace	Tare	3.5564	6/8 16:21	3.5565	6/9 15:23		✓
			Tech						
			Final	3.5660	8/4 7:16	3.5656	8/5 9:58		✓
			Tech						
			Notes						
Beaker ID	V4	400 mls							
6	ESP1 200+200	202 Hex/Ace	Tare	3.5315	6/8 16:21	3.5315	6/9 15:24		✓
			Tech						
			Final	3.5449	8/4 7:16	3.5447	8/5 9:59		✓
			Tech						
			Notes						
Beaker ID	V5	400 mls							
6			Tare	3.5337	6/8 16:20	3.5338	6/9 15:24		✓
			Tech						
			Final						
			Tech						
			Notes						
Beaker ID	V6	mls							
6			Tare	3.5342	6/8 16:20	3.5344	6/9 15:25		✓
			Tech						
			Final						
			Tech						
			Notes						
Beaker ID	V7	mls							
6			Tare	3.5532	6/8 16:19	3.5533	6/9 15:25		✓
			Tech						
			Final						
			Tech						
			Notes						
Beaker ID	V8	mls							

4

Calibration Data

Includes the following:

- *Daily Analytical Balance Calibration Log*
- *Yearly Analytical Balance Test and Calibration Certificate*



AUTOMATED SCALE CORPORATION

202 W. Fay Ave. Addison, IL 60101 800/498-6650

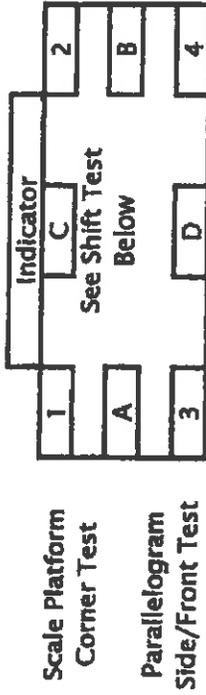
TEST & CALIBRATION CERTIFICATE

L-A-B Accredited: Certificate #L1053-1
Standards Used: Traceable through NIST to the SI units
Test equipment and weight (s) certificates available on request

Tests and/or calibrations shall stop when environmental conditions will jeopardize the results. (rain, wind, vibration, temperature, and etc.)

Client Name & Address <i>AIC Tech</i> <i>601A Country Club</i> <i>Bensenville</i>	Location (Plant and / or Dept.) <i>L9D</i> <i>NA</i>	Procedure used: 5.4-02 Process Control
Contact: <i>Jim C</i>		Uncertainty of measurement (UM) Yes [] No [X]
Equipment ID: <i>NA</i>		Temperature Yes [X] No []
Identified metrological reference: NIST Handbook 44		

Manufacturer <i>Ohaus</i>	Model # <i>AV114C</i>	Serial # <i>8028031056</i>	Capacity X Grad. <i>1100 x .0001</i>
Platform: <i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>
Inspection Cycle: <i>365 day</i>			



Date	Cert#	Client Tolerance (L/U) %	As Found/Left Shift Test		As Found		As Left		Pass/Fail	Temp. F°	Tech	Traceable
			A	B	C	D	Zero	AMT 1				
4-13-10	F	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	P	NA 74	U	# 1538014 ID ASTM 01
4-12-11	L	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	50.0000	P	NA 74	AR	# 1538014 ID ASTM 01
	F											#
	L											#
	F											ID
	L											#
	F											ID
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Comments:

Pass/fail compliance statements are the opinions of Automated Scale Corp. based on data from measurements made, procedure utilized, professional experience, and the uncertainty associated with this calibration. It is the responsibility of the user of this equipment to determine if the results identified meet specific requirements for the intended application. Associated uncertainty (as applicable) is expressed at a confidence level of approximately 95% with a coverage factor of K=2.

Form: 5.4.02 L-A-B Accredited Process Control Certificate 3/2/10

Airtech Environmental Services, Inc.

601A Country Club Drive
Bensenville, IL 60106

Project Number: 3648

Antimony, Arsenic, Beryllium, Cadmium,
Chromium, Cobalt, Lead, Manganese,
Nickel, and Selenium

EPA Method 29 Analysis

Analytical Report
17071



Element One, Inc.
5022-C Wrightsville Av., Wilmington, NC 28403
910-793-0128 FAX: 910-792-6853 e1lab@e1lab.com

The following data for Analytical Report 17071
has been reviewed for completeness, accuracy,
adherence to method protocol,
and compliance with quality assurance guidelines.

Review by:



Daphne Woodman, Chemist
August 9, 2011

Report Reviewed and Finalized By:



Ken Smith, Laboratory Director
August 9, 2011

SUMMARY OF RESULTS

Summary of Analysis

ESP 1 - Front Half - Summary of Method 29 Metals Analysis

Element	ESP 1-R1	ESP 1-R2	ESP 1-R2	ESP 1-R3
	e17071-1 FH	e17071-2 FH	e17071-2 FH dup	e17071-3 FH
	Total µg	Total µg	Total µg	Total µg
Antimony	5.27	0.749	0.745	1.22
Arsenic	11.1	11.2	10.9	10.2
Beryllium	0.124	0.134	0.134	0.238
Cadmium	0.294	0.221	0.216	0.677
Chromium	13.3	4.24	4.26	14.3
Cobalt	0.738	0.437	0.441	1.13
Lead	4.25	3.31	3.31	4.00
Manganese	11.4	4.04	4.06	200
Nickel	41.2	9.90	9.91	14.6
Selenium	89.3	103	105	142

Element	ESP 1-R4	ESP 1-R5	ESP 1-R6
	e17071-4 FH	e17071-5 FH	e17071-6 FH
	Total µg	Total µg	Total µg
Antimony	0.685	1.24	1.64
Arsenic	15.3	4.99	7.07
Beryllium	0.127	0.198	0.285
Cadmium	0.175	1.96	1.16
Chromium	6.32	21.2	24.5
Cobalt	0.557	1.16	1.14
Lead	3.01	5.65	5.00
Manganese	11.0	30.2	61.3
Nickel	8.72	11.1	12.9
Selenium	86.5	8.15	21.2

Summary of Analysis

ESP 1 - Back Half - Summary of Method 29 Metals Analysis

Element	ESP 1-R1	ESP 1-R2	ESP 1-R2	ESP 1-R3
	e17071-1 BH	e17071-2 BH	e17071-2 BH dup	e17071-3 BH
	Total µg	Total µg	Total µg	Total µg
Antimony	0.242	0.218	0.243	0.261
Arsenic*	2.37	2.01	2.12	2.41
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	< 0.1	< 0.1	< 0.1	< 0.1
Chromium	3.12	10.8	9.91	4.23
Cobalt	0.770	0.390	0.448	0.121
Lead	1.08	0.831	0.943	0.450
Manganese	4.57	10.0	9.12	6.50
Nickel	2.59	4.69	5.24	2.22
Selenium*	31.1	30.5	31.5	35.3

*Arsenic and selenium were analyzed on an H₂SO₄ matrix curve to reduce matrix interference from high sulfates in samples.

Element	ESP 1-R4	ESP 1-R5	ESP 1-R6
	e17071-4 BH	e17071-5 BH	e17071-6 BH
	Total µg	Total µg	Total µg
Antimony	1.42	0.226	0.376
Arsenic*	3.91	3.64	0.353
Beryllium	< 0.025	0.040	< 0.025
Cadmium	0.194	0.135	0.223
Chromium	1.93	8.67	1.46
Cobalt	0.204	0.767	< 0.1
Lead	0.595	1.49	1.15
Manganese	3.06	99.8	2.02
Nickel	2.51	11.5	3.43
Selenium*	88.3	19.1	2.31

*Arsenic and selenium were analyzed on an H₂SO₄ matrix curve to reduce matrix interference from high sulfates in samples.

Summary of Analysis

ESP 2 - Front Half - Summary of Method 29 Metals Analysis

Element	ESP 2-R1	ESP 2-R2	ESP 2-R2	ESP 2-R3
	e17071-7 FH	e17071-8 FH	e17071-8 FH dup	e17071-9 FH
	Total µg	Total µg	Total µg	Total µg
Antimony	0.477	1.90	1.82	2.09
Arsenic	2.18	2.59	2.70	0.870
Beryllium	< 0.025	0.027	0.029	< 0.025
Cadmium	0.167	0.441	0.467	< 0.1
Chromium	11.4	11.7	11.4	2.36
Cobalt	0.300	0.753	0.797	< 0.1
Lead	1.25	2.69	2.60	0.513
Manganese	19.1	225	219	2.89
Nickel	9.77	16.0	17.0	1.50
Selenium	9.02	7.52	7.84	3.34

Element	ESP 2-R4	ESP 2-R5	ESP 2-R6
	e17071-10 FH	e17071-11 FH	e17071-12 FH
	Total µg	Total µg	Total µg
Antimony	0.611	1.21	3.26
Arsenic	7.99	7.67	9.43
Beryllium	0.036	0.105	0.070
Cadmium	0.320	0.905	0.623
Chromium	7.25	28.3	25.4
Cobalt	0.404	1.09	0.966
Lead	4.26	4.22	2.51
Manganese	5.09	32.7	12.3
Nickel	8.22	8.57	15.2
Selenium	30.6	33.0	44.3

Summary of Analysis

ESP 2 - Back Half - Summary of Method 29 Metals Analysis

Element	ESP 2-R1	ESP 2-R2	ESP 2-R2	ESP 2-R3
	e17071-7 BH	e17071-8 BH	e17071-8 BH dup	e17071-9 BH
	Total µg	Total µg	Total µg	Total µg
Antimony	0.151	0.329	0.332	0.205
Arsenic*	1.16	1.85	2.11	2.35
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	< 0.1	0.203	0.196	< 0.1
Chromium	4.20	2.34	2.34	2.56
Cobalt	0.133	0.116	0.138	0.117
Lead	0.537	0.725	0.720	0.909
Manganese	2.46	3.81	3.85	2.28
Nickel	2.79	1.66	1.61	1.82
Selenium*	14.9	25.8	26.9	30.8

*Arsenic and selenium were analyzed on an H₂SO₄ matrix curve to reduce matrix interference from high sulfates in samples.

Element	ESP 2-R4	ESP 2-R5	ESP 2-R6
	e17071-10 BH	e17071-11 BH	e17071-12 BH
	Total µg	Total µg	Total µg
Antimony	0.573	0.802	0.451
Arsenic*	0.953	2.56	2.17
Beryllium	< 0.025	< 0.025	< 0.025
Cadmium	0.516	0.419	0.103
Chromium	1.51	2.33	1.48
Cobalt	0.121	0.124	< 0.1
Lead	0.698	0.570	0.421
Manganese	2.49	5.47	2.64
Nickel	2.85	3.86	1.69
Selenium*	11.5	45.5	30.9

*Arsenic and selenium were analyzed on an H₂SO₄ matrix curve to reduce matrix interference from high sulfates in samples.

Summary of Analysis

ESP 3 - Front Half - Summary of Method 29 Metals Analysis

Element	ESP 3-R1	ESP 3-R2	ESP 3-R2	ESP 3-R3
	e17071-13 FH Total µg	e17071-14 FH Total µg	e17071-14 FH dup Total µg	e17071-15 FH Total µg
Antimony	1.85	0.761	0.758	1.05
Arsenic	7.65	5.68	5.67	7.77
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	0.290	0.515	0.510	0.751
Chromium	42.6	41.6	43.4	29.0
Cobalt	1.11	0.553	0.558	0.612
Lead	8.46	7.20	7.21	3.32
Manganese	8.15	21.8	23.0	33.4
Nickel	27.9	22.3	22.5	22.1
Selenium	119	69.3	72.8	106

Element	ESP 3-R4	ESP 3-R5	ESP 3-R6
	e17071-16 FH Total µg	e17071-17 FH Total µg	e17071-18 FH Total µg
Antimony	2.33	3.75	1.64
Arsenic	16.7	10.5	13.2
Beryllium	0.064	0.066	0.075
Cadmium	0.927	0.595	0.683
Chromium	60.9	20.0	21.2
Cobalt	1.64	0.679	0.625
Lead	5.87	4.30	4.08
Manganese	31.5	30.0	9.20
Nickel	55.8	8.85	10.3
Selenium	86.9	40.7	114

Summary of Analysis

ESP 3 - Back Half - Summary of Method 29 Metals Analysis

Element	ESP 3-R1	ESP 3-R2	ESP 3-R2	ESP 3-R3
	e17071-13 BH	e17071-14 BH	e17071-14 BH dup	e17071-15 BH
	Total µg	Total µg	Total µg	Total µg
Antimony	0.963	0.549	0.572	0.323
Arsenic*	2.97	7.08	6.42	3.81
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	< 0.1	0.165	0.156	< 0.1
Chromium	5.14	5.60	5.67	6.46
Cobalt	0.114	0.229	0.233	0.117
Lead	1.15	0.623	0.619	0.156
Manganese	4.60	4.23	4.28	5.48
Nickel	2.04	1.68	1.72	1.84
Selenium*	31.9	106	100	49.9

*Arsenic and selenium were analyzed on an H₂SO₄ matrix curve to reduce matrix interference from high sulfates in samples.

Element	ESP 3-R4	ESP 3-R5	ESP 3-R6
	e17071-16 BH	e17071-17 BH	e17071-18 BH
	Total µg	Total µg	Total µg
Antimony	< 0.1	< 0.1	0.126
Arsenic*	4.06	8.54	10.2
Beryllium	< 0.025	< 0.025	< 0.025
Cadmium	0.180	< 0.1	< 0.1
Chromium	3.03	1.69	1.92
Cobalt	0.163	0.185	0.274
Lead	1.78	0.685	0.331
Manganese	2.56	4.21	3.86
Nickel	2.25	1.14	1.72
Selenium*	82.7	114	123

*Arsenic and selenium were analyzed on an H₂SO₄ matrix curve to reduce matrix interference from high sulfates in samples.

Summary of Analysis

ESP 4 - Front Half - Summary of Method 29 Metals Analysis

Element	ESP 4-R1	ESP 4-R2	ESP 4-R2	ESP 4-R3
	e17071-19 FH	e17071-20 FH	e17071-20 FH dup	e17071-21 FH
	Total µg	Total µg	Total µg	Total µg
Antimony	0.934	1.50	1.52	9.64
Arsenic	3.57	2.15	2.20	1.99
Beryllium	0.078	< 0.025	< 0.025	< 0.025
Cadmium	0.383	0.299	0.307	0.215
Chromium	24.3	11.9	11.4	15.7
Cobalt	0.494	0.216	0.213	0.278
Lead	4.04	54.7	52.5	3.09
Manganese	12.7	5.89	5.64	5.70
Nickel	13.7	8.95	7.94	12.0
Selenium	10.9	11.3	11.0	10.4

Element	ESP 4-R4	ESP 4-R5	ESP 4-R6
	e17071-22 FH	e17071-23 FH	e17071-24 FH
	Total µg	Total µg	Total µg
Antimony	0.496	0.856	0.782
Arsenic	4.23	11.9	10.5
Beryllium	0.037	0.120	0.126
Cadmium	0.190	0.356	0.850
Chromium	19.1	21.6	22.3
Cobalt	0.379	0.973	1.21
Lead	2.88	6.80	5.40
Manganese	23.8	30.5	66.5
Nickel	15.4	19.3	9.20
Selenium	5.15	8.09	11.3

Summary of Analysis

ESP 4 - Back Half - Summary of Method 29 Metals Analysis

Element	ESP 4-R1	ESP 4-R2	ESP 4-R2	ESP 4-R3
	e17071-19 BH	e17071-20 BH	e17071-20 BH dup	e17071-21 BH
	Total µg	Total µg	Total µg	Total µg
Antimony	0.493	0.123	0.129	0.205
Arsenic*	1.43	3.03	3.09	4.23
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	0.279	0.555	0.569	0.349
Chromium	2.62	1.67	1.55	1.92
Cobalt	0.247	< 0.1	< 0.1	< 0.1
Lead	0.667	0.612	0.643	0.685
Manganese	2.89	3.18	3.06	3.25
Nickel	2.23	0.919	0.966	1.66
Selenium*	14.2	49.3	51.4	64.0

*Arsenic and selenium were analyzed on an H₂SO₄ matrix curve to reduce matrix interference from high sulfates in samples.

Element	ESP 4-R4	ESP 4-R5	ESP 4-R6
	e17071-22 BH	e17071-23 BH	e17071-24 BH
	Total µg	Total µg	Total µg
Antimony	< 0.1	0.337	< 0.1
Arsenic*	8.14	12.7	47.8
Beryllium	< 0.025	< 0.025	< 0.025
Cadmium	< 0.1	0.122	< 0.1
Chromium	3.21	3.05	2.52
Cobalt	0.115	0.175	0.124
Lead	0.380	0.776	0.395
Manganese	2.42	4.41	3.20
Nickel	2.29	2.29	1.96
Selenium*	72.7	153	211

*Arsenic and selenium were analyzed on an H₂SO₄ matrix curve to reduce matrix interference from high sulfates in samples.

Summary of Analysis

Stack - Front Half - Summary of Method 29 Metals Analysis

Element	Stack-R1	Stack-R2	Stack-R2	Stack-R3
	e17071-25 FH Total µg	e17071-26 FH Total µg	e17071-26 FH dup Total µg	e17071-27 FH Total µg
Antimony	1.35	5.30	4.75	0.224
Arsenic	4.44	3.35	2.91	2.88
Beryllium	0.065	0.030	0.028	< 0.025
Cadmium	1.00	0.369	0.325	0.175
Chromium	19.3	39.7	35.3	6.96
Cobalt	1.21	9.56	8.46	0.425
Lead	4.46	2.84	2.51	0.909
Manganese	47.1	35.2	30.9	5.87
Nickel	90.4	298	264	14.2
Selenium	47.3	40.8	36.9	32.3

Element	Stack-R4	Stack-R5	Stack-R6	Reagent Blank
	e17071-28 FH Total µg	e17071-29 FH Total µg	e17071-30 FH Total µg	e17071-31 FH Total µg
Antimony	0.860	0.247	0.576	1.13
Arsenic	4.58	3.61	5.26	< 0.1
Beryllium	0.026	0.025	< 0.025	< 0.025
Cadmium	0.192	0.294	0.611	< 0.1
Chromium	8.35	8.85	7.70	0.341
Cobalt	0.356	0.318	0.278	< 0.1
Lead	44.7	5.74	0.960	0.144
Manganese	4.62	6.69	4.37	0.714
Nickel	5.72	5.77	6.34	0.136
Selenium	15.5	13.6	26.9	< 0.1

Summary of Analysis

Stack - Back Half - Summary of Method 29 Metals Analysis

Element	Stack-R1 e17071-25 BH Total µg	Stack-R2 e17071-26 BH Total µg	Stack-R2 e17071-26 BH dup Total µg	Stack-R3 e17071-27 BH Total µg
Antimony	0.111	0.119	0.114	0.107
Arsenic	1.01	0.827	0.848	0.741
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	0.429	1.67	1.65	0.250
Chromium	3.25	2.39	2.17	1.54
Cobalt	0.132	< 0.1	< 0.1	< 0.1
Lead	0.895	1.21	1.20	0.735
Manganese	5.23	6.35	6.26	2.32
Nickel	2.35	1.86	1.80	1.77
Selenium	21.6	16.9	17.0	19.3

Element	Stack-R4 e17071-28 BH Total µg	Stack-R5 e17071-29 BH Total µg	Stack-R6 e17071-30 BH Total µg	Reagent Blank e17071-31 BH Total µg
Antimony	0.100	0.128	0.143	< 0.1
Arsenic	1.26	5.21	2.27	< 0.1
Beryllium	< 0.025	< 0.025	< 0.025	< 0.025
Cadmium	1.20	0.110	0.386	< 0.1
Chromium	3.29	3.06	5.46	2.71
Cobalt	0.186	0.125	0.104	< 0.1
Lead	1.43	1.11	0.912	0.287
Manganese	4.95	11.0	4.43	3.37
Nickel	4.66	4.75	5.00	1.52
Selenium	25.9	67.8	60.9	< 0.1

ANALYTICAL NARRATIVE

Element One Analytical Narrative

Client:	Airtech Environmental Services, Inc.	Element One #	17071
Client ID:	3648/Big Rivers Energy-Wilson Station	Analyst:	DBW
Method:	Method 29	Dates Received	07/26/11
Analytes	Sb, As, Be, Cd, Cr, Co, Pb, Mn, Ni, & Se	Dates Analyzed:	08/03-09/11

Summary of Analysis

The Method 29 samples were digested, prepared, and analyzed according to Method 29 protocol. Samples were analyzed for metals using a PerkinElmer ELAN 6100 ICP-MS.

Detection Limits

The ICP-MS instrument reporting limits were 0.25µg/L for beryllium and 1.0µg/L for the other metals.

Analysis QA/QC

Duplicate analyses relative percent difference (RPD), spike sample recovery, and second source calibration verification data are summarized in the Quality Control Section.

The Back Half samples contained high concentrations of sulfates causing matrix interferences.

*Ref page 5, 7, 9 and 11: It was necessary to analyze all of the back half fractions of ESP 1, ESP 2, ESP 3 and ESP 4 for arsenic and selenium using a H₂SO₄ curve to reduce matrix interferences caused by the high sulfates in those samples.

*Ref page 19: The arsenic spike recovery for the back half fraction of ESP 1-R3, ESP 2-R3 and ESP 3-R3 at a five-fold dilution, were outside of the ±25% laboratory guidelines with 131%, 131% and 136% recovery, respectively. Any further dilution would reduce the results to non-detect. The arsenic results for those samples may be biased high.

**Ref page 19: The beryllium spike recovery for the back half fraction of sample Stack-R3 at a X1 dilution, was outside of the ±25% laboratory guidelines with 67% recovery. The sample was analyzed at a two-fold dilution resulting in a spike recovery of 88%, indicating matrix interference. The sample was non-detect, therefore this should have no significant impact on the results.

***Ref page 19: The cadmium spike recovery for the back half fraction of ESP 1-R3, ESP 2-R3, ESP 3-R3 and ESP 4-R3 were outside of the ±25% laboratory guidelines with 54%, 57%, 64% and 67% recovery. The samples were analyzed at a ten-fold dilution resulting in spike recoveries of 84% for ESP 1-R3, 87% for ESP 2-R3, 87% for ESP 3-R3 and 86% for ESP 4-R3; indicating matrix interference. The samples were non-detect, therefore this should have no significant impact on the results.

All other QA/QC data was within the criteria of the method.

Additional Comments

The reported results have not been corrected for any blank values or spike recovery values. The ICP analysis of the Reagent Blank sample revealed detectable concentrations of metals, subsequent analysis produced equivalent results.

QUALITY CONTROL SUMMARY

Summary of Quality Control Data

Front Half - Metals Duplicate Analysis RPD

(Method 29 QC limits: < 20% for RPD)

Element	ESP 1-R2 RPD	ESP 2-R2 RPD	ESP 3-R2 RPD	ESP 4-R2 RPD	Stack-R2 RPD
Antimony	0.5%	4.2%	0.5%	1.3%	10.9%
Arsenic	3.2%	3.9%	0.1%	2.6%	14.2%
Beryllium	0.0%	6.3%	NA	NA	9.2%
Cadmium	2.7%	5.8%	0.9%	2.5%	12.5%
Chromium	0.6%	2.7%	4.3%	4.5%	11.6%
Cobalt	0.9%	5.6%	0.8%	1.4%	12.2%
Lead	0.1%	3.6%	0.2%	4.1%	12.3%
Manganese	0.7%	2.7%	5.2%	4.4%	12.8%
Nickel	0.2%	6.1%	0.9%	12.0%	12.0%
Selenium	1.9%	4.1%	5.0%	2.5%	10.0%

Back Half - Metals Duplicate Analysis RPD

(Method 29 QC limits: < 20% for RPD)

Element	ESP 1-R2 RPD	ESP 2-R2 RPD	ESP 3-R2 RPD	ESP 4-R2 RPD	Stack-R2 RPD
Antimony	10.8%	0.9%	4.1%	4.7%	3.9%
Arsenic	5.0%	13.1%	9.9%	2.2%	2.6%
Beryllium	NA	NA	NA	NA	NA
Cadmium	NA	3.1%	5.4%	2.6%	0.8%
Chromium	9.0%	0.1%	1.2%	7.5%	9.6%
Cobalt	13.8%	17.1%	2.1%	NA	NA
Lead	12.6%	0.7%	0.7%	4.9%	1.1%
Manganese	9.7%	1.0%	1.3%	4.0%	1.3%
Nickel	11.1%	2.7%	2.3%	5.0%	3.1%
Selenium	3.2%	4.3%	6.0%	4.3%	0.2%

Summary of Quality Control Data

Front Half - Metals Analysis Spike Recoveries

(Method 29 QC limits: ±25% for Spike Recoveries)

Element	ESP 1-R3 Recovery	ESP 2-R3 Recovery	ESP 3-R3 Recovery	ESP 4-R3 Recovery	Stack-R3 Recovery
Antimony	84%	106%	84%	94%	80%
Arsenic	84%	79%	76%	80%	79%
Beryllium	79%	83%	92%	94%	85%
Cadmium	78%	76%	81%	91%	83%
Chromium	80%	114%	116%	104%	102%
Cobalt	92%	100%	98%	104%	93%
Lead	94%	106%	102%	108%	101%
Manganese	111%	107%	111%	106%	106%
Nickel	86%	96%	87%	90%	89%
Selenium	95%	80%	102%	84%	93%

Back Half - Metals Analysis Spike Recoveries

(Method 29 QC limits: ±25% for Spike Recoveries)

Element	ESP 1-R3 Recovery	ESP 2-R3 Recovery	ESP 3-R3 Recovery	ESP 4-R3 Recovery	Stack-R3 Recovery
Antimony	113%	116%	120%	104%	75%
Arsenic	*131%	*131%	*136%	101%	94%
Beryllium	92%	99%	118%	89%	**67%
Cadmium	***54%	***57%	***64%	***67%	93%
Chromium	117%	114%	110%	117%	100%
Cobalt	103%	100%	109%	102%	95%
Lead	78%	78%	81%	77%	88%
Manganese	120%	119%	114%	120%	95%
Nickel	110%	106%	120%	104%	92%
Selenium	121%	109%	105%	91%	111%

*See Analytical Narrative, page 15.

**See Analytical Narrative, page 15.

***See Analytical Narrative, page 15.

Summary of Quality Control Data

Second Source Calibration Check Recoveries (Method 29 QC limits: $\pm 10\%$ for Second Source Continuing Check Standard*)

Element	0.25 ppb	1 ppb	50 ppb	100 ppb*	250 ppb
Antimony		107%	97%	101%	91%
Arsenic		120%	98%	102%	99%
Beryllium	113%	109%	100%	105%	101%
Cadmium		109%	100%	105%	100%
Chromium		103%	99%	106%	95%
Cobalt		115%	105%	110%	99%
Lead		116%	104%	105%	97%
Manganese		105%	105%	103%	98%
Nickel		106%	100%	103%	99%
Selenium		102%	96%	104%	99%

SAMPLE CUSTODY

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

17071

Project Number	3048	Location	ESP 1	Analysis Requested	Page	1	of	1
Client	Big Rivers Wilson Station	Date	7/22/2011	Completed By				
Plant				Michael Hess				
ID No.	Run No.	Date	Sample Description	Metallic HAPs	Number of Containers			
20-01-FIL	1	7/22/2011	Quartz Filter	X	1			
20-02-FIL	2	7/22/2011	Quartz Filter	X	1			
20-03-FIL	3	7/22/2011	Quartz Filter	X	1			
20-01-HNO	1	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	1			
20-02-HNO	2	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	1			
20-03-HNO	3	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	1			
20-01-SK/10%	1	7/22/2011	Imp Catch and Rinses	X	1			
20-02-SK/10%	2	7/22/2011	Imp Catch and Rinses	X	1			
20-03-SK/10%	3	7/22/2011	Imp Catch and Rinses	X	1			
Requisitioned By (signature)	<i>Michael Hess</i>	Requisitioned By (signature)	<i>David DeVries</i>	Center Laboratory				
Accepted By (signature)	<i>David DeVries</i>	Accepted By (signature)	<i>Michael Hess</i>	Address				
Date/Time	7/22/2011 0:00	Date/Time	7/22/2011 3:24	Phone				
Date/Time	7:05:11	Date/Time	7:05:11	Fax				

Samples received in good condition. No empty containers.



Airtech Environmental Services Inc.
807A County Club Drive
Beverly Hills, IL 60108
Phone: (630) 980-4740, Fax: (630) 980-4745

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

17071

Project Number		3649		Location		ESP 1		Page		1 of 1	
Client		Big Rivers		Date		7/22/2011		Analyte Requested			
Plant		Wilson Station		Completed By		Michael Hees		Metallic HAPs			
ID No.	Run No.	Date	Sample Description								Notes
29-R4-FIL	4	7/22/2011	Telton Filter								
29-R5-FIL	5	7/22/2011	Telton Filter								
29-R6-FIL	6	7/22/2011	Telton Filter								
29-R4-HNO	4	7/22/2011	Front Half 0.1 N HNO ₃ Rinse								
29-R5-HNO	5	7/22/2011	Front Half 0.1 N HNO ₃ Rinse								
29-R6-HNO	6	7/22/2011	Front Half 0.1 N HNO ₃ Rinse								
29-R4-SK/10%	4	7/22/2011	Imp Catch and Rinse								
29-R5-SK/10%	5	7/22/2011	Imp Catch and Rinse								
29-R6-SK/10%	6	7/22/2011	Imp Catch and Rinse								
Requested By (signature)			Requested By (signature)			Center Laboratory					
Michael Hees			David Bellis			Contact					
Date/Time 7/22/2011 03:00			Date/Time 7-20-11 3:24			Address					
Accepted By (signature)			Accepted By (signature)			Phone					
David Bellis			Paloma Brinkman			Fax					
Date/Time 7-25-11			Date/Time 7/26/11 15:24			Date/Time					



Airtech Environmental Services Inc.
8074 Country Club Drive
Bensenville, IL 60008
Phone: (630) 880-4740, Fax: (630) 880-4745

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

1071

Project Number	3445	Location	Big Rivers	Client	Wilson Station	Plant	Completed By	Michael Hass	Sample Description	Quartz Filler	Quartz Filler	Quartz Filler	Analysis Requested	Number of Containers	Page	1	of	1	
ID No.	Run No.	Date																	
20-41-FIL	1	7/22/2011																	
20-42-FIL	2	7/22/2011																	
20-43-FIL	3	7/22/2011																	
20-44-HNO	1	7/22/2011																	
20-45-HNO	2	7/22/2011																	
20-46-HNO	3	7/22/2011																	
20-47-9%/10%	1	7/22/2011																	
20-48-5%/10%	2	7/22/2011																	
20-49-9%/10%	3	7/22/2011																	
Requested By (signature)										Requested By (signature)									
Michael Hass										DAVID DELVES									
Date/Time: 7/22/2011 0:00										Date/Time: 8:20									
Accepted By (signature)										Accepted By (signature)									
DAVID DELVES										DAVID DELVES									
Date/Time: 7/25-11										Date/Time: 8/26/11 1524									
Carrier Laboratory										Carrier Laboratory									
Address										Address									
Phone										Phone									
Fax										Fax									
Date/Time										Date/Time									
Notes										Notes									



Airtech Environmental Services Inc.
601A County Club Drive
Bemont, IL 60108
Phone: (830) 880-4740, Fax: (830) 880-4745

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

17071

Project Number		3648	Location		ESR 2	Analyte Requested		Page	1	of	1
Client		Big Rivers	Date		7/22/2011						
Plant		Wilson Station	Completed By		Michael Heas						
ID No.	Run No.	Date	Sample Description								Notes
20-R4-FIL	4	7/22/2011	Tetlon Filter								
20-R5-FIL	5	7/22/2011	Tetlon Filter								
20-R6-FIL	6	7/22/2011	Tetlon Filter								
20-R4-HNO	4	7/22/2011	Front Half 0.1 N HNO ₃ Rinse								
20-R5-HNO	5	7/22/2011	Front Half 0.1 N HNO ₃ Rinse								
20-R6-HNO	6	7/22/2011	Front Half 0.1 N HNO ₃ Rinse								
20-R4-SV/10%	4	7/22/2011	Imp Catch and Rinses								
20-R5-SV/10%	5	7/22/2011	Imp Catch and Rinses								
20-R6-SV/10%	6	7/22/2011	Imp Catch and Rinses								
Relinquished By		<i>Michael Heas</i>	Relinquished By		<i>David DeVries</i>	Quarter					
(signature)			(signature)			Laboratory					
(printed)		Michael Heas	(printed)		David DeVries	Certified					
Date/Time		7/22/2011 0:00	Date/Time		7/20/11 8:04	Address					
Accepted By		<i>David DeVries</i>	Accepted By		<i>David DeVries</i>	Phone					
(signature)			(signature)			Fax					
Date/Time		7/25-11	Date/Time		7/26/11 15:24	Date/Time					



Airtech Environmental Services Inc.
601A Country Club Drive
Barnesville, GA 30006
Phone: (800) 880-4740, Fax: (800) 800-4745

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

17071

ID No.	Run No.	Date	Sample Description	Analysis Requested	Number of Containers	Page	of	1
29-R1-FIL	1	7/22/2011	Quartz Filter	Metallc HAPs	1	1	1	1
29-R2-FIL	2	7/22/2011	Quartz Filter		1			
29-R3-FIL	3	7/22/2011	Quartz Filter		1			
29-R1-HNO	1	7/22/2011	Front Half 0.1 N HNO ₃ Rinse		1			
29-R2-HNO	2	7/22/2011	Front Half 0.1 N HNO ₃ Rinse		1			
29-R3-HNO	3	7/22/2011	Front Half 0.1 N HNO ₃ Rinse		1			
29-R1-S%I0%	1	7/22/2011	Imp Catch and Rinse		1			
29-R2-S%I0%	2	7/22/2011	Imp Catch and Rinse		1			
29-R3-S%I0%	3	7/22/2011	Imp Catch and Rinse		1			
Requested By (signature)			Requested By (signature)	Carrier Laboratory				
Requested By (printed)			Requested By (printed)	Carrier Laboratory				
Date/Time			Date/Time	Address				
Accepted By (signature)			Accepted By (signature)	Phone				
Accepted By (printed)			Accepted By (printed)	Fax				
Date/Time			Date/Time	Date/Time				



Airtech Environmental Services Inc.
801A County Oaks Drive
Birmingham, L 38108
Phone: (330) 960-4740, Fax: (330) 280-8745

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

17071

Project Number	3648	Location	ESP 4	Analysis Requested	Page	1	of	1
Client	Big Rivers	Date	7/22/2011					
Plant	Wilson Station	Completed By	Michael Hess					
ID No.	Run No.	Date	Sample Description	Metallic HAPs	Number of Containers	Notes		
20-A1-FIL	1	7/22/2011	Quartz Filter	X	1			
20-A2-FIL	2	7/22/2011	Quartz Filter	X	1			
20-A3-FIL	3	7/22/2011	Quartz Filter	X	1			
20-A1-HNO	1	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	1			
20-A2-HNO	2	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	1			
20-A3-HNO	3	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	1			
20-B1-5%/10%	1	7/22/2011	Imp Catch and Rinses	X	1			
20-B2-5%/10%	2	7/22/2011	Imp Catch and Rinses	X	1			
20-B3-5%/10%	3	7/22/2011	Imp Catch and Rinses	X	1			
Requested By (Signature)	Requested By (Printed)	Requested By (Signature)	Requested By (Printed)	Carrier Laboratory	Carrier Contact	Carrier Address	Carrier Phone	Carrier Fax
<i>Michael Hess</i>	Michael Hess	<i>David DeVries</i>	DAVID DEVRIES					
Date/Time	7/22/2011 0:00	Date/Time	7/26/11 5:31					
Accepted By (Signature)	Accepted By (Printed)	Accepted By (Signature)	Accepted By (Printed)					
<i>David DeVries</i>	DAVID DEVRIES	<i>Debra Bradburn</i>	Debra Bradburn					
Date/Time	7/25-11	Date/Time	7/26/11 15:24					



Airtech Environmental Services Inc.
601A County Club Drive
Bensenville, IL 60108
Phone: (630) 960-4740, Fax: (630) (630) 4745

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

17071

Project Number		3648		Location		ESP 4		Analysis Requested		Page	
Client		Big Rivers Wilson Station		Date		7/22/2011				1 of 1	
Plant		Wilson Station		Completed By		Michael Hess					
ID No.	Run No.	Date	Sample Description	Metallic HAPs		Number of Containers		Notes			
20-44-FIL	4	7/22/2011	Tekon River	X		1					
20-06-FIL	5	7/22/2011	Tekon River	X		1					
20-06-FIL	6	7/22/2011	Tekon River	X		1					
20-04-HMO	4	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X		1					
20-05-HMO	5	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X		1					
20-08-HMO	6	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X		1					
20-04-SM/10%	4	7/22/2011	Imp Catch and Rinses	X		1					
20-05-SM/10%	5	7/22/2011	Imp Catch and Rinses	X		1					
20-08-SM/10%	6	7/22/2011	Imp Catch and Rinses	X		1					
Requested By		Michael Hess		Requested By		David DeVeles		Center			
(printed)				(signature)				Laboratory			
Date/Time		7/22/2011 9:00		Date/Time		7-21-11 3:24		Contact			
Accepted By		David DeVeles		Accepted By		Dale DeVeles		Address			
(signature)				(signature)				Phone			
Date/Time		7-22-11		Date/Time		7-26-11		Fax			
				Date/Time				Queue/Time			



Airtech Environmental Services Inc.
691A County Club Drive
Barronville, IL 60108
Phone: (630) 880-4740, Fax: (630) 880-2726

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

17071

Project Number	3848	Location	Stack	Analysis Requested	Page	1	of	1
Client	Big Rivers	Date	7/22/2011	Completed By	Michael Hass	Metallo HAPs		
Plant	Wilson Station	Sample Description		Number of Containers		Notes		
20-R1-P.L.	1	7/22/2011	Quartz Filter	X	1			
20-R2-P.L.	2	7/22/2011	Quartz Filter	X	1			
20-R3-P.L.	3	7/22/2011	Quartz Filter	X	1			
20-R1-HNO	1	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	2			
20-R2-HNO	2	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	2			
20-R3-HNO	3	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	2			
20-R1-SY/10%	1	7/22/2011	Imp Catch and Rinses	X	1			
20-R2-SY/10%	2	7/22/2011	Imp Catch and Rinses	X	1			
20-R3-SY/10%	3	7/22/2011	Imp Catch and Rinses	X	1			

Requisitioned By (signature) Michael Hass Date/Time 7/22/2011 10:00	Requisitioned By (signature) David Pollock Date/Time 7-20-11 3:31	CERT/ML Laboratory Contract Address
Accepted By (signature) David Pollock Date/Time 7-25-11	Accepted By (signature) James Bradburn Date/Time 7/26/11 15:24	Phone Fax Date/Time



Airtech Environmental Services Inc.
801A County Club Drive
Baltimore, IL 60106
Phone: (630) 860-4740, Fax: (630) 860 4745

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

17071

Project Number	3648	Location	Stack	Analysis Requested	Page	1	of	1
Client	Big Rivers	Date	7/22/2011					
Plant	Wilson Station	Completed By	Michael Hess					
ID No.	Run No.	Date	Sample Description	Metallic HAPs	Number of Containers	Notes		
29-R4-FIL	4	7/22/2011	Quartz Filter	X	1			
29-R5-FIL	5	7/22/2011	Quartz Filter	X	1			
29-R6-FIL	6	7/22/2011	Quartz Filter	X	1			
29-R4-HNO	4	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	2			
29-R5-HNO	5	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	2			
29-R6-HNO	6	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	2			
29-R4-S%10%	4	7/22/2011	Imp Catch and Rinses	X	1			
29-R5-S%10%	5	7/22/2011	Imp Catch and Rinses	X	1			
29-R6-S%10%	6	7/22/2011	Imp Catch and Rinses	X	1			
Requested By (signature)	[Signature]		Requested By (signature)	[Signature]		Carrier		
Requested By (printed)	Michael Hess		Requested By (printed)	DAVID DESPICES		Laboratory		
Date/Time	7/22/2011 0:00		Date/Time	7-21-11 3:24		Contact		
Accepted By (signature)	[Signature]		Accepted By (signature)	[Signature]		Address		
Accepted By (printed)	DAVID DESPICES		Accepted By (printed)	DAVID DESPICES		Phone		
Date/Time			Date/Time	7/22/2011 15:24		Fax		



Airtech Environmental Services Inc.
801A Country Club Drive
Genevieve, IL 60106
Phone: (630) 860-4740, Fax: (630) 860-4745

ANALYTICAL DATA

Analytical Calculations

Metals-

$$\text{Element Results } (\mu\text{g}) = \text{ICP Results } (\mu\text{g/L}) * \text{Dilution} * \text{Final Volume (L)}$$

Where-

ICP Results= Raw sample concentration (ppb)--*ICP-Data Sheet*

Dilution= $\frac{\text{Diluted Volume}}{\text{Aliquot}}$ --*ICP-MS Run Sheet*

Final Volume= FH= Final Volume (FV)--*Sample Submission*

BH= $\frac{\text{Received Volume (BV)} * \text{Final Volume (FV)}}{\text{Aliquot (Used)}}$ --*Sample Submission*

Combined Results= FH+BH

Analytical Calculations

Spike Recovery-

$$\text{Spike (\%)} = \frac{(\text{Spiked Result } (\mu\text{g/L}) - \text{Sample Result } (\mu\text{g/L}))}{\text{Spike Amount } (\mu\text{g/L})} \times 100$$

Where-

Spike Result = Raw sample concentration (ppb)--*ICP-Data Sheet*

Sample Result = Raw sample concentration (ppb)--*ICP-Data Sheet*

Spike Amount--*ICP-MS Spike Table*

Duplicate Analysis RPD-

$$\text{RPD (\%)} = \frac{(\text{Duplicate Result } (\mu\text{g/L}) - \text{Sample Result } (\mu\text{g/L}))}{\text{Average } (\mu\text{g/L})} \times 100$$

Where-

Sample Result and Duplicate Results=Raw sample concentration (ppb)--*ICP-Data Sheet*

$$\text{Average} = \frac{(\text{Duplicate} + \text{Sample Results})}{2}$$

FH/BH Separate Analysis

Analysis Due Date 08.03.11
QA/QC/Report Due Date 08.05.11

Client Airtech Environmental Services, Inc.
Project No 3648

Date Rec 07.26.11
Time Rec 1524

HNO₃ Lot: 50322 HF Lot: 511870 HCl Lot: 51435
Volume Marked Y/N Volume Loss Y/N Ref. Method: 29

Sample Identification

1	ESP 1-M29-R1	7	ESP 2-M29-R1	13	ESP 3-M29-R1
2	ESP 1-M29-R2	8	ESP 2-M29-R2	14	ESP 3-M29-R2
	ESP 1-M29-R2 Duplicate		ESP 2-M29-R2 Duplicate		ESP 3-M29-R2 Duplicate
3	ESP 1-M29-R3	9	ESP 2-M29-R3	15	ESP 3-M29-R3
	ESP 1-M29-R3 Spike		ESP 2-M29-R3 Spike		ESP 3-M29-R3 Spike
4	ESP 1-M29-R4	10	ESP 2-M29-R4	16	ESP 3-M29-R4
5	ESP 1-M29-R5	11	ESP 2-M29-R5	17	ESP 3-M29-R5
6	ESP 1-M29-R6	12	ESP 2-M29-R6	18	ESP 3-M29-R6

Analyses Requested Samples 1-18 Sb, As, Be, Cd, Cr, Co, Pb, Mn, Ni, Se

Runs / FB	Fil / Ace (FH)		HNO ₃ (FH)		5% HNO ₃ /10% H ₂ O ₂ (BH)			HNO ₃ (A)		KMnO ₄ (B)		HCl (C)	
	pH <2.0 Y/N		pH <2.0 Y/N		pH <2.0 Y/N	Used		pH <2.0 Y/N		pH <2.0 Y/N		pH <2.0 Y/N	
Lab ID	FH ID	BV ml	BV ml	FV ml	BV ml		FV ml	BV ml	FV ml	BV ml	FV ml	BV ml	FV ml
1			65	100	44	220	50						
2.D			45		40	200							
3.S			140		100	200							
4			150		50	275							
5			140		85	225							
6.			65		43	215							
7			130		40	200							
8.D			130		30	180							
9.S			55		47	210							
10			75		61	210							
11			90		54	270							
12			150		56	280							
13			55		47	200							
14.D			65		40	200							
15.S			100		42	210							
16			160		61	320							
17			105		57	255							
18			155		80	260							

Lab Communications

Per Jim via phone, use id, not label, for ESP 1-R3.

SS Page 1 of 2
7/27/2011 4:04:31 PM
SS By: JLB
Labeled By/Date: KCS 7.27.11

FH Prep By/Date: JLB 7/27/11
BH Prep By/Date: JLB 7/27/11
BH/FH Prep By/Date: _____
PM Prep By/Date: _____
A Prep By/Date: _____
B Prep By/Date: _____
C Prep By/Date: _____
ID Verification By/Date: CAL 7-29-11

FH/BH Separate Analysis

Analysis Due Date 08.03.11
QA/QC/Report Due Date 08.05.11

Client Airtech Environmental Services, Inc.
Project No 3648

Date Rec 07.26.11
Time Rec 1524

HNO₃ Lot: HF Lot: HCl Lot: Ref. Method:
Volume Marked Y/N Volume Loss Y/N/? 29

Sample Identification

19	ESP 4-M29-R1	25	Stack-M29-R1	31	Reagent Blank (e17070)
20	ESP 4-M29-R2	26	Stack-M29-R2		
	ESP 4-M29-R2 Duplicate		Stack-M29-R2 Duplicate		
21	ESP 4-M29-R3	27	Stack-M29-R3		
	ESP 4-M29-R3 Spike		Stack-M29-R3 Spike		
22	ESP 4-M29-R4	28	Stack-M29-R4		
23	ESP 4-M29-R5	29	Stack-M29-R5		
24	ESP 4-M29-R6	30	Stack-M29-R6		

Analyses Requested Samples 19-30-31 Sb, As, Be, Cd, Cr, Co, Pb, Mn, Ni, Se

Runs / FB	Fil / Ace (FH)		HNO ₃ (FH)		5% HNO ₃ /10% H ₂ O ₂ (BH)			HNO ₃ (A)		KMnO ₄ (B)		HCl (C)	
	pH <2.0	Y/N	pH <2.0	Y/N	pH <2.0	Y/N		pH <2.0	Y/N	pH <2.0	Y/N	pH <2.0	Y/N
Lab ID	Fil ID	BV ml	BV ml	FV ml	BV ml	Used	FV ml	BV ml	FV ml	BV ml	FV ml	BV ml	FV ml
19			55	100	120	55							
20.D			40		410	205							
21.S			125		400	200							
22			155		600	300							
23			70		570	245							
24			90		560	290							
25			170		430	240							
26.D			170		460	230							
27.S			90		460	230							
28			100		610	330							
29			145		600	340							
30			150		660	330							

Lab Communications
Filter #11 had 2 filters

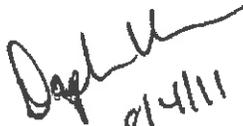
NOTE—Run RB from job e17070. (e17070 + e17071 are both linked 3648) 7/27/11
Fractions Received: C1, C3, C4

SS Page 2 of 2
7/27/2011 4:04:31 PM
SS By ALB
Labeled By/Date _____

FH Prep By/Date _____ A Prep By/Date _____
BH Prep By/Date _____ B Prep By/Date _____
BH/FH Prep By/Date _____ C Prep By/Date _____
PM Prep By/Date _____ ID Verification By / Date _____

Sample/Batch Report

User Name: icp
 Computer Name: D8D4DWD1
 Sample File: C:\elandata_icp\Sample\8.sam
 Report Date/Time: Thursday, August 04, 2011 11:50:33


 8/4/11

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
	5	QC Std 2	Airtech	Sample					
101		LRB FH	Airtech	Sample					
102	S	LRB FH	Airtech	Spike - 1 of 2					
103		17071-1 FH	Airtech	Sample					
104		17071-2 FH	Airtech	Sample					
105	D	17071-2 FH	Airtech	Duplicate of 5					
106		17071-3 FH	Airtech	Sample					
107	S	17071-3 FH	Airtech	Spike - 1 of 7					
108		17071-4 FH	Airtech	Sample					
109		17071-5 FH	Airtech	Sample					
110		17071-6 FH	Airtech	Sample					
111		17071-7 FH	Airtech	Sample					
112		17071-8 FH	Airtech	Sample					
113	D	17071-8 FH	Airtech	Duplicate of 13					
114		17071-9 FH	Airtech	Sample					
115	S	17071-9 FH	Airtech	Spike - 1 of 15					
116		17071-10 FH	Airtech	Sample					
117		17071-11 FH	Airtech	Sample					
118		17071-12 FH	Airtech	Sample					
119		17071-13 FH	Airtech	Sample					
120		17071-14 FH	Airtech	Sample					
121	D	17071-14 FH	Airtech	Duplicate of 21					
122		17071-15 FH	Airtech	Sample					
123	S	17071-15 FH	Airtech	Spike - 1 of 23					
124		17071-16 FH	Airtech	Sample					
125		17071-17 FH	Airtech	Sample					
126		17071-18 FH	Airtech	Sample					
127		17071-19 FH	Airtech	Sample					
128		17071-20 FH	Airtech	Sample					
129	D	17071-20 FH	Airtech	Duplicate of 29					
130		17071-21 FH	Airtech	Sample					
131	S	17071-21 FH	Airtech	Spike - 1 of 31					
132		17071-22 FH	Airtech	Sample					
133		17071-23 FH	Airtech	Sample					
134		17071-24 FH	Airtech	Sample					
135		17071-25 FH	Airtech	Sample					
136		17071-26 FH	Airtech	Sample					
137	D	17071-26 FH	Airtech	Duplicate of 37					
138		17071-27 FH	Airtech	Sample					
139	S	17071-27 FH	Airtech	Spike - 1 of 39					
140		17071-28 FH	Airtech	Sample					
141		17071-29 FH	Airtech	Sample					
142		17071-30 FH	Airtech	Sample					
143		17071-31 FH	Airtech	Sample					
201		LRB BH	Airtech	Sample					
202	S	LRB BH	Airtech	Spike - 1 of 45					
203		17071-1 BH	Airtech	Sample					
204		17071-2 BH	Airtech	Sample					
205	D	17071-2 BH	Airtech	Duplicate of 48					

206		17071-3 BH Airtech	Sample
207	S	17071-3 BH Airtech	Spike - 1 of 50
208		17071-4 BH Airtech	Sample
209		17071-5 BH Airtech	Sample
210		17071-6 BH Airtech	Sample
211		17071-7 BH Airtech	Sample
212		17071-8 BH Airtech	Sample
213	D	17071-8 BH Airtech	Duplicate of 56
214		17071-9 BH Airtech	Sample
215	S	17071-9 BH Airtech	Spike - 1 of 58
216		17071-10 BH Airtech	Sample
217		17071-11 BH Airtech	Sample
218		17071-12 BH Airtech	Sample
219		17071-13 BH Airtech	Sample
220		17071-14 BH Airtech	Sample
221	D	17071-14 BH Airtech	Duplicate of 64
222		17071-15 BH Airtech	Sample
223	S	17071-15 BH Airtech	Spike - 1 of 66
224		17071-16 BH Airtech	Sample
225		17071-17 BH Airtech	Sample
226		17071-18 BH Airtech	Sample
227		17071-19 BH Airtech	Sample
228		17071-20 BH Airtech	Sample
229	D	17071-20 BH Airtech	Duplicate of 72
230		17071-21 BH Airtech	Sample
231	S	17071-21 BH Airtech	Spike - 1 of 74
232		17071-22 BH Airtech	Sample
233		17071-23 BH Airtech	Sample
234		17071-24 BH Airtech	Sample
235		17071-25 BH Airtech	Sample
236		17071-26 BH Airtech	Sample
237	D	17071-26 BH Airtech	Duplicate of 80
238		17071-27 BH Airtech	Sample
239	S	17071-27 BH Airtech	Spike - 1 of 82
240		17071-28 BH Airtech	Sample
241		17071-29 BH Airtech	Sample
242		17071-30 BH Airtech	Sample
243		17071-31 BH Airtech	Sample

Sample/Batch Report

User Name: icp
 Computer Name: D8D4DWD1
 Sample File: C:\elandata_icp\Sample\10.sam
 Report Date/Time: Thursday, August 04, 2011 11:51:34

Daph L
8/4/11

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
	5	QC Std 2	Airtech	Sample					
101		LRB FH	Airtech	Sample					
102	S	LRB FH	Airtech	Spike - 1 of 2					
301	x10	17071-1 FH	Airtech	Sample					
302	x10	17071-2 FH	Airtech	Sample					
303	x10d	17071-2 FH	Airtech	Duplicate of 5					
304		17071-2 FH	Airtech	Sample					
305	D	17071-2 FH	Airtech	Duplicate of 7					
306	x10	17071-3 FH	Airtech	Sample					
307	x10s	17071-3 FH	Airtech	Spike - 1 of 9					
308	x10	17071-4 FH	Airtech	Sample					
109		17071-5 FH	Airtech	Sample					
309	x5	17071-6 FH	Airtech	Sample					
111		17071-7 FH	Airtech	Sample					
310	x10	17071-8 FH	Airtech	Sample					
311	x10d	17071-8 FH	Airtech	Duplicate of 15					
312	x2	17071-9 FH	Airtech	Sample					
313	x2s	17071-9 FH	Airtech	Spike - 1 of 17					
116		17071-10 FH	Airtech	Sample					
117		17071-11 FH	Airtech	Sample					
118		17071-12 FH	Airtech	Sample					
314	x10	17071-13 FH	Airtech	Sample					
315	x2	17071-14 FH	Airtech	Sample					
316	x2d	17071-14 FH	Airtech	Duplicate of 23					
122		17071-15 FH	Airtech	Sample					
123	S	17071-15 FH	Airtech	Spike - 1 of 25					
317	x10	17071-15 FH	Airtech	Sample					
318	x10s	17071-15 FH	Airtech	Spike - 1 of 27					
319	x10	17071-16 FH	Airtech	Sample					
125		17071-17 FH	Airtech	Sample					
320	x10	17071-18 FH	Airtech	Sample					
127		17071-19 FH	Airtech	Sample					
321	x5	17071-20 FH	Airtech	Sample					
322	x5d	17071-20 FH	Airtech	Duplicate of 33					
323	x5	17071-21 FH	Airtech	Sample					
324	x5s	17071-21 FH	Airtech	Spike - 1 of 35					
132		17071-22 FH	Airtech	Sample					
133		17071-23 FH	Airtech	Sample					
134		17071-24 FH	Airtech	Sample					
325	x10	17071-25 FH	Airtech	Sample					
326	x10	17071-26 FH	Airtech	Sample					
327	x10d	17071-26 FH	Airtech	Duplicate of 41					
328	x5	17071-27 FH	Airtech	Sample					
329	x5s	17071-27 FH	Airtech	Spike - 1 of 43					
140		17071-28 FH	Airtech	Sample					
141		17071-29 FH	Airtech	Sample					
142		17071-30 FH	Airtech	Sample					
143		17071-31 FH	Airtech	Sample					
201		LRB BH	Airtech	Sample					

202	S	LRB BH	Airtech	Spike - 1 of 49
330	x2	17071-1 BH	Airtech	Sample
331	x2	17071-2 BH	Airtech	Sample
332	x2d	17071-2 BH	Airtech	Duplicate of 52
333	x2	17071-3 BH	Airtech	Sample
334	x2s	17071-3 BH	Airtech	Spike - 1 of 54
335	x2	17071-4 BH	Airtech	Sample
336	x10	17071-4 BH	Airtech	Sample
337	x2	17071-5 BH	Airtech	Sample
210		17071-6 BH	Airtech	Sample
338	x2	17071-7 BH	Airtech	Sample
339	x2	17071-8 BH	Airtech	Sample
340	x2d	17071-8 BH	Airtech	Duplicate of 61
341	x2	17071-9 BH	Airtech	Sample
342	x2s	17071-9 BH	Airtech	Spike - 1 of 63
343	x2	17071-10 BH	Airtech	Sample
344	x2	17071-11 BH	Airtech	Sample
345	x2	17071-12 BH	Airtech	Sample
346	x2	17071-13 BH	Airtech	Sample
347	x2	17071-14 BH	Airtech	Sample
348	x2d	17071-14 BH	Airtech	Duplicate of 69
349	x10	17071-14 BH	Airtech	Sample
350	x10d	17071-14 BH	Airtech	Duplicate of 71
351	x2	17071-15 BH	Airtech	Sample
352	x2s	17071-15 BH	Airtech	Spike - 1 of 73
353	x10	17071-15 BH	Airtech	Sample
354	x10s	17071-15 BH	Airtech	Spike - 1 of 75
355	x2	17071-16 BH	Airtech	Sample
356	x10	17071-16 BH	Airtech	Sample
357	x2	17071-17 BH	Airtech	Sample
358	x10	17071-17 BH	Airtech	Sample
359	x2	17071-18 BH	Airtech	Sample
360	x10	17071-18 BH	Airtech	Sample
401	x2	17071-19 BH	Airtech	Sample
402	x2	17071-20 BH	Airtech	Sample
403	x2d	17071-20 BH	Airtech	Duplicate of 84
404	x10	17071-20 BH	Airtech	Sample
405	x10d	17071-20 BH	Airtech	Duplicate of 86
406	x2	17071-21 BH	Airtech	Sample
407	x2s	17071-21 BH	Airtech	Spike - 1 of 88
408	x10	17071-21 BH	Airtech	Sample
409	x10s	17071-21 BH	Airtech	Spike - 1 of 90
410	x2	17071-22 BH	Airtech	Sample
411	x10	17071-22 BH	Airtech	Sample
412	x2	17071-23 BH	Airtech	Sample
413	x10	17071-23 BH	Airtech	Sample
414	x2	17071-24 BH	Airtech	Sample
415	x10	17071-24 BH	Airtech	Sample
235		17071-25 BH	Airtech	Sample
236		17071-26 BH	Airtech	Sample
237	D	17071-26 BH	Airtech	Duplicate of 99
416	x2	17071-27 BH	Airtech	Sample
417	x2s	17071-27 BH	Airtech	Spike - 1 of 101
240		17071-28 BH	Airtech	Sample
418	x2	17071-29 BH	Airtech	Sample
419	x10	17071-29 BH	Airtech	Sample
420	x2	17071-30 BH	Airtech	Sample
243		17071-31 BH	Airtech	Sample
5		QC Std 2	Airtech	Sample
101	x5	17071-9 FH	Airtech	Sample

102	x5s	17071-9 FH Airtech	Spike - 1 of 109
321	x5	17071-20 FHAirtech	Sample
322	x5d	17071-20 FHAirtech	Duplicate of 111
323	x5	17071-21 FHAirtech	Sample
324	x5s	17071-21 FHAirtech	Spike - 1 of 113
132		17071-22 FHAirtech	Sample
133		17071-23 FHAirtech	Sample
103	x2	17071-24 FHAirtech	Sample
325	x10	17071-25 FHAirtech	Sample
326	x10	17071-26 FHAirtech	Sample
327	x10d	17071-26 FHAirtech	Duplicate of 119
328	x5	17071-27 FHAirtech	Sample
329	x5s	17071-27 FHAirtech	Spike - 1 of 121
104	x10	17071-3 BH Airtech	Sample
105	x10s	17071-3 BH Airtech	Spike - 1 of 123
106	x5	17071-5 BH Airtech	Sample
107	x10	17071-9 BH Airtech	Sample
108	x10s	17071-9 BH Airtech	Spike - 1 of 126
109	x10	17071-11 BHAirtech	Sample
110	x50	17071-15 BHAirtech	Sample
111	x50s	17071-15 BHAirtech	Spike - 1 of 129
112	x50	17071-21 BHAirtech	Sample
113	x50s	17071-21 BHAirtech	Spike - 1 of 131
114	x5	17071-27 BHAirtech	Sample
115	x5s	17071-27 BHAirtech	Spike - 1 of 133
5		QC Std 2 Airtech	Sample
425	x50	17071-3 BH Airtech	Sample
426	x50s	17071-3 BH Airtech	Spike - 1 of 136
427	x50	17071-9 BH Airtech	Sample
428	x50s	17071-9 BH Airtech	Spike - 1 of 138
429	x100	17071-15 BHAirtech	Sample
430	x100s	17071-15 BHAirtech	Spike - 1 of 140
431	x100	17071-21 BHAirtech	Sample
432	x100s	17071-21 BHAirtech	Spike - 1 of 142
114	x5	17071-27 BHAirtech	Sample
115	x5s	17071-27 BHAirtech	Spike - 1 of 144

Dataset Report

User Name: icp
Computer Name: D8D4DWD1
Dataset File Path: C:\elandata_icp\DataSet\080311-1\
Report Date/Time: Thursday, August 04, 2011 11:50:15

Daphne
8/4/11

Autosampler Position: 3

The Dataset

Time	Sample ID	Batch ID	Read Type	Description	Init. Quant	Prep. Vol.	Aliquot. Vol.	Diluted V
10:00:53 Wed 03-Aug-11	Blank		Blank					
10:03:02 Wed 03-Aug-11	Standard 1		Standard #1					
10:05:11 Wed 03-Aug-11	Standard 2		Standard #2					
10:07:21 Wed 03-Aug-11	Standard 3		Standard #3					
10:09:30 Wed 03-Aug-11	QC Std 1		QC Std #1					
10:11:40 Wed 03-Aug-11	QC Std 2		QC Std #2					
10:13:49 Wed 03-Aug-11	QC Std 3		QC Std #3					
10:16:00 Wed 03-Aug-11	QC Std 4		QC Std #4					
10:18:10 Wed 03-Aug-11	QC Std 5		QC Std #5					
10:20:19 Wed 03-Aug-11	QC Std 6		QC Std #6					
10:22:29 Wed 03-Aug-11	QC Std 7		QC Std #7					
10:24:38 Wed 03-Aug-11	QC Std 8		QC Std #8					
10:26:49 Wed 03-Aug-11	QC Std 2		Sample	Airtech				
10:28:59 Wed 03-Aug-11	LRB FH		Sample	Airtech				
10:31:09 Wed 03-Aug-11	LRB FH	S	Spike - 1 of 14	Airtech				
10:33:18 Wed 03-Aug-11	17071-1 FH		Sample	Airtech				
10:35:27 Wed 03-Aug-11	17071-2 FH		Sample	Airtech				
10:37:36 Wed 03-Aug-11	17071-2 FH	D	Duplicate of 17	Airtech				
10:39:46 Wed 03-Aug-11	17071-3 FH		Sample	Airtech				
10:41:55 Wed 03-Aug-11	17071-3 FH	S	Spike - 1 of 19	Airtech				
10:44:04 Wed 03-Aug-11	17071-4 FH		Sample	Airtech				
10:46:14 Wed 03-Aug-11	17071-5 FH		Sample	Airtech				
10:48:25 Wed 03-Aug-11	QC Std 1		QC Std #1					
10:50:35 Wed 03-Aug-11	QC Std 4		QC Std #4					
10:52:47 Wed 03-Aug-11	17071-6 FH		Sample	Airtech				
10:54:56 Wed 03-Aug-11	17071-7 FH		Sample	Airtech				
10:57:05 Wed 03-Aug-11	17071-8 FH		Sample	Airtech				
10:59:15 Wed 03-Aug-11	17071-8 FH	D	Duplicate of 27	Airtech				
11:01:24 Wed 03-Aug-11	17071-9 FH		Sample	Airtech				
11:03:33 Wed 03-Aug-11	17071-9 FH	S	Spike - 1 of 29	Airtech				
11:05:42 Wed 03-Aug-11	17071-10 FH		Sample	Airtech				
11:07:52 Wed 03-Aug-11	17071-11 FH		Sample	Airtech				
11:10:01 Wed 03-Aug-11	17071-12 FH		Sample	Airtech				
11:12:10 Wed 03-Aug-11	17071-13 FH		Sample	Airtech				
11:14:22 Wed 03-Aug-11	QC Std 1		QC Std #1					
11:16:31 Wed 03-Aug-11	QC Std 4		QC Std #4					
11:18:43 Wed 03-Aug-11	17071-14 FH		Sample	Airtech				
11:20:52 Wed 03-Aug-11	17071-14 FH	D	Duplicate of 37	Airtech				
11:23:02 Wed 03-Aug-11	17071-15 FH		Sample	Airtech				
11:25:11 Wed 03-Aug-11	17071-15 FH	S	Spike - 1 of 39	Airtech				
11:27:20 Wed 03-Aug-11	17071-16 FH		Sample	Airtech				
11:29:30 Wed 03-Aug-11	17071-17 FH		Sample	Airtech				
11:31:39 Wed 03-Aug-11	17071-18 FH		Sample	Airtech				

080311-1CP-1

11:33:48 Wed 03-Aug-11	17071-19 FH		Sample	Airtech
11:35:57 Wed 03-Aug-11	17071-20 FH		Sample	Airtech
11:38:07 Wed 03-Aug-11	17071-20 FH	D	Duplicate of 45	Airtech
11:40:18 Wed 03-Aug-11	QC Std 1		QC Std #1	
11:42:28 Wed 03-Aug-11	QC Std 4		QC Std #4	
11:44:39 Wed 03-Aug-11	17071-21 FH		Sample	Airtech
11:46:48 Wed 03-Aug-11	17071-21 FH	S	Spike - 1 of 49	Airtech
11:48:58 Wed 03-Aug-11	17071-22 FH		Sample	Airtech
11:51:07 Wed 03-Aug-11	17071-23 FH		Sample	Airtech
11:53:16 Wed 03-Aug-11	17071-24 FH		Sample	Airtech
11:55:25 Wed 03-Aug-11	17071-25 FH		Sample	Airtech
11:57:35 Wed 03-Aug-11	17071-26 FH		Sample	Airtech
11:59:44 Wed 03-Aug-11	17071-26 FH	D	Duplicate of 55	Airtech
12:01:54 Wed 03-Aug-11	17071-27 FH		Sample	Airtech
12:04:03 Wed 03-Aug-11	17071-27 FH	S	Spike - 1 of 57	Airtech
12:06:14 Wed 03-Aug-11	QC Std 1		QC Std #1	
12:08:24 Wed 03-Aug-11	QC Std 4		QC Std #4	
12:10:35 Wed 03-Aug-11	17071-28 FH		Sample	Airtech
12:12:44 Wed 03-Aug-11	17071-29 FH		Sample	Airtech
12:14:53 Wed 03-Aug-11	17071-30 FH		Sample	Airtech
12:17:02 Wed 03-Aug-11	17071-31 FH		Sample	Airtech
12:19:13 Wed 03-Aug-11	LRB BH		Sample	Airtech
12:21:23 Wed 03-Aug-11	LRB BH	S	Spike - 1 of 65	Airtech
12:23:32 Wed 03-Aug-11	17071-1 BH		Sample	Airtech
12:25:41 Wed 03-Aug-11	17071-2 BH		Sample	Airtech
12:27:51 Wed 03-Aug-11	17071-2 BH	D	Duplicate of 68	Airtech
12:30:00 Wed 03-Aug-11	17071-3 BH		Sample	Airtech
12:32:10 Wed 03-Aug-11	17071-3 BH	S	Spike - 1 of 70	Airtech
12:34:22 Wed 03-Aug-11	QC Std 1		QC Std #1	
12:36:31 Wed 03-Aug-11	QC Std 4		QC Std #4	
12:38:43 Wed 03-Aug-11	17071-4 BH		Sample	Airtech
12:40:52 Wed 03-Aug-11	17071-5 BH		Sample	Airtech
12:43:01 Wed 03-Aug-11	17071-6 BH		Sample	Airtech
12:45:11 Wed 03-Aug-11	17071-7 BH		Sample	Airtech
12:47:20 Wed 03-Aug-11	17071-8 BH		Sample	Airtech
12:49:30 Wed 03-Aug-11	17071-8 BH	D	Duplicate of 78	Airtech
12:51:39 Wed 03-Aug-11	17071-9 BH		Sample	Airtech
12:53:49 Wed 03-Aug-11	17071-9 BH	S	Spike - 1 of 80	Airtech
12:55:58 Wed 03-Aug-11	17071-10 BH		Sample	Airtech
12:58:07 Wed 03-Aug-11	17071-11 BH		Sample	Airtech
13:00:19 Wed 03-Aug-11	QC Std 1		QC Std #1	
13:02:28 Wed 03-Aug-11	QC Std 4		QC Std #4	
13:04:40 Wed 03-Aug-11	17071-12 BH		Sample	Airtech
13:06:50 Wed 03-Aug-11	17071-13 BH		Sample	Airtech
13:08:59 Wed 03-Aug-11	17071-14 BH		Sample	Airtech
13:11:08 Wed 03-Aug-11	17071-14 BH	D	Duplicate of 88	Airtech
13:13:18 Wed 03-Aug-11	17071-15 BH		Sample	Airtech
13:15:26 Wed 03-Aug-11	17071-15 BH	S	Spike - 1 of 90	Airtech
13:17:36 Wed 03-Aug-11	17071-16 BH		Sample	Airtech
13:19:45 Wed 03-Aug-11	17071-17 BH		Sample	Airtech
13:21:54 Wed 03-Aug-11	17071-18 BH		Sample	Airtech
13:24:04 Wed 03-Aug-11	17071-19 BH		Sample	Airtech
13:26:16 Wed 03-Aug-11	QC Std 1		QC Std #1	
13:28:25 Wed 03-Aug-11	QC Std 4		QC Std #4	
13:30:36 Wed 03-Aug-11	17071-20 BH		Sample	Airtech
13:32:45 Wed 03-Aug-11	17071-20 BH	D	Duplicate of 98	Airtech

13:34:55 Wed 03-Aug-11	17071-21 B H		Sample	Airtech
13:37:04 Wed 03-Aug-11	17071-21 BH	S	Spike - 1 of 10	Airtech
13:39:13 Wed 03-Aug-11	17071-22 BH		Sample	Airtech
13:41:22 Wed 03-Aug-11	17071-23 BH		Sample	Airtech
13:43:31 Wed 03-Aug-11	17071-24 BH		Sample	Airtech
13:45:41 Wed 03-Aug-11	17071-25 BH		Sample	Airtech
13:47:50 Wed 03-Aug-11	17071-26 BH		Sample	Airtech
13:49:59 Wed 03-Aug-11	17071-26 BH	D	Duplicate of 10	Airtech
13:52:10 Wed 03-Aug-11	QC Std 1		QC Std #1	
13:54:20 Wed 03-Aug-11	QC Std 4		QC Std #4	
13:56:31 Wed 03-Aug-11	17071-27 BH		Sample	Airtech
13:58:40 Wed 03-Aug-11	17071-27 BH	S	Spike - 1 of 11	Airtech
14:00:50 Wed 03-Aug-11	17071-28 BH		Sample	Airtech
14:02:59 Wed 03-Aug-11	17071-29 BH		Sample	Airtech
14:05:08 Wed 03-Aug-11	17071-30 BH		Sample	Airtech
14:07:18 Wed 03-Aug-11	17071-31 BH		Sample	Airtech
14:09:30 Wed 03-Aug-11	QC Std 1		QC Std #1	
14:11:39 Wed 03-Aug-11	QC Std 4		QC Std #4	
17:15:27 Wed 03-Aug-11	Blank		Blank	
17:17:37 Wed 03-Aug-11	Standard 1		Standard #1	
17:19:46 Wed 03-Aug-11	Standard 2		Standard #2	
17:21:55 Wed 03-Aug-11	Standard 3		Standard #3	
17:24:05 Wed 03-Aug-11	QC Std 1		QC Std #1	
17:26:15 Wed 03-Aug-11	QC Std 2		QC Std #2	
17:28:24 Wed 03-Aug-11	QC Std 3		QC Std #3	
17:30:34 Wed 03-Aug-11	QC Std 4		QC Std #4	
17:32:45 Wed 03-Aug-11	QC Std 5		QC Std #5	
17:34:54 Wed 03-Aug-11	QC Std 6		QC Std #6	
17:37:03 Wed 03-Aug-11	QC Std 7		QC Std #7	
17:39:13 Wed 03-Aug-11	QC Std 8		QC Std #8	
17:41:23 Wed 03-Aug-11	QC Std 2		Sample	Airtech
17:43:34 Wed 03-Aug-11	LRB FH		Sample	Airtech
17:45:43 Wed 03-Aug-11	LRB FH	S	Spike - 1 of 13	Airtech
17:47:54 Wed 03-Aug-11	17071-1 FH	x10	Sample	Airtech
17:50:04 Wed 03-Aug-11	17071-2 FH	x10	Sample	Airtech
17:52:13 Wed 03-Aug-11	17071-2 FH	x10d	Duplicate of 13	Airtech
17:54:22 Wed 03-Aug-11	17071-2 FH		Sample	Airtech
17:56:32 Wed 03-Aug-11	17071-2 FH	D	Duplicate of 13	Airtech
17:58:41 Wed 03-Aug-11	17071-3 FH	x10	Sample	Airtech
18:00:50 Wed 03-Aug-11	17071-3 FH	x10s	Spike - 1 of 13	Airtech
18:03:01 Wed 03-Aug-11	QC Std 1		QC Std #1	
18:05:11 Wed 03-Aug-11	QC Std 4		QC Std #4	
18:07:22 Wed 03-Aug-11	17071-4 FH	x10	Sample	Airtech
18:09:33 Wed 03-Aug-11	17071-5 FH		Sample	Airtech
18:11:44 Wed 03-Aug-11	17071-6 FH	x5	Sample	Airtech
18:13:55 Wed 03-Aug-11	17071-7 FH		Sample	Airtech
18:16:06 Wed 03-Aug-11	17071-8 FH	x10	Sample	Airtech
18:18:15 Wed 03-Aug-11	17071-8 FH	x10d	Duplicate of 14	Airtech
18:20:25 Wed 03-Aug-11	17071-9 FH	x2	Sample	Airtech
18:22:34 Wed 03-Aug-11	17071-9 FH	x2s	Spike - 1 of 14	Airtech
18:24:45 Wed 03-Aug-11	17071-10 FH		Sample	Airtech
18:26:54 Wed 03-Aug-11	17071-11 FH		Sample	Airtech
18:29:05 Wed 03-Aug-11	QC Std 1		QC Std #1	
18:31:15 Wed 03-Aug-11	QC Std 4		QC Std #4	
18:33:26 Wed 03-Aug-11	17071-12 FH		Sample	Airtech
18:35:37 Wed 03-Aug-11	17071-13 FH	x10	Sample	Airtech

050311-ICP-2

18:37:47 Wed 03-Aug-11	17071-14 FH	x2	Sample	Airtech
18:39:56 Wed 03-Aug-11	17071-14 FH	x2d	Duplicate of 15	Airtech
18:42:07 Wed 03-Aug-11	17071-15 FH		Sample	Airtech
18:44:17 Wed 03-Aug-11	17071-15 FH	S	Spike - 1 of 15	Airtech
18:46:28 Wed 03-Aug-11	17071-15 FH	x10	Sample	Airtech
18:48:37 Wed 03-Aug-11	17071-15 FH	x10s	Spike - 1 of 16	Airtech
18:50:47 Wed 03-Aug-11	17071-16 FH	x10	Sample	Airtech
18:52:58 Wed 03-Aug-11	17071-17 FH		Sample	Airtech
18:55:09 Wed 03-Aug-11	QC Std 1		QC Std #1	
18:57:18 Wed 03-Aug-11	QC Std 4		QC Std #4	
18:59:30 Wed 03-Aug-11	17071-18 FH	x10	Sample	Airtech
19:01:40 Wed 03-Aug-11	17071-19 FH		Sample	Airtech
19:03:51 Wed 03-Aug-11	17071-20 FH	x5	Sample	Airtech
19:06:01 Wed 03-Aug-11	17071-20 FH	x5d	Duplicate of 16	Airtech
19:08:10 Wed 03-Aug-11	17071-21 FH	x5	Sample	Airtech
19:10:20 Wed 03-Aug-11	17071-21 FH	x5s	Spike - 1 of 17	Airtech
19:12:31 Wed 03-Aug-11	17071-22 FH		Sample	Airtech
19:14:40 Wed 03-Aug-11	17071-23 FH		Sample	Airtech
19:18:49 Wed 03-Aug-11	17071-24 FH		Sample	Airtech
19:19:01 Wed 03-Aug-11	17071-25 FH	x10	Sample	Airtech
19:21:12 Wed 03-Aug-11	QC Std 1		QC Std #1	
19:23:21 Wed 03-Aug-11	QC Std 4		QC Std #4	
19:25:32 Wed 03-Aug-11	17071-26 FH	x10	Sample	Airtech
19:27:42 Wed 03-Aug-11	17071-26 FH	x10d	Duplicate of 17	Airtech
19:29:51 Wed 03-Aug-11	17071-27 FH	x5	Sample	Airtech
19:32:01 Wed 03-Aug-11	17071-27 FH	x5s	Spike - 1 of 18	Airtech
19:34:11 Wed 03-Aug-11	17071-28 FH		Sample	Airtech
19:36:20 Wed 03-Aug-11	17071-29 FH		Sample	Airtech
19:38:30 Wed 03-Aug-11	17071-30 FH		Sample	Airtech
19:40:39 Wed 03-Aug-11	17071-31 FH		Sample	Airtech
19:42:50 Wed 03-Aug-11	LRB BH		Sample	Airtech
19:44:59 Wed 03-Aug-11	LRB BH	S	Spike - 1 of 18	Airtech
19:47:11 Wed 03-Aug-11	QC Std 1		QC Std #1	
19:49:20 Wed 03-Aug-11	QC Std 4		QC Std #4	
19:51:31 Wed 03-Aug-11	17071-1 BH	x2	Sample	Airtech
19:53:41 Wed 03-Aug-11	17071-2 BH	x2	Sample	Airtech
19:55:50 Wed 03-Aug-11	17071-2 BH	x2d	Duplicate of 19	Airtech
19:58:00 Wed 03-Aug-11	17071-3 BH	x2	Sample	Airtech
20:00:09 Wed 03-Aug-11	17071-3 BH	x2s	Spike - 1 of 19	Airtech
20:02:19 Wed 03-Aug-11	17071-4 BH	x2	Sample	Airtech
20:04:28 Wed 03-Aug-11	17071-4 BH	x10	Sample	Airtech
20:06:37 Wed 03-Aug-11	17071-5 BH	x2	Sample	Airtech
20:08:48 Wed 03-Aug-11	17071-6 BH		Sample	Airtech
20:11:00 Wed 03-Aug-11	17071-7 BH	x2	Sample	Airtech
20:13:12 Wed 03-Aug-11	QC Std 1		QC Std #1	
20:15:21 Wed 03-Aug-11	QC Std 4		QC Std #4	
20:17:32 Wed 03-Aug-11	17071-8 BH	x2	Sample	Airtech
20:19:42 Wed 03-Aug-11	17071-8 BH	x2d	Duplicate of 20	Airtech
20:21:51 Wed 03-Aug-11	17071-9 BH	x2	Sample	Airtech
20:24:01 Wed 03-Aug-11	17071-9 BH	x2s	Spike - 1 of 20	Airtech
20:26:10 Wed 03-Aug-11	17071-10 BH	x2	Sample	Airtech
20:28:19 Wed 03-Aug-11	17071-11 BH	x2	Sample	Airtech
20:30:29 Wed 03-Aug-11	17071-12 BH	x2	Sample	Airtech
20:32:38 Wed 03-Aug-11	17071-13 BH	x2	Sample	Airtech
20:34:47 Wed 03-Aug-11	17071-14 BH	x2	Sample	Airtech
20:36:58 Wed 03-Aug-11	17071-14 BH	x2d	Duplicate of 21	Airtech

20:39:07 Wed 03-Aug-11	QC Std 1		QC Std #1
20:41:16 Wed 03-Aug-11	QC Std 4		QC Std #4
20:43:27 Wed 03-Aug-11	17071-14 BH	x10	Sample Airtech
20:45:36 Wed 03-Aug-11	17071-14 BH	x10d	Duplicate of 21Airtech
20:47:45 Wed 03-Aug-11	17071-15 BH	x2	Sample Airtech
20:49:54 Wed 03-Aug-11	17071-15 BH	x2s	Spike - 1 of 216Airtech
20:52:04 Wed 03-Aug-11	17071-15 BH	x10	Sample Airtech
20:54:12 Wed 03-Aug-11	17071-15 BH	x10s	Spike - 1 of 216Airtech
20:56:22 Wed 03-Aug-11	17071-16 BH	x2	Sample Airtech
20:58:31 Wed 03-Aug-11	17071-16 BH	x10	Sample Airtech
21:00:40 Wed 03-Aug-11	17071-17 BH	x2	Sample Airtech
21:02:50 Wed 03-Aug-11	17071-17 BH	x10	Sample Airtech
21:05:02 Wed 03-Aug-11	QC Std 1		QC Std #1
21:07:11 Wed 03-Aug-11	QC Std 4		QC Std #4
21:09:23 Wed 03-Aug-11	17071-18 BH	x2	Sample Airtech
21:11:32 Wed 03-Aug-11	17071-18 BH	x10	Sample Airtech
21:13:41 Wed 03-Aug-11	17071-19 BH	x2	Sample Airtech
21:15:51 Wed 03-Aug-11	17071-20 BH	x2	Sample Airtech
21:18:00 Wed 03-Aug-11	17071-20 BH	x2d	Duplicate of 22Airtech
21:20:09 Wed 03-Aug-11	17071-20 BH	x10	Sample Airtech
21:22:18 Wed 03-Aug-11	17071-20 BH	x10d	Duplicate of 23Airtech
21:24:27 Wed 03-Aug-11	17071-21 B H	x2	Sample Airtech
21:26:37 Wed 03-Aug-11	17071-21 BH	x2s	Spike - 1 of 235Airtech
21:28:46 Wed 03-Aug-11	17071-21 B H	x10	Sample Airtech
21:30:55 Wed 03-Aug-11	17071-21 BH	x10s	Spike - 1 of 235Airtech
21:33:07 Wed 03-Aug-11	QC Std 1		QC Std #1
21:35:17 Wed 03-Aug-11	QC Std 4		QC Std #4
21:37:29 Wed 03-Aug-11	17071-22 BH	x2	Sample Airtech
21:39:39 Wed 03-Aug-11	17071-22 BH	x10	Sample Airtech
21:41:48 Wed 03-Aug-11	17071-23 BH	x2	Sample Airtech
21:43:57 Wed 03-Aug-11	17071-23 BH	x10	Sample Airtech
21:46:06 Wed 03-Aug-11	17071-24 BH	x2	Sample Airtech
21:48:16 Wed 03-Aug-11	17071-24 BH	x10	Sample Airtech
21:50:27 Wed 03-Aug-11	17071-25 BH		Sample Airtech
21:52:36 Wed 03-Aug-11	17071-26 BH		Sample Airtech
21:54:45 Wed 03-Aug-11	17071-26 BH	D	Duplicate of 24Airtech
21:56:56 Wed 03-Aug-11	17071-27 BH	x2	Sample Airtech
21:59:05 Wed 03-Aug-11	17071-27 BH	x2s	Spike - 1 of 246Airtech
22:01:17 Wed 03-Aug-11	QC Std 1		QC Std #1
22:03:27 Wed 03-Aug-11	QC Std 4		QC Std #4
22:05:39 Wed 03-Aug-11	17071-28 BH		Sample Airtech
22:07:49 Wed 03-Aug-11	17071-29 BH	x2	Sample Airtech
22:09:59 Wed 03-Aug-11	17071-29 BH	x10	Sample Airtech
22:12:08 Wed 03-Aug-11	17071-30 BH	x2	Sample Airtech
22:14:18 Wed 03-Aug-11	17071-31 BH		Sample Airtech
22:16:30 Wed 03-Aug-11	QC Std 1		QC Std #1
22:18:40 Wed 03-Aug-11	QC Std 4		QC Std #4
08:54:13 Thu 04-Aug-11	QC Std 2		Sample Airtech
08:56:23 Thu 04-Aug-11	17071-9 FH	x5	Sample Airtech
08:58:33 Thu 04-Aug-11	17071-9 FH	x5s	Spike - 1 of 26Airtech
09:00:44 Thu 04-Aug-11	17071-20 FH	x5	Sample Airtech
09:02:53 Thu 04-Aug-11	17071-20 FH	x5d	Duplicate of 26Airtech
09:05:02 Thu 04-Aug-11	17071-21 FH	x5	Sample Airtech
09:07:11 Thu 04-Aug-11	17071-21 FH	x5s	Spike - 1 of 264Airtech
09:09:23 Thu 04-Aug-11	17071-22 FH		Sample Airtech
09:11:32 Thu 04-Aug-11	17071-23 FH		Sample Airtech

09:13:43 Thu 04-Aug-11	17071-24 FH	x2	Sample	Airtech
09:15:54 Thu 04-Aug-11	QC Std 1		QC Std #1	
09:18:03 Thu 04-Aug-11	QC Std 4		QC Std #4	
09:20:14 Thu 04-Aug-11	17071-25 FH	x10	Sample	Airtech
09:22:23 Thu 04-Aug-11	17071-26 FH	x10	Sample	Airtech
09:24:33 Thu 04-Aug-11	17071-26 FH	x10d	Duplicate of 27	Airtech
09:26:42 Thu 04-Aug-11	17071-27 FH	x5	Sample	Airtech
09:28:51 Thu 04-Aug-11	17071-27 FH	x5s	Spike - 1 of 274	Airtech
09:31:01 Thu 04-Aug-11	17071-3 BH	x10	Sample	Airtech
09:33:11 Thu 04-Aug-11	17071-3 BH	x10s	Spike - 1 of 276	Airtech
09:35:20 Thu 04-Aug-11	17071-5 BH	x5	Sample	Airtech
09:37:29 Thu 04-Aug-11	17071-9 BH	x10	Sample	Airtech
09:39:39 Thu 04-Aug-11	17071-9 BH	x10s	Spike - 1 of 275	Airtech
09:41:51 Thu 04-Aug-11	QC Std 1		QC Std #1	
09:44:00 Thu 04-Aug-11	QC Std 4		QC Std #4	
09:46:12 Thu 04-Aug-11	17071-11 BH	x10	Sample	Airtech
09:48:21 Thu 04-Aug-11	17071-15 BH	x50	Sample	Airtech
09:50:31 Thu 04-Aug-11	17071-15 BH	x50s	Spike - 1 of 284	Airtech
09:52:40 Thu 04-Aug-11	17071-21 B H	x50	Sample	Airtech
09:54:49 Thu 04-Aug-11	17071-21 BH	x50s	Spike - 1 of 286	Airtech
09:56:59 Thu 04-Aug-11	17071-27 BH	x5	Sample	Airtech
09:59:08 Thu 04-Aug-11	17071-27 BH	x5s	Spike - 1 of 288	Airtech
10:01:19 Thu 04-Aug-11	QC Std 1		QC Std #1	
10:03:29 Thu 04-Aug-11	QC Std 4		QC Std #4	
10:34:21 Thu 04-Aug-11	Blank		Blank	
10:36:30 Thu 04-Aug-11	Standard 1		Standard #1	
10:38:39 Thu 04-Aug-11	Standard 2		Standard #2	
10:40:48 Thu 04-Aug-11	Standard 3		Standard #3	
10:42:58 Thu 04-Aug-11	QC Std 1		QC Std #1	
10:45:08 Thu 04-Aug-11	QC Std 2		QC Std #2	
10:47:17 Thu 04-Aug-11	QC Std 3		QC Std #3	
10:49:27 Thu 04-Aug-11	QC Std 4		QC Std #4	
10:51:38 Thu 04-Aug-11	QC Std 5		QC Std #5	
10:53:47 Thu 04-Aug-11	QC Std 6		QC Std #6	
10:55:56 Thu 04-Aug-11	QC Std 7		QC Std #7	
10:58:06 Thu 04-Aug-11	QC Std 8		QC Std #8	
11:00:17 Thu 04-Aug-11	QC Std 2		Sample	Airtech
11:02:28 Thu 04-Aug-11	17071-3 BH	x50	Sample	Airtech
11:04:37 Thu 04-Aug-11	17071-3 BH	x50s	Spike - 1 of 305	Airtech
11:06:46 Thu 04-Aug-11	17071-9 BH	x50	Sample	Airtech
11:08:56 Thu 04-Aug-11	17071-9 BH	x50s	Spike - 1 of 307	Airtech
11:11:05 Thu 04-Aug-11	17071-15 BH	x100	Sample	Airtech
11:13:14 Thu 04-Aug-11	17071-15 BH	x100s	Spike - 1 of 305	Airtech
11:15:23 Thu 04-Aug-11	17071-21 B H	x100	Sample	Airtech
11:17:33 Thu 04-Aug-11	17071-21 BH	x100s	Spike - 1 of 311	Airtech
11:19:44 Thu 04-Aug-11	17071-27 BH	x5	Sample	Airtech
11:21:54 Thu 04-Aug-11	17071-27 BH	x5s	Spike - 1 of 313	Airtech
11:24:05 Thu 04-Aug-11	QC Std 1		QC Std #1	
11:26:14 Thu 04-Aug-11	QC Std 4		QC Std #4	

080311-ICP-3

Analyst: --dbw--

A/S Loc.	Dilution	Sample ID	Client	Type	Weight (g)	Prep Vol (ml)
5		QC Std 2	Airtech	Sample		
101		LRB FH	Airtech	Sample		100
102	S	LRB FH	Airtech	Spike - 1 of 2		100
103		17071-1 FH	Airtech	Sample		100
104		17071-2 FH	Airtech	Sample		100
105	D	17071-2 FH	Airtech	Duplicate of 5		100
106		17071-3 FH	Airtech	Sample		100
107	S	17071-3 FH	Airtech	Spike - 1 of 7		100
108		17071-4 FH	Airtech	Sample		100
109		17071-5 FH	Airtech	Sample		100
110		17071-6 FH	Airtech	Sample		100
111		17071-7 FH	Airtech	Sample		100
112		17071-8 FH	Airtech	Sample		100
113	D	17071-8 FH	Airtech	Duplicate of 13		100
114		17071-9 FH	Airtech	Sample		100
115	S	17071-9 FH	Airtech	Spike - 1 of 15		100
116		17071-10 FH	Airtech	Sample		100
117		17071-11 FH	Airtech	Sample		100
118		17071-12 FH	Airtech	Sample		100
119		17071-13 FH	Airtech	Sample		100
120		17071-14 FH	Airtech	Sample		100
121	D	17071-14 FH	Airtech	Duplicate of 21		100
122		17071-15 FH	Airtech	Sample		100
123	S	17071-15 FH	Airtech	Spike - 1 of 23		100
124		17071-16 FH	Airtech	Sample		100
125		17071-17 FH	Airtech	Sample		100
126		17071-18 FH	Airtech	Sample		100
127		17071-19 FH	Airtech	Sample		100
128		17071-20 FH	Airtech	Sample		100
129	D	17071-20 FH	Airtech	Duplicate of 29		100
130		17071-21 FH	Airtech	Sample		100
131	S	17071-21 FH	Airtech	Spike - 1 of 31		100
132		17071-22 FH	Airtech	Sample		100
133		17071-23 FH	Airtech	Sample		100
134		17071-24 FH	Airtech	Sample		100
135		17071-25 FH	Airtech	Sample		100
136		17071-26 FH	Airtech	Sample		100
137	D	17071-26 FH	Airtech	Duplicate of 37		100
138		17071-27 FH	Airtech	Sample		100
139	S	17071-27 FH	Airtech	Spike - 1 of 39		100
140		17071-28 FH	Airtech	Sample		100
141		17071-29 FH	Airtech	Sample		100
142		17071-30 FH	Airtech	Sample		100
143		17071-31 FH	Airtech	Sample		100
201		LRB BH	Airtech	Sample		50
202	S	LRB BH	Airtech	Spike - 1 of 45		50
203		17071-1 BH	Airtech	Sample		50x2
204		17071-2 BH	Airtech	Sample		50x2
205	D	17071-2 BH	Airtech	Duplicate of 48		50x2
206		17071-3 BH	Airtech	Sample		50x2
207	S	17071-3 BH	Airtech	Spike - 1 of 60		50x2
208		17071-4 BH	Airtech	Sample		50x2
209		17071-5 BH	Airtech	Sample		50x2
210		17071-6 BH	Airtech	Sample		50x2
211		17071-7 BH	Airtech	Sample		50x2
212		17071-8 BH	Airtech	Sample		50x2
213	D	17071-8 BH	Airtech	Duplicate of 56		50x2
214		17071-9 BH	Airtech	Sample		50x2
215	S	17071-9 BH	Airtech	Spike - 1 of 58		50x2
216		17071-10 BH	Airtech	Sample		50x2
217		17071-11 BH	Airtech	Sample		50x2
218		17071-12 BH	Airtech	Sample		50x2
219		17071-13 BH	Airtech	Sample		50x2
220		17071-14 BH	Airtech	Sample		50x2
221	D	17071-14 BH	Airtech	Duplicate of 64		50x2
222		17071-15 BH	Airtech	Sample		50x2
223	S	17071-15 BH	Airtech	Spike - 1 of 66		50x2
224		17071-16 BH	Airtech	Sample		50x2
225		17071-17 BH	Airtech	Sample		50x2
226		17071-18 BH	Airtech	Sample		50x2
227		17071-19 BH	Airtech	Sample		50x2
228		17071-20 BH	Airtech	Sample		50x2
229	D	17071-20 BH	Airtech	Duplicate of 72		50x2
230		17071-21 B H	Airtech	Sample		50x2
231	S	17071-21 BH	Airtech	Spike - 1 of 74		50x2
232		17071-22 BH	Airtech	Sample		50x2
233		17071-23 BH	Airtech	Sample		50x2
234		17071-24 BH	Airtech	Sample		50x2
235		17071-25 BH	Airtech	Sample		50x2
236		17071-26 BH	Airtech	Sample		50x2
237	D	17071-26 BH	Airtech	Duplicate of 80		50x2
238		17071-27 BH	Airtech	Sample		50x2

*Back Half samples
are extremely high
in sulfates, causing
matrix interference.*

Analyst:--dbw--

A/S Loc.	Dilution	Sample ID	Client	Type	Weight (g)	Prep Vol (ml)
239	S	17071-27 BH	Airtech	Spike - 1 of 82		50x2
240		17071-28 BH	Airtech	Sample		50x2
241		17071-29 BH	Airtech	Sample		50x2
242		17071-30 BH	Airtech	Sample		50x2
243		17071-31 BH	Airtech	Sample		50x2
5		QC Std 2	Airtech	Sample		
101		LRB FH	Airtech	Sample		100
102	S	LRB FH	Airtech	Spike - 1 of 2		100
301	x10	17071-1 FH	Airtech	Sample		100
302	x10	17071-2 FH	Airtech	Sample		100
303	x10d	17071-2 FH	Airtech	Duplicate of 5		100
304		17071-2 FH	Airtech	Sample		100
305	D	17071-2 FH	Airtech	Duplicate of 7		100
306	x10	17071-3 FH	Airtech	Sample		100
307	x10a	17071-3 FH	Airtech	Spike - 1 of 9		100
308	x10	17071-4 FH	Airtech	Sample		100
109		17071-5 FH	Airtech	Sample		100
309	x5	17071-6 FH	Airtech	Sample		100
111		17071-7 FH	Airtech	Sample		100
310	x10	17071-8 FH	Airtech	Sample		100
311	x10d	17071-8 FH	Airtech	Duplicate of 15		100
312	x2	17071-9 FH	Airtech	Sample		100
313	x2s	17071-9 FH	Airtech	Spike - 1 of 17		100
116		17071-10 FH	Airtech	Sample		100
117		17071-11 FH	Airtech	Sample		100
118		17071-12 FH	Airtech	Sample		100
314	x10	17071-13 FH	Airtech	Sample		100
315	x2	17071-14 FH	Airtech	Sample		100
316	x2d	17071-14 FH	Airtech	Duplicate of 23		100
122		17071-15 FH	Airtech	Sample		100
123	S	17071-15 FH	Airtech	Spike - 1 of 25		100
317	x10	17071-15 FH	Airtech	Sample		100
318	x10a	17071-15 FH	Airtech	Spike - 1 of 27		100
319	x10	17071-16 FH	Airtech	Sample		100
125		17071-17 FH	Airtech	Sample		100
320	x10	17071-18 FH	Airtech	Sample		100
127		17071-19 FH	Airtech	Sample		100
321	x5	17071-20 FH	Airtech	Sample		100
322	x5d	17071-20 FH	Airtech	Duplicate of 33		100
323	x5	17071-21 FH	Airtech	Sample		100
324	x5a	17071-21 FH	Airtech	Spike - 1 of 35		100
132		17071-22 FH	Airtech	Sample		100
133		17071-23 FH	Airtech	Sample		100
134		17071-24 FH	Airtech	Sample		100
325	x10	17071-25 FH	Airtech	Sample		100
326	x10	17071-26 FH	Airtech	Sample		100
327	x10d	17071-26 FH	Airtech	Duplicate of 41		100
328	x5	17071-27 FH	Airtech	Sample		100
329	x5a	17071-27 FH	Airtech	Spike - 1 of 43		100
140		17071-28 FH	Airtech	Sample		100
141		17071-29 FH	Airtech	Sample		100
142		17071-30 FH	Airtech	Sample		100
143		17071-31 FH	Airtech	Sample		100
201		LRB BH	Airtech	Sample		50
202	S	LRB BH	Airtech	Spike - 1 of 49		50
330	x2	17071-1 BH	Airtech	Sample		50x2
331	x2	17071-2 BH	Airtech	Sample		50x2
332	x2d	17071-2 BH	Airtech	Duplicate of 52		50x2
333	x2	17071-3 BH	Airtech	Sample		50x2
334	x2a	17071-3 BH	Airtech	Spike - 1 of 54		50x2
335	x2	17071-4 BH	Airtech	Sample		60x2
336	x10	17071-4 BH	Airtech	Sample		50x2
337	x2	17071-5 BH	Airtech	Sample		50x2
210		17071-6 BH	Airtech	Sample		60x2
338	x2	17071-7 BH	Airtech	Sample		50x2
339	x2	17071-8 BH	Airtech	Sample		60x2
340	x2d	17071-8 BH	Airtech	Duplicate of 51		50x2
341	x2	17071-9 BH	Airtech	Sample		50x2
342	x2a	17071-9 BH	Airtech	Spike - 1 of 53		50x2
343	x2	17071-10 BH	Airtech	Sample		50x2
344	x2	17071-11 BH	Airtech	Sample		50x2
345	x2	17071-12 BH	Airtech	Sample		50x2
346	x2	17071-13 BH	Airtech	Sample		50x2
347	x2	17071-14 BH	Airtech	Sample		50x2
348	x2d	17071-14 BH	Airtech	Duplicate of 69		50x2
348	x10	17071-14 BH	Airtech	Sample		50x2
350	x10d	17071-14 BH	Airtech	Duplicate of 71		50x2

Analyst:--dbw--

A/S Loc.	Dilution	Sample ID	Client	Type	Weight (g)	Prep Vol (ml)
351	x2	17071-15 BH	Airtech	Sample		50x2
352	x2s	17071-15 BH	Airtech	Spike - 1 of 73		50x2
353	x10	17071-15 BH	Airtech	Sample		50x2
354	x10s	17071-15 BH	Airtech	Spike - 1 of 75		50x2
355	x2	17071-16 BH	Airtech	Sample		50x2
356	x10	17071-16 BH	Airtech	Sample		50x2
357	x2	17071-17 BH	Airtech	Sample		50x2
358	x10	17071-17 BH	Airtech	Sample		50x2
359	x2	17071-18 BH	Airtech	Sample		50x2
360	x10	17071-18 BH	Airtech	Sample		50x2
401	x2	17071-19 BH	Airtech	Sample		50x2
402	x2	17071-20 BH	Airtech	Sample		50x2
403	x2d	17071-20 BH	Airtech	Duplicate of 84		50x2
404	x10	17071-20 BH	Airtech	Sample		50x2
405	x10d	17071-20 BH	Airtech	Duplicate of 86		50x2
406	x2	17071-21 B H	Airtech	Sample		50x2
407	x2s	17071-21 BH	Airtech	Spike - 1 of 88		50x2
408	x10	17071-21 B H	Airtech	Sample		50x2
408	x10s	17071-21 BH	Airtech	Spike - 1 of 90		50x2
410	x2	17071-22 BH	Airtech	Sample		50x2
411	x10	17071-22 BH	Airtech	Sample		50x2
412	x2	17071-23 BH	Airtech	Sample		50x2
413	x10	17071-23 BH	Airtech	Sample		50x2
414	x2	17071-24 BH	Airtech	Sample		50x2
415	x10	17071-24 BH	Airtech	Sample		50x2
235		17071-26 BH	Airtech	Sample		50x2
236		17071-28 BH	Airtech	Sample		50x2
237	D	17071-28 BH	Airtech	Duplicate of 89		50x2
416	x2	17071-27 BH	Airtech	Sample		50x2
417	x2s	17071-27 BH	Airtech	Spike - 1 of 101		50x2
240		17071-28 BH	Airtech	Sample		50x2
418	x2	17071-29 BH	Airtech	Sample		50x2
419	x10	17071-29 BH	Airtech	Sample		50x2
420	x2	17071-30 BH	Airtech	Sample		50x2
243		17071-31 BH	Airtech	Sample		50x2
5		QC Std 2	Airtech	Sample		
101	x5	17071-9 FH	Airtech	Sample		100
102	x5s	17071-9 FH	Airtech	Spike - 1 of 109		100
321	x5	17071-20 FH	Airtech	Sample		100
322	x5d	17071-20 FH	Airtech	Duplicate of 111		100
323	x5	17071-21 FH	Airtech	Sample		100
324	x5s	17071-21 FH	Airtech	Spike - 1 of 113		100
132		17071-22 FH	Airtech	Sample		100
133		17071-22 FH	Airtech	Sample		100
103	x2	17071-24 FH	Airtech	Sample		100
325	x10	17071-26 FH	Airtech	Sample		100
326	x10	17071-26 FH	Airtech	Sample		100
327	x10d	17071-26 FH	Airtech	Duplicate of 119		100
328	x5	17071-27 FH	Airtech	Sample		100
329	x5s	17071-27 FH	Airtech	Spike - 1 of 121		100
104	x10	17071-3 BH	Airtech	Sample		50x2
105	x10s	17071-3 BH	Airtech	Spike - 1 of 123		50x2
106	x5	17071-5 BH	Airtech	Sample		50x2
107	x10	17071-8 BH	Airtech	Sample		50x2
108	x10s	17071-8 BH	Airtech	Spike - 1 of 126		50x2
109	x10	17071-11 BH	Airtech	Sample		50x2
110	x50	17071-15 BH	Airtech	Sample		50x2
111	x50s	17071-15 BH	Airtech	Spike - 1 of 129		50x2
112	x50	17071-21 B H	Airtech	Sample		50x2
113	x50s	17071-21 BH	Airtech	Spike - 1 of 131		50x2
114	x5	17071-27 BH	Airtech	Sample		50x2
115	x5s	17071-27 BH	Airtech	Spike - 1 of 133		50x2
5		QC Std 2	Airtech	Sample		
425	x50	17071-3 BH	Airtech	Sample		50x2
426	x50s	17071-3 BH	Airtech	Spike - 1 of 136		50x2
427	x50	17071-9 BH	Airtech	Sample		50x2
428	x50s	17071-9 BH	Airtech	Spike - 1 of 138		50x2
429	x100	17071-15 BH	Airtech	Sample		50x2
430	x100s	17071-15 BH	Airtech	Spike - 1 of 140		50x2
431	x100	17071-21 B H	Airtech	Sample		50x2
432	x100s	17071-21 BH	Airtech	Spike - 1 of 142		50x2
114	x5	17071-27 BH	Airtech	Sample		50x2
115	x5s	17071-27 BH	Airtech	Spike - 1 of 144		50x2

Spikes are post at 0.02mL of 25ppm spiking solutions lot 021411-A&B in a final volume of 10mL				
Submitted for QC by:	Date/Time:	QC Review By:	Date/Time:	
dbw	8/4/11 11:54	DBW	8/4/11	1000
Re-Test Required:	No: <input checked="" type="checkbox"/>	Yes: <input type="checkbox"/>	Comments:	
Resubmitted for QC by:	Date/Time:	QC Review:	By:	Date/Time:

Method: Sample Database Realtime Interactive CallView RptOption RptView SmartTune Optimize Tuning Instrument Devices Scheduler

Timing MS Processing Equalizer Calibration Sampling QC

	Analyte	Mass (amu)	Spike Table 1 (Conc.)	Spike Table 1 Det. Limit (Conc.)	Spike Table 2 (Conc.)	Spike Table 2 Det. Limit (Conc.)	Spike Table 3 (Conc.)	Spike Table 3 Det. Limit (Conc.)	Spike Table 4 (Conc.)	Spike Table 4 Det. Limit (Conc.)	Spike Table 5 (Conc.)
1	Ba	208.02	50	1	25	1	100	1			
2	Cs	41.9629	50	1	25	1	100	1			
3	Li	51.9405	50	1	25	1	100	1			
4	Fr	70.907	50	1	25	1	100	1			
5	Na	59.9494	50	1	25	1	100	1			
6	Co	58.9332	50	1	25	1	100	1			
7	Al	26.9815	50	1	25	1	100	1			
8	Br	79.904	50	1	25	1	100	1			
9	Ca	78.074	50	1	25	1	100	1			
10	Sc	44.9559	50	1	25	1	100	1			
11	Cr	51.9961	50	1	25	1	100	1			
12	Cl	35.453	50	1	25	1	100	1			
13	Fe	55.9349	50	1	25	1	100	1			
14	P	30.9738	50	1	25	1	100	1			
15	K	39.0983	50	1	25	1	100	1			
16	S	32.065	50	1	25	1	100	1			

QC Std. QC Measurement Frequency QC Std. Int. Stds. Calibration Stds. Sample Int Stds. Sample Spike Dilution Duplicate Spike Tables QC Action Controls Autosampler

Thursday, Aug 04, 2011 11:50 AM

Sample/Batch Report

User Name: icp
 Computer Name: ICP-MS
 Sample File: C:\elandata_icp\Sample\1.sam
 Report Date/Time: Wednesday, August 10, 2011 08:36:26

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
	5	QC STD 2		Sample					
101		LRB BH	Airtech	Sample					
102	S	LRB BH	Airtech	Spike - 1 of 2					
103		17071-1 BH	Airtech	Sample					
104		17071-2 BH	Airtech	Sample					
105	D	17071-2 BH	Airtech	Duplicate of 5					
106		17071-3 BH	Airtech	Sample					
107	S	17071-3 BH	Airtech	Spike - 1 of 7					
108		17071-4 BH	Airtech	Sample					
109		17071-5 BH	Airtech	Sample					
110		17071-6 BH	Airtech	Sample					
111		17071-7 BH	Airtech	Sample					
112		17071-8 BH	Airtech	Sample					
113	D	17071-8 BH	Airtech	Duplicate of 13					
114		17071-9 BH	Airtech	Sample					
115	S	17071-9 BH	Airtech	Spike - 1 of 15					
116		17071-10 BH	Airtech	Sample					
117		17071-11 BH	Airtech	Sample					
118		17071-12 BH	Airtech	Sample					
119		17071-13 BH	Airtech	Sample					
120		17071-14 BH	Airtech	Sample					
121	D	17071-14 BH	Airtech	Duplicate of 21					
122		17071-15 BH	Airtech	Sample					
123	S	17071-15 BH	Airtech	Spike - 1 of 23					
124		17071-16 BH	Airtech	Sample					
125		17071-17 BH	Airtech	Sample					
126		17071-18 BH	Airtech	Sample					
127		17071-19 BH	Airtech	Sample					
128		17071-20 BH	Airtech	Sample					
129	D	17071-20 BH	Airtech	Duplicate of 29					
130		17071-21 BH	Airtech	Sample					
131	S	17071-21 BH	Airtech	Spike - 1 of 31					
132		17071-22 BH	Airtech	Sample					
133		17071-23 BH	Airtech	Sample					
134		17071-24 BH	Airtech	Sample					
135		17071-25 BH	Airtech	Sample					
136		17071-26 BH	Airtech	Sample					
137	D	17071-26 BH	Airtech	Duplicate of 37					
138		17071-27 BH	Airtech	Sample					
139	S	17071-27 BH	Airtech	Spike - 1 of 39					
140		17071-28 BH	Airtech	Sample					
141		17071-29 BH	Airtech	Sample					
142		17071-30 BH	Airtech	Sample					
143		17071-31 BH	Airtech	Sample					
144	x10	17071-21 S	Airtech	Sample					
145	x10s	17071-21 BH	Airtech	Spike - 1 of 45					

Dataset Report

User Name: icp
Computer Name: ICP-MS
Dataset File Path: C:\elandata_icp\DataSet\060911-2\
Report Date/Time: Wednesday, August 10, 2011 08:36:22

Autosampler Position: 3

The Dataset

Time	Sample ID	Batch ID	Read Type	Description	Init. Quant	Prep. Vol.	Aliquot. Vol.	Diluted V
18:10:00 Tue 09-Aug-11	Blank		Blank					
18:12:06 Tue 09-Aug-11	Standard 1		Standard #1					
18:14:12 Tue 09-Aug-11	Standard 2		Standard #2					
18:16:18 Tue 09-Aug-11	Standard 3		Standard #3					
18:18:25 Tue 09-Aug-11	QC Std 1		QC Std #1					
18:20:31 Tue 09-Aug-11	QC Std 2		QC Std #2					
18:22:37 Tue 09-Aug-11	QC Std 3		QC Std #3					
18:24:45 Tue 09-Aug-11	QC Std 4		QC Std #4					
18:26:52 Tue 09-Aug-11	QC Std 5		QC Std #5					
18:28:59 Tue 09-Aug-11	QC STD 2		Sample					
18:31:07 Tue 09-Aug-11	LRB BH		Sample	Airtech				
18:33:13 Tue 09-Aug-11	LRB BH	S	Spike - 1 of 11	Airtech				
18:35:19 Tue 09-Aug-11	17071-1 BH		Sample	Airtech				
18:37:25 Tue 09-Aug-11	17071-2 BH		Sample	Airtech				
18:39:32 Tue 09-Aug-11	17071-2 BH	D	Duplicate of 14	Airtech				
18:41:38 Tue 09-Aug-11	17071-3 BH		Sample	Airtech				
18:43:44 Tue 09-Aug-11	17071-3 BH	S	Spike - 1 of 16	Airtech				
18:45:50 Tue 09-Aug-11	17071-4 BH		Sample	Airtech				
18:47:56 Tue 09-Aug-11	17071-5 BH		Sample	Airtech				
18:50:05 Tue 09-Aug-11	QC Std 1		QC Std #1					
18:52:11 Tue 09-Aug-11	QC Std 4		QC Std #4					
18:54:20 Tue 09-Aug-11	17071-6 BH		Sample	Airtech				
18:56:26 Tue 09-Aug-11	17071-7 BH		Sample	Airtech				
18:58:32 Tue 09-Aug-11	17071-8 BH		Sample	Airtech				
19:00:38 Tue 09-Aug-11	17071-8 BH	D	Duplicate of 24	Airtech				
19:02:45 Tue 09-Aug-11	17071-9 BH		Sample	Airtech				
19:04:51 Tue 09-Aug-11	17071-9 BH	S	Spike - 1 of 26	Airtech				
19:06:57 Tue 09-Aug-11	17071-10 BH		Sample	Airtech				
19:09:03 Tue 09-Aug-11	17071-11 BH		Sample	Airtech				
19:11:09 Tue 09-Aug-11	17071-12 BH		Sample	Airtech				
19:13:15 Tue 09-Aug-11	17071-13 BH		Sample	Airtech				
19:15:24 Tue 09-Aug-11	QC Std 1		QC Std #1					
19:17:30 Tue 09-Aug-11	QC Std 4		QC Std #4					
19:19:39 Tue 09-Aug-11	17071-14 BH		Sample	Airtech				
19:21:45 Tue 09-Aug-11	17071-14 BH	D	Duplicate of 34	Airtech				
19:23:51 Tue 09-Aug-11	17071-15 BH		Sample	Airtech				
19:25:58 Tue 09-Aug-11	17071-15 BH	S	Spike - 1 of 36	Airtech				
19:28:04 Tue 09-Aug-11	17071-16 BH		Sample	Airtech				
19:30:10 Tue 09-Aug-11	17071-17 BH		Sample	Airtech				
19:32:16 Tue 09-Aug-11	17071-18 BH		Sample	Airtech				
19:34:22 Tue 09-Aug-11	17071-19 BH		Sample	Airtech				
19:36:28 Tue 09-Aug-11	17071-20 BH		Sample	Airtech				
19:38:35 Tue 09-Aug-11	17071-20 BH	D	Duplicate of 42	Airtech				

All samples are
at a X5 dilution.
Run on ^{150}Sm Curve.

19:40:43 Tue 09-Aug-11	QC Std 1		QC Std #1
19:42:49 Tue 09-Aug-11	QC Std 4		QC Std #4
19:44:57 Tue 09-Aug-11	17071-21 B H		Sample Airtech
19:47:04 Tue 09-Aug-11	17071-21 BH	S	Spike - 1 of 46 Airtech
19:48:10 Tue 09-Aug-11	17071-22 BH		Sample Airtech
19:51:16 Tue 09-Aug-11	17071-23 BH		Sample Airtech
19:53:22 Tue 09-Aug-11	17071-24 BH		Sample Airtech
19:55:28 Tue 09-Aug-11	17071-25 BH		Sample Airtech
19:57:34 Tue 09-Aug-11	17071-26 BH		Sample Airtech
19:59:41 Tue 09-Aug-11	17071-28 BH	D	Duplicate of 52 Airtech
20:01:47 Tue 09-Aug-11	17071-27 BH		Sample Airtech
20:03:53 Tue 09-Aug-11	17071-27 BH	S	Spike - 1 of 54 Airtech
20:06:01 Tue 09-Aug-11	QC Std 1		QC Std #1
20:08:08 Tue 09-Aug-11	QC Std 4		QC Std #4
20:10:16 Tue 09-Aug-11	17071-28 BH		Sample Airtech
20:12:22 Tue 09-Aug-11	17071-29 BH		Sample Airtech
20:14:28 Tue 09-Aug-11	17071-30 BH		Sample Airtech
20:16:34 Tue 09-Aug-11	17071-31 BH		Sample Airtech
20:18:42 Tue 09-Aug-11	QC Std 1		QC Std #1
20:20:49 Tue 09-Aug-11	QC Std 4		QC Std #4
08:08:15 Wed 10-Aug-11	17071-21 B H	x10	Sample Airtech
08:08:22 Wed 10-Aug-11	17071-21 BH	x10s	Spike - 1 of 84 Airtech
08:10:30 Wed 10-Aug-11	QC Std 1		QC Std #1
08:12:37 Wed 10-Aug-11	QC Std 4		QC Std #4

ICP Standards and QC Standards Values Table

Element or Test	Mass	Symbol	Std.#1 ppb	Std.#2 ppb	Std.#3 ppb	QC #1	QC #2	QC #3	QC #4	QC #6 A	QC #7 AB	QC #8 .25	QC #9 LRB	QC #10 LRB+	QC #11 LRB+
Lithium	6	<i>Li</i>													
Lithium	7	Li	1	100	500	0	1	250	100				0	50	100
Beryllium	9	Be	1	100	500	0	1	250	100			0.25	0	50	100
Boron	10	<i>B</i>	1	50	100	0	1	250	100				0	50	100
Boron	11	B	1	50	100	0	1	250	100				0	50	100
Sodium	23	Na	20	1100	5500	0	21	2500	1100				0	718	
Magnesium	24	Mg	20	1100	5500	0	21	2500	1100				0	550	
Magnesium	25	<i>Mg</i>	20	1100	5500	0	21	2500	1100				0	550	
Aluminum	27	Al	1	100	500	0	1	250	100				0	50	100
Phosphorus	31	P	20	1000	5000	0	20	2500	1000				0	200	
Potassium	39	K	20	1100	5500	0	21	2500	1100				0	500	
Calcium	44	Ca	50	1100	5500	0	21	2500	1100				0	550	
Scandium	45														
Titanium	47	Ti	1	100	500	0	1	250	100				0	50	100
Titanium	49	Ti	1	100	500	0	1	250	100				0	50	100
Vanadium	51	V	1	100	500	0	1	250	100	0	20		0	50	100
Vanadium	51	V	1	100	500	0	1	250	100	0	20		0	50	100
Chromium	52	Cr	1	100	500	0	1	250	100		10		0	50	100
Chromium	53	<i>Cr</i>	1	100	500	0	1	250	100		10		0	50	100
Iron	54	Fe	20	1100	5500	0	21	2500	1100	0			0		
Manganese	55	Mn	1	100	500	0	1	250	100	0	10		0	50	100
Iron	57	Fe	20	1100	5500	0	21	2500	1100	0			0		
Cobalt	59	Co	1	100	500	0	1	250	100	0	20		0	50	100
Nickel	60	Ni	1	100	500	0	1	250	100	0	20		0	50	100
Copper	63	Cu	1	100	500	0	1	250	100	0	10		0	50	100
Copper	65	Cu	1	100	500	0	1	250	100	0	10		0	50	100
Zinc	66	Zn	1	100	500	0	1	250	100	0	10		0	50	100
Zinc	67	Zn	1	100	500	0	1	250	100	0	10		0	50	100
Zinc	68	Zn	1	100	500	0	1	250	100	0	10		0	50	100
Germanium	72	Ge	1	100	500	0	1	250	100				0	50	100
Arsenic	75	As	1	100	500	0	1	250	100	0	10		0	50	100
Selenium	77	Se	1	100	500	0	1	250	100	0	10		0	50	100
Selenium	82	Se	1	100	500	0	1	250	100	0	10		0	50	100
Strontium	88	Sr	1	100	500	0	1	250	100	0			0	50	100
Molybdenum	95	<i>Mo</i>	1	100	500	0	1	250	100				0	50	100
Molybdenum	97	<i>Mo</i>	1	100	500	0	1	250	100				0	50	100
Molybdenum	98	Mo	1	100	500	0	1	200	100				0	50	100
Rhodium	103														
Silver	107	Ag	1	100	500	0	1	250	100	0	10		0	50	100
Silver	109	Ag	1	100	500	0	1	250	100	0	10		0	50	100
Cadmium	111	Cd	1	100	500	0	1	250	100	0	5		0	50	100
Cadmium	114	<i>Cd</i>	1	100	500	0	1	250	100	0	5		0	50	100
Tin	118	Sn	1	100	500	0	1	250	100	0			0	50	100
Antimony	121	<i>Sb</i>	1	100	500	0	1	250	100	0			0	50	100
Antimony	123	Sb	1	100	500	0	1	250	100	0			0	50	100
Tellurium	128	Te	1	100	500	0	1	250	100				0	50	100
Cesium	133														
Barium	135	<i>Ba</i>	1	100	500	0	1	250	100	0			0	50	100
Barium	137	Ba	1	100	500	0	1	250	100	0			0	50	100
Lanthanum	139	La	1	100	500	0	1	250	100				0	50	100
Tantalum	159	Ta	1	100	500	0	1	250	100				0	50	100
Platinum	195	Pt	1	100	500	0	1	250	100				0	50	100
Gold	181	Au	1	100	500	0	1	250	100				0	50	100
Thallium	206	Tl	1	100	500	0	1	250	100	0			0	50	100
Lead	208	Pb	1	100	500	0	1	250	100	0			0	50	100
Bismuth	209	Bi	1	100	500	0	1	250	100				0	50	100
Thorium	232	Th	1	100	500	0	1	250	100				0	50	100
Uranium	238	U	1	100	500	0	1	250	100				0	50	100
Krypton	83														

elementOne

elementOne

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Blank

Sample Date: Wednesday, August 03, 2011 10:00:53

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	103127.2		ppb
- Be	9	6		ppb
- Sc	45	321888.2		ppb
- Cr	52	17718.9		ppb
- Cr	53	48921.4		ppb
- Mn	55	15188.7		ppb
- Co	59	137		ppb
- Ni	60	495.7		ppb
- As	75	-278.2		ppb
- Se	77	5506		ppb
- Se	82	26.5		ppb
> Rh	103	767617.1		ppb
- Cd	111	12.9		ppb
- Cd	114	23.7		ppb
- Sb	121	174.7		ppb
- Sb	123	137.3		ppb
> Ho	165	1248144.8		ppb
- Pb	208	4110.7		ppb
- Kr	83	115.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 1

Sample Date: Wednesday, August 03, 2011 10:03:02

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	113518.4		ppb
- Be	9	754	1.08212	ppb
- Sc	45	347430.3		ppb
- Cr	52	33379.8	0.96517	ppb
- Cr	53	48999	-2.19535	ppb
- Mn	55	41531	1.08532	ppb
- Co	59	19403.4	1.13104	ppb
- Ni	60	4445.8	1.04749	ppb
- As	75	3147.5	1.11982	ppb
- Se	77	5524.3	-1.88402	ppb
- Se	82	345.5	1.06961	ppb
> Rh	103	830495.8		ppb
- Cd	111	4184.4	1.05915	ppb
- Cd	114	9816.3	1.12711	ppb
- Sb	121	14830.8	1.18054	ppb
- Sb	123	11254.6	1.05824	ppb
> Ho	165	1363278.6		ppb
- Pb	208	69971.1	1.1503	ppb
- Kr	83	-169.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2

Sample Date: Wednesday, August 03, 2011 10:05:11

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	106105.5		ppb
- Be	9	66596.4	103.15716	ppb
- Sc	45	327218.4		ppb
- Cr	52	1458786.8	103.60728	ppb
- Cr	53	214511.4	97.60204	ppb
- Mn	55	2235654	101.61581	ppb
- Co	59	1744617.5	108.46461	ppb
- Ni	60	363199.4	102.85743	ppb
- As	75	295601.3	101.64738	ppb
- Se	77	27179.2	99.64028	ppb
- Se	82	28583	102	ppb
> Rh	103	784480.6		ppb
- Cd	111	380385.7	102.26352	ppb
- Cd	114	892808.2	108.79536	ppb
- Sb	121	1320306.8	111.79359	ppb
- Sb	123	1015838.4	101.45968	ppb
> Ho	165	1298245.1		ppb
- Pb	208	5614556.6	103.50565	ppb
- Kr	83	-23644.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 3

Sample Date: Wednesday, August 03, 2011 10:07:21

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	97588.9		ppb
- Be	9	296453.8	499.3684	ppb
- Sc	45	303829		ppb
- Cr	52	6139250.6	474.24065	ppb
- Cr	53	829603.6	500.48598	ppb
- Mn	55	10149905	499.67667	ppb
- Co	59	7439614.3	498.30682	ppb
- Ni	60	1635183.7	499.42842	ppb
- As	75	1349950.9	499.67028	ppb
- Se	77	105636.6	500.07771	ppb
- Se	82	129863.4	499.59986	ppb
> Rh	103	728295.4		ppb
- Cd	111	1724944.7	499.54718	ppb
- Cd	114	3795667.1	498.24067	ppb
- Sb	121	5758580.4	497.64092	ppb
- Sb	123	4411406.2	449.6755	ppb
> Ho	165	1272004.1		ppb
- Pb	208	25193603	474.26165	ppb
- Kr	83	-109660		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 10:09:30

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	96659.8		ppb
- Be	9	19	0.02278	ppb
- Sc	45	295823.2		ppb
- Cr	52	15467.5	-0.07987	ppb
- Cr	53	40534.2	-3.23492	ppb
- Mn	55	15114.6	0.04981	ppb
- Co	59	579.7	0.03094	ppb
- Ni	60	527.7	0.02083	ppb
- As	75	73	0.12499	ppb
- Se	77	4245.7	-4.44473	ppb
- Se	82	39.1	0.05648	ppb
> Rh	103	713870.9		ppb
- Cd	111	97.6	0.02532	ppb
- Cd	114	235.9	0.02867	ppb
- Sb	121	419.3	0.02264	ppb
- Sb	123	295.8	0.01737	ppb
> Ho	165	1213174.5		ppb
- Pb	208	6074.5	0.04107	ppb
- Kr	83	123.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Date: Wednesday, August 03, 2011 10:11:40

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	101012.6		ppb
- Be	9	689.7	1.11245	ppb
- Sc	45	306246.5		ppb
- Cr	52	31183.1	1.03022	ppb
- Cr	53	43437.9	-2.85694	ppb
- Mn	55	38155.6	1.10592	ppb
- Co	59	17965.7	1.15316	ppb
- Ni	60	4091.9	1.06334	ppb
- As	75	3075.6	1.19624	ppb
- Se	77	4694.2	-3.44197	ppb
- Se	82	300.4	1.01925	ppb
> Rh	103	754244.5		ppb
- Cd	111	3976.3	1.10819	ppb
- Cd	114	9380	1.18592	ppb
- Sb	121	13852.9	1.1876	ppb
- Sb	123	10542.1	1.06546	ppb
> Ho	165	1266305.3		ppb
- Pb	208	65262.2	1.15568	ppb
- Kr	83	-124.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 3

Sample Date: Wednesday, August 03, 2011 10:13:49

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	99482.2		ppb
- Be	9	153365.9	253.46246	ppb
- Sc	45	303276.7		ppb
- Cr	52	3098733.1	237.07245	ppb
- Cr	53	431519.9	244.17744	ppb
- Mn	55	5025786.4	245.34188	ppb
- Co	59	3713249.1	246.93517	ppb
- Ni	60	811976.3	246.17312	ppb
- As	75	674252.1	247.84513	ppb
- Se	77	54095.5	241.48365	ppb
- Se	82	64763	247.31298	ppb
> Rh	103	733507.1		ppb
- Cd	111	867734.4	249.50518	ppb
- Cd	114	1900988.2	247.77568	ppb
- Sb	121	2883749.2	252.05651	ppb
- Sb	123	2207476	227.58429	ppb
> Ho	165	1257594.6		ppb
- Pb	208	12713275	242.01756	ppb
- Kr	83	-55264.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 10:16:00

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	100129.6		ppb
- Be	9	63899.2	104.88736	ppb
- Sc	45	307639.6		ppb
- Cr	52	1399955.5	105.52154	ppb
- Cr	53	202813.1	98.01677	ppb
- Mn	55	2136993.8	103.07942	ppb
- Co	59	1660270.1	109.54845	ppb
- Ni	60	341828.4	102.74157	ppb
- As	75	280668.2	102.42479	ppb
- Se	77	25528.1	99.2362	ppb
- Se	82	27530.1	104.26513	ppb
> Rh	103	739347.6		ppb
- Cd	111	367407.1	104.81242	ppb
- Cd	114	852745.8	110.273	ppb
- Sb	121	1292334.3	112.24578	ppb
- Sb	123	986572.9	101.07008	ppb
> Ho	165	1265510.2		ppb
- Pb	208	5559786.1	105.13821	ppb
- Kr	83	-22785.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 5

Sample Date: Wednesday, August 03, 2011 10:18:10

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	100323.1		ppb
- Be	9	30575.7	50.08951	ppb
- Sc	45	302780.8		ppb
- Cr	52	662299.8	49.36665	ppb
- Cr	53	117236.2	44.32842	ppb
- Mn	55	1093670.5	52.54202	ppb
- Co	59	792128.4	52.38743	ppb
- Ni	60	165678.6	49.8421	ppb
- As	75	133971.5	49.05798	ppb
- Se	77	14067.2	43.16911	ppb
- Se	82	12594.7	47.76116	ppb
> Rh	103	737430.5		ppb
- Cd	111	174840.9	50.00148	ppb
- Cd	114	410076.5	53.15839	ppb
- Sb	121	614826.3	53.84659	ppb
- Sb	123	468852.4	48.43439	ppb
> Ho	165	1254782.2		ppb
- Pb	208	2729333.4	52.01294	ppb
- Kr	83	126.4		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 6

Sample Da: Wednesday, August 03, 2011 10:20:19

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	110047.3		ppb
- Be	9	12.3	0.00883	ppb
- Sc	45	372429.2		ppb
- Cr	52	30391.1	0.77872	ppb
- Cr	53	40513.1	-6.77712	ppb
- Mn	55	108044.9	3.99807	ppb
- Co	59	17536.6	1.02946	ppb
- Ni	60	12685.5	3.2816	ppb
- As	75	-131.9	0.05425	ppb
- Se	77	6700.5	3.48091	ppb
- Se	82	-12.3	-0.13849	ppb
> Rh	103	823953.5		ppb
- Cd	111	1738.7	0.44167	ppb
- Cd	114	9368.6	1.08401	ppb
- Sb	121	1914.5	0.12618	ppb
- Sb	123	1484	0.11515	ppb
> Ho	165	1486552.3		ppb
- Pb	208	46655.4	0.67283	ppb
- Kr	83	67		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 7

Sample Da: Wednesday, August 03, 2011 10:22:29

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	92102.3		ppb
- Be	9	1289.1	2.29095	ppb
- Sc	45	306273.4		ppb
- Cr	52	179463.5	13.16458	ppb
- Cr	53	58494.6	9.23594	ppb
- Mn	55	310100.1	15.19717	ppb
- Co	59	347481	24.20681	ppb
- Ni	60	71357.7	22.5396	ppb
- As	75	33758.9	13.09497	ppb
- Se	77	8715.8	19.16197	ppb
- Se	82	3293.5	13.09166	ppb
> Rh	103	699867.1		ppb
- Cd	111	25282.4	7.61696	ppb
- Cd	114	64563.2	8.81687	ppb
- Sb	121	33402.9	2.89784	ppb
- Sb	123	25609.8	2.62032	ppb
> Ho	165	1260393.1		ppb
- Pb	208	149049.2	2.75318	ppb
- Kr	83	-565.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 8

Sample Da: Wednesday, August 03, 2011 10:24:38

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	154540.9		ppb
- Be	9	274.7	0.28248	ppb
- Sc	45	464296.5		ppb
- Cr	52	37001.8	0.53225	ppb
- Cr	53	66138	-2.60297	ppb
- Mn	55	43773.5	0.67125	ppb
- Co	59	7774.7	0.32477	ppb
- Ni	60	17577.3	3.29467	ppb
- As	75	1256.7	0.3953	ppb
- Se	77	8347.5	0.59814	ppb
- Se	82	106.1	0.16469	ppb
> Rh	103	1137470.6		ppb
- Cd	111	1759.7	0.32292	ppb
- Cd	114	3946.3	0.32877	ppb
- Sb	121	6994.7	0.38528	ppb
- Sb	123	5335.1	0.34624	ppb
> Ho	165	1919091		ppb
- Pb	208	65388.2	0.73714	ppb
- Kr	83	-22.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Da Wednesday, August 03, 2011 10:26:49

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	100450		ppb
- Be	9	668.7	1.08553	ppb
- Sc	45	300223.9		ppb
- Cr	52	33058	1.20162	ppb
- Cr	53	50499.9	1.89204	ppb
- Mn	55	36551.3	1.05141	ppb
- Co	59	17714.9	1.15131	ppb
- Ni	60	4080.2	1.07496	ppb
- As	75	3335.8	1.30483	ppb
- Se	77	5975.6	3.07915	ppb
- Se	82	315.2	1.08902	ppb
> Rh	103	744885.6		ppb
- Cd	111	3865.6	1.09102	ppb
- Cd	114	9351.3	1.1972	ppb
- Sb	121	13933	1.19238	ppb
- Sb	123	10570.1	1.06649	ppb
> Ho	165	1268113.4		ppb
- Pb	208	65745.1	1.16274	ppb
- Kr	83	-139.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB FH

Sample Da Wednesday, August 03, 2011 10:28:59

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	118800.3		ppb
- Be	9	9	0.00288	ppb
- Sc	45	361380.2		ppb
- Cr	52	208693.6	12.65103	ppb
- Cr	53	37683.7	-8.86563	ppb
- Mn	55	83490.7	2.84264	ppb
- Co	59	2042.2	0.10938	ppb
- Ni	60	19043.6	4.87838	ppb
- As	75	268.4	0.18323	ppb
- Se	77	804	-22.55536	ppb
- Se	82	42.5	0.04459	ppb
> Rh	103	843692.7		ppb
- Cd	111	299.5	0.07133	ppb
- Cd	114	349.6	0.03666	ppb
- Sb	121	18797.1	1.43634	ppb
- Sb	123	14243.9	1.28357	ppb
> Ho	165	1423320.6		ppb
- Pb	208	90328	1.44111	ppb
- Kr	83	6.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB FH

Sample Da Wednesday, August 03, 2011 10:31:09

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	114887.5		ppb
- Be	9	29571	42.29962	ppb
- Sc	45	353638.9		ppb
- Cr	52	817202.8	52.02327	ppb
- Cr	53	107981	28.46223	ppb
- Mn	55	1357673.8	55.67496	ppb
- Co	59	913726.4	51.54496	ppb
- Ni	60	194678.8	49.95535	ppb
- As	75	132562.1	41.42021	ppb
- Se	77	9138.3	12.31457	ppb
- Se	82	11272.3	36.43759	ppb
> Rh	103	864596.3		ppb
- Cd	111	179665.5	43.8261	ppb
- Cd	114	423283.8	46.80113	ppb
- Sb	121	513361.9	39.89208	ppb
- Sb	123	395057.1	36.20725	ppb
> Ho	165	1414227.6		ppb
- Pb	208	3079918.9	52.07972	ppb
- Kr	83	28.6		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-1 FH

Sample Da Wednesday, August 03, 2011 10:33:18

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	96492.7			ppb
- Be	9	732.7	1.23852		ppb
- Sc	45	457482.7			ppb
- Cr	52	1394052.6	133.00916		ppb
- Cr	53	174101.7	108.5869		ppb
- Mn	55	1875720.6	114.38091		ppb
- Co	59	88709.6	7.37781		ppb
- Ni	60	1084610.9	411.63066		ppb
- As	75	241287.2	111.109		ppb
- Se	77	161955.4	976.63178		ppb
- Se	82	217367.9	1039.549		ppb
> Rh	103	585873.8			ppb
- Cd	111	8161	2.93533		ppb
- Cd	114	13810.3	2.24921		ppb
- Sb	121	606890.1	58.00819		ppb
- Sb	123	467017.5	52.66339		ppb
> Ho	165	1149551.7			ppb
- Pb	208	2041957.6	42.46605		ppb
- Kr	83	-16160			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 FH

Sample Da Wednesday, August 03, 2011 10:39:46

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	102954.1			ppb
- Be	9	1495.1	2.37801		ppb
- Sc	45	727703.1			ppb
- Cr	52	1933147.9	143.48289		ppb
- Cr	53	238122.4	117.29362		ppb
- Mn	55	36229380	1724.5391		ppb
- Co	59	174451.9	11.27729		ppb
- Ni	60	496201.4	146.28918		ppb
- As	75	286084.1	102.30162		ppb
- Se	77	265185.8	1249.9695		ppb
- Se	82	340758.8	1266.4261		ppb
> Rh	103	753477.3			ppb
- Cd	111	24231.4	6.77438		ppb
- Cd	114	16484.7	2.08869		ppb
- Sb	121	161022.7	13.56172		ppb
- Sb	123	122833.4	12.20393		ppb
> Ho	165	1303292.3			ppb
- Pb	208	2181053.8	40.00788		ppb
- Kr	83	-148012.8			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 FH

Sample Da Wednesday, August 03, 2011 10:41:55

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	89964.1			ppb
- Be	9	22853.7	41.74186		ppb
- Sc	45	629114.9			ppb
- Cr	52	2125436.1	183.69007		ppb
- Cr	53	270119.1	164.28744		ppb
- Mn	55	32285497	1787.8129		ppb
- Co	59	761472.2	57.29623		ppb
- Ni	60	551308.7	189.09373		ppb
- As	75	346254.6	144.04276		ppb
- Se	77	240294.7	1318.4897		ppb
- Se	82	307384.7	1328.7916		ppb
> Rh	103	648161.6			ppb
- Cd	111	140943.3	45.8591		ppb
- Cd	114	300120.9	44.26619		ppb
- Sb	121	648380	60.47617		ppb
- Sb	123	492363.4	54.16684		ppb
> Ho	165	1178284.9			ppb
- Pb	208	4280567	86.92657		ppb
- Kr	83	-131922.8			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-4 FH

Sample Date: Wednesday, August 03, 2011 10:44:04

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Mean Report Unit
> Li	6	101260.5		ppb
- Be	9	788.4	1.27036	ppb
- Sc	45	391245.9		ppb
- Cr	52	635842.2	63.22897	ppb
- Cr	53	79477.6	36.89975	ppb
- Mn	55	1712877.7	109.92983	ppb
- Co	59	63537.7	5.56748	ppb
- Ni	60	218220	87.20479	ppb
- As	75	316011.8	153.26378	ppb
- Se	77	108155.1	679.64689	ppb
- Se	82	140616.1	708.73029	ppb
> Rh	103	555932.6		ppb
- Cd	111	4832.6	1.75437	ppb
- Cd	114	7018.3	1.20388	ppb
- Sb	121	78771	7.56684	ppb
- Sb	123	60405.2	6.84714	ppb
> Ho	165	1141829.2		ppb
- Pb	208	1437807.2	30.08314	ppb
- Kr	83	-6829.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-5 FH

Sample Date: Wednesday, August 03, 2011 10:46:14

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Mean Report Unit
> Li	6	92210.2		ppb
- Be	9	1118.7	1.98451	ppb
- Sc	45	1196760.7		ppb
- Cr	52	2942679	211.59482	ppb
- Cr	53	377586.6	195.69887	ppb
- Mn	55	6563401	301.51311	ppb
- Co	59	186085.2	11.62766	ppb
- Ni	60	388497.9	110.67668	ppb
- As	75	144061.6	49.88111	ppb
- Se	77	17863.2	57.08892	ppb
- Se	82	22700.3	81.45637	ppb
> Rh	103	779806.1		ppb
- Cd	111	72465.6	19.59289	ppb
- Cd	114	118666.3	14.5453	ppb
- Sb	121	151216.2	13.70842	ppb
- Sb	123	116014.9	12.4048	ppb
> Ho	165	1211217.8		ppb
- Pb	208	2860628.5	56.50291	ppb
- Kr	83	-331213.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 10:48:25

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Mean Report Unit
> Li	6	97424.4		ppb
- Be	9	5.7	0.00001	ppb
- Sc	45	353088.4		ppb
- Cr	52	14965.3	-0.27343	ppb
- Cr	53	34346.5	-10.1734	ppb
- Mn	55	20297	0.1773	ppb
- Co	59	263.3	0.00693	ppb
- Ni	60	730	0.05409	ppb
- As	75	36.7	0.10974	ppb
- Se	77	4273.3	-7.12467	ppb
- Se	82	74.9	0.15846	ppb
> Rh	103	820486.8		ppb
- Cd	111	47.8	0.0087	ppb
- Cd	114	92.9	0.00784	ppb
- Sb	121	202	0.00089	ppb
- Sb	123	154.3	0.00038	ppb
> Ho	165	1368127.3		ppb
- Pb	208	7177.8	0.04669	ppb
- Kr	83	54.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da: Wednesday, August 03, 2011 10:50:35

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	98719.1			ppb
Be	9	63277.2	105.35184		ppb
Sc	45	362209.9			ppb
Cr	52	1510653.7	99.30421		ppb
Cr	53	219599.5	90.9908		ppb
Mn	55	2455405.1	103.36206		ppb
Co	59	1891954.1	108.93527		ppb
Ni	60	395928	103.84086		ppb
As	75	315522.3	100.47644		ppb
Se	77	28339.8	95.30289		ppb
Se	82	32444.5	107.22447		ppb
Rh	103	847136.8			ppb
Cd	111	419699.6	104.49312		ppb
Cd	114	892364.8	111.98898		ppb
Sb	121	1452446.8	112.6955		ppb
Sb	123	1110399.6	101.62603		ppb
Ho	165	1416569.4			ppb
Pb	208	6019183	101.68455		ppb
Kr	83	-26791.8			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 FH

Sample Da: Wednesday, August 03, 2011 10:57:05

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	109233.6			ppb
Be	9	188.3	0.27374		ppb
Sc	45	471603.6			ppb
Cr	52	1749500.4	102.24231		ppb
Cr	53	220720.2	78.08369		ppb
Mn	55	53332300	2007.8391		ppb
Co	59	147364.8	7.53139		ppb
Ni	60	687290.2	160.26848		ppb
As	75	91443	25.94373		ppb
Se	77	18768.4	45.37235		ppb
Se	82	25626.6	75.22746		ppb
Rh	103	953600.5			ppb
Cd	111	19929.8	4.40533		ppb
Cd	114	37237.6	3.73283		ppb
Sb	121	275174.5	18.90289		ppb
Sb	123	209358.4	16.96342		ppb
Ho	165	1598873.2			ppb
Pb	208	1804237	26.94635		ppb
Kr	83	-7336.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 FH

Sample Da: Wednesday, August 03, 2011 10:59:15

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	103258.7			ppb
Be	9	189	0.29152		ppb
Sc	45	451870.5			ppb
Cr	52	1731784.9	105.38498		ppb
Cr	53	220009.5	82.11516		ppb
Mn	55	54617246	2139.4116		ppb
Co	59	149887.1	7.9671		ppb
Ni	60	702417.7	170.41012		ppb
As	75	91343	26.96821		ppb
Se	77	18985.5	49.15391		ppb
Se	82	25652.5	78.37681		ppb
Rh	103	916177.1			ppb
Cd	111	20302	4.66788		ppb
Cd	114	37190.5	3.87398		ppb
Sb	121	270618.3	19.80268		ppb
Sb	123	206390	17.81469		ppb
Ho	165	1500845.9			ppb
Pb	208	1633418.4	25.99006		ppb
Kr	83	-7297.1			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da: Wednesday, August 03, 2011 11:01:24

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report	Unit
> Li	6	82693.8			ppb
- Be	9	70	0.12956		ppb
- Sc	45	2300081.4			ppb
- Cr	52	232066.1	18.59074		ppb
- Cr	53	37900.4	-2.77875		ppb
- Mn	55	355083.7	18.51826		ppb
- Co	59	11330.2	0.83425		ppb
- Ni	60	44746.1	15.03163		ppb
- As	75	20940.8	8.69679		ppb
- Se	77	4230.7	-2.72895		ppb
- Se	82	4963.4	20.90249		ppb
> Rh	103	655096.9			ppb
- Cd	111	2237.5	0.71758		ppb
- Cd	114	765.5	0.10985		ppb
- Sb	121	211980.3	19.17543		ppb
- Sb	123	162364.3	17.32038		ppb
> Ho	165	1209710.9			ppb
- Pb	208	263152.8	5.13392		ppb
- Kr	83	-3450.2			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da: Wednesday, August 03, 2011 11:03:33

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report	Unit
> Li	6	57190			ppb
- Be	9	14396.4	41.3589		ppb
- Sc	45	1586297.5			ppb
- Cr	52	596225.4	68.69759		ppb
- Cr	53	80399.6	48.20007		ppb
- Mn	55	853596.5	63.05545		ppb
- Co	59	492175.2	49.97211		ppb
- Ni	60	135941.6	62.82021		ppb
- As	75	85678.8	48.17091		ppb
- Se	77	6676.8	24.34191		ppb
- Se	82	8068.5	46.94107		ppb
> Rh	103	480432.5			ppb
- Cd	111	86970.2	38.17025		ppb
- Cd	114	197960.6	39.37727		ppb
- Sb	121	567070.3	63.05821		ppb
- Sb	123	432601	56.73757		ppb
> Ho	165	988031.7			ppb
- Pb	208	2408274.5	58.32346		ppb
- Kr	83	-2245.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-13 FH

Sample Da: Wednesday, August 03, 2011 11:12:10

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report	Unit
> Li	6	54522.3			ppb
- Be	9	71.3	0.20527		ppb
- Sc	45	498500.5			ppb
- Cr	52	3521424.5	362.77958		ppb
- Cr	53	448592.2	352.94046		ppb
- Mn	55	1037881.8	67.59235		ppb
- Co	59	124231.5	11.09725		ppb
- Ni	60	685054.7	279.21964		ppb
- As	75	154537.4	76.45641		ppb
- Se	77	144433.3	934.07053		ppb
- Se	82	194280.2	997.81069		ppb
> Rh	103	545515.2			ppb
- Cd	111	7523.2	2.90445		ppb
- Cd	114	13259.4	2.3205		ppb
- Sb	121	159331.9	15.51102		ppb
- Sb	123	122439.3	14.06103		ppb
> Ho	165	1127933.9			ppb
- Pb	208	3986201.1	84.56007		ppb
- Kr	83	-3636.5			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 11:14:22

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38840.5		ppb
- Be	9	3.3	0.00457	ppb
- Sc	45	159436.3		ppb
- Cr	52	7307.6	-0.39519	ppb
- Cr	53	22582.4	-6.54173	ppb
- Mn	55	6597.4	-0.1895	ppb
- Co	59	76	-0.00054	ppb
- Ni	60	300.3	0.00328	ppb
- As	75	-204.2	-0.02298	ppb
- Se	77	3020.2	-1.91265	ppb
- Se	82	-17.9	-0.20844	ppb
> Rh	103	454664.5		ppb
- Cd	111	17.2	0.00443	ppb
- Cd	114	13.8	-0.00005	ppb
- Sb	121	65.3	-0.00756	ppb
- Sb	123	51.4	-0.00701	ppb
> Ho	165	918464.5		ppb
- Pb	208	3345.6	0.00836	ppb
- Kr	83	135.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 11:16:31

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39644.2		ppb
- Be	9	26859.6	111.34646	ppb
- Sc	45	169583.7		ppb
- Cr	52	726983.4	84.16224	ppb
- Cr	53	111670.4	78.63924	ppb
- Mn	55	1056134.8	78.30976	ppb
- Co	59	953395.7	96.9065	ppb
- Ni	60	205808.1	95.2765	ppb
- As	75	161157.4	90.60911	ppb
- Se	77	14133.6	80.81275	ppb
- Se	82	15433.1	90.02861	ppb
> Rh	103	479874.9		ppb
- Cd	111	227186.8	99.84483	ppb
- Cd	114	526459.8	104.87522	ppb
- Sb	121	818690.6	91.64655	ppb
- Sb	123	623187.7	82.29071	ppb
> Ho	165	981717.4		ppb
- Pb	208	4424281	107.86318	ppb
- Kr	83	-13162.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 FH

Sample Date: Wednesday, August 03, 2011 11:18:43

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	52910		ppb
- Be	9	53.3	0.15591	ppb
- Sc	45	695466.7		ppb
- Cr	52	2852293.4	324.01323	ppb
- Cr	53	366097.4	314.78617	ppb
- Mn	55	2161017.6	156.15495	ppb
- Co	59	56165.4	5.53028	ppb
- Ni	60	496039.8	223.01315	ppb
- As	75	104066.1	56.79495	ppb
- Se	77	77945.7	545.42701	ppb
- Se	82	103064.4	583.69343	ppb
> Rh	103	494559.3		ppb
- Cd	111	12083.5	5.1483	ppb
- Cd	114	24843.6	4.79918	ppb
- Sb	121	56325.7	6.1478	ppb
- Sb	123	42674.6	5.49278	ppb
> Ho	165	1004573.2		ppb
- Pb	208	3022873.2	71.98722	ppb
- Kr	83	-2787.4		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 FH

Sample Da Wednesday, August 03, 2011 11:20:52

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	50575.3		ppb
- Be	9	38.7	0.11634	ppb
- Sc	45	640429.3		ppb
- Cr	52	2695911.9	321.80521	ppb
- Cr	53	346347.5	312.78583	ppb
- Mn	55	2020291.4	153.4078	ppb
- Co	59	53887	5.57552	ppb
- Ni	60	476612.3	225.13683	ppb
- As	75	98946.2	56.74654	ppb
- Se	77	72687.1	534.05944	ppb
- Se	82	97157.9	578.30563	ppb
> Rh	103	470657.4		ppb
- Cd	111	11396.7	5.10312	ppb
- Cd	114	23103.7	4.6899	ppb
- Sb	121	53405.8	6.25139	ppb
- Sb	123	40497	5.59058	ppb
> Ho	165	937011.2		ppb
- Pb	208	2824114.7	72.10792	ppb
- Kr	83	-2626.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 FH

Sample Da Wednesday, August 03, 2011 11:23:02

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	41224.5		ppb
- Be	9	51.3	0.19448	ppb
- Sc	45	252713.6		ppb
- Cr	52	1754479.5	227.62265	ppb
- Cr	53	219062.7	206.1439	ppb
- Mn	55	2922042.3	241.95614	ppb
- Co	59	54349.4	6.12257	ppb
- Ni	60	430194.3	221.23412	ppb
- As	75	124529.9	77.71331	ppb
- Se	77	109561	892.97656	ppb
- Se	82	147152	953.53906	ppb
> Rh	103	432321.9		ppb
- Cd	111	15408.2	7.5136	ppb
- Cd	114	31307.4	6.91971	ppb
- Sb	121	78208.8	10.41329	ppb
- Sb	123	59509.9	9.34479	ppb
> Ho	165	824386.2		ppb
- Pb	208	1145041.6	33.18477	ppb
- Kr	83	-2231.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 FH

Sample Da Wednesday, August 03, 2011 11:25:11

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39536.7		ppb
- Be	9	11091.4	46.09972	ppb
- Sc	45	264557		ppb
- Cr	52	2016855.1	267.01256	ppb
- Cr	53	256373.4	251.69919	ppb
- Mn	55	3210578.3	271.15307	ppb
- Co	59	480855.7	55.30405	ppb
- Ni	60	505069.2	264.85447	ppb
- As	75	181778.3	115.63	ppb
- Se	77	109391.2	909.57053	ppb
- Se	82	146004.9	964.68316	ppb
> Rh	103	424053.3		ppb
- Cd	111	96804	48.14229	ppb
- Cd	114	219660.2	49.5201	ppb
- Sb	121	386313.1	52.96513	ppb
- Sb	123	295191.3	47.73757	ppb
> Ho	165	801728.7		ppb
- Pb	208	2817921.4	84.10751	ppb
- Kr	83	-2137		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-16 FH

Sample Da: Wednesday, August 03, 2011 11:27:20

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	38284.4		ppb
Be	9	152.3	0.64445	ppb
Sc	45	283787.3		ppb
Cr	52	3883898.1	523.9255	ppb
Cr	53	494458.5	521.95992	ppb
Mn	55	2777421.6	238.3423	ppb
Co	59	140129	16.37502	ppb
Ni	60	1052273.6	561.04238	ppb
As	75	259050.5	167.46869	ppb
Se	77	77792.1	650.33424	ppb
Se	82	103873.2	697.64542	ppb
Rh	103	417171.8		ppb
Cd	111	18337.6	9.26779	ppb
Cd	114	38515.7	8.82388	ppb
Sb	121	159310.9	21.08992	ppb
Sb	123	121894.3	19.03269	ppb
Ho	165	829834.8		ppb
Pb	208	2038337.8	58.74588	ppb
Kr	83	-6624.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-18 FH

Sample Da: Wednesday, August 03, 2011 11:31:39

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	46190.1		ppb
Be	9	213.7	0.75079	ppb
Sc	45	416632.4		ppb
Cr	52	1604813.8	176.25235	ppb
Cr	53	196394.1	149.58607	ppb
Mn	55	948694.5	66.08971	ppb
Co	59	65461.2	6.25317	ppb
Ni	60	236819.7	103.19095	ppb
As	75	249453.6	131.94467	ppb
Se	77	103381.6	709.28401	ppb
Se	82	135829.8	746.39322	ppb
Rh	103	509908.6		ppb
Cd	111	16523.5	6.83125	ppb
Cd	114	18785.7	3.51933	ppb
Sb	121	114941.9	13.6344	ppb
Sb	123	87696.6	12.27036	ppb
Ho	165	925752.7		ppb
Pb	208	1579167.9	40.7761	ppb
Kr	83	-98710.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-19 FH

Sample Da: Wednesday, August 03, 2011 11:33:48

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	47569.9		ppb
Be	9	228.3	0.77914	ppb
Sc	45	510652.2		ppb
Cr	52	1710656.6	193.07631	ppb
Cr	53	207632.8	164.9573	ppb
Mn	55	1261284.2	90.53156	ppb
Co	59	50399.3	4.94492	ppb
Ni	60	307006.9	137.49412	ppb
As	75	65494.7	35.65506	ppb
Se	77	13433.9	72.13095	ppb
Se	82	17160.8	96.78234	ppb
Rh	103	496504.8		ppb
Cd	111	9020.1	3.82928	ppb
Cd	114	16157.1	3.10789	ppb
Sb	121	99648.8	10.73763	ppb
Sb	123	73474.8	9.34274	ppb
Ho	165	1018241		ppb
Pb	208	1719092.1	40.35404	ppb
Kr	83	-3911.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 FH

Sample Date: Wednesday, August 03, 2011 11:35:57

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Mean Report Unit
> Li	6	46618.9		ppb
- Be	9	55.7	0.18698	ppb
- Sc	45	549848.5		ppb
- Cr	52	846321.5	98.25767	ppb
- Cr	53	105943.6	73.15318	ppb
- Mn	55	586138.2	43.17681	ppb
- Co	59	21349.4	2.16305	ppb
- Ni	60	193270.5	89.52732	ppb
- As	75	38008.3	21.45767	ppb
- Se	77	10652.6	54.54632	ppb
- Se	82	13505.7	78.8212	ppb
> Rh	103	479545.9		ppb
- Cd	111	6812.7	2.9924	ppb
- Cd	114	12347.4	2.45843	ppb
- Sb	121	145018.5	16.55148	ppb
- Sb	123	111406	14.99561	ppb
> Ho	165	962415.8		ppb
- Pb	208	20292582	504.91436	ppb
- Kr	83	-3121.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 FH

Sample Date: Wednesday, August 03, 2011 11:38:07

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Mean Report Unit
> Li	6	46071.3		ppb
- Be	9	54.7	0.1857	ppb
- Sc	45	519000.1		ppb
- Cr	52	804061.1	96.92963	ppb
- Cr	53	100974.5	72.09675	ppb
- Mn	55	555969.6	42.51851	ppb
- Co	59	20267.2	2.13228	ppb
- Ni	60	165002	79.35795	ppb
- As	75	37576.4	22.02985	ppb
- Se	77	10449.7	56.04997	ppb
- Se	82	13179.3	79.8826	ppb
> Rh	103	461776.3		ppb
- Cd	111	6726.3	3.06874	ppb
- Cd	114	11783	2.4365	ppb
- Sb	121	141400.5	16.85296	ppb
- Sb	123	108112.6	15.19899	ppb
> Ho	165	921507		ppb
- Pb	208	19542628	507.78374	ppb
- Kr	83	-3038.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 11:40:18

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Mean Report Unit
> Li	6	35082.6		ppb
- Be	9	4.3	0.01076	ppb
- Sc	45	126981.8		ppb
- Cr	52	7344	-0.26572	ppb
- Cr	53	24108.3	-1.5878	ppb
- Mn	55	5829.9	-0.18679	ppb
- Co	59	70	-0.00016	ppb
- Ni	60	302.3	0.02456	ppb
- As	75	108.9	0.17098	ppb
- Se	77	3081.5	1.94709	ppb
- Se	82	3	-0.07622	ppb
> Rh	103	399740		ppb
- Cd	111	20.1	0.00705	ppb
- Cd	114	19.1	0.00163	ppb
- Sb	121	89.3	-0.00259	ppb
- Sb	123	54.4	-0.00509	ppb
> Ho	165	766762.4		ppb
- Pb	208	4669.8	0.06679	ppb
- Kr	83	107.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 11:42:28

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	36250.1		ppb
- Be	9	22607.4	102.49659	ppb
- Sc	45	133319.1		ppb
- Cr	52	600744.7	81.11846	ppb
- Cr	53	98667.7	82.03141	ppb
- Mn	55	865659.6	74.88041	ppb
- Co	59	800457.1	94.94952	ppb
- Ni	60	177018.9	95.64111	ppb
- As	75	140306.9	92.0489	ppb
- Se	77	12578.4	84.93866	ppb
- Se	82	12848.2	87.47535	ppb
> Rh	103	411388.7		ppb
- Cd	111	189198	97.02164	ppb
- Cd	114	440664.6	102.43332	ppb
- Sb	121	885679.6	95.0127	ppb
- Sb	123	524149.6	85.67144	ppb
> Ho	165	793173.6		ppb
- Pb	208	3697584.2	111.56544	ppb
- Kr	83	-11483.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 FH

Sample Da Wednesday, August 03, 2011 11:44:39

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	37288.9		ppb
- Be	9	41.7	0.17436	ppb
- Sc	45	216646.5		ppb
- Cr	52	1106879.9	147.7313	ppb
- Cr	53	140836.5	126.77516	ppb
- Mn	55	554014.5	46.76704	ppb
- Co	59	23942.8	2.77857	ppb
- Ni	60	226104.2	119.92958	ppb
- As	75	30796.4	19.90923	ppb
- Se	77	10114.6	61.54559	ppb
- Se	82	13035.4	87.08423	ppb
> Rh	103	419022.1		ppb
- Cd	111	4270.6	2.14616	ppb
- Cd	114	5734.4	1.30548	ppb
- Sb	121	715261.4	91.90265	ppb
- Sb	123	547335.5	82.95116	ppb
> Ho	165	855517.2		ppb
- Pb	208	1105944.7	30.87835	ppb
- Kr	83	-2785.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 FH

Sample Da Wednesday, August 03, 2011 11:46:48

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	39624.9		ppb
- Be	9	11278.3	46.78228	ppb
- Sc	45	219913.8		ppb
- Cr	52	1474303.8	187.76563	ppb
- Cr	53	182074.9	162.95871	ppb
- Mn	55	1089852	88.24184	ppb
- Co	59	494509.4	54.82351	ppb
- Ni	60	326223.9	164.83888	ppb
- As	75	97635.2	59.91161	ppb
- Se	77	14387	92.5976	ppb
- Se	82	18435.8	117.3393	ppb
> Rh	103	439927.9		ppb
- Cd	111	99347.9	47.62238	ppb
- Cd	114	225321.5	48.9594	ppb
- Sb	121	1072790.6	131.91909	ppb
- Sb	123	823175.6	119.41237	ppb
> Ho	165	893768.3		ppb
- Pb	208	3168184.2	84.81795	ppb
- Kr	83	-2790.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-25 FH

Sample Da Wednesday, August 03, 2011 11:55:25

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	38183.1		ppb
- Be	9	152.7	0.64776	ppb
- Sc	45	367607.5		ppb
- Cr	52	1183456.5	159.69541	ppb
- Cr	53	146499.9	134.69042	ppb
- Mn	55	3747590	323.72007	ppb
- Co	59	103005.7	12.10347	ppb
- Ni	60	1611497.9	864.30923	ppb
- As	75	68085.3	44.36397	ppb
- Se	77	48998.7	402.45176	ppb
- Se	82	65262.9	440.90928	ppb
> Rh	103	414762.1		ppb
- Cd	111	19695.7	10.01326	ppb
- Cd	114	41302.5	9.51869	ppb
- Sb	121	113882.4	14.9678	ppb
- Sb	123	87163.4	13.51312	ppb
> Ho	165	835457.7		ppb
- Pb	208	1558062	44.58297	ppb
- Kr	83	-5534.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 FH

Sample Da Wednesday, August 03, 2011 11:57:35

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	40793.2		ppb
- Be	9	78	0.30475	ppb
- Sc	45	521757.2		ppb
- Cr	52	2229249.7	320.2248	ppb
- Cr	53	285263.3	309.75225	ppb
- Mn	55	2783328.4	254.79076	ppb
- Co	59	766519.4	95.58124	ppb
- Ni	60	4655157	2647.7101	ppb
- As	75	48546.1	33.5466	ppb
- Se	77	32022.6	270.90268	ppb
- Se	82	42419.6	303.79756	ppb
> Rh	103	391139		ppb
- Cd	111	6848.8	3.68947	ppb
- Cd	114	12572.7	3.0699	ppb
- Sb	121	415349.1	58.78272	ppb
- Sb	123	317644.5	53.0257	ppb
> Ho	165	776535.9		ppb
- Pb	208	924460.7	28.43203	ppb
- Kr	83	-4385.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 FH

Sample Da Wednesday, August 03, 2011 11:59:44

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	46779.7		ppb
- Be	9	81.7	0.27781	ppb
- Sc	45	504397.5		ppb
- Cr	52	2169301.9	281.71475	ppb
- Cr	53	278458.1	270.02219	ppb
- Mn	55	2700883.6	223.56431	ppb
- Co	59	750124.4	84.6071	ppb
- Ni	60	4553483.6	2342.7822	ppb
- As	75	46543.1	29.10772	ppb
- Se	77	31490.4	238.10789	ppb
- Se	82	41068.7	266.04652	ppb
> Rh	103	432407.5		ppb
- Cd	111	6679	3.25412	ppb
- Cd	114	12407.7	2.74029	ppb
- Sb	121	406562.7	52.75684	ppb
- Sb	123	310473.2	47.52145	ppb
> Ho	165	846867.5		ppb
- Pb	208	891493.3	25.13113	ppb
- Kr	83	-4309.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 FH

Sample Da: Wednesday, August 03, 2011 12:01:54

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	42890.2		ppb
- Be	9	45	0.16368	ppb
- Sc	45	257116.6		ppb
- Cr	52	434407.2	55.42242	ppb
- Cr	53	58141.6	30.79653	ppb
- Mn	55	511615.1	41.80188	ppb
- Co	59	37717.4	4.24915	ppb
- Ni	60	276603.1	142.25524	ppb
- As	75	45976.6	28.77748	ppb
- Se	77	30037.5	226.05553	ppb
- Se	82	40643.2	263.47536	ppb
> Rh	103	432215.2		ppb
- Cd	111	3601.5	1.7537	ppb
- Cd	114	5244	1.15684	ppb
- Sb	121	19238.3	2.46495	ppb
- Sb	123	14792.4	2.23531	ppb
> Ho	165	852610.1		ppb
- Pb	208	326551.3	9.09367	ppb
- Kr	83	-3918.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 FH

Sample Da: Wednesday, August 03, 2011 12:04:03

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	40999.7		ppb
- Be	9	10630.5	42.62372	ppb
- Sc	45	249122.4		ppb
- Cr	52	734845	96.38497	ppb
- Cr	53	92171.3	71.41992	ppb
- Mn	55	935478.5	78.4333	ppb
- Co	59	439814	50.53897	ppb
- Ni	60	356679	186.83242	ppb
- As	75	107358.2	68.27064	ppb
- Se	77	34293.2	267.02811	ppb
- Se	82	45257	298.69355	ppb
> Rh	103	424408.7		ppb
- Cd	111	87142.7	43.3022	ppb
- Cd	114	198850	44.78616	ppb
- Sb	121	349619.7	46.55006	ppb
- Sb	123	267353.4	41.98567	ppb
> Ho	165	825403.6		ppb
- Pb	208	2055126.9	59.55186	ppb
- Kr	83	-3868.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da: Wednesday, August 03, 2011 12:06:14

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	34927.7		ppb
- Be	9	4.7	0.0123	ppb
- Sc	45	114575.6		ppb
- Cr	52	6930	-0.25929	ppb
- Cr	53	22603.8	-1.59319	ppb
- Mn	55	5791.9	-0.15574	ppb
- Co	59	198.3	0.01707	ppb
- Ni	60	872.7	0.3736	ppb
- As	75	-203.9	-0.04918	ppb
- Se	77	2898.8	2.03638	ppb
- Se	82	20.4	0.05518	ppb
> Rh	103	374816.4		ppb
- Cd	111	32.1	0.01446	ppb
- Cd	114	66.5	0.014	ppb
- Sb	121	180.3	0.01278	ppb
- Sb	123	128.7	0.00947	ppb
> Ho	165	699865.5		ppb
- Pb	208	2915.2	0.02075	ppb
- Kr	83	94.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 12:08:24

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36521.4		ppb
- Be	9	21577.6	97.11775	ppb
- Sc	45	122564.4		ppb
- Cr	52	546977.4	78.28351	ppb
- Cr	53	90105	78.482	ppb
- Mn	55	773274.3	70.89117	ppb
- Co	59	740311.8	93.12417	ppb
- Ni	60	165578.6	94.85846	ppb
- As	75	131707.7	91.62977	ppb
- Se	77	11747.6	83.85111	ppb
- Se	82	11662.2	84.18154	ppb
> Rh	103	387805.2		ppb
- Cd	111	178848.7	97.27301	ppb
- Cd	114	418453.4	103.15782	ppb
- Sb	121	639787.4	95.56515	ppb
- Sb	123	483990.9	85.26749	ppb
> Ho	165	736034.8		ppb
- Pb	208	3401253.1	110.59926	ppb
- Kr	83	-10773.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Date: Wednesday, August 03, 2011 12:19:13

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	50633.4		ppb
- Be	9	7.3	0.01426	ppb
- Sc	45	162748.7		ppb
- Cr	52	44563.1	3.77153	ppb
- Cr	53	9997.6	-20.27333	ppb
- Mn	55	52530.4	3.09632	ppb
- Co	59	1052.4	0.09484	ppb
- Ni	60	6396.9	2.72868	ppb
- As	75	265.3	0.24198	ppb
- Se	77	361.3	-23.36991	ppb
- Se	82	49.4	0.18231	ppb
> Rh	103	495490.9		ppb
- Cd	111	245.9	0.10109	ppb
- Cd	114	417.6	0.07759	ppb
- Sb	121	540036.4	65.30195	ppb
- Sb	123	411100.3	58.63641	ppb
> Ho	165	908869.9		ppb
- Pb	208	72104.8	1.82116	ppb
- Kr	83	74.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Date: Wednesday, August 03, 2011 12:21:23

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	51544.8		ppb
- Be	9	10765.7	34.3287	ppb
- Sc	45	164592.8		ppb
- Cr	52	368209.9	40.61329	ppb
- Cr	53	47853.7	15.27723	ppb
- Mn	55	543183.6	38.64596	ppb
- Co	59	454907.3	44.78531	ppb
- Ni	60	104466.1	46.75614	ppb
- As	75	58187.1	31.73896	ppb
- Se	77	3847.1	2.13991	ppb
- Se	82	4626	26.0596	ppb
> Rh	103	495574.4		ppb
- Cd	111	86570.2	36.83918	ppb
- Cd	114	200425.1	38.65965	ppb
- Sb	121	329910.9	39.37669	ppb
- Sb	123	251648	35.42849	ppb
> Ho	165	920632.7		ppb
- Pb	208	1914297.3	49.71777	ppb
- Kr	83	64.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-1 BH

Sample Da Wednesday, August 03, 2011 12:23:32

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	38429.2			ppb
Be	9	21.3	0.0818		ppb
Sc	45	92749.1			ppb
Cr	52	90836	24.44586		ppb
Cr	53	18469.8	13.63993		ppb
Mn	55	163829.2	28.83793		ppb
Co	59	31458.7	7.70026		ppb
Ni	60	23321.3	25.89595		ppb
As	75	59449.8	80.5309		ppb
Se	77	29726.2	515.55344		ppb
Se	82	46942.3	680.73503		ppb
Rh	103	199087.6			ppb
Cd	111	617	0.65167		ppb
Cd	114	786.5	0.36735		ppb
Sb	121	6475.6	2.74012		ppb
Sb	123	4855.5	2.42221		ppb
Ho	165	258309.6			ppb
Pb	208	117873.4	10.84887		ppb
Kr	83	2415.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 BH

Sample Da Wednesday, August 03, 2011 12:25:41

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	44642.6			ppb
Be	9	25	0.08294		ppb
Sc	45	107950.6			ppb
Cr	52	306260.2	72.93532		ppb
Cr	53	41253.1	52.85939		ppb
Mn	55	385891.9	58.81993		ppb
Co	59	18646.1	3.90018		ppb
Ni	60	49202.9	46.88127		ppb
As	75	53094.5	61.55378		ppb
Se	77	36544.7	543.62615		ppb
Se	82	54116.6	651.54079		ppb
Rh	103	232727.5			ppb
Cd	111	623.1	0.56174		ppb
Cd	114	557.9	0.22333		ppb
Sb	121	6857.3	2.4462		ppb
Sb	123	5178	2.17852		ppb
Ho	165	306196.8			ppb
Pb	208	107303.4	8.31336		ppb
Kr	83	1301.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 BH

Sample Da Wednesday, August 03, 2011 12:27:51

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	39933.7			ppb
Be	9	27.3	0.10278		ppb
Sc	45	95416.5			ppb
Cr	52	307354.2	83.28691		ppb
Cr	53	40494	62.26818		ppb
Mn	55	388606.1	67.36008		ppb
Co	59	18847.5	4.4761		ppb
Ni	60	48404.7	52.38264		ppb
As	75	55368.2	72.87358		ppb
Se	77	36623.3	622.03369		ppb
Se	82	54901.2	750.43104		ppb
Rh	103	204962.3			ppb
Cd	111	595.8	0.60932		ppb
Cd	114	729.6	0.33695		ppb
Sb	121	6778.5	2.73317		ppb
Sb	123	5104.6	2.42729		ppb
Ho	165	271074.9			ppb
Pb	208	107656.2	9.43229		ppb
Kr	83	1048.8			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da Wednesday, August 03, 2011 12:30:00

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	40050.2		ppb
- Be	9	27.7	0.10393	ppb
- Sc	45	88933.9		ppb
- Cr	52	122849.9	31.6106	ppb
- Cr	53	18526.9	11.29335	ppb
- Mn	55	257182.1	43.13829	ppb
- Co	59	5265.5	1.211	ppb
- Ni	60	21114.2	22.15022	ppb
- As	75	70416.1	90.16991	ppb
- Se	77	40273	667.6262	ppb
- Se	82	62733.5	834.58629	ppb
> Rh	103	210588.6		ppb
- Cd	111	651.6	0.6483	ppb
- Cd	114	549.7	0.24842	ppb
- Sb	121	7240.9	2.91298	ppb
- Sb	123	5499	2.60876	ppb
> Ho	165	271810.6		ppb
- Pb	208	52003.9	4.50268	ppb
- Kr	83	1078.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da Wednesday, August 03, 2011 12:32:10

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39833.2		ppb
- Be	9	11132.2	45.92264	ppb
- Sc	45	87900		ppb
- Cr	52	289295.4	77.56748	ppb
- Cr	53	37767	55.30216	ppb
- Mn	55	494291.2	85.05233	ppb
- Co	59	222851.5	52.52156	ppb
- Ni	60	71735.6	76.97042	ppb
- As	75	167950.6	218.82919	ppb
- Se	77	48068.5	781.56355	ppb
- Se	82	70598.5	956.05226	ppb
> Rh	103	206926		ppb
- Cd	111	26267.7	26.78172	ppb
- Cd	114	59160.2	27.33957	ppb
- Sb	121	162781.7	66.40257	ppb
- Sb	123	123216.9	59.28498	ppb
> Ho	165	269416.4		ppb
- Pb	208	487795.3	43.28093	ppb
- Kr	83	842.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 12:34:22

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36043.3		ppb
- Be	9	7	0.02232	ppb
- Sc	45	88025.7		ppb
- Cr	52	4911	-0.4216	ppb
- Cr	53	13778.1	-9.27454	ppb
- Mn	55	4164	-0.23539	ppb
- Co	59	90	0.00524	ppb
- Ni	60	256.3	0.03736	ppb
- As	75	133.2	0.2099	ppb
- Se	77	2615	4.13653	ppb
- Se	82	-139.7	-1.34161	ppb
> Rh	103	314735		ppb
- Cd	111	43.7	0.0258	ppb
- Cd	114	37.9	0.00853	ppb
- Sb	121	90.7	0.00435	ppb
- Sb	123	51.5	-0.00103	ppb
> Ho	165	505158		ppb
- Pb	208	1909.1	0.01166	ppb
- Kr	83	259.7		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da: Wednesday, August 03, 2011 12:36:31

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report Unit
Li	6	37338.3		ppb
Be	9	21068.7	92.74951	ppb
Sc	45	90692.2		ppb
Cr	52	417421.1	73.44851	ppb
Cr	53	64165	65.13346	ppb
Mn	55	591662.3	66.72138	ppb
Co	59	575226.7	89.06385	ppb
Ni	60	129278.1	91.15769	ppb
As	75	102193.2	87.51616	ppb
Se	77	9450.9	82.78027	ppb
Se	82	9223.5	81.95181	ppb
Rh	103	315047.5		ppb
Cd	111	141626.1	94.81065	ppb
Cd	114	325054.9	98.63837	ppb
Sb	121	494422.3	107.48165	ppb
Sb	123	377307.3	96.75079	ppb
Ho	165	505620.5		ppb
Pb	208	2173824.3	102.88759	ppb
Kr	83	-8698.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-4 BH

Sample Da: Wednesday, August 03, 2011 12:38:43

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report Unit
Li	6	43183.6		ppb
Be	9	13.3	0.0417	ppb
Sc	45	96799.7		ppb
Cr	52	67623.2	14.8387	ppb
Cr	53	11405.8	-7.16418	ppb
Mn	55	137990.2	20.25073	ppb
Co	59	9954.5	2.04461	ppb
Ni	60	26829.3	25.1057	ppb
As	75	94714.1	108.01667	ppb
Se	77	114943.8	1738.1229	ppb
Se	82	158894.1	1884.2431	ppb
Rh	103	236298.9		ppb
Cd	111	2181.3	1.94469	ppb
Cd	114	4145.5	1.67447	ppb
Sb	121	44911.4	15.91574	ppb
Sb	123	33944.8	14.18714	ppb
Ho	165	309878.5		ppb
Pb	208	77966.5	5.9469	ppb
Kr	83	1129.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-5 BH

Sample Da: Wednesday, August 03, 2011 12:40:52

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report Unit
Li	6	45756.4		ppb
Be	9	114.7	0.40171	ppb
Sc	45	127608.1		ppb
Cr	52	328869.5	60.76566	ppb
Cr	53	40822.2	33.8902	ppb
Mn	55	5253911.8	630.43727	ppb
Co	59	47040.1	7.66811	ppb
Ni	60	154130	114.57783	ppb
As	75	78381.4	70.76122	ppb
Se	77	32206.6	364.75148	ppb
Se	82	45601.5	427.40499	ppb
Rh	103	298887.8		ppb
Cd	111	1922.8	1.35331	ppb
Cd	114	3610.6	1.15181	ppb
Sb	121	10352.2	2.48162	ppb
Sb	123	7981.2	2.25633	ppb
Ho	165	455913.1		ppb
Pb	208	284542.8	14.86536	ppb
Kr	83	-279.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-7 BH

Sample Da Wednesday, August 03, 2011 12:45:11

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36609.8		ppb
- Be	9	12.7	0.04699	ppb
- Sc	45	90376.1		ppb
- Cr	52	126470.7	32.37555	ppb
- Cr	53	17066.4	7.83766	ppb
- Mn	55	100114.2	16.2582	ppb
- Co	59	5806.5	1.32736	ppb
- Ni	60	26713.2	27.9109	ppb
- As	75	35690.6	45.4865	ppb
- Se	77	16901.7	263.38946	ppb
- Se	82	29346.7	388.04287	ppb
> Rh	103	211831.3		ppb
- Cd	111	801.8	0.59558	ppb
- Cd	114	381	0.16759	ppb
- Sb	121	4427.1	1.68425	ppb
- Sb	123	3363.7	1.5091	ppb
> Ho	165	266276.2		ppb
- Pb	208	65090.2	5.36756	ppb
- Kr	83	846.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Da Wednesday, August 03, 2011 12:47:20

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35671.5		ppb
- Be	9	14	0.05505	ppb
- Sc	45	85022.7		ppb
- Cr	52	70305.2	17.98843	ppb
- Cr	53	10436.7	-6.03562	ppb
- Mn	55	149931.9	25.46191	ppb
- Co	59	4941.7	1.16298	ppb
- Ni	60	15466.2	16.58165	ppb
- As	75	49374.7	64.78356	ppb
- Se	77	29024.3	485.90142	ppb
- Se	82	46264.8	630.21291	ppb
> Rh	103	205653.5		ppb
- Cd	111	1978.2	2.0262	ppb
- Cd	114	4147.9	1.92517	ppb
- Sb	121	9114.6	3.71427	ppb
- Sb	123	6841.7	3.28867	ppb
> Ho	165	268616.8		ppb
- Pb	208	82158.9	7.24883	ppb
- Kr	83	1021.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Da Wednesday, August 03, 2011 12:49:30

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35899		ppb
- Be	9	13.3	0.05258	ppb
- Sc	45	83750.6		ppb
- Cr	52	70614.9	18.20629	ppb
- Cr	53	10434.7	-5.86783	ppb
- Mn	55	150854	25.82191	ppb
- Co	59	5797.2	1.37986	ppb
- Ni	60	14946.3	16.13612	ppb
- As	75	49459.3	65.3781	ppb
- Se	77	29091.2	490.73905	ppb
- Se	82	46266	634.87918	ppb
> Rh	103	204174.3		ppb
- Cd	111	1903.5	1.96354	ppb
- Cd	114	3730.3	1.74458	ppb
- Sb	121	9088.9	3.71684	ppb
- Sb	123	6878.2	3.31836	ppb
> Ho	165	267656.1		ppb
- Pb	208	81322.6	7.19793	ppb
- Kr	83	971.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Da Wednesday, August 03, 2011 12:51:39

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	32052		ppb
- Be	9	13.7	0.06052	ppb
- Sc	45	75288		ppb
- Cr	52	74109.6	21.11858	ppb
- Cr	53	10810.1	-2.67341	ppb
- Mn	55	91623.6	16.92661	ppb
- Co	59	4470.5	1.16798	ppb
- Ni	60	15355	18.17598	ppb
- As	75	58613.9	84.79218	ppb
- Se	77	35996.2	673.97629	ppb
- Se	82	56471.8	848.43553	ppb
> Rh	103	186482.7		ppb
- Cd	111	335.4	0.37586	ppb
- Cd	114	119.3	0.05691	ppb
- Sb	121	5341.9	2.36259	ppb
- Sb	123	3931.1	2.04948	ppb
> Ho	165	246942.6		ppb
- Pb	208	94497.8	9.08602	ppb
- Kr	83	699.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Da Wednesday, August 03, 2011 12:53:49

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33283.8		ppb
- Be	9	9983.5	49.28147	ppb
- Sc	45	76938.8		ppb
- Cr	52	221700.5	64.3131	ppb
- Cr	53	28472.9	39.86299	ppb
- Mn	55	305375.3	56.80628	ppb
- Co	59	200684.4	51.3424	ppb
- Ni	60	61158.5	71.23236	ppb
- As	75	150798.3	213.279	ppb
- Se	77	41461.7	762.9728	ppb
- Se	82	63429	932.21129	ppb
> Rh	103	190603.9		ppb
- Cd	111	25593.9	28.32615	ppb
- Cd	114	59021	29.60443	ppb
- Sb	121	155177.8	67.06077	ppb
- Sb	123	117494.8	59.89342	ppb
> Ho	165	254281.9		ppb
- Pb	208	511459.1	48.09362	ppb
- Kr	83	637.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-10 BH

Sample Da Wednesday, August 03, 2011 12:55:58

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38205.8		ppb
- Be	9	11.3	0.04	ppb
- Sc	45	92913.3		ppb
- Cr	52	53747.4	11.38835	ppb
- Cr	53	7852.7	-14.36156	ppb
- Mn	55	114990	16.56796	ppb
- Co	59	5966.6	1.20959	ppb
- Ni	60	30751.6	28.48779	ppb
- As	75	33654.1	38.04231	ppb
- Se	77	16702.3	227.4571	ppb
- Se	82	27205.8	318.90896	ppb
> Rh	103	238943.2		ppb
- Cd	111	5850.9	5.16222	ppb
- Cd	114	13400.5	5.35909	ppb
- Sb	121	18332.5	6.42367	ppb
- Sb	123	13875.1	5.73443	ppb
> Ho	165	312971.5		ppb
- Pb	208	92166.7	6.97506	ppb
- Kr	83	528.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-11 BH

Sample Da Wednesday, August 03, 2011 12:58:07

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	42408.5		ppb
- Be	9	9.3	0.02642	ppb
- Sc	45	103814.4		ppb
- Cr	52	85032.6	17.66024	ppb
- Cr	53	11295	-8.89603	ppb
- Mn	55	248524.7	34.2405	ppb
- Co	59	6469.6	1.2371	ppb
- Ni	60	44082	38.58563	ppb
- As	75	54723.4	58.34466	ppb
- Se	77	56314.6	780.65851	ppb
- Se	82	80837.8	894.53098	ppb
> Rh	103	253221.8		ppb
- Cd	111	5034.2	4.19157	ppb
- Cd	114	11053.9	4.171	ppb
- Sb	121	26883.7	8.92759	ppb
- Sb	123	20472.8	8.01873	ppb
> Ho	165	330422.7		ppb
- Pb	208	79746.8	5.70114	ppb
- Kr	83	595.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 13:00:19

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	34628.9		ppb
- Be	9	4.7	0.01243	ppb
- Sc	45	95986.1		ppb
- Cr	52	5551.7	-0.32644	ppb
- Cr	53	11547.7	-12.917	ppb
- Mn	55	4436.8	-0.21391	ppb
- Co	59	96	0.00588	ppb
- Ni	60	381.3	0.12085	ppb
- As	75	28.6	0.12185	ppb
- Se	77	2484.3	2.05986	ppb
- Se	82	-105	-1.01375	ppb
> Rh	103	320960.9		ppb
- Cd	111	37.3	0.02099	ppb
- Cd	114	49.2	0.01172	ppb
- Sb	121	76.7	0.00128	ppb
- Sb	123	46.5	-0.00232	ppb
> Ho	165	508118.5		ppb
- Pb	208	1883.1	0.00997	ppb
- Kr	83	225.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 13:02:28

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35711.9		ppb
- Be	9	20003	92.06102	ppb
- Sc	45	100626.9		ppb
- Cr	52	456645.6	77.15181	ppb
- Cr	53	66682.7	64.84364	ppb
- Mn	55	637734.3	69.02506	ppb
- Co	59	621926.8	92.37838	ppb
- Ni	60	138595.1	93.74513	ppb
- As	75	110720.9	90.95702	ppb
- Se	77	9770.2	81.90154	ppb
- Se	82	9660.2	82.33583	ppb
> Rh	103	328393.4		ppb
- Cd	111	144122.4	92.56271	ppb
- Cd	114	340046.7	98.99656	ppb
- Sb	121	513567.9	107.07167	ppb
- Sb	123	394703.3	97.06546	ppb
> Ho	165	527176		ppb
- Pb	208	2280677.8	103.52813	ppb
- Kr	83	-8930.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-12 BH

Sample Date: Wednesday, August 03, 2011 13:04:40

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	34468.5			ppb
Be	9	11.7	0.04612		ppb
Sc	45	84042.1			ppb
Cr	52	42941.2	10.00712		ppb
Cr	53	7177.8	-14.06837		ppb
Mn	55	94941.9	15.20531		ppb
Co	59	3894.5	0.87828		ppb
Ni	60	16430.5	16.92401		ppb
As	75	53892.9	67.90231		ppb
Se	77	40857.6	665.78431		ppb
Se	82	60844.9	795.9019		ppb
Rh	103	214188.9			ppb
Cd	111	1053.6	1.03383		ppb
Cd	114	2247.4	1.0003		ppb
Sb	121	13095.4	5.10293		ppb
Sb	123	9816.3	4.51125		ppb
Ho	165	281254.5			ppb
Pb	208	50313.1	4.20525		ppb
Kr	83	650.2			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-13 BH

Sample Date: Wednesday, August 03, 2011 13:06:50

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	37994.6			ppb
Be	9	44.7	0.18271		ppb
Sc	45	88412.9			ppb
Cr	52	150252	38.63913		ppb
Cr	53	19356.9	12.78961		ppb
Mn	55	181731.4	30.03354		ppb
Co	59	5011	1.14303		ppb
Ni	60	19557.7	20.35771		ppb
As	75	60279.5	76.64016		ppb
Se	77	37666.2	617.69591		ppb
Se	82	56021.8	739.57861		ppb
Rh	103	212224.4			ppb
Cd	111	983.9	0.97475		ppb
Cd	114	730.4	0.32628		ppb
Sb	121	28304.7	10.7545		ppb
Sb	123	21488.1	9.63043		ppb
Ho	165	288876.6			ppb
Pb	208	139115	11.45575		ppb
Kr	83	-1103.8			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Date: Wednesday, August 03, 2011 13:08:59

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	39626.6			ppb
Be	9	44	0.17297		ppb
Sc	45	87184.4			ppb
Cr	52	158743	42.37579		ppb
Cr	53	20044.4	15.8473		ppb
Mn	55	164718.8	28.13256		ppb
Co	59	9646.1	2.28578		ppb
Ni	60	15652.1	16.84104		ppb
As	75	109680	144.29317		ppb
Se	77	113324.8	1978.9573		ppb
Se	82	158431.2	2165.3631		ppb
Rh	103	205039.4			ppb
Cd	111	1601.7	1.64519		ppb
Cd	114	621.1	0.26474		ppb
Sb	121	15798.7	6.23396		ppb
Sb	123	11794.1	5.48883		ppb
Ho	165	277877.5			ppb
Pb	208	73248	6.23412		ppb
Kr	83	-1115.8			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Da Wednesday, August 03, 2011 13:11:08

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	39609.6			ppb
Be	9	37.7	0.14637		ppb
Sc	45	88191.7			ppb
Cr	52	159547	42.88161		ppb
Cr	53	20378.8	16.90382		ppb
Mn	55	167579.5	28.82089		ppb
Co	59	9782.3	2.33338		ppb
Ni	60	15911.6	17.23355		ppb
As	75	113492	150.25126		ppb
Se	77	114145.4	2006.2778		ppb
Se	82	161205.8	2217.4664		ppb
Rh	103	203704.4			ppb
Cd	111	1507.7	1.55868		ppb
Cd	114	830	0.38637		ppb
Sb	121	15989.1	6.43736		ppb
Sb	123	12045	5.72033		ppb
Ho	165	272353.3			ppb
Pb	208	71314.2	6.19274		ppb
Kr	83	-1187.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da Wednesday, August 03, 2011 13:13:18

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	36827.2			ppb
Be	9	41	0.17338		ppb
Sc	45	77264.4			ppb
Cr	52	147851.5	41.6347		ppb
Cr	53	18924	15.67086		ppb
Mn	55	179977.9	32.55505		ppb
Co	59	4708.9	1.17327		ppb
Ni	60	16220.5	18.42996		ppb
As	75	84667.4	117.53039		ppb
Se	77	53187.5	966.90595		ppb
Se	82	82384.5	1188.2195		ppb
Rh	103	194289.5			ppb
Cd	111	657.5	0.71147		ppb
Cd	114	645.4	0.3128		ppb
Sb	121	7257.2	3.09188		ppb
Sb	123	5390.9	2.70822		ppb
Ho	165	256721.1			ppb
Pb	208	17594.3	1.56246		ppb
Kr	83	-923.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da Wednesday, August 03, 2011 13:15:26

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	33527.8			ppb
Be	9	11993.6	58.79383		ppb
Sc	45	72663.8			ppb
Cr	52	292789.2	92.12074		ppb
Cr	53	36652.4	66.82074		ppb
Mn	55	390473.5	78.58992		ppb
Co	59	202286.7	55.80818		ppb
Ni	60	62433.7	78.4306		ppb
As	75	178368.9	271.92106		ppb
Se	77	58222.6	1168.4022		ppb
Se	82	88929	1409.0647		ppb
Rh	103	176822.1			ppb
Cd	111	26776.1	31.9425		ppb
Cd	114	61038.7	33.00233		ppb
Sb	121	165459.8	77.90006		ppb
Sb	123	125147.7	69.50646		ppb
Ho	165	233386			ppb
Pb	208	409536.2	41.94551		ppb
Kr	83	-936			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-16 BH

Sample Da Wednesday, August 03, 2011 13:17:36

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	41163.9		ppb
- Be	9	22.3	0.08032	ppb
- Sc	45	89393.6		ppb
- Cr	52	97631.8	23.86848	ppb
- Cr	53	12767	-2.50904	ppb
- Mn	55	111280.5	17.54519	ppb
- Co	59	7380.4	1.634	ppb
- Ni	60	22250.2	22.47063	ppb
- As	75	90967.4	112.06949	ppb
- Se	77	102077.2	1665.3002	ppb
- Se	82	145305.6	1860.1357	ppb
> Rh	103	218870.2		ppb
- Cd	111	1868.5	1.79664	ppb
- Cd	114	4253.1	1.85533	ppb
- Sb	121	2715.7	0.99985	ppb
- Sb	123	1989.4	0.86297	ppb
> Ho	165	294048.6		ppb
- Pb	208	220108	17.84759	ppb
- Kr	83	497.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-17 BH

Sample Da Wednesday, August 03, 2011 13:19:45

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	42202.2		ppb
- Be	9	12	0.0374	ppb
- Sc	45	91083.9		ppb
- Cr	52	53788.7	12.43634	ppb
- Cr	53	7563.5	-13.72033	ppb
- Mn	55	176855.2	28.03697	ppb
- Co	59	8438.2	1.85462	ppb
- Ni	60	11425.5	11.36445	ppb
- As	75	136559.3	166.70412	ppb
- Se	77	119956.8	1943.5973	ppb
- Se	82	168921.6	2142.9557	ppb
> Rh	103	220867.4		ppb
- Cd	111	443.9	0.42049	ppb
- Cd	114	893.5	0.38431	ppb
- Sb	121	1900.5	0.69897	ppb
- Sb	123	1409.9	0.61068	ppb
> Ho	165	292531		ppb
- Pb	208	84629.4	6.84976	ppb
- Kr	83	626.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-18 BH

Sample Da Wednesday, August 03, 2011 13:21:54

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39129.3		ppb
- Be	9	9.3	0.02964	ppb
- Sc	45	86869.2		ppb
- Cr	52	55881.6	14.60772	ppb
- Cr	53	7701.6	-11.56993	ppb
- Mn	55	150850.8	26.62209	ppb
- Co	59	11179.5	2.74253	ppb
- Ni	60	15450.8	17.20056	ppb
- As	75	175848.6	239.17828	ppb
- Se	77	141827.9	2570.1603	ppb
- Se	82	199543.5	2821.5541	ppb
> Rh	103	198134.9		ppb
- Cd	111	751	0.79632	ppb
- Cd	114	1254.2	0.60266	ppb
- Sb	121	3553.7	1.4584	ppb
- Sb	123	2614	1.26481	ppb
> Ho	165	265143.5		ppb
- Pb	208	37498.9	3.30867	ppb
- Kr	83	786.4		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-19 BH

Sample Da: Wednesday, August 03, 2011 13:24:04

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas.	Intens	Conc.	Mear	Report	Unit
> Li	6	37396.1					ppb
- Be	9	13.7	0.05048				ppb
- Sc	45	77824.4					ppb
- Cr	52	69512.5	19.14477				ppb
- Cr	53	9432.2	-6.76144				ppb
- Mn	55	104756.2	18.90233				ppb
- Co	59	9833.3	2.46741				ppb
- Ni	60	19334.5	22.29251				ppb
- As	75	47803.8	67.27703				ppb
- Se	77	15681.2	270.53182				ppb
- Se	82	31306.6	457.35701				ppb
> Rh	103	191794.9					ppb
- Cd	111	2536	2.78534				ppb
- Cd	114	5981.8	2.98765				ppb
- Sb	121	12860.1	5.52453				ppb
- Sb	123	9729.7	4.92944				ppb
> Ho	165	255159.2					ppb
- Pb	208	71920.6	6.67159				ppb
- Kr	83	428.1					mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da: Wednesday, August 03, 2011 13:26:16

Sample Description:

Concentration Results

Analyte	Mass	Meas.	Intens	Conc.	Mear	Report	Unit
> Li	6	36002.4					ppb
- Be	9	5.7	0.01637				ppb
- Sc	45	89974.8					ppb
- Cr	52	5112.8	-0.29722				ppb
- Cr	53	11023.4	-11.78324				ppb
- Mn	55	4002.2	-0.20985				ppb
- Co	59	110.3	0.01009				ppb
- Ni	60	416.3	0.17898				ppb
- As	75	-55.9	0.0476				ppb
- Se	77	2461.3	5.08658				ppb
- Se	82	-80.8	-0.862				ppb
> Rh	103	287189					ppb
- Cd	111	74.7	0.05188				ppb
- Cd	114	125.6	0.03942				ppb
- Sb	121	164.7	0.02605				ppb
- Sb	123	105.9	0.01716				ppb
> Ho	165	437270.9					ppb
- Pb	208	2392.8	0.05218				ppb
- Kr	83	204.7					mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da: Wednesday, August 03, 2011 13:28:25

Sample Description:

Concentration Results

Analyte	Mass	Meas.	Intens	Conc.	Mear	Report	Unit
> Li	6	36860.4					ppb
- Be	9	20743.3	92.49915				ppb
- Sc	45	92448.7					ppb
- Cr	52	414180.9	78.3166				ppb
- Cr	53	60841.6	66.82313				ppb
- Mn	55	581964.1	70.48738				ppb
- Co	59	555991.5	92.41661				ppb
- Ni	60	124717.5	94.4174				ppb
- As	75	97691.4	89.8115				ppb
- Se	77	8914	84.17748				ppb
- Se	82	8581.6	81.86296				ppb
> Rh	103	293558.8					ppb
- Cd	111	128747.1	92.51673				ppb
- Cd	114	297822.1	97.0097				ppb
- Sb	121	465348.7	111.26096				ppb
- Sb	123	354229.6	99.89098				ppb
> Ho	165	459824.4					ppb
- Pb	208	1876006.6	97.63654				ppb
- Kr	83	-8268.5					mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 BH

Sample Date: Wednesday, August 03, 2011 13:30:36

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39441.4		ppb
- Be	9	9	0.02783	ppb
- Sc	45	83034.8		ppb
- Cr	52	44931.1	11.08619	ppb
- Cr	53	6684.1	-14.45622	ppb
- Mn	55	113685.1	19.23949	ppb
- Co	59	3295.6	0.77701	ppb
- Ni	60	8583.4	9.18929	ppb
- As	75	62622	82.57822	ppb
- Se	77	57562.3	994.29778	ppb
- Se	82	83794.6	1147.4606	ppb
> Rh	103	204610		ppb
- Cd	111	5385.4	5.54748	ppb
- Cd	114	12280.8	5.73493	ppb
- Sb	121	3623.1	1.42136	ppb
- Sb	123	2654.6	1.2274	ppb
> Ho	165	277205.8		ppb
- Pb	208	71739.1	6.11876	ppb
- Kr	83	552.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 BH

Sample Date: Wednesday, August 03, 2011 13:32:45

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39365.5		ppb
- Be	9	8.3	0.02522	ppb
- Sc	45	80311.6		ppb
- Cr	52	45893.9	11.81897	ppb
- Cr	53	6419.6	-14.5124	ppb
- Mn	55	115574.3	20.31876	ppb
- Co	59	3124.5	0.76355	ppb
- Ni	60	8698.8	9.66314	ppb
- As	75	65304.7	89.29318	ppb
- Se	77	57671.4	1034.0058	ppb
- Se	82	84892.5	1205.5282	ppb
> Rh	103	197322.1		ppb
- Cd	111	5327.6	5.69117	ppb
- Cd	114	12050.7	5.83413	ppb
- Sb	121	3594.7	1.42901	ppb
- Sb	123	2746.1	1.28685	ppb
> Ho	165	273567		ppb
- Pb	208	74300.2	6.42622	ppb
- Kr	83	447.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 B H

Sample Date: Wednesday, August 03, 2011 13:34:55

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	40341.2		ppb
- Be	9	18	0.06311	ppb
- Sc	45	83308.2		ppb
- Cr	52	60148.8	15.23382	ppb
- Cr	53	8171.7	-11.12183	ppb
- Mn	55	132707.6	22.51125	ppb
- Co	59	3817.1	0.89859	ppb
- Ni	60	15403.7	16.5573	ppb
- As	75	86855.3	114.10015	ppb
- Se	77	81534.8	1415.1239	ppb
- Se	82	116221	1586.9218	ppb
> Rh	103	205184.3		ppb
- Cd	111	2799.2	2.87417	ppb
- Cd	114	5192.4	2.41765	ppb
- Sb	121	5768.2	2.23981	ppb
- Sb	123	4467.3	2.04594	ppb
> Ho	165	281174.6		ppb
- Pb	208	81317.3	6.8475	ppb
- Kr	83	-51.6		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 BH

Sample Da Wednesday, August 03, 2011 13:37:04

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	41161.1		ppb
Be	9	11115.5	44.37334	ppb
Sc	45	86775.8		ppb
Cr	52	333141.4	87.44326	ppb
Cr	53	40600.8	59.58978	ppb
Mn	55	378576.4	63.48141	ppb
Co	59	222006	51.13487	ppb
Ni	60	65489.1	68.66903	ppb
As	75	182252.3	232.03337	ppb
Se	77	88022.2	1481.6232	ppb
Se	82	125626.4	1662.4156	ppb
Rh	103	211748.4		ppb
Cd	111	29251.8	29.142	ppb
Cd	114	66232.2	29.90552	ppb
Sb	121	161253.9	60.71738	ppb
Sb	123	122080.5	54.22106	ppb
Ho	165	291852.4		ppb
Pb	208	551105.9	45.14437	ppb
Kr	83	-17.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-22 BH

Sample Da Wednesday, August 03, 2011 13:39:13

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	44295.6		ppb
Be	9	11.7	0.03396	ppb
Sc	45	91783.6		ppb
Cr	52	98727.2	24.06907	ppb
Cr	53	12495.9	-3.16267	ppb
Mn	55	100645.9	15.74436	ppb
Co	59	5235.2	1.15273	ppb
Ni	60	22696.7	22.85472	ppb
As	75	146339.7	179.70369	ppb
Se	77	85995.3	1395.0022	ppb
Se	82	123156.1	1571.9823	ppb
Rh	103	219560.4		ppb
Cd	111	287.2	0.27253	ppb
Cd	114	750.8	0.32447	ppb
Sb	121	2392.3	0.86968	ppb
Sb	123	1811.7	0.77609	ppb
Ho	165	297194.8		ppb
Pb	208	48106.4	3.79792	ppb
Kr	83	664.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-23 BH

Sample Da Wednesday, August 03, 2011 13:41:22

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	41828.2		ppb
Be	9	14.3	0.04635	ppb
Sc	45	91363		ppb
Cr	52	90767.5	23.64874	ppb
Cr	53	11770.3	-2.9822	ppb
Mn	55	194861.8	33.38335	ppb
Co	59	7420	1.75414	ppb
Ni	60	21229.8	22.87137	ppb
As	75	220207.9	289.22956	ppb
Se	77	175446	3074.8129	ppb
Se	82	243952	3331.2432	ppb
Rh	103	205207.1		ppb
Cd	111	1192.7	1.22331	ppb
Cd	114	903.9	0.41763	ppb
Sb	121	9583	3.70618	ppb
Sb	123	7397.2	3.37449	ppb
Ho	165	283063.2		ppb
Pb	208	92681	7.76384	ppb
Kr	83	664.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-24 BH

Sample Da Wednesday, August 03, 2011 13:43:31

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
> Li	6	39178.2			ppb
- Be	9	21.3	0.08011		ppb
- Sc	45	82938.5			ppb
- Cr	52	63091.6	15.9515		ppb
- Cr	53	8715.2	-9.99472		ppb
- Mn	55	113755.5	19.08955		ppb
- Co	59	5291.5	1.2422		ppb
- Ni	60	18347.2	19.643		ppb
- As	75	242034.1	316.26813		ppb
- Se	77	202345	3531.4782		ppb
- Se	82	285315.1	3875.4968		ppb
> Rh	103	206275.1			ppb
> Cd	111	398.9	0.40424		ppb
- Cd	114	891.7	0.41008		ppb
- Sb	121	2613	1.02963		ppb
- Sb	123	1897.8	0.88146		ppb
> Ho	165	274814.8			ppb
- Pb	208	46266.1	3.95315		ppb
- Kr	83	828.2			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 13:52:10

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
> Li	6	36405.2			ppb
- Be	9	8.7	0.02936		ppb
- Sc	45	88044			ppb
- Cr	52	5647.1	-0.18405		ppb
- Cr	53	13929.7	-6.90489		ppb
- Mn	55	4244.3	-0.17551		ppb
- Co	59	127.3	0.01304		ppb
- Ni	60	348	0.12829		ppb
- As	75	-38.1	0.06244		ppb
- Se	77	3221.2	14.99358		ppb
- Se	82	-1.4	-0.11221		ppb
> Rh	103	284846.1			ppb
> Cd	111	46.6	0.03102		ppb
- Cd	114	73.6	0.02177		ppb
- Sb	121	57.7	-0.00063		ppb
- Sb	123	47.4	0.00001		ppb
> Ho	165	430212.5			ppb
- Pb	208	1859.7	0.02471		ppb
- Kr	83	120.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 13:54:20

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
> Li	6	36816.2			ppb
- Be	9	20442.3	91.25896		ppb
- Sc	45	89885.2			ppb
- Cr	52	396165.4	77.44896		ppb
- Cr	53	60326.8	69.26626		ppb
- Mn	55	557502.3	69.82693		ppb
- Co	59	529251.2	90.9611		ppb
- Ni	60	120516.8	94.34318		ppb
- As	75	94451.8	89.79112		ppb
- Se	77	8939.4	88.22575		ppb
- Se	82	8313.1	81.98598		ppb
> Rh	103	283814.1			ppb
- Cd	111	125298.8	93.12038		ppb
- Cd	114	287352.9	96.79084		ppb
- Sb	121	445642.4	110.28723		ppb
- Sb	123	340784.6	99.47726		ppb
> Ho	165	444171.5			ppb
- Pb	208	1771427.1	95.45199		ppb
- Kr	83	-8006.4			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 BH

Sample Da: Wednesday, August 03, 2011 13:56:31

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	50850.9			ppb
Be	9	23.3	0.06606		ppb
Sc	45	136398.2			ppb
Cr	52	82250.4	10.22153		ppb
Cr	53	11784.6	-16.03109		ppb
Mn	55	200993.3	17.20804		ppb
Co	59	7987.5	0.95891		ppb
Ni	60	32273.2	17.68579		ppb
As	75	10923.1	7.41319		ppb
Se	77	19149.2	146.42717		ppb
Se	82	25154	174.88219		ppb
Rh	103	402754			ppb
Cd	111	3865.4	2.02119		ppb
Cd	114	7636.5	1.8108		ppb
Sb	121	7135.1	1.19345		ppb
Sb	123	5439.8	1.07279		ppb
Ho	165	648983.2			ppb
Pb	208	201144.2	7.34532		ppb
Kr	83	-685.8			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 BH

Sample Da: Wednesday, August 03, 2011 13:58:40

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	49910.5			ppb
Be	9	10228.8	33.67822		ppb
Sc	45	134242.3			ppb
Cr	52	373851	52.01889		ppb
Cr	53	46037.3	24.51666		ppb
Mn	55	612193.5	54.8718		ppb
Co	59	384482.6	47.40856		ppb
Ni	60	113748.3	63.84514		ppb
As	75	79888.7	54.53281		ppb
Se	77	25462.3	207.48439		ppb
Se	82	33609.3	238.02206		ppb
Rh	103	395510.5			ppb
Cd	111	64959.2	34.64078		ppb
Cd	114	147293.5	35.60324		ppb
Sb	121	244141.2	42.38029		ppb
Sb	123	187574.1	38.40638		ppb
Ho	165	633088.5			ppb
Pb	208	1364000.6	51.51894		ppb
Kr	83	-681.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-29 BH

Sample Da: Wednesday, August 03, 2011 14:02:59

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	39498.1			ppb
Be	9	8	0.02382		ppb
Sc	45	93484			ppb
Cr	52	117028.8	21.44154		ppb
Cr	53	15549.3	-4.72958		ppb
Mn	55	576477.2	70.602		ppb
Co	59	7490.8	1.25002		ppb
Ni	60	62224.2	47.5451		ppb
As	75	55949.5	52.06176		ppb
Se	77	79182.4	963.19569		ppb
Se	82	109055.4	1052.6878		ppb
Rh	103	290294.3			ppb
Cd	111	1517.1	1.09878		ppb
Cd	114	3171.9	1.04163		ppb
Sb	121	5939.3	1.46468		ppb
Sb	123	4400.4	1.27937		ppb
Ho	165	441206.9			ppb
Pb	208	206634.4	11.13727		ppb
Kr	83	-275.9			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-30 BH

Sample Date: Wednesday, August 03, 2011 14:05:08

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	52758.1		ppb
Be	9	14.7	0.03607	ppb
Sc	45	152893.7		ppb
Cr	52	290232.5	38.49387	ppb
Cr	53	35924.2	10.98091	ppb
Mn	55	315786.7	26.84793	ppb
Co	59	8871.3	1.04296	ppb
Ni	60	92801.7	50.03786	ppb
As	75	34493.4	22.68948	ppb
Se	77	58791.9	492.19404	ppb
Se	82	79007.9	538.01327	ppb
Rh	103	411437		ppb
Cd	111	7532.6	3.85779	ppb
Cd	114	14928.3	3.46589	ppb
Sb	121	9766.2	1.58228	ppb
Sb	123	7503	1.43376	ppb
Hg	165	671921.5		ppb
Pb	208	257954	9.11594	ppb
Kr	83	-626.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 14:09:30

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	36375.1		ppb
Be	9	4.3	0.01001	ppb
Sc	45	89187.4		ppb
Cr	52	5932.9	-0.15348	ppb
Cr	53	16409.8	-3.44889	ppb
Mn	55	3833.5	-0.23811	ppb
Co	59	84.3	0.00541	ppb
Ni	60	293.7	0.08054	ppb
As	75	-89.4	0.01482	ppb
Se	77	3420	16.55225	ppb
Se	82	-19.5	-0.28404	ppb
Rh	103	291377.9		ppb
Cd	111	15.1	0.0074	ppb
Cd	114	29.9	0.00686	ppb
Sb	121	85	0.00584	ppb
Sb	123	43.2	-0.00157	ppb
Hg	165	440903.4		ppb
Pb	208	1412.4	-0.00216	ppb
Kr	83	90.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 14:11:39

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	38142.2		ppb
Be	9	20596	88.74944	ppb
Sc	45	93099		ppb
Cr	52	417207.9	78.41706	ppb
Cr	53	64862.6	72.576	ppb
Mn	55	587891.9	70.77776	ppb
Co	59	554842.6	91.64611	ppb
Ni	60	124174.1	93.4328	ppb
As	75	98073.3	89.61573	ppb
Se	77	9570	91.54031	ppb
Se	82	8633.6	81.84835	ppb
Rh	103	295292		ppb
Cd	111	129269.1	92.3464	ppb
Cd	114	299669.9	97.02011	ppb
Sb	121	464466.7	112.97366	ppb
Sb	123	356985.1	102.42709	ppb
Hg	165	451907		ppb
Pb	208	1888893.2	100.02885	ppb
Kr	83	-8293		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Blank
 Sample Date: Wednesday, August 03, 2011 17:15:27
 Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	34083.3		ppb
- Be	9	5.3		ppb
- Sc	45	96973		ppb
- Cr	52	6735.5		ppb
- Cr	53	27524.3		ppb
- Mn	55	4788.9		ppb
- Co	59	58		ppb
- Ni	60	302		ppb
- As	75	-237.5		ppb
- Se	77	3193.6		ppb
- Se	82	-1		ppb
> Rh	103	323186.8		ppb
- Cd	111	19.2		ppb
- Cd	114	24.8		ppb
- Sb	121	86.3		ppb
- Sb	123	70.8		ppb
> Ho	165	549644.8		ppb
- Pb	208	2928.8		ppb
- Kr	83	68.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 1
 Sample Date: Wednesday, August 03, 2011 17:17:37
 Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	34415.9		ppb
- Be	9	211.7	1.1245	ppb
- Sc	45	98964.8		ppb
- Cr	52	11392.1	0.91737	ppb
- Cr	53	27902.8	-1.46748	ppb
- Mn	55	11534.6	1.04746	ppb
- Co	59	6489.3	1.00794	ppb
- Ni	60	1654.8	0.91163	ppb
- As	75	1076.1	1.17333	ppb
- Se	77	3297.6	-0.49615	ppb
- Se	82	122.4	1.22583	ppb
> Rh	103	337512.1		ppb
- Cd	111	1479.5	1.00412	ppb
- Cd	114	3556.4	1.04377	ppb
- Sb	121	5466	1.06915	ppb
- Sb	123	4087.9	0.97786	ppb
> Ho	165	557177.6		ppb
- Pb	208	26466.6	1.13118	ppb
- Kr	83	-35.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2
 Sample Date: Wednesday, August 03, 2011 17:19:46
 Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33879.1		ppb
- Be	9	19267.4	106.6191	ppb
- Sc	45	96747.9		ppb
- Cr	52	443231.2	98.70289	ppb
- Cr	53	79485.4	98.28307	ppb
- Mn	55	619768.1	105.94865	ppb
- Co	59	597825.1	100.71501	ppb
- Ni	60	133561.6	97.4247	ppb
- As	75	107423.4	102.21836	ppb
- Se	77	10603.5	106.93557	ppb
- Se	82	9709.8	103.23396	ppb
> Rh	103	315813.3		ppb
- Cd	111	141934.7	104.51682	ppb
- Cd	114	325579.4	103.07	ppb
- Sb	121	499123.1	103.37113	ppb
- Sb	123	383978.7	97.34665	ppb
> Ho	165	538604.4		ppb
- Pb	208	2290371.1	113.84027	ppb
- Kr	83	-8764.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 3

Sample Da Wednesday, August 03, 2011 17:21:55

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	34108.2			ppb
Be	9	92609.7	499.09961		ppb
Sc	45	96670			ppb
Cr	52	1943711.4	497.72026		ppb
Cr	53	277764.3	499.23768		ppb
Mn	55	2776869	498.05348		ppb
Co	59	2648251.3	473.70234		ppb
Ni	60	634867.7	499.18145		ppb
As	75	525294.9	499.66795		ppb
Se	77	38435.8	499.01457		ppb
Se	82	47141.2	499.56569		ppb
Rh	103	313653.5			ppb
Cd	111	686468.5	499.49191		ppb
Cd	114	1582479.7	499.5867		ppb
Sb	121	2237933.4	497.98031		ppb
Sb	123	1835162.3	499.29082		ppb
Ho	165	533705.3			ppb
Pb	208	10018118	473.48737		ppb
Kr	83	-39741.1			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 17:24:05

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	33830.3			ppb
Be	9	32.7	0.15235		ppb
Sc	45	94311.8			ppb
Cr	52	7760.7	0.27004		ppb
Cr	53	29162.4	3.4543		ppb
Mn	55	6062.1	0.23142		ppb
Co	59	1009.1	0.16978		ppb
Ni	60	503	0.15963		ppb
As	75	262.6	0.46986		ppb
Se	77	3300.9	1.717		ppb
Se	82	0.6	0.02274		ppb
Rh	103	321867.5			ppb
Cd	111	227.1	0.15166		ppb
Cd	114	521.3	0.15723		ppb
Sb	121	751.7	0.14991		ppb
Sb	123	524.6	0.12512		ppb
Ho	165	530979.7			ppb
Pb	208	5746.2	0.13899		ppb
Kr	83	69.4			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Da Wednesday, August 03, 2011 17:26:15

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	34909.6			ppb
Be	9	200.7	1.02718		ppb
Sc	45	99190.3			ppb
Cr	52	12340.4	1.34843		ppb
Cr	53	28830	1.65306		ppb
Mn	55	11523.3	1.14266		ppb
Co	59	6866.9	1.1631		ppb
Ni	60	1665.8	1.02067		ppb
As	75	840.4	0.98366		ppb
Se	77	3426	2.44593		ppb
Se	82	94.9	0.96271		ppb
Rh	103	328456.8			ppb
Cd	111	1598.1	1.09726		ppb
Cd	114	3778.1	1.13202		ppb
Sb	121	5467.6	1.18554		ppb
Sb	123	4118.7	1.09032		ppb
Ho	165	539633.2			ppb
Pb	208	26646.9	1.11225		ppb
Kr	83	-13			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 3

Sample Da Wednesday, August 03, 2011 17:28:24

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33955.5		ppb
- Be	9	47842.6	259.01297	ppb
- Sc	45	96455.6		ppb
- Cr	52	1067777.9	270.23922	ppb
- Cr	53	154657.5	251.68663	ppb
- Mn	55	1497451.7	265.80997	ppb
- Co	59	1457429.5	258.32123	ppb
- Ni	60	323631.4	252.0611	ppb
- As	75	259519.7	244.79032	ppb
- Se	77	20174	238.57267	ppb
- Se	82	23218.7	243.86891	ppb
> Rh	103	316460.8		ppb
- Cd	111	342069.3	246.69555	ppb
- Cd	114	789674.6	247.10857	ppb
- Sb	121	1191634	270.1504	ppb
- Sb	123	908973.8	251.96945	ppb
> Ho	165	523819.8		ppb
- Pb	208	5130457.6	246.99432	ppb
- Kr	83	-20116.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 17:30:34

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33184.7		ppb
- Be	9	18640.1	103.21316	ppb
- Sc	45	94065.9		ppb
- Cr	52	429403	108.7072	ppb
- Cr	53	79791.7	105.64853	ppb
- Mn	55	607591.4	108.38977	ppb
- Co	59	590237.1	105.61164	ppb
- Ni	60	133597.8	104.9182	ppb
- As	75	107203.5	102.2058	ppb
- Se	77	10568.5	105.52943	ppb
- Se	82	9518.3	100.88973	ppb
> Rh	103	313474.3		ppb
- Cd	111	140109.6	101.98287	ppb
- Cd	114	329392	104.01758	ppb
- Sb	121	489336.9	111.76205	ppb
- Sb	123	373691.2	104.33051	ppb
> Ho	165	520001		ppb
- Pb	208	2218812.1	107.54518	ppb
- Kr	83	-8589.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 5

Sample Da Wednesday, August 03, 2011 17:32:45

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33611.3		ppb
- Be	9	9257	50.62014	ppb
- Sc	45	97650.8		ppb
- Cr	52	213597.2	52.22946	ppb
- Cr	53	52885.7	50.21881	ppb
- Mn	55	300377.6	52.18475	ppb
- Co	59	291945.3	51.28724	ppb
- Ni	60	65422.6	50.32933	ppb
- As	75	51922.8	48.72292	ppb
- Se	77	6698.1	49.17919	ppb
- Se	82	4650.2	48.41244	ppb
> Rh	103	319219.5		ppb
- Cd	111	68701.9	49.10156	ppb
- Cd	114	157713.4	48.91927	ppb
- Sb	121	242506.2	54.77393	ppb
- Sb	123	185054.9	51.10103	ppb
> Ho	165	525649.8		ppb
- Pb	208	1079940.4	51.7121	ppb
- Kr	83	74.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 6

Sample Date: Wednesday, August 03, 2011 17:34:54

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	37272.5		ppb
- Be	9	8	0.01069	ppb
- Sc	45	112747.4		ppb
- Cr	52	13769.1	1.67832	ppb
- Cr	53	32459.9	8.1623	ppb
- Mn	55	28879.5	4.09132	ppb
- Co	59	6607.1	1.11184	ppb
- Ni	60	5047.7	3.53832	ppb
- As	75	-290.6	-0.04247	ppb
- Se	77	5574.4	30.95815	ppb
- Se	82	-39.1	-0.38209	ppb
> Rh	103	330336.9		ppb
- Cd	111	557.4	0.37128	ppb
- Cd	114	3507.4	1.04348	ppb
- Sb	121	695.7	0.12374	ppb
- Sb	123	547.6	0.11837	ppb
> Ho	165	581585.9		ppb
- Pb	208	17131.6	0.60899	ppb
- Kr	83	77.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 7

Sample Date: Wednesday, August 03, 2011 17:37:03

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	31129.5		ppb
- Be	9	430	2.51062	ppb
- Sc	45	95863.9		ppb
- Cr	52	61562.2	15.51301	ppb
- Cr	53	39421.3	32.09933	ppb
- Mn	55	85071.6	15.77998	ppb
- Co	59	126980.5	24.67929	ppb
- Ni	60	28513.3	24.15119	ppb
- As	75	11971.6	12.59358	ppb
- Se	77	6694.5	59.00074	ppb
- Se	82	1048.4	12.08398	ppb
> Rh	103	288494.6		ppb
- Cd	111	9474.1	7.48025	ppb
- Cd	114	24137.7	8.27596	ppb
- Sb	121	12366.7	2.88699	ppb
- Sb	123	9490.7	2.708	ppb
> Ho	165	505442.6		ppb
- Pb	208	57094.8	2.71537	ppb
- Kr	83	-140.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 8

Sample Date: Wednesday, August 03, 2011 17:39:13

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	49663.6		ppb
- Be	9	81.7	0.27337	ppb
- Sc	45	145547.9		ppb
- Cr	52	16657.9	0.97943	ppb
- Cr	53	49199.1	7.66279	ppb
- Mn	55	12897.5	0.60452	ppb
- Co	59	3007.2	0.32402	ppb
- Ni	60	7034.1	3.20652	ppb
- As	75	124.7	0.29323	ppb
- Se	77	7038.4	17.98146	ppb
- Se	82	30	0.20751	ppb
> Rh	103	504861.7		ppb
- Cd	111	736.9	0.31954	ppb
- Cd	114	1575	0.30127	ppb
- Sb	121	2777.1	0.37326	ppb
- Sb	123	2139.9	0.35052	ppb
> Ho	165	841594.8		ppb
- Pb	208	27909.3	0.70239	ppb
- Kr	83	14.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Da Wednesday, August 03, 2011 17:41:23

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	32608.9		ppb
- Be	9	197	1.08243	ppb
- Sc	45	91952.7		ppb
- Cr	52	14138	1.89468	ppb
- Cr	53	36806	18.89256	ppb
- Mn	55	10647.6	1.04708	ppb
- Co	59	6300.2	1.09852	ppb
- Ni	60	1612.5	1.01754	ppb
- As	75	896.8	1.05949	ppb
- Se	77	4869.3	23.88615	ppb
- Se	82	92	0.96896	ppb
> Rh	103	318762.7		ppb
- Cd	111	1468.7	1.0378	ppb
- Cd	114	3529.9	1.0887	ppb
- Sb	121	5288.2	1.18547	ppb
- Sb	123	4093.7	1.12111	ppb
> Ho	165	521580.1		ppb
- Pb	208	25447.2	1.09663	ppb
- Kr	83	-22.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB FH

Sample Da Wednesday, August 03, 2011 17:43:34

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	36976		ppb
- Be	9	9.7	0.01869	ppb
- Sc	45	106436.5		ppb
- Cr	52	64692	12.65911	ppb
- Cr	53	16755.5	-24.33908	ppb
- Mn	55	29119.4	3.67615	ppb
- Co	59	901	0.12894	ppb
- Ni	60	7210.5	4.66141	ppb
- As	75	101.3	0.30282	ppb
- Se	77	638	-35.97238	ppb
- Se	82	2.7	0.03512	ppb
> Rh	103	363567.7		ppb
- Cd	111	161	0.08746	ppb
- Cd	114	266.3	0.06494	ppb
- Sb	121	7607.2	1.40782	ppb
- Sb	123	5984.2	1.3534	ppb
> Ho	165	633295.6		ppb
- Pb	208	39944.7	1.45692	ppb
- Kr	83	22.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB FH

Sample Da Wednesday, August 03, 2011 17:45:43

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	37038.8		ppb
- Be	9	8526	42.28658	ppb
- Sc	45	104727.5		ppb
- Cr	52	244784.1	53.14045	ppb
- Cr	53	36506.9	10.20307	ppb
- Mn	55	363590.5	56.09497	ppb
- Co	59	315542.9	49.1783	ppb
- Ni	60	72437.2	49.41953	ppb
- As	75	47352.3	39.4527	ppb
- Se	77	3187.6	-4.50595	ppb
- Se	82	3685.5	34.02742	ppb
> Rh	103	359982.1		ppb
- Cd	111	68777.4	43.59123	ppb
- Cd	114	157949.4	43.44312	ppb
- Sb	121	199057.4	38.86731	ppb
- Sb	123	150693.9	35.97521	ppb
> Ho	165	607944.4		ppb
- Pb	208	1291852.1	53.48289	ppb
- Kr	83	31.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-1 FH

Sample Da Wednesday, August 03, 2011 17:47:54

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	34640.2			ppb
- Be	9	29.3	0.12774		ppb
- Sc	45	108322.6			ppb
- Cr	52	63140.5	13.71714		ppb
- Cr	53	36396.8	15.55335		ppb
- Mn	55	72512.4	11.53079		ppb
- Co	59	4382.4	0.73436		ppb
- Ni	60	55460.1	41.17049		ppb
- As	75	11168.4	10.30901		ppb
- Se	77	10776.7	100.68279		ppb
- Se	82	8877.9	89.29461		ppb
> Rh	103	330491.7			ppb
- Cd	111	493.9	0.32784		ppb
- Cd	114	752	0.21821		ppb
- Sb	121	27727.9	5.88263		ppb
- Sb	123	21436.5	5.56124		ppb
> Ho	165	558390.6			ppb
- Pb	208	95544.1	4.18369		ppb
- Kr	83	-727.1			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 FH

Sample Da Wednesday, August 03, 2011 17:50:04

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	36142			ppb
- Be	9	36.3	0.15602		ppb
- Sc	45	107883.1			ppb
- Cr	52	25365	4.1257		ppb
- Cr	53	35474.8	9.73082		ppb
- Mn	55	26824.9	3.45846		ppb
- Co	59	2684.7	0.41764		ppb
- Ni	60	13781.1	9.42559		ppb
- As	75	13011.1	11.23758		ppb
- Se	77	12783.3	117.04422		ppb
- Se	82	10939	103.25086		ppb
> Rh	103	352044.1			ppb
- Cd	111	344.8	0.20984		ppb
- Cd	114	439.2	0.11597		ppb
- Sb	121	4565.8	0.90304		ppb
- Sb	123	3519.1	0.84997		ppb
> Ho	165	588351.8			ppb
- Pb	208	86279.5	3.56608		ppb
- Kr	83	-299.2			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 FH

Sample Da Wednesday, August 03, 2011 17:52:13

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	36048.7			ppb
- Be	9	37	0.15979		ppb
- Sc	45	111137.2			ppb
- Cr	52	26169.3	4.45829		ppb
- Cr	53	36640.4	13.39506		ppb
- Mn	55	27789.1	3.72276		ppb
- Co	59	2686.4	0.4285		ppb
- Ni	60	13611.2	9.54271		ppb
- As	75	13356	11.81216		ppb
- Se	77	12910.8	122.66152		ppb
- Se	82	10876.9	105.20646		ppb
> Rh	103	343574.4			ppb
- Cd	111	406.1	0.25614		ppb
- Cd	114	494.5	0.13491		ppb
- Sb	121	4542.5	0.90317		ppb
- Sb	123	3483.8	0.84582		ppb
> Ho	165	585306.2			ppb
- Pb	208	85505.5	3.55206		ppb
- Kr	83	-292.4			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 FH

Sample Da Wednesday, August 03, 2011 17:54:22

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
> Li	6	38656.3			ppb
- Be	9	288.7	1.34274		ppb
- Sc	45	168338.3			ppb
- Cr	52	196980.5	42.3578		ppb
- Cr	53	30929.6	0.43541		ppb
- Mn	55	263481	40.35162		ppb
- Co	59	29667	4.6066		ppb
- Ni	60	144910	98.95696		ppb
- As	75	135253.3	112.08887		ppb
- Se	77	83038.2	976.64171		ppb
- Se	82	112210.7	1034.4687		ppb
> Rh	103	360386.7			ppb
- Cd	111	3515.1	2.21296		ppb
- Cd	114	4471.7	1.22136		ppb
- Sb	121	45824.6	8.05316		ppb
- Sb	123	34841.3	7.48546		ppb
> Ho	165	674258.8			ppb
- Pb	208	934971.2	34.85263		ppb
- Kr	83	-3907.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 FH

Sample Da Wednesday, August 03, 2011 17:56:32

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
> Li	6	38636			ppb
- Be	9	288.3	1.3428		ppb
- Sc	45	167681.9			ppb
- Cr	52	202825.3	42.59276		ppb
- Cr	53	29442	-3.36436		ppb
- Mn	55	271748.6	40.64577		ppb
- Co	59	30653	4.64749		ppb
- Ni	60	148694.2	99.13664		ppb
- As	75	134081	108.53226		ppb
- Se	77	86360.7	992.35923		ppb
- Se	82	113169.5	1018.7195		ppb
> Rh	103	369122.5			ppb
- Cd	111	3507.9	2.15505		ppb
- Cd	114	4576.7	1.2199		ppb
- Sb	121	46886.9	7.97425		ppb
- Sb	123	35811.8	7.44594		ppb
> Ho	165	696758.2			ppb
- Pb	208	966686	34.87474		ppb
- Kr	83	-4031.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 FH

Sample Da Wednesday, August 03, 2011 17:58:41

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
> Li	6	35355.8			ppb
- Be	9	74	0.35569		ppb
- Sc	45	126318.8			ppb
- Cr	52	80647.6	16.23604		ppb
- Cr	53	33148.7	3.88491		ppb
- Mn	55	1293742.4	200.15118		ppb
- Co	59	8186.4	1.25579		ppb
- Ni	60	26538.7	17.81878		ppb
- As	75	15637.8	13.07524		ppb
- Se	77	14714.6	135.91645		ppb
- Se	82	15461.5	141.65405		ppb
> Rh	103	362697.4			ppb
- Cd	111	1392.2	0.86235		ppb
- Cd	114	928.1	0.24574		ppb
- Sb	121	8079.6	1.50379		ppb
- Sb	123	6090.9	1.38484		ppb
> Ho	165	630307.6			ppb
- Pb	208	112260.1	4.36078		ppb
- Kr	83	-7254.6			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 FH

Sample Da: Wednesday, August 03, 2011 18:00:50

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	35347.2		ppb
- Be	9	9583.4	49.80559	ppb
- Sc	45	127750.4		ppb
- Cr	52	314647.1	69.27718	ppb
- Cr	53	62447.4	55.89388	ppb
- Mn	55	1628093.6	255.63921	ppb
- Co	59	320742.8	50.34348	ppb
- Ni	60	96023.5	66.05986	ppb
- As	75	72003.8	60.31043	ppb
- Se	77	18255.7	182.56072	ppb
- Se	82	20339.1	189.15822	ppb
> Rh	103	357314.5		ppb
- Cd	111	74580.4	47.62243	ppb
- Cd	114	170147.5	47.14073	ppb
- Sb	121	277686.2	52.04223	ppb
- Sb	123	208901.7	47.8687	ppb
> Ho	165	633699.7		ppb
- Pb	208	1369409.7	54.40973	ppb
- Kr	83	-7286.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da: Wednesday, August 03, 2011 18:03:01

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	33021.4		ppb
- Be	9	4.7	-0.0028	ppb
- Sc	45	101605.4		ppb
- Cr	52	7531.5	0.09697	ppb
- Cr	53	28480.2	-1.12862	ppb
- Mn	55	5147.1	0.01425	ppb
- Co	59	118.7	0.00948	ppb
- Ni	60	322.7	0.00259	ppb
- As	75	40.5	0.25455	ppb
- Se	77	3560.4	2.38926	ppb
- Se	82	27.7	0.27994	ppb
> Rh	103	341668.2		ppb
- Cd	111	32.4	0.00811	ppb
- Cd	114	63.5	0.01086	ppb
- Sb	121	123.7	0.00672	ppb
- Sb	123	97.6	0.00577	ppb
> Ho	165	580971.2		ppb
- Pb	208	3338.9	0.01067	ppb
- Kr	83	61.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da: Wednesday, August 03, 2011 18:05:11

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	33281.5		ppb
- Be	9	19165.2	105.82477	ppb
- Sc	45	99496.3		ppb
- Cr	52	457505.5	109.38951	ppb
- Cr	53	83242.1	103.30626	ppb
- Mn	55	647689.4	109.12006	ppb
- Co	59	628832	106.26249	ppb
- Ni	60	138927.5	103.03198	ppb
- As	75	111418.2	100.33361	ppb
- Se	77	10976.3	102.70754	ppb
- Se	82	10089.4	101.0311	ppb
> Rh	103	331873		ppb
- Cd	111	149775.7	102.97517	ppb
- Cd	114	346470.1	103.35745	ppb
- Sb	121	518124.5	106.84077	ppb
- Sb	123	397204.2	100.09743	ppb
> Ho	165	576349.2		ppb
- Pb	208	2508602.5	109.75134	ppb
- Kr	83	-9253.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-4 FH

Sample Da Wednesday, August 03, 2011 18:07:22

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	30952.6		ppb
- Be	9	36.3	0.18702	ppb
- Sc	45	102282.8		ppb
- Cr	52	36678.5	8.0683	ppb
- Cr	53	30697.7	10.0354	ppb
- Mn	55	76959.4	13.46778	ppb
- Co	59	3657.1	0.66663	ppb
- Ni	60	13203.9	10.51211	ppb
- As	75	19400.5	19.2984	ppb
- Se	77	9047.5	88.38956	ppb
- Se	82	7894.9	86.52858	ppb
> Rh	103	303197.8		ppb
- Cd	111	332.2	0.23659	ppb
- Cd	114	541.8	0.16942	ppb
- Sb	121	4312.4	0.94358	ppb
- Sb	123	3217.7	0.8597	ppb
> Ho	165	532512.3		ppb
- Pb	208	81361.6	3.72194	ppb
- Kr	83	-310		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-6 FH

Sample Da Wednesday, August 03, 2011 18:11:44

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	32698.5		ppb
- Be	9	106.7	0.57094	ppb
- Sc	45	153116.7		ppb
- Cr	52	199279.9	48.95447	ppb
- Cr	53	41575.2	28.65458	ppb
- Mn	55	694175.1	122.51394	ppb
- Co	59	13612.9	2.39741	ppb
- Ni	60	33390.5	25.74373	ppb
- As	75	14804.1	14.13895	ppb
- Se	77	5802.9	37.28504	ppb
- Se	82	4049.6	42.44025	ppb
> Rh	103	317123.4		ppb
- Cd	111	3257	2.3298	ppb
- Cd	114	2037.4	0.62852	ppb
- Sb	121	17257.7	3.49676	ppb
- Sb	123	13262.1	3.28632	ppb
> Ho	165	582693.7		ppb
- Pb	208	246450.5	10.53739	ppb
- Kr	83	-36842.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-7 FH

Sample Da Wednesday, August 03, 2011 18:13:55

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38614.2		ppb
- Be	9	58.3	0.24911	ppb
- Sc	45	189703.4		ppb
- Cr	52	518695.9	113.87728	ppb
- Cr	53	66267.7	61.16717	ppb
- Mn	55	1228597.3	190.56974	ppb
- Co	59	20426.9	3.15791	ppb
- Ni	60	143663.9	97.74916	ppb
- As	75	26146.4	21.7721	ppb
- Se	77	7675.2	50.21922	ppb
- Se	82	9817.5	90.19868	ppb
> Rh	103	361680.7		ppb
- Cd	111	2673.5	1.67325	ppb
- Cd	114	2549.1	0.68973	ppb
- Sb	121	30449.9	5.06917	ppb
- Sb	123	23416.5	4.76558	ppb
> Ho	165	710851.4		ppb
- Pb	208	374057.8	13.14366	ppb
- Kr	83	-2513.1		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 FH

Sample Da Wednesday, August 03, 2011 18:16:06

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	36369.9		ppb
Be	9	11.3	0.02853	ppb
Sc	45	116096		ppb
Cr	52	62292.7	11.74196	ppb
Cr	53	29008.6	-4.71973	ppb
Mn	55	1497857.3	224.83485	ppb
Co	59	5132.4	0.75957	ppb
Ni	60	26983.7	17.56873	ppb
As	75	4071	3.46674	ppb
Se	77	3612.7	-0.97047	ppb
Se	82	1054	9.37625	ppb
Rh	103	374041		ppb
Cd	111	900.8	0.53648	ppb
Cd	114	1612.6	0.41916	ppb
Sb	121	11595.1	2.02487	ppb
Sb	123	8917.9	1.90295	ppb
Ho	165	673851.2		ppb
Pb	208	87680.6	3.14851	ppb
Kr	83	-193.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 FH

Sample Da Wednesday, August 03, 2011 18:18:15

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	36699.9		ppb
Be	9	13.3	0.03793	ppb
Sc	45	115658.5		ppb
Cr	52	60650.3	11.43276	ppb
Cr	53	30351.6	-2.32186	ppb
Mn	55	1452837.1	218.81348	ppb
Co	59	5041.7	0.74868	ppb
Ni	60	26370.9	17.22495	ppb
As	75	3506.3	3.02438	ppb
Se	77	3747.1	0.76787	ppb
Se	82	1039.1	9.27366	ppb
Rh	103	372702.7		ppb
Cd	111	846.4	0.50479	ppb
Cd	114	1542.3	0.40225	ppb
Sb	121	11082.4	1.95805	ppb
Sb	123	8452.2	1.82461	ppb
Ho	165	665822.8		ppb
Pb	208	81372.5	2.94918	ppb
Kr	83	-182.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da Wednesday, August 03, 2011 18:20:25

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	40587		ppb
Be	9	16.3	0.0452	ppb
Sc	45	577656.1		ppb
Cr	52	60586.9	11.79874	ppb
Cr	53	21350.8	-16.34946	ppb
Mn	55	98316.2	14.46118	ppb
Co	59	17013.6	2.62487	ppb
Ni	60	18122.4	12.11337	ppb
As	75	6056.4	5.20598	ppb
Se	77	2518.3	-12.96481	ppb
Se	82	1316.2	12.08543	ppb
Rh	103	362154.5		ppb
Cd	111	654.6	0.39889	ppb
Cd	114	174.3	0.04005	ppb
Sb	121	60192	11.1657	ppb
Sb	123	46048.8	10.44287	ppb
Ho	165	639179.7		ppb
Pb	208	73846.1	2.78056	ppb
Kr	83	-806.7		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da: Wednesday, August 03, 2011 18:22:34

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report Unit
> Li	6	40337.1		ppb
- Be	9	9440.9	43.00515	ppb
- Sc	45	505756.5		ppb
- Cr	52	304567.1	68.87287	ppb
- Cr	53	48833.5	34.44039	ppb
- Mn	55	425832.5	68.14759	ppb
- Co	59	323934.9	52.22577	ppb
- Ni	60	83508.1	58.99409	ppb
- As	75	56043.6	48.26336	ppb
- Se	77	5204.2	22.49623	ppb
- Se	82	4897.9	46.79757	ppb
> Rh	103	347828.6		ppb
- Cd	111	64351.5	42.20432	ppb
- Cd	114	148851.4	42.36208	ppb
- Sb	121	336861.6	67.99254	ppb
- Sb	123	257059.9	63.43865	ppb
> Ho	165	588249.4		ppb
- Pb	208	1277660.1	54.6697	ppb
- Kr	83	-677.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-10 FH

Sample Da: Wednesday, August 03, 2011 18:24:45

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report Unit
> Li	6	42943		ppb
- Be	9	91.7	0.36371	ppb
- Sc	45	397532.1		ppb
- Cr	52	323260.4	72.47944	ppb
- Cr	53	42714.8	22.74376	ppb
- Mn	55	322557.6	50.91123	ppb
- Co	59	26718.2	4.25652	ppb
- Ni	60	117310.6	82.15669	ppb
- As	75	93825.8	79.88208	ppb
- Se	77	24667.1	267.30759	ppb
- Se	82	32370.3	306.30171	ppb
> Rh	103	351226.5		ppb
- Cd	111	4945.9	3.19913	ppb
- Cd	114	6741.3	1.89314	ppb
- Sb	121	35751.8	6.54898	ppb
- Sb	123	27278.6	6.10864	ppb
> Ho	165	646540.9		ppb
- Pb	208	1152216.4	44.83327	ppb
- Kr	83	-2404		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-11 FH

Sample Da: Wednesday, August 03, 2011 18:26:54

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens.	Conc.	Meas. Report Unit
> Li	6	41420.7		ppb
- Be	9	242.7	1.04874	ppb
- Sc	45	475127.8		ppb
- Cr	52	1168558.6	283.1946	ppb
- Cr	53	143232	217.16933	ppb
- Mn	55	1925447.8	327.43374	ppb
- Co	59	67852.4	11.50413	ppb
- Ni	60	115145.8	85.71929	ppb
- As	75	84809	76.73099	ppb
- Se	77	25053.1	292.01732	ppb
- Se	82	32821.7	330.02786	ppb
> Rh	103	330486.6		ppb
- Cd	111	13126.9	9.05214	ppb
- Cd	114	6451.5	1.92581	ppb
- Sb	121	54935.5	13.01868	ppb
- Sb	123	41758.7	12.09811	ppb
> Ho	165	500488.8		ppb
- Pb	208	883558.3	44.41485	ppb
- Kr	83	-120673.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 18:29:05

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	36957.3		ppb
Be	9	4.7	-0.0056	ppb
Sc	45	99436		ppb
Cr	52	7132.2	0.08248	ppb
Cr	53	17934	-18.76006	ppb
Mn	55	6834	0.34352	ppb
Co	59	4815.9	0.80873	ppb
Ni	60	465	0.12077	ppb
As	75	151.3	0.35608	ppb
Se	77	2744.7	-6.42495	ppb
Se	82	-48.6	-0.49019	ppb
Rh	103	325647.3		ppb
Cd	111	44	0.01714	ppb
Cd	114	30.3	0.00162	ppb
Sb	121	127	0.00894	ppb
Sb	123	104.4	0.00902	ppb
Ho	165	544013.2		ppb
Pb	208	3709.3	0.03707	ppb
Kr	83	20.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Wednesday, August 03, 2011 18:31:15

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	36551.2		ppb
Be	9	20050.8	100.80837	ppb
Sc	45	96617.7		ppb
Cr	52	425388.9	105.70304	ppb
Cr	53	69791.6	83.23441	ppb
Mn	55	612483.7	107.27027	ppb
Co	59	589768.8	103.6008	ppb
Ni	60	131539.7	101.39825	ppb
As	75	104229.2	97.56832	ppb
Se	77	9733.9	91.27213	ppb
Se	82	9418.9	98.04508	ppb
Rh	103	319287		ppb
Cd	111	144120.9	103.00352	ppb
Cd	114	334392.1	103.70771	ppb
Sb	121	496632.7	108.58903	ppb
Sb	123	380975.8	102.78971	ppb
Ho	165	538143.9		ppb
Pb	208	2250946.9	105.40498	ppb
Kr	83	-8850.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-12 FH

Sample Da Wednesday, August 03, 2011 18:33:26

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
Li	6	41159.1		ppb
Be	9	163.7	0.70237	ppb
Sc	45	328336.5		ppb
Cr	52	1071431.5	254.36776	ppb
Cr	53	132788.6	192.5344	ppb
Mn	55	742400.2	123.22949	ppb
Co	59	61220.6	10.17394	ppb
Ni	60	208199.1	152.11295	ppb
As	75	106323.9	94.26063	ppb
Se	77	33882	401.36072	ppb
Se	82	44905.4	442.60123	ppb
Rh	103	337135.6		ppb
Cd	111	9221.5	6.22937	ppb
Cd	114	8287.7	2.42652	ppb
Sb	121	159793.4	35.00784	ppb
Sb	123	121709	32.60261	ppb
Ho	165	541808.3		ppb
Pb	208	569697.2	26.39836	ppb
Kr	83	-84491.6		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-13 FH

Sample Da Wednesday, August 03, 2011 18:35:37

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	39305.9			ppb
- Be	9	8	0.00887		ppb
- Sc	45	114340.8			ppb
- Cr	52	187020	42.55801		ppb
- Cr	53	37679.3	15.87242		ppb
- Mn	55	54303.1	8.14771		ppb
- Co	59	6867.3	1.12067		ppb
- Ni	60	39270.6	28.20981		ppb
- As	75	9960.1	8.9356		ppb
- Se	77	11317.7	103.38143		ppb
- Se	82	12167.7	118.69711		ppb
> Rh	103	340625.8			ppb
- Cd	111	571.3	0.36923		ppb
- Cd	114	915.4	0.25849		ppb
- Sb	121	9706.2	1.97373		ppb
- Sb	123	7447.8	1.85061		ppb
> Ho	165	578463.8			ppb
- Pb	208	205610.3	8.83377		ppb
- Kr	83	-168.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 FH

Sample Da Wednesday, August 03, 2011 18:37:47

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	41077.1			ppb
- Be	9	22.3	0.07113		ppb
- Sc	45	240168.5			ppb
- Cr	52	895938.8	208.03614		ppb
- Cr	53	117054.5	158.9674		ppb
- Mn	55	670979.7	109.00637		ppb
- Co	59	18320.8	2.97526		ppb
- Ni	60	166179.5	118.87506		ppb
- As	75	38154.7	33.27834		ppb
- Se	77	27904.8	315.28285		ppb
- Se	82	35876.3	346.36445		ppb
> Rh	103	344186			ppb
- Cd	111	4579.2	3.02252		ppb
- Cd	114	9448.5	2.71032		ppb
- Sb	121	20618.7	4.05859		ppb
- Sb	123	15820.2	3.80663		ppb
> Ho	165	600607.7			ppb
- Pb	208	859947.2	35.99274		ppb
- Kr	83	-893.6			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 FH

Sample Da Wednesday, August 03, 2011 18:39:56

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	39334.4			ppb
- Be	9	20.3	0.06574		ppb
- Sc	45	226373			ppb
- Cr	52	874566.1	217.17931		ppb
- Cr	53	115333	170.29666		ppb
- Mn	55	661031.8	114.84378		ppb
- Co	59	18877	3.27634		ppb
- Ni	60	164866.9	126.09791		ppb
- As	75	37441.2	34.90784		ppb
- Se	77	27269.2	331.39707		ppb
- Se	82	35281	364.18673		ppb
> Rh	103	321965.8			ppb
- Cd	111	4503.1	3.17768		ppb
- Cd	114	9155.7	2.8077		ppb
- Sb	121	19193.2	4.08196		ppb
- Sb	123	14573.9	3.78816		ppb
> Ho	165	555859.9			ppb
- Pb	208	843606.3	38.16295		ppb
- Kr	83	-930			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 FH

Sample Da Wednesday, August 03, 2011 18:42:07

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	39272.8		ppb
- Be	9	41	0.16329	ppb
- Sc	45	155234.5		ppb
- Cr	52	1132530.5	290.09296	ppb
- Cr	53	137518.5	221.10934	ppb
- Mn	55	1977063.3	355.4589	ppb
- Co	59	36045.7	6.45512	ppb
- Ni	60	287522.3	226.58447	ppb
- As	75	85938.1	82.17632	ppb
- Se	77	72870	988.21019	ppb
- Se	82	98872.2	1050.6066	ppb
> Rh	103	312691.9		ppb
- Cd	111	10858.7	7.91143	ppb
- Cd	114	22573.6	7.1399	ppb
- Sb	121	56535.3	11.27419	ppb
- Sb	123	43221.8	10.53746	ppb
> Ho	165	594556.1		ppb
- Pb	208	777976	32.88188	ppb
- Kr	83	-1572.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 FH

Sample Da Wednesday, August 03, 2011 18:44:17

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	37564		ppb
- Be	9	8589.7	42.00281	ppb
- Sc	45	162968.3		ppb
- Cr	52	1306942.9	348.12093	ppb
- Cr	53	161422	281.40871	ppb
- Mn	55	2066395	386.0604	ppb
- Co	59	315769.7	58.84282	ppb
- Ni	60	334380.4	273.87996	ppb
- As	75	121278	120.41406	ppb
- Se	77	71317.3	1005.8116	ppb
- Se	82	97451.8	1076.1185	ppb
> Rh	103	300934.6		ppb
- Cd	111	68814.1	52.17189	ppb
- Cd	114	158547.3	52.15879	ppb
- Sb	121	282507.1	56.06694	ppb
- Sb	123	217069.1	52.67378	ppb
> Ho	165	598204.4		ppb
- Pb	208	1986286.7	83.64788	ppb
- Kr	83	-1494.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 FH

Sample Da Wednesday, August 03, 2011 18:46:28

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	34974.4		ppb
- Be	9	17.7	0.06471	ppb
- Sc	45	106891.1		ppb
- Cr	52	109288.3	27.17349	ppb
- Cr	53	25435.2	-1.14135	ppb
- Mn	55	185275.9	33.37184	ppb
- Co	59	3627.7	0.65692	ppb
- Ni	60	28024.5	22.42372	ppb
- As	75	8273.6	8.30157	ppb
- Se	77	9327.1	91.57494	ppb
- Se	82	9781.6	106.4961	ppb
> Rh	103	305215.3		ppb
- Cd	111	1232.6	0.90826	ppb
- Cd	114	2540.5	0.81679	ppb
- Sb	121	5925.6	1.2689	ppb
- Sb	123	4627.8	1.21075	ppb
> Ho	165	546614.8		ppb
- Pb	208	79339.6	3.52813	ppb
- Kr	83	-82.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 FH

Sample Da Wednesday, August 03, 2011 18:48:37

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	33597.3		ppb
Be	9	9049.2	49.50449	ppb
Sc	45	103147.9		ppb
Cr	52	299131.8	81.06302	ppb
Cr	53	49479	52.81855	ppb
Mn	55	462889.9	88.70934	ppb
Co	59	270811.3	52.13505	ppb
Ni	60	88107.1	74.37541	ppb
As	75	53859.5	55.35709	ppb
Se	77	12239.6	142.34512	ppb
Se	82	13801.1	157.46676	ppb
Rh	103	291303.6		ppb
Cd	111	65565.7	51.34432	ppb
Cd	114	153366.7	52.11711	ppb
Sb	121	240528.9	54.56156	ppb
Sb	123	183369.9	50.85689	ppb
Ho	165	523422.2		ppb
Pb	208	1204536.9	57.93557	ppb
Kr	83	-86		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-16 FH

Sample Da Wednesday, August 03, 2011 18:50:47

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	35557.9		ppb
Be	9	21.3	0.08183	ppb
Sc	45	105588.1		ppb
Cr	52	236536.1	60.92106	ppb
Cr	53	42666.2	34.2843	ppb
Mn	55	174704.8	31.50151	ppb
Co	59	8824.9	1.61616	ppb
Ni	60	69196.4	55.84174	ppb
As	75	18991.2	18.82461	ppb
Se	77	8055.9	73.44221	ppb
Se	82	7958.9	86.88167	ppb
Rh	103	304438.9		ppb
Cd	111	1405	1.03947	ppb
Cd	114	3030.6	0.97845	ppb
Sb	121	11884.1	2.51848	ppb
Sb	123	8999.8	2.32968	ppb
Ho	165	556652.3		ppb
Pb	208	129200.3	5.72379	ppb
Kr	83	-385		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-17 FH

Sample Da Wednesday, August 03, 2011 18:52:58

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	37785.8		ppb
Be	9	140.7	0.65615	ppb
Sc	45	174677.1		ppb
Cr	52	818975.9	200.10552	ppb
Cr	53	101031.5	139.59752	ppb
Mn	55	1747268.8	300.27933	ppb
Co	59	41720.6	7.14567	ppb
Ni	60	117634.6	88.52282	ppb
As	75	114584.3	104.7095	ppb
Se	77	30112.8	364.11223	ppb
Se	82	40073.4	407.27363	ppb
Rh	103	326949.2		ppb
Cd	111	8538.8	5.94601	ppb
Cd	114	9260.7	2.79666	ppb
Sb	121	186659.4	40.03131	ppb
Sb	123	143021	37.50259	ppb
Ho	165	553460		ppb
Pb	208	995305.6	45.2456	ppb
Kr	83	-72001.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 18:55:09

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	35889.4		ppb
- Be	9	5	-0.00314	ppb
- Sc	45	95983.4		ppb
- Cr	52	7532.2	0.28374	ppb
- Cr	53	21536.5	-9.68848	ppb
- Mn	55	5761.9	0.21572	ppb
- Co	59	84.3	0.00524	ppb
- Ni	60	390	0.08091	ppb
- As	75	-195.3	0.0314	ppb
- Se	77	3336.6	4.0207	ppb
- Se	82	38	0.41857	ppb
> Rh	103	309295.7		ppb
- Cd	111	28.7	0.00759	ppb
- Cd	114	31.1	0.00236	ppb
- Sb	121	212.3	0.02933	ppb
- Sb	123	168.5	0.0279	ppb
> Ho	165	527402.4		ppb
- Pb	208	3322.9	0.02473	ppb
- Kr	83	12.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 18:57:18

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	35626.1		ppb
- Be	9	18976.5	97.90011	ppb
- Sc	45	93036.3		ppb
- Cr	52	404677.3	107.17109	ppb
- Cr	53	68569.6	89.63026	ppb
- Mn	55	575669.9	107.4404	ppb
- Co	59	555634.6	104.02253	ppb
- Ni	60	125103.3	102.77786	ppb
- As	75	98460.3	98.22139	ppb
- Se	77	9713.9	99.83427	ppb
- Se	82	8813.2	97.76549	ppb
> Rh	103	299594.4		ppb
- Cd	111	135435.2	103.14227	ppb
- Cd	114	316892	104.72847	ppb
- Sb	121	474127.1	110.92842	ppb
- Sb	123	362598.3	103.72568	ppb
> Ho	165	507525		ppb
- Pb	208	2139977	106.25615	ppb
- Kr	83	-8169.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-18 FH

Sample Date: Wednesday, August 03, 2011 18:59:30

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	37573		ppb
- Be	9	26	0.09863	ppb
- Sc	45	119297.7		ppb
- Cr	52	92907.4	21.2303	ppb
- Cr	53	30195.4	4.51678	ppb
- Mn	55	58201.4	9.20256	ppb
- Co	59	4357.4	0.73804	ppb
- Ni	60	16144.3	11.95791	ppb
- As	75	20106.3	18.57039	ppb
- Se	77	11137.5	107.20333	ppb
- Se	82	11179.8	113.7018	ppb
> Rh	103	326828.9		ppb
- Cd	111	1255.5	0.86298	ppb
- Cd	114	1582.7	0.47195	ppb
- Sb	121	8555	1.77252	ppb
- Sb	123	6496	1.64392	ppb
> Ho	165	567550.8		ppb
- Pb	208	132660.2	5.76393	ppb
- Kr	83	-7237.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-19 FH

Sample Da Wednesday, August 03, 2011 19:01:40

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	44390.6		ppb
- Be	9	171.3	0.68067	ppb
- Sc	45	294418.1		ppb
- Cr	52	1046128.1	242.74716	ppb
- Cr	53	129879.7	181.81922	ppb
- Mn	55	781222.3	126.81836	ppb
- Co	59	32766.7	5.31912	ppb
- Ni	60	200744.8	143.38835	ppb
- As	75	42668.4	37.11885	ppb
- Se	77	8621.1	66.97795	ppb
- Se	82	11311.7	109.01259	ppb
> Rh	103	344814.1		ppb
- Cd	111	6228.2	4.10961	ppb
- Cd	114	11123.4	3.18575	ppb
- Sb	121	66254.3	11.31787	ppb
- Sb	123	51019.5	10.65456	ppb
> Ho	165	694120.1		ppb
- Pb	208	1137907.3	41.22409	ppb
- Kr	83	-2676.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 FH

Sample Da Wednesday, August 03, 2011 19:03:51

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	37758.6		ppb
- Be	9	10.3	0.02156	ppb
- Sc	45	139561.8		ppb
- Cr	52	103533.9	23.85371	ppb
- Cr	53	26125.5	-3.24322	ppb
- Mn	55	73200	11.78916	ppb
- Co	59	2743.7	0.46099	ppb
- Ni	60	23604.3	17.59052	ppb
- As	75	5785.5	5.49951	ppb
- Se	77	3706.1	6.47212	ppb
- Se	82	2218	22.56722	ppb
> Rh	103	326728.4		ppb
- Cd	111	1100.9	0.75529	ppb
- Cd	114	2027.7	0.60683	ppb
- Sb	121	20802.8	4.09775	ppb
- Sb	123	15833.1	3.8121	ppb
> Ho	165	600314.8		ppb
- Pb	208	2743532.1	115.19002	ppb
- Kr	83	-387		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 FH

Sample Da Wednesday, August 03, 2011 19:06:01

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	39839.7		ppb
- Be	9	11.3	0.02368	ppb
- Sc	45	143191.6		ppb
- Cr	52	102712.8	22.80618	ppb
- Cr	53	26875.7	-3.51883	ppb
- Mn	55	72714.4	11.28665	ppb
- Co	59	2754.1	0.44685	ppb
- Ni	60	23085.3	16.62012	ppb
- As	75	5681.9	5.23146	ppb
- Se	77	3740.1	5.25117	ppb
- Se	82	2238.2	22.0172	ppb
> Rh	103	337978.6		ppb
- Cd	111	1070.3	0.70921	ppb
- Cd	114	1996.6	0.57709	ppb
- Sb	121	20330.4	3.96018	ppb
- Sb	123	15600.8	3.71485	ppb
> Ho	165	606815.2		ppb
- Pb	208	2663186.6	110.60538	ppb
- Kr	83	-393.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 FH

Sample Da: Wednesday, August 03, 2011 19:08:10

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39094.8		ppb
- Be	9	9.7	0.01663	ppb
- Sc	45	104224.8		ppb
- Cr	52	134390.9	31.40196	ppb
- Cr	53	31563.7	7.02535	ppb
- Mn	55	71034.1	11.39296	ppb
- Co	59	3076.5	0.51709	ppb
- Ni	60	30279	22.58924	ppb
- As	75	4654.7	4.45977	ppb
- Se	77	3603	4.98951	ppb
- Se	82	2042.6	20.74442	ppb
> Rh	103	327318.7		ppb
- Cd	111	574.3	0.38686	ppb
- Cd	114	824.1	0.2417	ppb
- Sb	121	102294.4	20.40521	ppb
- Sb	123	79017.6	19.27135	ppb
> Ho	165	594951.4		ppb
- Pb	208	138438.6	5.73804	ppb
- Kr	83	-329.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 FH

Sample Da: Wednesday, August 03, 2011 19:10:20

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38038.1		ppb
- Be	9	9374.8	45.28718	ppb
- Sc	45	104787.2		ppb
- Cr	52	342372	83.50983	ppb
- Cr	53	56964.6	56.58632	ppb
- Mn	55	373869.1	64.21959	ppb
- Co	59	289934.5	50.20554	ppb
- Ni	60	94089.1	71.44349	ppb
- As	75	52664.8	48.71188	ppb
- Se	77	6602.7	46.53962	ppb
- Se	82	6092.1	62.51296	ppb
> Rh	103	323839.5		ppb
- Cd	111	68318.1	48.12809	ppb
- Cd	114	158257.5	48.37556	ppb
- Sb	121	347183	71.08904	ppb
- Sb	123	265140.1	66.37905	ppb
- Ho	165	579949.7		ppb
- Pb	208	1300820.1	56.46527	ppb
- Kr	83	-325.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-22 FH

Sample Da: Wednesday, August 03, 2011 19:12:31

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	43590.4		ppb
- Be	9	95.3	0.37325	ppb
- Sc	45	220399.8		ppb
- Cr	52	821986.7	191.41619	ppb
- Cr	53	102078	132.52485	ppb
- Mn	55	1452807.1	237.8255	ppb
- Co	59	24483.6	3.99366	ppb
- Ni	60	213973.1	153.66531	ppb
- As	75	48404.9	42.30819	ppb
- Se	77	4119.6	9.4366	ppb
- Se	82	5311.7	51.49115	ppb
> Rh	103	342966.5		ppb
- Cd	111	2870.1	1.89639	ppb
- Cd	114	4242.3	1.21756	ppb
- Sb	121	31794.2	5.33537	ppb
- Sb	123	24180.9	4.96044	ppb
> Ho	165	705317.7		ppb
- Pb	208	850535.6	30.29206	ppb
- Kr	83	-2424.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-23 FH

Sample Date: Wednesday, August 03, 2011 19:14:40

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
> Li	6	40879			ppb
- Be	9	271	1.19556		ppb
- Sc	45	192024.7			ppb
- Cr	52	854858.3	215.90364		ppb
- Cr	53	116948.1	153.18537		ppb
- Mn	55	1915602.2	304.61971		ppb
- Co	59	64652.2	10.24863		ppb
- Ni	60	277627.1	193.49978		ppb
- As	75	141036.1	119.18406		ppb
- Se	77	6583.7	38.7403		ppb
- Se	82	8610	80.94846		ppb
> Rh	103	353520.1			ppb
- Cd	111	5543.6	3.56493		ppb
- Cd	114	4202.1	1.16931		ppb
- Sb	121	47727	9.17165		ppb
- Sb	123	36444.5	8.56086		ppb
> Ho	165	618855.1			ppb
- Pb	208	1753344.4	71.59186		ppb
- Kr	83	-44391.2			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-24 FH

Sample Date: Wednesday, August 03, 2011 19:16:49

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
> Li	6	38798.1			ppb
- Be	9	272.7	1.26262		ppb
- Sc	45	418554.9			ppb
- Cr	52	882566.9	223.1374		ppb
- Cr	53	109974.9	163.73038		ppb
- Mn	55	3418831.2	808.20675		ppb
- Co	59	71784.9	12.71708		ppb
- Ni	60	118300.8	92.03661		ppb
- As	75	111109.1	104.96575		ppb
- Se	77	8361.5	73.32227		ppb
- Se	82	10714.9	112.5814		ppb
> Rh	103	316296.6			ppb
- Cd	111	11799.8	8.49903		ppb
- Cd	114	4719.6	1.46957		ppb
- Sb	121	28625.3	8.417		ppb
- Sb	123	21769.7	7.82477		ppb
> Ho	165	403008.8			ppb
- Pb	208	911137.4	56.91017		ppb
- Kr	83	-145903			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-25 FH

Sample Date: Wednesday, August 03, 2011 19:19:01

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
> Li	6	38551.6			ppb
- Be	9	18.7	0.06005		ppb
- Sc	45	133761.1			ppb
- Cr	52	88515	19.25675		ppb
- Cr	53	23611.6	-9.88145		ppb
- Mn	55	289628.5	47.07212		ppb
- Co	59	8023.2	1.31094		ppb
- Ni	60	125102.7	90.36748		ppb
- As	75	5345.9	4.89775		ppb
- Se	77	5869.6	32.54887		ppb
- Se	82	4843.6	47.25568		ppb
> Rh	103	340629.3			ppb
- Cd	111	1751.7	1.15986		ppb
- Cd	114	3508.2	1.01207		ppb
- Sb	121	8810.6	1.68485		ppb
- Sb	123	6667	1.55745		ppb
> Ho	165	614252.1			ppb
- Pb	208	114050.1	4.5505		ppb
- Kr	83	-429.8			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da: Wednesday, August 03, 2011 19:21:12

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	35477.3			ppb
Be	9	6.3	0.00397		ppb
Sc	45	98241			ppb
Cr	52	5605.4	-0.22003		ppb
Cr	53	16290.9	-20.29127		ppb
Mn	55	4365	-0.04038		ppb
Co	59	67.3	0.00213		ppb
Ni	60	290	0.00082		ppb
As	75	-72	0.14844		ppb
Se	77	2394.3	-9.50516		ppb
Se	82	-36.9	-0.38637		ppb
Rh	103	309580.1			ppb
Cd	111	21.6	0.00233		ppb
Cd	114	15.4	-0.00267		ppb
Sb	121	55.3	-0.00664		ppb
Sb	123	57.9	-0.00335		ppb
Ho	165	546996.6			ppb
Pb	208	2221.1	-0.03201		ppb
Kr	83	97			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da: Wednesday, August 03, 2011 19:23:21

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	33554.3			ppb
Be	9	18795.1	102.99344		ppb
Sc	45	91301.5			ppb
Cr	52	407517.7	113.05373		ppb
Cr	53	65269.8	89.11173		ppb
Mn	55	582748.9	113.89586		ppb
Co	59	553565.1	108.47824		ppb
Ni	60	125303.7	107.77783		ppb
As	75	98438.1	102.78082		ppb
Se	77	9082.5	96.77111		ppb
Se	82	8920.6	103.58063		ppb
Rh	103	286196.2			ppb
Cd	111	138187.6	110.16442		ppb
Cd	114	321480.3	111.20066		ppb
Sb	121	489523.3	112.59719		ppb
Sb	123	375643.3	105.639		ppb
Ho	165	516336.7			ppb
Pb	208	2339101.5	114.17127		ppb
Kr	83	-8371.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 FH

Sample Da: Wednesday, August 03, 2011 19:25:32

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	32799.7			ppb
Be	9	18	0.0727		ppb
Sc	45	113973.4			ppb
Cr	52	148958.4	39.66136		ppb
Cr	53	33565.2	18.98769		ppb
Mn	55	185528.3	35.17266		ppb
Co	59	52641.3	10.15893		ppb
Ni	60	350402.9	297.50693		ppb
As	75	3706.7	4.0274		ppb
Se	77	4965.7	31.99276		ppb
Se	82	3566.9	40.83085		ppb
Rh	103	290311.5			ppb
Cd	111	614.5	0.46955		ppb
Cd	114	1241.3	0.41583		ppb
Sb	121	31833	7.21482		ppb
Sb	123	24201.3	6.70518		ppb
Ho	165	522670.5			ppb
Pb	208	64982.9	3.00271		ppb
Kr	83	-253.3			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 FH

Sample Date: Wednesday, August 03, 2011 19:27:42

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	37193.8			ppb
Be	9	11.3	0.02713		ppb
Sc	45	123829.8			ppb
Cr	52	151511.7	35.3222		ppb
Cr	53	33873.3	10.92051		ppb
Mn	55	186045.7	30.94095		ppb
Co	59	53117.1	9.01978		ppb
Ni	60	353112.5	263.80222		ppb
As	75	3889.3	3.73468		ppb
Se	77	5106.8	24.79939		ppb
Se	82	3666.3	36.94609		ppb
Rh	103	329921.3			ppb
Cd	111	691.2	0.46447		ppb
Cd	114	1080	0.31666		ppb
Sb	121	32033.3	6.35182		ppb
Sb	123	24287.7	5.8866		ppb
Hg	165	597244.5			ppb
Pb	208	63921.1	2.56617		ppb
Kr	83	-273			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 FH

Sample Date: Wednesday, August 03, 2011 19:29:51

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	37285.1			ppb
Be	9	12	0.03048		ppb
Sc	45	113993.9			ppb
Cr	52	63573.5	13.92747		ppb
Cr	53	22515.9	-10.32851		ppb
Mn	55	73247	11.74081		ppb
Co	59	5296.9	0.89526		ppb
Ni	60	40956.1	30.55157		ppb
As	75	7351.5	6.90126		ppb
Se	77	6953	50.06252		ppb
Se	82	6388.5	64.69322		ppb
Rh	103	328207.8			ppb
Cd	111	620.5	0.41781		ppb
Cd	114	840.8	0.24612		ppb
Sb	121	3046.5	0.60123		ppb
Sb	123	2299.5	0.55362		ppb
Hg	165	583566.2			ppb
Pb	208	46825.2	1.89041		ppb
Kr	83	-528.1			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 FH

Sample Date: Wednesday, August 03, 2011 19:32:01

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	37169			ppb
Be	9	9432.6	46.62592		ppb
Sc	45	113444.3			ppb
Cr	52	265865.7	64.83849		ppb
Cr	53	47097.4	38.09273		ppb
Mn	55	375103.9	64.79739		ppb
Co	59	292684.7	50.95865		ppb
Ni	60	104978.4	80.17793		ppb
As	75	56307.5	52.35011		ppb
Se	77	9938.8	92.91153		ppb
Se	82	10767.1	111.08238		ppb
Rh	103	322100			ppb
Cd	111	69104.6	48.95291		ppb
Cd	114	159980.2	49.17377		ppb
Sb	121	250025.6	50.76206		ppb
Sb	123	192281.1	47.73336		ppb
Hg	165	584731.2			ppb
Pb	208	1213754.5	52.24456		ppb
Kr	83	-531.7			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-28 FH

Sample Da Wednesday, August 03, 2011 19:34:11

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	41757.7		ppb
Be	9	65.7	0.26068	ppb
Sc	45	145232.3		ppb
Cr	52	348318.8	83.47009	ppb
Cr	53	45062.1	32.17421	ppb
Mn	55	275080	46.19605	ppb
Co	59	22061.1	3.74385	ppb
Ni	60	76700.3	57.1775	ppb
As	75	50352.9	45.78339	ppb
Se	77	11521	111.08215	ppb
Se	82	15405.4	155.35302	ppb
Rh	103	329567.8		ppb
Cd	111	2798.4	1.92452	ppb
Cd	114	4219.7	1.28018	ppb
Sb	121	51408.3	9.18949	ppb
Sb	123	39334.5	8.59509	ppb
Ho	165	663143.5		ppb
Pb	208	12385608	471.1283	ppb
Kr	83	-8096.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-29 FH

Sample Da Wednesday, August 03, 2011 19:36:20

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	41442		ppb
Be	9	63.7	0.25264	ppb
Sc	45	316738.7		ppb
Cr	52	342401.1	88.51761	ppb
Cr	53	43766.5	36.14761	ppb
Mn	55	367893.3	66.93535	ppb
Co	59	18344.5	3.3532	ppb
Ni	60	71830.5	57.70401	ppb
As	75	36850.2	36.14959	ppb
Se	77	9440.2	92.90412	ppb
Se	82	12555.9	136.43679	ppb
Rh	103	305860.7		ppb
Cd	111	3955.5	2.93768	ppb
Cd	114	6508.9	2.0993	ppb
Sb	121	13889.6	2.62027	ppb
Sb	123	10714.1	2.46974	ppb
Ho	165	625082.7		ppb
Pb	208	1500309.8	60.42297	ppb
Kr	83	-5223.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-30 FH

Sample Da Wednesday, August 03, 2011 19:38:30

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	45013.6		ppb
Be	9	54	0.19162	ppb
Sc	45	299682.2		ppb
Cr	52	321412.7	77.04454	ppb
Cr	53	40600.1	23.86504	ppb
Mn	55	259869.1	43.67996	ppb
Co	59	17232.7	2.92821	ppb
Ni	60	84808.2	63.36928	ppb
As	75	57779.1	52.58865	ppb
Se	77	19856	223.60727	ppb
Se	82	26651.3	269.23297	ppb
Rh	103	328928.2		ppb
Cd	111	8631.8	6.11345	ppb
Cd	114	18566.8	5.58128	ppb
Sb	121	34575.6	6.15267	ppb
Sb	123	26458.5	5.75559	ppb
Ho	165	665372.4		ppb
Pb	208	270100.4	10.10804	ppb
Kr	83	-6769.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-31 FH

Sample Da Wednesday, August 03, 2011 19:40:39

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	43764.3			ppb
Be	9	12.3	0.02274		ppb
Sc	45	104249.7			ppb
Cr	52	20744	3.40773		ppb
Cr	53	3687.8	-46.09839		ppb
Mn	55	46533.2	7.14194		ppb
Co	59	433.7	0.06405		ppb
Ni	60	2116.2	1.35882		ppb
As	75	293.9	0.48595		ppb
Se	77	170.3	-41.45636		ppb
Se	82	31.1	0.32906		ppb
Rh	103	328712.4			ppb
Cd	111	132.6	0.07844		ppb
Cd	114	-352.6	-0.11372		ppb
Sb	121	68881.4	12.07026		ppb
Sb	123	52839.2	11.32099		ppb
Ho	165	676632.8			ppb
Pb	208	44370.2	1.52048		ppb
Kr	83	-88.4			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Da Wednesday, August 03, 2011 19:42:50

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	48257.9			ppb
Be	9	6.3	-0.00461		ppb
Sc	45	115657.7			ppb
Cr	52	32638.8	5.60624		ppb
Cr	53	5207.2	-44.08919		ppb
Mn	55	40736.5	5.52787		ppb
Co	59	1631.6	0.24211		ppb
Ni	60	11325.7	7.51369		ppb
As	75	158.2	0.34999		ppb
Se	77	206	-41.22341		ppb
Se	82	48.2	0.45529		ppb
Rh	103	360679.8			ppb
Cd	111	165.4	0.09121		ppb
Cd	114	302.4	0.07505		ppb
Sb	121	405779.3	65.55073		ppb
Sb	123	311166.1	61.46172		ppb
Ho	165	734908.6			ppb
Pb	208	59277.5	1.90083		ppb
Kr	83	30.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Da Wednesday, August 03, 2011 19:44:59

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	49299.7			ppb
Be	9	9202.3	34.28506		ppb
Sc	45	117406.4			ppb
Cr	52	264295.3	56.54389		ppb
Cr	53	33017.2	3.19206		ppb
Mn	55	407033.4	61.87008		ppb
Co	59	335603	51.45269		ppb
Ni	60	76121.4	51.10882		ppb
As	75	40345.7	33.10662		ppb
Se	77	2619	-12.04358		ppb
Se	82	3364.6	30.57698		ppb
Rh	103	365771.3			ppb
Cd	111	64531.3	40.25505		ppb
Cd	114	150640.4	40.77356		ppb
Sb	121	251206.6	40.00898		ppb
Sb	123	193174.3	37.61702		ppb
Ho	165	745320.3			ppb
Pb	208	1564430.5	52.82888		ppb
Kr	83	45.5			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 19:47:11

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38375.7		ppb
- Be	9	9.3	0.01594	ppb
- Sc	45	91397.3		ppb
- Cr	52	5577	-0.19417	ppb
- Cr	53	17625.7	-16.779	ppb
- Mn	55	4197.6	-0.05381	ppb
- Co	59	242.7	0.03449	ppb
- Ni	60	246.7	-0.03002	ppb
- As	75	-72.4	0.1488	ppb
- Se	77	2545.4	-6.51086	ppb
- Se	82	-3.9	-0.03261	ppb
> Rh	103	302617.6		ppb
- Cd	111	66.3	0.03617	ppb
- Cd	114	123.7	0.03247	ppb
- Sb	121	247.3	0.03806	ppb
- Sb	123	221.6	0.04345	ppb
> Ho	165	519615.2		ppb
- Pb	208	2567.8	-0.00959	ppb
- Kr	83	62.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 19:49:20

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35397.7		ppb
- Be	9	19501.6	101.25736	ppb
- Sc	45	83368.9		ppb
- Cr	52	387946.4	110.32746	ppb
- Cr	53	64812.2	91.71715	ppb
- Mn	55	556872.5	111.60187	ppb
- Co	59	541456.8	108.81332	ppb
- Ni	60	121409.9	107.09134	ppb
- As	75	95103.3	101.83639	ppb
- Se	77	9004.8	99.13598	ppb
- Se	82	8462.9	100.77146	ppb
> Rh	103	279075.8		ppb
- Cd	111	133884.9	109.462	ppb
- Cd	114	310489.9	110.14454	ppb
- Sb	121	460985.8	114.39671	ppb
- Sb	123	354265.5	107.49016	ppb
> Ho	165	478500		ppb
- Pb	208	2104076.3	110.82431	ppb
- Kr	83	-8089.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-1 BH

Sample Date: Wednesday, August 03, 2011 19:51:31

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35954.4		ppb
- Be	9	17.7	0.06177	ppb
- Sc	45	79892.3		ppb
- Cr	52	44335.9	15.59681	ppb
- Cr	53	13201.7	-13.24621	ppb
- Mn	55	86910.2	22.84777	ppb
- Co	59	15807.1	4.27765	ppb
- Ni	60	10272.1	12.02242	ppb
- As	75	23129.9	33.55848	ppb
- Se	77	16468.2	308.98388	ppb
- Se	82	23216.7	373.08678	ppb
> Rh	103	206776.2		ppb
- Cd	111	355.6	0.37862	ppb
- Cd	114	35.1	0.00875	ppb
- Sb	121	3823.5	1.43972	ppb
- Sb	123	2880.2	1.32451	ppb
> Ho	165	311390.3		ppb
- Pb	208	78977.9	6.26566	ppb
- Kr	83	951.4		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 BH

Sample Date: Wednesday, August 03, 2011 19:53:41

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mean Report Unit
> Li	6	34578.3		ppb
- Be	9	14	0.04549	ppb
- Sc	45	79531.2		ppb
- Cr	52	141747.7	54.21434	ppb
- Cr	53	21904.4	13.76084	ppb
- Mn	55	185217.5	50.24405	ppb
- Co	59	9128.9	2.49562	ppb
- Ni	60	22668.6	27.13259	ppb
- As	75	22649.8	33.27723	ppb
- Se	77	19805.6	385.45472	ppb
- Se	82	27457.5	446.53335	ppb
> Rh	103	204344.6		ppb
- Cd	111	358.5	0.38647	ppb
- Cd	114	-240.5	-0.12391	ppb
- Sb	121	3941.2	1.45157	ppb
- Sb	123	3000.6	1.3498	ppb
> Ho	165	318320.6		ppb
- Pb	208	69247.7	5.35408	ppb
- Kr	83	386.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-2 BH

Sample Date: Wednesday, August 03, 2011 19:55:50

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mean Report Unit
> Li	6	38395.1		ppb
- Be	9	12	0.02837	ppb
- Sc	45	86564.3		ppb
- Cr	52	144309.1	49.56073	ppb
- Cr	53	21138.9	4.99979	ppb
- Mn	55	187049.9	45.61057	ppb
- Co	59	9155.3	2.25242	ppb
- Ni	60	22823.3	24.57403	ppb
- As	75	22790.6	30.17759	ppb
- Se	77	19817.3	342.92987	ppb
- Se	82	27623.4	404.53813	ppb
> Rh	103	226939.6		ppb
- Cd	111	337.4	0.32555	ppb
- Cd	114	-8.7	-0.01226	ppb
- Sb	121	3945.2	1.31128	ppb
- Sb	123	2960.1	1.20146	ppb
> Ho	165	352292.7		ppb
- Pb	208	68243.5	4.7533	ppb
- Kr	83	422.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Date: Wednesday, August 03, 2011 19:58:00

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mean Report Unit
> Li	6	36915.3		ppb
- Be	9	11	0.02596	ppb
- Sc	45	80903.4		ppb
- Cr	52	60569.2	21.14687	ppb
- Cr	53	11180.5	-20.55081	ppb
- Mn	55	126483.6	32.50206	ppb
- Co	59	2344	0.60489	ppb
- Ni	60	9775.6	11.05007	ppb
- As	75	26578	37.2886	ppb
- Se	77	21251.8	396.43426	ppb
- Se	82	30044.3	466.94837	ppb
> Rh	103	213781.6		ppb
- Cd	111	347.5	0.35753	ppb
- Cd	114	-135.7	-0.07033	ppb
- Sb	121	4078.2	1.4846	ppb
- Sb	123	3062.4	1.36158	ppb
> Ho	165	322164.2		ppb
- Pb	208	31589	2.33965	ppb
- Kr	83	470.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da Wednesday, August 03, 2011 20:00:09

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	37127.4		ppb
Be	9	9904.7	49.00098	ppb
Sc	45	79379.6		ppb
Cr	52	212744.3	79.52879	ppb
Cr	53	29024.6	32.66528	ppb
Mn	55	348632.6	92.29065	ppb
Co	59	207985	55.25848	ppb
Ni	60	57618.8	67.11519	ppb
As	75	116480.3	164.76887	ppb
Se	77	27630.3	535.9986	ppb
Se	82	38732.7	609.72354	ppb
Rh	103	211061.1		ppb
Cd	111	31395.1	33.93972	ppb
Cd	114	72325.6	33.9251	ppb
Sb	121	166163.1	61.69128	ppb
Sb	123	126283.1	57.32527	ppb
Ho	165	319782.5		ppb
Pb	208	574967.3	45.23248	ppb
Kr	83	425		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-4 BH

Sample Da Wednesday, August 03, 2011 20:02:19

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	38536.2		ppb
Be	9	15.3	0.04537	ppb
Sc	45	86682.2		ppb
Cr	52	33968.4	9.66069	ppb
Cr	53	7564.5	-33.55698	ppb
Mn	55	69125.8	15.30489	ppb
Co	59	4664.9	1.07593	ppb
Ni	60	12485.9	12.53285	ppb
As	75	44073.8	54.64177	ppb
Se	77	60878.5	1073.2993	ppb
Se	82	82474.2	1135.3216	ppb
Rh	103	241360.6		ppb
Cd	111	1396.8	1.30771	ppb
Cd	114	2442.6	0.99563	ppb
Sb	121	25135.7	8.06772	ppb
Sb	123	19380.2	7.60488	ppb
Ho	165	369205.9		ppb
Pb	208	51686.6	3.39881	ppb
Kr	83	591.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-5 BH

Sample Da Wednesday, August 03, 2011 20:06:37

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	35226.4		ppb
Be	9	56	0.26282	ppb
Sc	45	86940.1		ppb
Cr	52	131121.7	43.34923	ppb
Cr	53	18672.2	-3.50537	ppb
Mn	55	2131204.1	510.91542	ppb
Co	59	19884.4	4.74111	ppb
Ni	60	63253.4	66.26294	ppb
As	75	31529.2	40.29887	ppb
Se	77	14277.2	225.69716	ppb
Se	82	19569.4	277.11025	ppb
Rh	103	234645		ppb
Cd	111	949.6	0.91033	ppb
Cd	114	1914.6	0.80024	ppb
Sb	121	5190.1	1.42267	ppb
Sb	123	4030.3	1.34959	ppb
Ho	165	427754.5		ppb
Pb	208	159930.8	9.29835	ppb
Kr	83	-52.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-6 BH

Sample Da Wednesday, August 03, 2011 20:08:49

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33063.1		ppb
- Be	9	8.3	0.01759	ppb
- Sc	45	80750.4		ppb
- Cr	52	48454.3	14.62388	ppb
- Cr	53	6175.4	-37.00259	ppb
- Mn	55	89477.2	20.22354	ppb
- Co	59	3065.9	0.70819	ppb
- Ni	60	33555.3	34.312	ppb
- As	75	2672.2	3.53453	ppb
- Se	77	3110.9	13.75393	ppb
- Se	82	4278.5	59.31665	ppb
> Rh	103	239676.2		ppb
- Cd	111	2359.6	2.23346	ppb
- Cd	114	5287.2	2.17617	ppb
- Sb	121	17892.6	3.93511	ppb
- Sb	123	13994.3	3.76015	ppb
> Ho	165	537442.5		ppb
- Pb	208	260942.4	12.12042	ppb
- Kr	83	-101.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-7 BH

Sample Da Wednesday, August 03, 2011 20:11:00

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35849.6		ppb
- Be	9	9	0.01756	ppb
- Sc	45	83319.3		ppb
- Cr	52	62373.5	21.02045	ppb
- Cr	53	10416	-23.76201	ppb
- Mn	55	51559.6	12.28757	ppb
- Co	59	2775.4	0.69275	ppb
- Ni	60	13257.3	14.54151	ppb
- As	75	16766.4	22.79158	ppb
- Se	77	9772.3	151.74465	ppb
- Se	82	15069.4	226.17414	ppb
> Rh	103	221349.9		ppb
- Cd	111	296.7	0.29258	ppb
- Cd	114	-245.6	-0.11741	ppb
- Sb	121	2512.7	0.83503	ppb
- Sb	123	1953.6	0.79284	ppb
> Ho	165	349545.8		ppb
- Pb	208	44356.9	3.06752	ppb
- Kr	83	727.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Wednesday, August 03, 2011 20:13:12

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35748.5		ppb
- Be	9	4.3	-0.00643	ppb
- Sc	45	82770.2		ppb
- Cr	52	4923.3	-0.2538	ppb
- Cr	53	9368.5	-32.11393	ppb
- Mn	55	3820.8	-0.06133	ppb
- Co	59	58.7	0.00176	ppb
- Ni	60	225	-0.03105	ppb
- As	75	120.6	0.34925	ppb
- Se	77	2041.2	-11.27865	ppb
- Se	82	-22.9	-0.26418	ppb
> Rh	103	278282.1		ppb
- Cd	111	19.7	0.00258	ppb
- Cd	114	20.5	-0.00031	ppb
- Sb	121	78	0.00144	ppb
- Sb	123	40.5	-0.00597	ppb
> Ho	165	461356.1		ppb
- Pb	208	1795.4	-0.03627	ppb
- Kr	83	101.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 20:15:21

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33171.7		ppb
- Be	9	18388.9	101.86186	ppb
- Sc	45	79148.4		ppb
- Cr	52	353880.4	111.57627	ppb
- Cr	53	52156.9	76.07849	ppb
- Mn	55	506348.4	112.49198	ppb
- Co	59	480140.3	106.95727	ppb
- Ni	60	109148	106.71516	ppb
- As	75	85595.5	101.59953	ppb
- Se	77	7837.7	94.09977	ppb
- Se	82	7622.7	100.61159	ppb
> Rh	103	251767		ppb
- Cd	111	118383	107.28836	ppb
- Cd	114	274418	107.91074	ppb
- Sb	121	421262.8	117.74443	ppb
- Sb	123	316711.7	108.23503	ppb
> Ho	165	424840.3		ppb
- Pb	208	1812907.4	107.53466	ppb
- Kr	83	-7343.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Date: Wednesday, August 03, 2011 20:17:32

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35455.9		ppb
- Be	9	13	0.04042	ppb
- Sc	45	79948		ppb
- Cr	52	35148.2	11.69282	ppb
- Cr	53	7616.2	-30.64423	ppb
- Mn	55	74767.7	19.0563	ppb
- Co	59	2469.7	0.64429	ppb
- Ni	60	7406	8.39671	ppb
- As	75	22569.6	32.0093	ppb
- Se	77	16046.8	291.90525	ppb
- Se	82	23485.2	368.48189	ppb
> Rh	103	211828.5		ppb
- Cd	111	1293.5	1.37947	ppb
- Cd	114	2179.4	1.01064	ppb
- Sb	121	5112.8	1.83564	ppb
- Sb	123	3916	1.71778	ppb
> Ho	165	327469		ppb
- Pb	208	55165.3	4.11691	ppb
- Kr	83	865.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Date: Wednesday, August 03, 2011 20:19:42

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35856		ppb
- Be	9	9.3	0.0191	ppb
- Sc	45	80081.4		ppb
- Cr	52	35479.8	11.68156	ppb
- Cr	53	7298.3	-31.8272	ppb
- Mn	55	76212.5	19.23823	ppb
- Co	59	2386	0.61539	ppb
- Ni	60	7680.6	8.62404	ppb
- As	75	22354.5	31.37847	ppb
- Se	77	16242.5	292.45709	ppb
- Se	82	23647	367.27469	ppb
> Rh	103	213966.1		ppb
- Cd	111	1339.1	1.41432	ppb
- Cd	114	2236.8	1.02588	ppb
- Sb	121	5159.1	1.87887	ppb
- Sb	123	3959.6	1.78175	ppb
> Ho	165	322976.5		ppb
- Pb	208	53294.8	4.02962	ppb
- Kr	83	744		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Date: Wednesday, August 03, 2011 20:21:51

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36111.8		ppb
- Be	9	10.3	0.02369	ppb
- Sc	45	77693		ppb
- Cr	52	38702.9	12.81946	ppb
- Cr	53	7835.7	-30.38322	ppb
- Mn	55	46669.8	11.39366	ppb
- Co	59	1794.2	0.45771	ppb
- Ni	60	7892.3	8.5917	ppb
- As	75	24966.5	34.84982	ppb
- Se	77	19446.4	356.67656	ppb
- Se	82	27808.2	429.66033	ppb
> Rh	103	215075.8		ppb
- Cd	111	204.1	0.20292	ppb
- Cd	114	-221.7	-0.10934	ppb
- Sb	121	3006.2	1.10977	ppb
- Sb	123	2217.3	0.99901	ppb
> Ho	165	316395.5		ppb
- Pb	208	59323.6	4.59657	ppb
- Kr	83	630.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Date: Wednesday, August 03, 2011 20:24:01

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	35674.3		ppb
- Be	9	9865	50.79942	ppb
- Sc	45	76666.9		ppb
- Cr	52	186345.2	69.83176	ppb
- Cr	53	25460.9	22.53163	ppb
- Mn	55	266892.1	70.7791	ppb
- Co	59	206533.1	55.15501	ppb
- Ni	60	55731.7	65.25042	ppb
- As	75	117338.3	166.82299	ppb
- Se	77	25773.8	499.81203	ppb
- Se	82	36837.8	582.84465	ppb
> Rh	103	210012		ppb
- Cd	111	33037.8	35.89605	ppb
- Cd	114	75657.2	35.67165	ppb
- Sb	121	168220.8	64.2696	ppb
- Sb	123	128773.2	60.15156	ppb
> Ho	165	310785.8		ppb
- Pb	208	591203.3	47.86938	ppb
- Kr	83	585.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-10 BH

Sample Date: Wednesday, August 03, 2011 20:26:10

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	37206.6		ppb
- Be	9	19	0.06649	ppb
- Sc	45	84322.4		ppb
- Cr	52	27428	7.54151	ppb
- Cr	53	6439.3	-36.3521	ppb
- Mn	55	56485.6	12.44358	ppb
- Co	59	2851.1	0.65743	ppb
- Ni	60	14729.9	14.92809	ppb
- As	75	13016.9	16.40681	ppb
- Se	77	8810.9	119.04295	ppb
- Se	82	12297.2	170.47064	ppb
> Rh	103	239693.8		ppb
- Cd	111	3607.7	3.42166	ppb
- Cd	114	8258.5	3.40409	ppb
- Sb	121	9795.3	3.32007	ppb
- Sb	123	7416.8	3.07248	ppb
> Ho	165	348492.2		ppb
- Pb	208	56067	3.92533	ppb
- Kr	83	464.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-11 BH

Sample Da Wednesday, August 03, 2011 20:28:19

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	37678.1			ppb
- Be	9	7.3	0.00692		ppb
- Sc	45	88320.5			ppb
- Cr	52	39951.3	11.65251		ppb
- Cr	53	7728	-33.14648		ppb
- Mn	55	120767.4	27.34796		ppb
- Co	59	2998.2	0.68607		ppb
- Ni	60	18510.2	18.67583		ppb
- As	75	25589.2	31.79159		ppb
- Se	77	29524.5	497.75444		ppb
- Se	82	40816.9	561.69295		ppb
> Rh	103	241470.6			ppb
- Cd	111	3092.3	2.90821		ppb
- Cd	114	6959.3	2.84664		ppb
- Sb	121	14644.8	4.78202		ppb
- Sb	123	11237.5	4.48555		ppb
> Ho	165	362263.8			ppb
- Pb	208	50887.1	3.40979		ppb
- Kr	83	477.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-12 BH

Sample Da Wednesday, August 03, 2011 20:30:29

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	33208.1			ppb
- Be	9	5.3	0.0008		ppb
- Sc	45	73881			ppb
- Cr	52	23369.7	7.39204		ppb
- Cr	53	6118.1	-34.72346		ppb
- Mn	55	51659.1	13.1871		ppb
- Co	59	1913.9	0.50688		ppb
- Ni	60	8564.4	9.94685		ppb
- As	75	24453	35.32206		ppb
- Se	77	21984.9	425.33173		ppb
- Se	82	30325.2	485.34904		ppb
> Rh	103	207590.3			ppb
- Cd	111	713.5	0.77017		ppb
- Cd	114	1470.7	0.69315		ppb
- Sb	121	7158.2	2.85027		ppb
- Sb	123	5457.8	2.65583		ppb
> Ho	165	296339.8			ppb
- Pb	208	30897.7	2.49639		ppb
- Kr	83	574.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-13 BH

Sample Da Wednesday, August 03, 2011 20:32:38

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	37394.6			ppb
- Be	9	17.3	0.05584		ppb
- Sc	45	84032			ppb
- Cr	52	76550.6	25.69955		ppb
- Cr	53	12126.8	-19.53063		ppb
- Mn	55	95243.7	22.98718		ppb
- Co	59	2634.4	0.6457		ppb
- Ni	60	10266.5	11.01238		ppb
- As	75	29253.9	38.9511		ppb
- Se	77	21319.6	375.38701		ppb
- Se	82	29464.7	434.61311		ppb
> Rh	103	225295.4			ppb
- Cd	111	498.7	0.49149		ppb
- Cd	114	251	0.1036		ppb
- Sb	121	16154.3	5.55631		ppb
- Sb	123	12184.1	5.12254		ppb
> Ho	165	344134.5			ppb
- Pb	208	88421.4	6.34856		ppb
- Kr	83	-332.5			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Da: Wednesday, August 03, 2011 20:34:47

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	38642.1		ppb
Be	9	15.3	0.04456	ppb
Sc	45	85038.3		ppb
Cr	52	81394.9	27.98929	ppb
Cr	53	12427.5	-18.04341	ppb
Mn	55	86186.4	21.1346	ppb
Co	59	5003.4	1.25934	ppb
Ni	60	8348.2	9.08428	ppb
As	75	57267	77.42624	ppb
Se	77	64142.2	1241.3407	ppb
Se	82	88204.6	1325.8215	ppb
Rh	103	221032.7		ppb
Cd	111	871.4	0.8862	ppb
Cd	114	174.4	0.06962	ppb
Sb	121	9227.7	3.28309	ppb
Sb	123	6902.4	3.00038	ppb
Ho	165	331938		ppb
Pb	208	47155.2	3.45058	ppb
Kr	83	-333.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Da: Wednesday, August 03, 2011 20:36:56

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	38891.8		ppb
Be	9	26	0.09371	ppb
Sc	45	85721.4		ppb
Cr	52	82396.9	28.32563	ppb
Cr	53	12567	-17.6844	ppb
Mn	55	87317	21.40472	ppb
Co	59	5205.2	1.30903	ppb
Ni	60	8389.2	9.12241	ppb
As	75	56400	76.25663	ppb
Se	77	65690.2	1271.1901	ppb
Se	82	89510.9	1344.4698	ppb
Rh	103	221260.8		ppb
Cd	111	819.3	0.8312	ppb
Cd	114	294.4	0.12288	ppb
Sb	121	9365.8	3.32011	ppb
Sb	123	7155.2	3.09959	ppb
Ho	165	333144.5		ppb
Pb	208	46704.2	3.40284	ppb
Kr	83	-317.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da: Wednesday, August 03, 2011 20:39:07

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	37089.3		ppb
Be	9	3	-0.01386	ppb
Sc	45	83940.4		ppb
Cr	52	4948.7	-0.22542	ppb
Cr	53	9227.3	-32.12574	ppb
Mn	55	3859.5	-0.04198	ppb
Co	59	72.3	0.00473	ppb
Ni	60	307	0.04561	ppb
As	75	-56.7	0.15771	ppb
Se	77	2220.3	-7.90671	ppb
Se	82	5.3	0.07413	ppb
Rh	103	274268.2		ppb
Cd	111	17.3	0.00084	ppb
Cd	114	31.5	0.00377	ppb
Sb	121	64.3	-0.00086	ppb
Sb	123	45.8	-0.00324	ppb
Ho	165	429841.9		ppb
Pb	208	1591.7	-0.04098	ppb
Kr	83	112.6		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date Wednesday, August 03, 2011 20:41:16

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	34127.6	ppb
-	Be	9	19002.8	102.33009 ppb
-	Sc	45	79717.7	ppb
-	Cr	52	358587.4	115.13585 ppb
-	Cr	53	52011	78.03796 ppb
-	Mn	55	506272.6	114.50473 ppb
-	Co	59	485773.2	110.13957 ppb
-	Ni	60	108989.2	108.46668 ppb
-	As	75	85728.3	103.57598 ppb
-	Se	77	7797.7	95.88202 ppb
-	Se	82	7523.8	101.08 ppb
>	Rh	103	247375.5	ppb
-	Cd	111	116749	107.69491 ppb
-	Cd	114	268581.1	107.49116 ppb
-	Sb	121	403563.3	121.84895 ppb
-	Sb	123	310388.5	114.59601 ppb
>	Ho	165	393267	ppb
-	Pb	208	1626400.8	104.21271 ppb
-	Kr	83	-7295.7	mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Date Wednesday, August 03, 2011 20:47:45

Sample Description Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	32579.5	ppb
-	Be	9	22.7	0.09883 ppb
-	Sc	45	68853.5	ppb
-	Cr	52	75068.7	32.32278 ppb
-	Cr	53	11962.5	-11.15846 ppb
-	Mn	55	89179.7	27.40941 ppb
-	Co	59	2193.3	0.68129 ppb
-	Ni	60	8253.7	11.21457 ppb
-	As	75	34216.8	57.58261 ppb
-	Se	77	28324.1	661.19917 ppb
-	Se	82	39369.7	735.33378 ppb
>	Rh	103	177904.2	ppb
-	Cd	111	361.6	0.45053 ppb
-	Cd	114	56.7	0.02321 ppb
-	Sb	121	3825.5	1.71267 ppb
-	Sb	123	2950.3	1.61377 ppb
>	Ho	165	262421.6	ppb
-	Pb	208	9508.6	0.77983 ppb
-	Kr	83	-43.1	mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Date Wednesday, August 03, 2011 20:49:54

Sample Description Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
>	Li	6	35991.8	ppb
-	Be	9	10347.6	52.82961 ppb
-	Sc	45	78339.3	ppb
-	Cr	52	216467.3	87.53954 ppb
-	Cr	53	28716.3	38.49891 ppb
-	Mn	55	296062.9	84.48839 ppb
-	Co	59	195630.9	56.10875 ppb
-	Ni	60	53707.7	67.52161 ppb
-	As	75	122798.7	187.51238 ppb
-	Se	77	34362.8	734.71433 ppb
-	Se	82	48142.8	818.15828 ppb
>	Rh	103	195502.5	ppb
-	Cd	111	30408	35.48295 ppb
-	Cd	114	70017.4	35.45649 ppb
-	Sb	121	160519.1	65.87729 ppb
-	Sb	123	122334.6	61.38679 ppb
>	Ho	165	289343.5	ppb
-	Pb	208	486030.2	42.25975 ppb
-	Kr	83	-53.5	mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da: Wednesday, August 03, 2011 20:52:04

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	33485			ppb
Be	9	21.7	0.09165		ppb
Sc	45	77097.9			ppb
Cr	52	23472.9	6.5655		ppb
Cr	53	9944.4	-26.08535		ppb
Mn	55	25817.3	5.50689		ppb
Co	59	1174.8	0.27811		ppb
Ni	60	2321.6	2.26598		ppb
As	75	6574.4	8.76781		ppb
Se	77	8080.3	112.21234		ppb
Se	82	8736.5	126.5617		ppb
Rh	103	229433.1			ppb
Cd	111	201.5	0.18722		ppb
Cd	114	177.7	0.06939		ppb
Sb	121	1307.1	0.42369		ppb
Sb	123	987.5	0.38995		ppb
Ho	165	350716.8			ppb
Pb	208	5179.9	0.23802		ppb
Kr	83	-31.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da: Wednesday, August 03, 2011 20:54:12

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	38112			ppb
Be	9	10054.6	48.46488		ppb
Sc	45	86835.4			ppb
Cr	52	196024.9	57.79113		ppb
Cr	53	30746.9	19.08736		ppb
Mn	55	278509.3	58.26309		ppb
Co	59	242925.8	51.29412		ppb
Ni	60	58691.6	54.28376		ppb
As	75	87392	98.33853		ppb
Se	77	15270.2	210.8829		ppb
Se	82	18282.7	228.77741		ppb
Rh	103	265588.9			ppb
Cd	111	50693.3	43.54349		ppb
Cd	114	117431.1	43.77309		ppb
Sb	121	202924.6	59.85841		ppb
Sb	123	155298.8	55.82338		ppb
Ho	165	403844.8			ppb
Pb	208	711999.9	44.35125		ppb
Kr	83	-36.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-16 BH

Sample Da: Wednesday, August 03, 2011 20:56:22

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	38173.5			ppb
Be	9	15.7	0.0476		ppb
Sc	45	84408			ppb
Cr	52	47985	15.13257		ppb
Cr	53	8662.1	-29.81472		ppb
Mn	55	55568.7	12.77772		ppb
Co	59	3401.3	0.81925		ppb
Ni	60	11142.2	11.71453		ppb
As	75	45760.6	59.57259		ppb
Se	77	56370.9	1041.6574		ppb
Se	82	78379.1	1132.3563		ppb
Rh	103	230027.5			ppb
Cd	111	1194.8	1.17225		ppb
Cd	114	2662.1	1.14679		ppb
Sb	121	1660.8	0.55377		ppb
Sb	123	1337	0.54478		ppb
Ho	165	344655.4			ppb
Pb	208	143981.1	10.40655		ppb
Kr	83	585.6			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-17 BH

Sample Da: Wednesday, August 03, 2011 21:00:40

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	38427.9			ppb
Be	9	7	0.00437		ppb
Sc	45	84771			ppb
Cr	52	28626.7	8.46052		ppb
Cr	53	6224.8	-36.02778		ppb
Mn	55	88270.4	21.02562		ppb
Co	59	4112.6	1.00363		ppb
Ni	60	5663.4	5.91054		ppb
As	75	66823.3	87.77784		ppb
Se	77	65681.1	1235.1344		ppb
Se	82	90167	1317.0593		ppb
Rh	103	227492.4			ppb
Cd	111	260	0.24716		ppb
Cd	114	363.6	0.15087		ppb
Sb	121	1148.1	0.38491		ppb
Sb	123	859.1	0.3506		ppb
Ho	165	337722.9			ppb
Pb	208	53736.4	3.88112		ppb
Kr	83	629.1			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da: Wednesday, August 03, 2011 21:05:02

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	35771.1			ppb
Be	9	3	-0.01323		ppb
Sc	45	84165.5			ppb
Cr	52	5328.6	-0.08524		ppb
Cr	53	10451.3	-28.91619		ppb
Mn	55	3648.4	-0.0717		ppb
Co	59	71.7	0.00485		ppb
Ni	60	284.3	0.02974		ppb
As	75	-48.7	0.16875		ppb
Se	77	2389.3	-4.46489		ppb
Se	82	-20.9	-0.24592		ppb
Rh	103	269345			ppb
Cd	111	22.2	0.00522		ppb
Cd	114	23.7	0.00112		ppb
Sb	121	53.3	-0.00342		ppb
Sb	123	40.9	-0.00444		ppb
Ho	165	415887.2			ppb
Pb	208	1956.7	-0.01573		ppb
Kr	83	97.1			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da: Wednesday, August 03, 2011 21:07:11

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report	Unit
Li	6	33694.4			ppb
Be	9	18883.9	102.9994		ppb
Sc	45	80034.5			ppb
Cr	52	360625.7	114.34274		ppb
Cr	53	53433.6	79.94107		ppb
Mn	55	514207.9	114.85719		ppb
Co	59	498050.5	111.53154		ppb
Ni	60	112313.1	110.39913		ppb
As	75	88329.9	105.39299		ppb
Se	77	8220	101.60568		ppb
Se	82	7829.3	103.88637		ppb
Rh	103	250439.8			ppb
Cd	111	118625.6	108.07222		ppb
Cd	114	273381.1	108.06804		ppb
Sb	121	411897.2	123.80851		ppb
Sb	123	314035.7	115.42128		ppb
Ho	165	395053.1			ppb
Pb	208	1620624.8	103.37879		ppb
Kr	83	-7476.9			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-18 BH

Sample Date: Wednesday, August 03, 2011 21:09:23

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
> Li	6	37519.4		ppb
- Be	9	15.3	0.04665	ppb
- Sc	45	83641.5		ppb
- Cr	52	29862.3	9.58466	ppb
- Cr	53	6884.6	-32.98726	ppb
- Mn	55	76396.7	19.32354	ppb
- Co	59	5948	1.55022	ppb
- Ni	60	7552.1	8.48977	ppb
- As	75	85136.9	119.03996	ppb
- Se	77	78474.1	1582.9895	ppb
- Se	82	105837.2	1646.2861	ppb
> Rh	103	213616.1		ppb
- Cd	111	540	0.56393	ppb
- Cd	114	675.7	0.30588	ppb
- Sb	121	2041.9	0.7466	ppb
- Sb	123	1543.4	0.68846	ppb
> Ho	165	317130.6		ppb
- Pb	208	25103.8	1.86359	ppb
- Kr	83	801.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-19 BH

Sample Date: Wednesday, August 03, 2011 21:13:41

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
> Li	6	36695.6		ppb
- Be	9	9.3	0.01863	ppb
- Sc	45	76649.5		ppb
- Cr	52	36904.8	13.11509	ppb
- Cr	53	7421	-30.0714	ppb
- Mn	55	54568.6	14.46515	ppb
- Co	59	2339.3	0.64286	ppb
- Ni	60	9874	11.86923	ppb
- As	75	18333.8	27.41283	ppb
- Se	77	9087.2	156.53254	ppb
- Se	82	13912.7	230.04139	ppb
> Rh	103	200968.2		ppb
- Cd	111	1631.3	1.83874	ppb
- Cd	114	3103.1	1.51912	ppb
- Sb	121	7025.7	2.77902	ppb
- Sb	123	5332.1	2.57746	ppb
> Ho	165	298275.4		ppb
- Pb	208	44480.4	3.62856	ppb
- Kr	83	696.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 BH

Sample Date: Wednesday, August 03, 2011 21:15:51

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
> Li	6	35640.1		ppb
- Be	9	4	-0.00796	ppb
- Sc	45	76290.4		ppb
- Cr	52	25704.6	8.33633	ppb
- Cr	53	5959.6	-35.13444	ppb
- Mn	55	61442	15.90712	ppb
- Co	59	1685.8	0.44705	ppb
- Ni	60	4533.1	5.17734	ppb
- As	75	31744.2	46.0054	ppb
- Se	77	33184.8	666.95317	ppb
- Se	82	45856.6	736.92686	ppb
> Rh	103	206780.8		ppb
- Cd	111	3510.3	3.86138	ppb
- Cd	114	7931.7	3.79065	ppb
- Sb	121	2059.6	0.78703	ppb
- Sb	123	1555	0.72505	ppb
> Ho	165	303560.5		ppb
- Pb	208	46694.1	3.74659	ppb
- Kr	83	569.4		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 BH

Sample Da: Wednesday, August 03, 2011 21:18:00

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	37928.8		ppb
Be	9	5.3	-0.00282	ppb
Sc	45	80291.1		ppb
Cr	52	25487.7	7.73042	ppb
Cr	53	5921.9	-36.18304	ppb
Mn	55	62436.4	15.28271	ppb
Co	59	1815.2	0.45611	ppb
Ni	60	4616.2	4.9874	ppb
As	75	30623.6	42.06313	ppb
Se	77	33133.6	628.63407	ppb
Se	82	46304.7	705.03564	ppb
Rh	103	218255.4		ppb
Cd	111	3601.1	3.75207	ppb
Cd	114	7993.7	3.61929	ppb
Sb	121	2096.9	0.75474	ppb
Sb	123	1543.4	0.67761	ppb
Ho	165	321936.2		ppb
Pb	208	47733.2	3.60736	ppb
Kr	83	608.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 B H

Sample Da: Wednesday, August 03, 2011 21:24:27

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	38124.6		ppb
Be	9	6.7	0.00404	ppb
Sc	45	83247.9		ppb
Cr	52	31723.3	9.6236	ppb
Cr	53	6923	-34.00119	ppb
Mn	55	68660.4	16.27218	ppb
Co	59	1811.5	0.43933	ppb
Ni	60	7401	7.84149	ppb
As	75	41895	55.48135	ppb
Se	77	46159.9	860.23744	ppb
Se	82	62436	917.44252	ppb
Rh	103	226187.5		ppb
Cd	111	1741.6	1.74434	ppb
Cd	114	3161.4	1.37713	ppb
Sb	121	3153.5	1.08967	ppb
Sb	123	2376.4	1.00266	ppb
Ho	165	337908.8		ppb
Pb	208	52741.3	3.80485	ppb
Kr	83	286.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 BH

Sample Da: Wednesday, August 03, 2011 21:26:37

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	38277.9		ppb
Be	9	9970.5	47.84522	ppb
Sc	45	83050.8		ppb
Cr	52	195302.6	68.01655	ppb
Cr	53	25987.4	18.66586	ppb
Mn	55	309289.2	76.35057	ppb
Co	59	222790.6	55.33981	ppb
Ni	60	58115.5	63.27491	ppb
As	75	132255.6	174.87394	ppb
Se	77	53954	1014.6023	ppb
Se	82	72446.2	1066.1386	ppb
Rh	103	225784.9		ppb
Cd	111	35080.5	35.44452	ppb
Cd	114	80271.4	35.1979	ppb
Sb	121	172847.1	60.66823	ppb
Sb	123	130780	56.11895	ppb
Ho	165	338293.1		ppb
Pb	208	638990.4	47.53168	ppb
Kr	83	288.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 B H

Sample Date: Wednesday, August 03, 2011 21:28:46

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	37063.8		ppb
- Be	9	22.7	0.08468	ppb
- Sc	45	84389.6		ppb
- Cr	52	12112.1	2.00414	ppb
- Cr	53	8785.9	-32.42826	ppb
- Mn	55	19321.5	3.274	ppb
- Co	59	851.4	0.17002	ppb
- Ni	60	2063.6	1.69045	ppb
- As	75	8598.2	9.89862	ppb
- Se	77	11453.2	147.68781	ppb
- Se	82	13053.2	163.71505	ppb
> Rh	103	264957.5		ppb
- Cd	111	613	0.51432	ppb
- Cd	114	1332.9	0.49036	ppb
- Sb	121	1091.4	0.30919	ppb
- Sb	123	805.2	0.27709	ppb
> Ho	165	397322.6		ppb
- Pb	208	15754.3	0.86759	ppb
- Kr	83	87.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 BH

Sample Date: Wednesday, August 03, 2011 21:30:55

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38918.1		ppb
- Be	9	10085.6	47.60722	ppb
- Sc	45	89420.6		ppb
- Cr	52	193444.2	54.07235	ppb
- Cr	53	30695.7	15.36389	ppb
- Mn	55	285359	56.68153	ppb
- Co	59	256801.9	51.51381	ppb
- Ni	60	60322.1	52.99793	ppb
- As	75	85897	91.84469	ppb
- Se	77	18484.4	249.04905	ppb
- Se	82	22584.7	268.46317	ppb
> Rh	103	279559.2		ppb
- Cd	111	52900	43.16991	ppb
- Cd	114	123159.6	43.81264	ppb
- Sb	121	205083.5	58.96263	ppb
- Sb	123	157216.1	55.27241	ppb
> Ho	165	413058.4		ppb
- Pb	208	767485.7	46.75986	ppb
- Kr	83	96.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 21:33:07

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36028.4		ppb
- Be	9	5.3	-0.00128	ppb
- Sc	45	84891.9		ppb
- Cr	52	5961.6	0.11137	ppb
- Cr	53	11342.1	-26.74598	ppb
- Mn	55	3775.5	-0.04186	ppb
- Co	59	157	0.02284	ppb
- Ni	60	287	0.03351	ppb
- As	75	53.9	0.27956	ppb
- Se	77	2614.7	-0.80299	ppb
- Se	82	-7.1	-0.07674	ppb
> Rh	103	268306.4		ppb
- Cd	111	33.6	0.01506	ppb
- Cd	114	55	0.01276	ppb
- Sb	121	101.3	0.01002	ppb
- Sb	123	89	0.01207	ppb
> Ho	165	419916		ppb
- Pb	208	2153.8	-0.00501	ppb
- Kr	83	76.6		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 21:35:17

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report	Unit
Li	6	34113.7			ppb
Be	9	19306.8	104.00551		ppb
Sc	45	80659			ppb
Cr	52	363220.1	114.3661		ppb
Cr	53	53632.1	79.50718		ppb
Mn	55	516020.6	114.44444		ppb
Co	59	497470.9	110.61443		ppb
Ni	60	112416.7	109.70806		ppb
As	75	88227.2	104.52192		ppb
Se	77	8335.5	102.63364		ppb
Se	82	7829.4	103.17731		ppb
Rh	103	252221.9			ppb
Cd	111	118346.5	107.06716		ppb
Cd	114	272643.1	107.02824		ppb
Sb	121	407108.5	122.33153		ppb
Sb	123	310154.7	113.93196		ppb
Ho	165	395302.7			ppb
Pb	208	1631905.8	104.01567		ppb
Kr	83	-7487.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-22 BH

Sample Date: Wednesday, August 03, 2011 21:37:29

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report	Unit
Li	6	38960.4			ppb
Be	9	5	-0.00431		ppb
Sc	45	87069.4			ppb
Cr	52	50336	16.054		ppb
Cr	53	8909.7	-28.7927		ppb
Mn	55	52475.4	12.09218		ppb
Co	59	2419.3	0.58249		ppb
Ni	60	11354.4	12.00809		ppb
As	75	69810.6	91.20445		ppb
Se	77	49055	906.11091		ppb
Se	82	67020.1	973.66483		ppb
Rh	103	228771.4			ppb
Cd	111	189.3	0.17508		ppb
Cd	114	329	0.13442		ppb
Sb	121	1394.1	0.45282		ppb
Sb	123	1080.6	0.42819		ppb
Ho	165	351262.4			ppb
Pb	208	31789.6	2.14938		ppb
Kr	83	730.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-23 BH

Sample Date: Wednesday, August 03, 2011 21:41:48

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report	Unit
Li	6	35060.1			ppb
Be	9	7	0.00762		ppb
Sc	45	80881.8			ppb
Cr	52	43308.6	15.22504		ppb
Cr	53	7951.8	-29.06991		ppb
Mn	55	83835.3	22.04898		ppb
Co	59	3485.7	0.93621		ppb
Ni	60	10228.1	11.98869		ppb
As	75	109799.4	158.78526		ppb
Se	77	99475.4	2090.6082		ppb
Se	82	134878.8	2170.9887		ppb
Rh	103	206442.5			ppb
Cd	111	647.7	0.70344		ppb
Cd	114	479.2	0.22141		ppb
Sb	121	5454	2.06748		ppb
Sb	123	4134.6	1.91489		ppb
Ho	165	310488.9			ppb
Pb	208	59364.8	4.68996		ppb
Kr	83	732.1			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-24 BH

Sample Da Wednesday, August 03, 2011 21:46:06

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	34711		ppb
Be	9	3.7	-0.00932	ppb
Sc	45	74060.9		ppb
Cr	52	34161.8	12.62049	ppb
Cr	53	6936.3	-30.63414	ppb
Mn	55	57430.9	15.97717	ppb
Co	59	2293.3	0.65819	ppb
Ni	60	9054.8	11.37423	ppb
As	75	109706.6	170.22215	ppb
Se	77	107730.5	2434.7569	ppb
Se	82	147395.3	2544.5065	ppb
Rh	103	192478.7		ppb
Cd	111	240.7	0.27202	ppb
Cd	114	342.2	0.16847	ppb
Sb	121	1232.8	0.50648	ppb
Sb	123	924.3	0.46268	ppb
Ho	165	278841.9		ppb
Pb	208	27613	2.36418	ppb
Kr	83	861.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-25 BH

Sample Da Wednesday, August 03, 2011 21:50:27

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	45239.4		ppb
Be	9	13	0.02453	ppb
Sc	45	109260.6		ppb
Cr	52	129414.6	32.52107	ppb
Cr	53	16056.8	-20.24112	ppb
Mn	55	287517.8	52.31431	ppb
Co	59	7625.5	1.39299	ppb
Ni	60	29343.3	23.51893	ppb
As	75	10052.3	10.05431	ppb
Se	77	14685.5	169.71083	ppb
Se	82	19848.5	216.39542	ppb
Rh	103	304832		ppb
Cd	111	5739.8	4.28631	ppb
Cd	114	11297.6	3.66223	ppb
Sb	121	5922.3	1.17122	ppb
Sb	123	4614.2	1.11483	ppb
Ho	165	590931.2		ppb
Pb	208	223906.2	9.42976	ppb
Kr	83	-689.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 BH

Sample Da Wednesday, August 03, 2011 21:52:36

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	45272		ppb
Be	9	18	0.0438	ppb
Sc	45	110041.1		ppb
Cr	52	100308.4	23.88293	ppb
Cr	53	12423.5	-28.60265	ppb
Mn	55	360954.1	63.48102	ppb
Co	59	4572.8	0.80071	ppb
Ni	60	24096.6	18.56621	ppb
As	75	8533.3	8.26562	ppb
Se	77	11909.5	123.04914	ppb
Se	82	16091.6	169.08617	ppb
Rh	103	316193.4		ppb
Cd	111	23099.1	16.65733	ppb
Cd	114	52611.2	16.46514	ppb
Sb	121	6021.3	1.24161	ppb
Sb	123	4718.9	1.18828	ppb
Ho	165	567549.4		ppb
Pb	208	290641.9	12.7874	ppb
Kr	83	-874.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-26 BH

Sample Da Wednesday, August 03, 2011 21:54:45

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	46061.1		ppb
- Be	9	10.7	0.01378	ppb
- Sc	45	111142.2		ppb
- Cr	52	92622.7	21.7044	ppb
- Cr	53	11465.2	-30.69055	ppb
- Mn	55	359553.6	62.6462	ppb
- Co	59	4489.1	0.77866	ppb
- Ni	60	23591.9	18.00444	ppb
- As	75	8848.6	8.48249	ppb
- Se	77	11908.1	121.49807	ppb
- Se	82	16279.4	169.50697	ppb
> Rh	103	319152.4		ppb
- Cd	111	23126.3	16.52348	ppb
- Cd	114	53193	16.49719	ppb
- Sb	121	6096.7	1.22879	ppb
- Sb	123	4642.6	1.14275	ppb
> Ho	165	580367.3		ppb
- Pb	208	294049.2	12.64989	ppb
- Kr	83	-917.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 BH

Sample Da Wednesday, August 03, 2011 21:56:56

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	45757.6		ppb
- Be	9	8.3	0.00475	ppb
- Sc	45	108207.9		ppb
- Cr	52	36073.1	6.99217	ppb
- Cr	53	10645.6	-33.30082	ppb
- Mn	55	86391.3	13.68802	ppb
- Co	59	3220.2	0.52881	ppb
- Ni	60	13884.9	9.9887	ppb
- As	75	4858.3	4.54338	ppb
- Se	77	8882	73.59092	ppb
- Se	82	10077.8	99.91891	ppb
> Rh	103	335192.9		ppb
- Cd	111	1851.9	1.24791	ppb
- Cd	114	3619.3	1.061	ppb
- Sb	121	3426	0.66684	ppb
- Sb	123	2633.8	0.62571	ppb
> Ho	165	593687.2		ppb
- Pb	208	98969.1	4.07234	ppb
- Kr	83	-253.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 BH

Sample Da Wednesday, August 03, 2011 21:59:05

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39045.5		ppb
- Be	9	9364.5	44.05717	ppb
- Sc	45	93539.1		ppb
- Cr	52	260933.3	71.90266	ppb
- Cr	53	37112.6	27.88352	ppb
- Mn	55	416335.5	81.26136	ppb
- Co	59	310697	60.96629	ppb
- Ni	60	80445.1	69.21464	ppb
- As	75	58289.5	61.0356	ppb
- Se	77	13523.7	165.87171	ppb
- Se	82	16309	189.63015	ppb
> Rh	103	285816.6		ppb
- Cd	111	59474.3	47.48255	ppb
- Cd	114	136800.5	47.39502	ppb
- Sb	121	221551.7	52.32941	ppb
- Sb	123	171259.5	49.46429	ppb
> Ho	165	502667.7		ppb
- Pb	208	1187869	59.49897	ppb
- Kr	83	-249.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 22:01:17

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	37905.9		ppb
- Be	9	11	0.02456	ppb
- Sc	45	90345.6		ppb
- Cr	52	6765.5	0.25103	ppb
- Cr	53	13782.4	-22.67907	ppb
- Mn	55	4192.3	0.00163	ppb
- Co	59	353.3	0.06029	ppb
- Ni	60	372.3	0.09501	ppb
- As	75	-104.3	0.10993	ppb
- Se	77	3229.9	6.8826	ppb
- Se	82	13.7	0.17211	ppb
> Rh	103	282448.1		ppb
- Cd	111	84.5	0.05475	ppb
- Cd	114	170.9	0.05238	ppb
- Sb	121	229	0.04323	ppb
- Sb	123	172.8	0.03843	ppb
> Ho	165	443427.7		ppb
- Pb	208	2621.2	0.01524	ppb
- Kr	83	68.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 22:03:27

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	35856.1		ppb
- Be	9	19975.9	102.37919	ppb
- Sc	45	83803.2		ppb
- Cr	52	387539.4	115.66535	ppb
- Cr	53	58445.9	83.85877	ppb
- Mn	55	548192.8	115.24848	ppb
- Co	59	525700.2	110.79962	ppb
- Ni	60	119822.5	110.85128	ppb
- As	75	93628.3	105.13445	ppb
- Se	77	9099.9	107.66768	ppb
- Se	82	8279.5	103.3909	ppb
> Rh	103	266101.5		ppb
- Cd	111	125409	107.53261	ppb
- Cd	114	286852.6	106.72476	ppb
- Sb	121	432407.2	121.77537	ppb
- Sb	123	326239.4	112.33078	ppb
> Ho	165	421674.5		ppb
- Pb	208	1732270.3	103.53562	ppb
- Kr	83	-7854.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-28 BH

Sample Date: Wednesday, August 03, 2011 22:05:39

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
> Li	6	42783		ppb
- Be	9	14.3	0.03285	ppb
- Sc	45	98110.5		ppb
- Cr	52	118354.6	32.90278	ppb
- Cr	53	14970.3	-19.24585	ppb
- Mn	55	246407.1	49.51542	ppb
- Co	59	9657.1	1.9592	ppb
- Ni	60	52390.5	46.6249	ppb
- As	75	11503.7	12.63258	ppb
- Se	77	15902.2	211.64383	ppb
- Se	82	21507.3	259.13471	ppb
> Rh	103	275825.7		ppb
- Cd	111	14477.4	11.97395	ppb
- Cd	114	33941.3	12.18192	ppb
- Sb	121	5098.8	1.0933	ppb
- Sb	123	3825.8	1.00202	ppb
> Ho	165	544622.3		ppb
- Pb	208	327525.6	15.04643	ppb
- Kr	83	-1301.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-29 BH

Sample Da Wednesday, August 03, 2011 22:07:49

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	40069.6			ppb
- Be	9	5	-0.00581		ppb
- Sc	45	91513.7			ppb
- Cr	52	61057	15.30783		ppb
- Cr	53	13759.4	-23.48188		ppb
- Mn	55	285822.8	54.77353		ppb
- Co	59	3746.4	0.71546		ppb
- Ni	60	29624.9	25.00308		ppb
- As	75	18397.5	19.16495		ppb
- Se	77	34889.2	489.72689		ppb
- Se	82	44668.8	512.48875		ppb
> Rh	103	289612.9			ppb
- Cd	111	816.9	0.62999		ppb
- Cd	114	1718.7	0.57988		ppb
- Sb	121	3037.2	0.79636		ppb
- Sb	123	2260.4	0.7228		ppb
> Ho	165	442634.9			ppb
- Pb	208	107575.7	5.99833		ppb
- Kr	83	-92.4			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-29 BH

Sample Da Wednesday, August 03, 2011 22:09:59

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	40083.7			ppb
- Be	9	4	-0.0105		ppb
- Sc	45	94000.2			ppb
- Cr	52	17975.8	3.21527		ppb
- Cr	53	14057.9	-23.48426		ppb
- Mn	55	63349.3	11.22879		ppb
- Co	59	844	0.14996		ppb
- Ni	60	6509.3	5.19702		ppb
- As	75	2977.2	3.22139		ppb
- Se	77	7294.3	65.41125		ppb
- Se	82	6038.4	67.81931		ppb
> Rh	103	295911.2			ppb
- Cd	111	191.7	0.13427		ppb
- Cd	114	392.7	0.12386		ppb
- Sb	121	681.7	0.15906		ppb
- Sb	123	515.2	0.14552		ppb
> Ho	165	455607.4			ppb
- Pb	208	24067	1.19854		ppb
- Kr	83	22.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-30 BH

Sample Da Wednesday, August 03, 2011 22:12:08

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
> Li	6	46074.8			ppb
- Be	9	7	-0.0008		ppb
- Sc	45	115808.9			ppb
- Cr	52	120057.2	27.28845		ppb
- Cr	53	20945.8	-13.98949		ppb
- Mn	55	136088.3	22.13001		ppb
- Co	59	3636.7	0.6007		ppb
- Ni	60	38790.6	28.42472		ppb
- As	75	14400	13.06586		ppb
- Se	77	24218.2	277.44933		ppb
- Se	82	30595.6	304.43967		ppb
> Rh	103	333919.3			ppb
- Cd	111	3606.7	2.4518		ppb
- Cd	114	7215.1	2.13178		ppb
- Sb	121	4682.5	0.93118		ppb
- Sb	123	3566.8	0.86589		ppb
> Ho	165	585400.3			ppb
- Pb	208	128175.3	5.39039		ppb
- Kr	83	-223.5			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-31 BH

Sample Date: Wednesday, August 03, 2011 22:14:18

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
> Li	6	50317.2		ppb
- Be	9	13.7	0.02117	ppb
- Sc	45	123032.3		ppb
- Cr	52	128021.6	27.14281	ppb
- Cr	53	16065.9	-25.09056	ppb
- Mn	55	219339.3	33.69853	ppb
- Co	59	3062.5	0.46981	ppb
- Ni	60	22310.4	15.15595	ppb
- As	75	239.3	0.41827	ppb
- Se	77	293	-40.11159	ppb
- Se	82	40.4	0.38757	ppb
> Rh	103	357932.3		ppb
- Cd	111	324.1	0.19387	ppb
- Cd	114	-867.2	-0.24769	ppb
- Sb	121	5566	0.85797	ppb
- Sb	123	4265.6	0.80286	ppb
> Ho	165	754116.4		ppb
- Pb	208	94331	3.02353	ppb
- Kr	83	-193.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 03, 2011 22:16:30

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
> Li	6	39916.6		ppb
- Be	9	3	-0.01493	ppb
- Sc	45	93553.3		ppb
- Cr	52	6775.5	0.19905	ppb
- Cr	53	16207.1	-18.33695	ppb
- Mn	55	4040.2	-0.0514	ppb
- Co	59	75.3	0.00448	ppb
- Ni	60	274	0.00208	ppb
- As	75	-33.9	0.18653	ppb
- Se	77	3610.7	11.25606	ppb
- Se	82	-3	-0.02393	ppb
> Rh	103	290681		ppb
- Cd	111	21.3	0.00307	ppb
- Cd	114	24.5	0.00072	ppb
- Sb	121	56.3	-0.00392	ppb
- Sb	123	44.6	-0.00443	ppb
> Ho	165	454649.9		ppb
- Pb	208	1815.1	-0.03373	ppb
- Kr	83	66.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 03, 2011 22:18:40

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
> Li	6	36206.9		ppb
- Be	9	19851.3	100.75656	ppb
- Sc	45	85871.7		ppb
- Cr	52	388661.8	116.39939	ppb
- Cr	53	60114.1	88.24243	ppb
- Mn	55	544574.2	114.86496	ppb
- Co	59	521997.6	110.3897	ppb
- Ni	60	117076.9	108.67514	ppb
- As	75	91320.3	102.89978	ppb
- Se	77	9321.4	111.9069	ppb
- Se	82	8331.6	104.39808	ppb
> Rh	103	265212.4		ppb
- Cd	111	125075.2	107.60579	ppb
- Cd	114	287891.5	107.4666	ppb
- Sb	121	435986	122.05022	ppb
- Sb	123	330306.6	113.05093	ppb
> Ho	165	424317.5		ppb
- Pb	208	1738186.2	103.24186	ppb
- Kr	83	-7862.9		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da: Thursday, August 04, 2011 08:56:23

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	52634.7		ppb
- Be	9	15.3	0.02672	ppb
- Sc	45	679958.1		ppb
- Cr	52	53953.9	5.93556	ppb
- Cr	53	33208.5	-14.71776	ppb
- Mn	55	70188.1	5.95372	ppb
- Co	59	1816.5	0.16903	ppb
- Ni	60	10018	4.13918	ppb
- As	75	4556.9	2.58594	ppb
- Se	77	4139.3	-10.43129	ppb
- Se	82	1161.7	6.6801	ppb
> Rh	103	562294		ppb
- Cd	111	357.1	0.12541	ppb
- Cd	114	125	0.01404	ppb
- Sb	121	35660.9	4.49909	ppb
- Sb	123	27526.3	4.22991	ppb
> Ho	165	927747.4		ppb
- Pb	208	43931.8	1.07416	ppb
- Kr	83	-504		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 FH

Sample Da: Thursday, August 04, 2011 08:58:33

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	36960.1		ppb
- Be	9	10217.7	50.79765	ppb
- Sc	45	339151.4		ppb
- Cr	52	316000.2	67.31965	ppb
- Cr	53	60852.1	49.72612	ppb
- Mn	55	430823.9	64.94986	ppb
- Co	59	372658.7	56.63926	ppb
- Ni	60	88062.4	58.62561	ppb
- As	75	60386.8	49.00557	ppb
- Se	77	6536.3	34.70735	ppb
- Se	82	5181	46.65575	ppb
> Rh	103	368985.2		ppb
- Cd	111	73081.7	45.1816	ppb
- Cd	114	167465.1	44.92487	ppb
- Sb	121	313259.8	63.90913	ppb
- Sb	123	236602.1	59.07452	ppb
> Ho	165	582178.7		ppb
- Pb	208	1209322.4	52.25135	ppb
- Kr	83	-255.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-24 FH

Sample Da: Thursday, August 04, 2011 09:13:43

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear Report Unit
> Li	6	36890.5		ppb
- Be	9	159	0.76447	ppb
- Sc	45	304722.4		ppb
- Cr	52	503601.3	123.65769	ppb
- Cr	53	72998.6	87.523	ppb
- Mn	55	1915940.8	332.7312	ppb
- Co	59	31513.7	5.44598	ppb
- Ni	60	68026.6	51.59956	ppb
- As	75	66451.4	61.42719	ppb
- Se	77	6652.8	47.25275	ppb
- Se	82	5991.6	61.51269	ppb
> Rh	103	323777.7		ppb
- Cd	111	6324.6	4.44408	ppb
- Cd	114	2402	0.72695	ppb
- Sb	121	15402.7	3.75516	ppb
- Sb	123	11688.7	3.48353	ppb
> Ho	165	484735.4		ppb
- Pb	208	377362	19.50638	ppb
- Kr	83	-87359.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Thursday, August 04, 2011 09:15:54

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	35300.7			ppb
Be	9	5.7	0.00071		ppb
Sc	45	107071.7			ppb
Cr	52	6893.6	0.12674		ppb
Cr	53	21916.1	-8.68196		ppb
Mn	55	5826	0.23302		ppb
Co	59	92.3	0.00679		ppb
Ni	60	340.7	0.04287		ppb
As	75	161.4	0.37687		ppb
Se	77	2945.5	-1.35142		ppb
Se	82	-89.1	-0.95286		ppb
Rh	103	307616.7			ppb
Cd	111	23.9	0.00416		ppb
Cd	114	42.7	0.00613		ppb
Sb	121	92.3	0.00478		ppb
Sb	123	69.3	0.00277		ppb
Ho	165	470141			ppb
Pb	208	2127.1	-0.01994		ppb
Kr	83	110.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Thursday, August 04, 2011 09:18:03

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	33724.3			ppb
Be	9	19458.5	106.03866		ppb
Sc	45	95904.9			ppb
Cr	52	429569.3	119.13536		ppb
Cr	53	75305.6	110.80227		ppb
Mn	55	600015.8	107.22576		ppb
Co	59	584016.1	114.3186		ppb
Ni	60	131929.4	113.3524		ppb
As	75	100379.9	104.67352		ppb
Se	77	9483.6	102.837		ppb
Se	82	8526.6	98.9078		ppb
Rh	103	286571.8			ppb
Cd	111	128348.9	102.19602		ppb
Cd	114	294040.4	101.60776		ppb
Sb	121	451654.4	121.69857		ppb
Sb	123	347686.6	114.54326		ppb
Ho	165	440765.4			ppb
Pb	208	1896634.3	108.44511		ppb
Kr	83	-8166.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Date: Thursday, August 04, 2011 09:31:01

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas	Report Unit
Li	6	38827.4			ppb
Be	9	6.3	0.00123		ppb
Sc	45	94249.9			ppb
Cr	52	20915	4.30081		ppb
Cr	53	21451.7	-5.66304		ppb
Mn	55	33005.5	5.76395		ppb
Co	59	665	0.12222		ppb
Ni	60	2639.7	2.07988		ppb
As	75	4026.2	4.47913		ppb
Se	77	7272.6	70.53598		ppb
Se	82	6411.2	75.61429		ppb
Rh	103	281811.8			ppb
Cd	111	153.8	0.11104		ppb
Cd	114	-34.7	-0.01943		ppb
Sb	121	1123.1	0.31039		ppb
Sb	123	822.1	0.2759		ppb
Ho	165	405129.5			ppb
Pb	208	8776.7	0.4119		ppb
Kr	83	102.4			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Da Thursday, August 04, 2011 09:33:11

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	39471.8		ppb
- Be	9	10653.2	49.5815	ppb
- Sc	45	93133		ppb
- Cr	52	206407.8	58.46931	ppb
- Cr	53	40622.6	38.50584	ppb
- Mn	55	298337.7	59.95989	ppb
- Co	59	259019.3	52.52883	ppb
- Ni	60	62679	55.68604	ppb
- As	75	86052	93.01652	ppb
- Se	77	14148.7	182.85065	ppb
- Se	82	15600	187.46402	ppb
> Rh	103	276517.6		ppb
- Cd	111	51149.4	42.20126	ppb
- Cd	114	117543.3	42.0843	ppb
- Sb	121	201703.6	61.10513	ppb
- Sb	123	153222.1	56.75428	ppb
> Ho	165	391905.6		ppb
- Pb	208	713367.1	45.79272	ppb
- Kr	83	100.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-5 BH

Sample Da Thursday, August 04, 2011 09:35:20

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	40134.8		ppb
- Be	9	30.3	0.11047	ppb
- Sc	45	101324.2		ppb
- Cr	52	65604.5	16.15746	ppb
- Cr	53	20772.4	-9.40108	ppb
- Mn	55	1054246.2	199.59869	ppb
- Co	59	9692.8	1.82441	ppb
- Ni	60	31397.1	25.9047	ppb
- As	75	12722.8	13.018	ppb
- Se	77	8028.5	76.2123	ppb
- Se	82	8204.3	91.99271	ppb
> Rh	103	296358.9		ppb
- Cd	111	539.3	0.40166	ppb
- Cd	114	1133.3	0.37111	ppb
- Sb	121	2542.7	0.66882	ppb
- Sb	123	1952.4	0.62702	ppb
> Ho	165	439215.5		ppb
- Pb	208	60819.7	3.36019	ppb
- Kr	83	38.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da Thursday, August 04, 2011 09:41:51

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36611.3		ppb
- Be	9	5	-0.00345	ppb
- Sc	45	90114.1		ppb
- Cr	52	6122.7	0.12872	ppb
- Cr	53	16441.2	-15.55062	ppb
- Mn	55	4068.9	0.00559	ppb
- Co	59	170.3	0.02528	ppb
- Ni	60	247.7	-0.00625	ppb
- As	75	-64.1	0.14652	ppb
- Se	77	2758.4	1.00061	ppb
- Se	82	-39.6	-0.47264	ppb
> Rh	103	272968.9		ppb
- Cd	111	34.1	0.01502	ppb
- Cd	114	61.5	0.0149	ppb
- Sb	121	106	0.01278	ppb
- Sb	123	76	0.00893	ppb
> Ho	165	395728.1		ppb
- Pb	208	1668.7	-0.02828	ppb
- Kr	83	105.2		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Thursday, August 04, 2011 09:44:00

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	34940.7		ppb
- Be	9	20060.1	105.4995	ppb
- Sc	45	85763.4		ppb
- Cr	52	380320.8	110.72013	ppb
- Cr	53	63089.9	101.98725	ppb
- Mn	55	540023.6	109.23517	ppb
- Co	59	524295.9	115.95284	ppb
- Ni	60	118399.9	114.93084	ppb
- As	75	90144.4	106.19251	ppb
- Se	77	8781.6	109.5661	ppb
- Se	82	7817.8	102.43865	ppb
> Rh	103	253658		ppb
- Cd	111	117477.6	105.67066	ppb
- Cd	114	267617.6	104.42874	ppb
- Sb	121	404255.8	128.66324	ppb
- Sb	123	303762.8	118.22345	ppb
> Ho	165	373044.9		ppb
- Pb	208	1570517.3	106.09149	ppb
- Kr	83	-7428.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Blank

Sample Da Thursday, August 04, 2011 10:34:21

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	37416.9		ppb
- Be	9	2		ppb
- Sc	45	92391.5		ppb
- Cr	52	6582		ppb
- Cr	53	25746.7		ppb
- Mn	55	4209		ppb
- Co	59	55.7		ppb
- Ni	60	220.3		ppb
- As	75	-239.1		ppb
- Se	77	3054.5		ppb
- Se	82	-11.3		ppb
> Rh	103	281466.2		ppb
- Cd	111	11.6		ppb
- Cd	114	15.8		ppb
- Sb	121	44.7		ppb
- Sb	123	36.3		ppb
> Ho	165	410024.8		ppb
- Pb	208	1471		ppb
- Kr	83	66.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 1

Sample Da Thursday, August 04, 2011 10:36:30

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	38368.8		ppb
- Be	9	272	1.29497	ppb
- Sc	45	96472.4		ppb
- Cr	52	12393.8	1.49903	ppb
- Cr	53	26782.4	-0.46475	ppb
- Mn	55	11913.8	1.43134	ppb
- Co	59	7353	1.38571	ppb
- Ni	60	2046.6	1.51698	ppb
- As	75	1219.3	1.48473	ppb
- Se	77	3177.2	-0.3972	ppb
- Se	82	83.3	1.06958	ppb
> Rh	103	295222.1		ppb
- Cd	111	1645.9	1.2629	ppb
- Cd	114	3739.8	1.24862	ppb
- Sb	121	5908.6	1.63127	ppb
- Sb	123	4513.7	1.52397	ppb
> Ho	165	426690.8		ppb
- Pb	208	25212.6	1.4007	ppb
- Kr	83	-30.8		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2

Sample Date Thursday, August 04, 2011 10:38:39

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	35120.9			ppb
Be	9	20278.9	106.07615		ppb
Sc	45	88429.4			ppb
Cr	52	410518.4	124.9856		ppb
Cr	53	73864	119.82862		ppb
Mn	55	576495.7	123.72578		ppb
Co	59	555002.2	119.35102		ppb
Ni	60	124993.4	118.06156		ppb
As	75	93980.9	108.05608		ppb
Se	77	9400.5	112.20876		ppb
Se	82	8282.1	106.10777		ppb
Rh	103	259263			ppb
Cd	111	120939.5	106.28573		ppb
Cd	114	279924.5	106.7035		ppb
Sb	121	414713.8	128.28417		ppb
Sb	123	316260.7	119.71537		ppb
Hg	165	381096			ppb
Pb	208	1591012.9	105.33635		ppb
Kr	83	-7686.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 3

Sample Date Thursday, August 04, 2011 10:40:48

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	36722.4			ppb
Be	9	97625.7	498.35439		ppb
Sc	45	94020.5			ppb
Cr	52	1950817.8	497.83721		ppb
Cr	53	260611.5	497.31105		ppb
Mn	55	2548857.4	496.10256		ppb
Co	59	2476661.5	472.20775		ppb
Ni	60	601734.8	497.89155		ppb
As	75	462114.1	498.26911		ppb
Se	77	33668.2	497.136		ppb
Se	82	41265	498.55752		ppb
Rh	103	277532.3			ppb
Cd	111	595429	498.33323		ppb
Cd	114	1386099.7	498.44928		ppb
Sb	121	1897967.5	495.89875		ppb
Sb	123	1553695.6	497.48071		ppb
Hg	165	423912.9			ppb
Pb	208	7467959.3	472.49724		ppb
Kr	83	-35598.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date Thursday, August 04, 2011 10:42:58

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	35914.3			ppb
Be	9	21.7	0.10393		ppb
Sc	45	93165.7			ppb
Cr	52	7521.1	0.23495		ppb
Cr	53	26387.2	1.234		ppb
Mn	55	4740.2	0.10193		ppb
Co	59	551.4	0.09417		ppb
Ni	60	317.3	0.07982		ppb
As	75	10.2	0.26778		ppb
Se	77	3123.9	1.01553		ppb
Se	82	-22.4	-0.12956		ppb
Rh	103	282089.2			ppb
Cd	111	113.2	0.08475		ppb
Cd	114	225.6	0.0752		ppb
Sb	121	337.7	0.07741		ppb
Sb	123	234.3	0.064		ppb
Hg	165	420706.8			ppb
Pb	208	2695.2	0.07619		ppb
Kr	83	74.1			mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Da Thursday, August 04, 2011 10:45:08

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	37578.8		ppb
- Be	9	234.7	1.1602	ppb
- Sc	45	94608.3		ppb
- Cr	52	11622.1	1.2301	ppb
- Cr	53	27445	2.72048	ppb
- Mn	55	10565.5	1.19287	ppb
- Co	59	6303.9	1.15761	ppb
- Ni	60	1550.1	1.06693	ppb
- As	75	971.3	1.27126	ppb
- Se	77	3152.2	0.83894	ppb
- Se	82	82.3	1.101	ppb
> Rh	103	285557.9		ppb
- Cd	111	1393.1	1.1234	ppb
- Cd	114	3116.4	1.08345	ppb
- Sb	121	4664.2	1.18154	ppb
- Sb	123	3510.3	1.08862	ppb
> Ho	165	432784.4		ppb
- Pb	208	19601.9	1.11875	ppb
- Kr	83	-13.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 3

Sample Da Thursday, August 04, 2011 10:47:17

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	36437.6		ppb
- Be	9	50044	257.42682	ppb
- Sc	45	95577.6		ppb
- Cr	52	1008329.6	248.82604	ppb
- Cr	53	145793.5	245.41673	ppb
- Mn	55	1403381.7	264.70166	ppb
- Co	59	1383701.9	256.00297	ppb
- Ni	60	311441.5	249.90724	ppb
- As	75	236654.6	247.7101	ppb
- Se	77	18539.9	242.67247	ppb
- Se	82	20399.3	239.25731	ppb
> Rh	103	286014.5		ppb
- Cd	111	303671.7	246.56542	ppb
- Cd	114	696758.5	243.13913	ppb
- Sb	121	1029489	261.31937	ppb
- Sb	123	786668.1	244.66119	ppb
> Ho	165	436273.4		ppb
- Pb	208	3924733.3	241.20839	ppb
- Kr	83	-18300.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da Thursday, August 04, 2011 10:49:27

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	33892.3		ppb
- Be	9	19486.5	107.76181	ppb
- Sc	45	87345		ppb
- Cr	52	407961.7	108.60844	ppb
- Cr	53	74983.7	113.68204	ppb
- Mn	55	567944	116.1218	ppb
- Co	59	553808.6	111.48519	ppb
- Ni	60	124185.2	108.3373	ppb
- As	75	95383.6	108.79778	ppb
- Se	77	9542	114.5135	ppb
- Se	82	8521.3	108.83787	ppb
> Rh	103	262865.6		ppb
- Cd	111	121295.1	107.1931	ppb
- Cd	114	281025.8	106.70847	ppb
- Sb	121	414346.9	115.40136	ppb
- Sb	123	315668.2	107.7245	ppb
> Ho	165	397576.4		ppb
- Pb	208	1670396	112.59469	ppb
- Kr	83	-7760.5		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 5

Sample Da: Thursday, August 04, 2011 10:51:38

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	36319.2		ppb
Be	9	9680.5	49.95144	ppb
Sc	45	94453.7		ppb
Cr	52	203221.1	49.3765	ppb
Cr	53	50087.6	50.21184	ppb
Mn	55	283146.1	53.35067	ppb
Co	59	271778.6	50.8232	ppb
Ni	60	62709.6	50.73342	ppb
As	75	46739.7	49.66593	ppb
Se	77	6180.4	49.46629	ppb
Se	82	4037.2	47.97764	ppb
Rh	103	282902.9		ppb
Cd	111	59659.8	48.96707	ppb
Cd	114	138500.9	48.84981	ppb
Sb	121	205706	53.156	ppb
Sb	123	157637.7	49.91158	ppb
Ho	165	428438.5		ppb
Pb	208	821209.1	51.31587	ppb
Kr	83	79.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 6

Sample Da: Thursday, August 04, 2011 10:53:47

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	40511.6		ppb
Be	9	7	0.02235	ppb
Sc	45	112797.2		ppb
Cr	52	13296.7	1.43913	ppb
Cr	53	30484.7	5.04435	ppb
Mn	55	28063.9	4.17734	ppb
Co	59	6604.4	1.13681	ppb
Ni	60	4984	3.57826	ppb
As	75	-390	-0.13097	ppb
Se	77	5164.1	27.42505	ppb
Se	82	-43.8	-0.34608	ppb
Rh	103	304587.8		ppb
Cd	111	494.1	0.36728	ppb
Cd	114	3019.5	0.98272	ppb
Sb	121	693	0.13872	ppb
Sb	123	522.5	0.12731	ppb
Ho	165	508142.7		ppb
Pb	208	14226	0.65437	ppb
Kr	83	85.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 7

Sample Da: Thursday, August 04, 2011 10:55:56

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	33898		ppb
Be	9	470.7	2.59228	ppb
Sc	45	97903.8		ppb
Cr	52	61308.7	14.91179	ppb
Cr	53	37944.4	31.02324	ppb
Mn	55	82776.9	16.23533	ppb
Co	59	125673.4	25.29255	ppb
Ni	60	27958.6	24.24961	ppb
As	75	11097.5	12.88122	ppb
Se	77	6311.5	59.16222	ppb
Se	82	954.5	12.30332	ppb
Rh	103	262833.6		ppb
Cd	111	8604	7.59232	ppb
Cd	114	21446.8	8.13791	ppb
Sb	121	11053.1	2.86396	ppb
Sb	123	8246.9	2.61675	ppb
Ho	165	425588		ppb
Pb	208	43106.5	2.62054	ppb
Kr	83	-134.3		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 8

Sample Da Thursday, August 04, 2011 10:58:06

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc. Meas	Report Unit
Li	6	54325.8		ppb
Be	9	86	0.28649	ppb
Sc	45	145751.8		ppb
Cr	52	15808.7	0.79258	ppb
Cr	53	46901	6.44007	ppb
Mn	55	12457.5	0.6634	ppb
Co	59	2849.8	0.3191	ppb
Ni	60	6873.6	3.2687	ppb
As	75	609.9	0.65544	ppb
Se	77	6746.5	17.49008	ppb
Se	82	12.3	0.22517	ppb
Rh	103	457861.8		ppb
Cd	111	610.5	0.29997	ppb
Cd	114	1388.1	0.29709	ppb
Sb	121	2368.3	0.37239	ppb
Sb	123	1848	0.35545	ppb
Ho	165	682260.1		ppb
Pb	208	20571.8	0.71256	ppb
Kr	83	22.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Da Thursday, August 04, 2011 11:00:17

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc. Meas	Report Unit
Li	6	35759.9		ppb
Be	9	219.7	1.14121	ppb
Sc	45	93243.1		ppb
Cr	52	13331.8	1.65926	ppb
Cr	53	33451.1	15.13284	ppb
Mn	55	9918.4	1.07267	ppb
Co	59	6171.8	1.13448	ppb
Ni	60	1583.5	1.09504	ppb
As	75	782.5	1.07337	ppb
Se	77	4366.7	20.06072	ppb
Se	82	73.1	0.99226	ppb
Rh	103	285255.2		ppb
Cd	111	1313.7	1.05993	ppb
Cd	114	3006.6	1.04623	ppb
Sb	121	4594.2	1.21641	ppb
Sb	123	3504.1	1.13612	ppb
Ho	165	414192.2		ppb
Pb	208	19180.6	1.14607	ppb
Kr	83	-23.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 BH

Sample Da Thursday, August 04, 2011 11:19:44

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc. Meas	Report Unit
Li	6	36079.2		ppb
Be	9	8.3	0.03328	ppb
Sc	45	98965.8		ppb
Cr	52	19927.8	3.08431	ppb
Cr	53	21002.6	-12.36158	ppb
Mn	55	32750.6	5.13104	ppb
Co	59	1351.8	0.22934	ppb
Ni	60	5619.7	4.14596	ppb
As	75	1253.9	1.51254	ppb
Se	77	5500.7	34.12578	ppb
Se	82	3423.6	38.60169	ppb
Rh	103	298356.7		ppb
Cd	111	777.2	0.59528	ppb
Cd	114	1586.8	0.52527	ppb
Sb	121	1317.4	0.31476	ppb
Sb	123	1069.5	0.31311	ppb
Ho	165	446481.3		ppb
Pb	208	31356.9	1.78746	ppb
Kr	83	-50.6		mg/L

PerkinElmer ELAN 6100 ICP-MS

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-27 BH

Sample Da: Thursday, August 04, 2011 11:21:54

Sample De: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	37706.3		ppb
- Be	9	9345.1	46.44753	ppb
- Sc	45	104744.7		ppb
- Cr	52	237793	53.04286	ppb
- Cr	53	46222.9	34.16212	ppb
- Mn	55	334090.2	57.71467	ppb
- Co	59	303376	51.96142	ppb
- Ni	60	74532.7	55.24018	ppb
- As	75	53728.4	52.27768	ppb
- Se	77	9214.3	85.41889	ppb
- Se	82	8666	94.21592	ppb
> Rh	103	308981.6		ppb
- Cd	111	59576.7	44.78963	ppb
- Cd	114	136402.8	44.06882	ppb
- Sb	121	213857	50.75688	ppb
- Sb	123	162510.3	47.26023	ppb
> Ho	165	466515.1		ppb
- Pb	208	889163.9	51.0286	ppb
- Kr	83	-38.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da: Thursday, August 04, 2011 11:24:05

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	34618.8		ppb
- Be	9	9.3	0.0413	ppb
- Sc	45	89026.1		ppb
- Cr	52	7524.1	0.27905	ppb
- Cr	53	23083.6	-4.51967	ppb
- Mn	55	4029.9	-0.01746	ppb
- Co	59	147.7	0.01815	ppb
- Ni	60	224.7	0.00745	ppb
- As	75	-91.6	0.15521	ppb
- Se	77	3517.3	8.62805	ppb
- Se	82	-6.9	0.04935	ppb
> Rh	103	275543.1		ppb
- Cd	111	48.2	0.03132	ppb
- Cd	114	68.4	0.01869	ppb
- Sb	121	113	0.01923	ppb
- Sb	123	83.9	0.01649	ppb
> Ho	165	402909.3		ppb
- Pb	208	1705.7	0.01754	ppb
- Kr	83	57.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da: Thursday, August 04, 2011 11:26:14

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
> Li	6	32685.4		ppb
- Be	9	18814.1	107.88051	ppb
- Sc	45	84908.1		ppb
- Cr	52	392970.2	107.46423	ppb
- Cr	53	68833.9	104.19832	ppb
- Mn	55	542881.7	114.01356	ppb
- Co	59	538952.9	111.44102	ppb
- Ni	60	120779.8	108.2426	ppb
- As	75	91474	107.16663	ppb
- Se	77	9472.6	117.75916	ppb
- Se	82	8115.7	106.48345	ppb
> Rh	103	255882.6		ppb
- Cd	111	117475.7	106.62737	ppb
- Cd	114	272036.3	106.09986	ppb
- Sb	121	404768.4	117.40898	ppb
- Sb	123	305478.3	108.58323	ppb
> Ho	165	381800		ppb
- Pb	208	1579312.4	110.89665	ppb
- Kr	83	-7492.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Blank

Sample Date: Tuesday, August 09, 2011 18:10:00

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	70578.5		ppb
Sc	45	220124.1		ppb
Cr	52	8146.3		ppb
Cr	53	10515.3		ppb
Mn	55	43198.6		ppb
Co	59	228		ppb
Ni	60	278		ppb
As	75	722		ppb
Se	77	524.3		ppb
Se	82	163.7		ppb
Rh	103	558209.1		ppb
Cd	111	21.8		ppb
Cd	114	27.4		ppb
Sb	121	139.3		ppb
Sb	123	119.9		ppb
Hg	165	952365.9		ppb
Pb	208	12627.1		ppb
Kr	83	138.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 1

Sample Date: Tuesday, August 09, 2011 18:12:06

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	65662.1		ppb
Sc	45	227865.4		ppb
Cr	52	18275.1	1.09404	ppb
Cr	53	8147	-1.41152	ppb
Mn	55	59798.3	1.19719	ppb
Co	59	12815.4	1.09369	ppb
Ni	60	2988.5	1.11173	ppb
As	75	4062.6	1.08886	ppb
Se	77	813.4	0.93972	ppb
Se	82	558.6	0.90318	ppb
Rh	103	524051.2		ppb
Cd	111	2820.5	1.08182	ppb
Cd	114	8623.2	1.11058	ppb
Sb	121	10023.9	1.16084	ppb
Sb	123	7725.9	1.16823	ppb
Hg	165	916908.8		ppb
Pb	208	55532.8	1.12482	ppb
Kr	83	14.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 2

Sample Date: Tuesday, August 09, 2011 18:14:12

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	73915.1		ppb
Sc	45	266782.7		ppb
Cr	52	1173419	107.72912	ppb
Cr	53	141658.8	99.89228	ppb
Mn	55	1893745.3	103.70576	ppb
Co	59	1356225.4	105.69712	ppb
Ni	60	288077.9	105.48455	ppb
As	75	365420.5	105.3292	ppb
Se	77	41199.7	105.66634	ppb
Se	82	52033.8	104.03845	ppb
Rh	103	583739.2		ppb
Cd	111	297632.7	103.24155	ppb
Cd	114	705529.3	106.69415	ppb
Sb	121	1020914	106.21441	ppb
Sb	123	794662.2	108.1167	ppb
Hg	165	1033064.9		ppb
Pb	208	4528362.6	104.02399	ppb
Kr	83	-18522.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: Standard 3

Sample Date: Tuesday, August 09, 2011 18:16:18

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	64904.2		ppb
Sc	45	247512.7		ppb
Cr	52	4931057.2	498.45399	ppb
Cr	53	607348.6	500.02637	ppb
Mn	55	8172163.7	499.25845	ppb
Co	59	5848107.8	498.86039	ppb
Ni	60	1244159.6	498.90287	ppb
As	75	1578547.9	498.93398	ppb
Se	77	175761.8	498.86685	ppb
Se	82	227536.9	499.1925	ppb
Rh	103	533383.5		ppb
Cd	111	1315321.8	499.35153	ppb
Cd	114	3014383.2	498.66095	ppb
Sb	121	4544129.9	498.7568	ppb
Sb	123	3471923.6	498.37632	ppb
Ho	165	979299.7		ppb
Pb	208	20554982	499.19495	ppb
Kr	83	-83158.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Tuesday, August 09, 2011 18:18:25

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	64223.2		ppb
Sc	45	242500.1		ppb
Cr	52	8293.8	0.02353	ppb
Cr	53	3968.2	-5.20121	ppb
Mn	55	43538	0.04937	ppb
Co	59	698.7	0.03907	ppb
Ni	60	346.7	0.0279	ppb
As	75	1083.6	0.11308	ppb
Se	77	352	-0.45789	ppb
Se	82	270.6	0.23096	ppb
Rh	103	551846.1		ppb
Cd	111	136.3	0.04216	ppb
Cd	114	284.6	0.04121	ppb
Sb	121	491.7	0.03888	ppb
Sb	123	393	0.03937	ppb
Ho	165	972868.1		ppb
Pb	208	14814.7	0.04724	ppb
Kr	83	146.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 2

Sample Date: Tuesday, August 09, 2011 18:20:31

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas. Report Unit
Li	6	64121.3		ppb
Sc	45	244563.3		ppb
Cr	52	19629.5	1.17025	ppb
Cr	53	5066.1	-4.23808	ppb
Mn	55	61479.5	1.18541	ppb
Co	59	13720	1.1349	ppb
Ni	60	3048.5	1.09833	ppb
As	75	4473.1	1.17542	ppb
Se	77	676.7	0.4698	ppb
Se	82	758.7	1.29685	ppb
Rh	103	541339		ppb
Cd	111	2976.1	1.10536	ppb
Cd	114	7091.6	1.15168	ppb
Sb	121	10399.3	1.15043	ppb
Sb	123	7931.8	1.14537	ppb
Ho	165	958728.4		ppb
Pb	208	57495.9	1.11172	ppb
Kr	83	-33.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 3

Sample Date: Tuesday, August 09, 2011 18:22:37

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Mear	Report Unit
Li	6	61537.3		ppb
Sc	45	247463.6		ppb
Cr	52	2481902.8	253.54609	ppb
Cr	53	299472.6	245.33284	ppb
Mn	55	3984668.2	245.09063	ppb
Co	59	2884846.8	249.06494	ppb
Ni	60	616552.1	250.17381	ppb
As	75	754169.2	241.13362	ppb
Se	77	84283.6	241.37757	ppb
Se	82	107529.8	238.57979	ppb
Rh	103	527030.4		ppb
Cd	111	642708.1	246.93366	ppb
Cd	114	1501845.2	251.47414	ppb
Sb	121	2204110	250.42794	ppb
Sb	123	1712489.6	254.46848	ppb
Ho	165	945964.9		ppb
Pb	208	9929366.1	249.48077	ppb
Kr	83	-41136.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Tuesday, August 09, 2011 18:24:45

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Mear	Report Unit
Li	6	62339.9		ppb
Sc	45	242735.1		ppb
Cr	52	1058578.4	105.16841	ppb
Cr	53	126936.2	96.64147	ppb
Mn	55	1727564.1	102.33627	ppb
Co	59	1231121	103.81324	ppb
Ni	60	261636.8	103.6384	ppb
As	75	324039.8	101.07924	ppb
Se	77	36064.7	100.0677	ppb
Se	82	46717.2	101.05124	ppb
Rh	103	539535.5		ppb
Cd	111	273560.1	102.66478	ppb
Cd	114	649977.1	106.29827	ppb
Sb	121	944826.5	105.22925	ppb
Sb	123	725965.3	105.73936	ppb
Ho	165	964985.8		ppb
Pb	208	4281058.4	105.26201	ppb
Kr	83	-17103.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 5

Sample Date: Tuesday, August 09, 2011 18:26:52

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Mear	Report Unit
Li	6	62571.6		ppb
Sc	45	245957.3		ppb
Cr	52	523088.8	51.16767	ppb
Cr	53	63859.9	44.03779	ppb
Mn	55	893592.6	51.29519	ppb
Co	59	611668.7	51.17507	ppb
Ni	60	129137.8	50.71374	ppb
As	75	163678.5	50.56726	ppb
Se	77	17902.6	48.57537	ppb
Se	82	23263.5	49.76343	ppb
Rh	103	543683.9		ppb
Cd	111	135389	50.41822	ppb
Cd	114	317892.6	51.58956	ppb
Sb	121	467744.5	52.72002	ppb
Sb	123	357144.1	52.65082	ppb
Ho	165	953367.5		ppb
Pb	208	2115204.1	52.49193	ppb
Kr	83	137.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC STD 2

Sample Date: Tuesday, August 09, 2011 18:28:59

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	63785.9			ppb
Sc	45	245076.8			ppb
Cr	52	20155.4	1.18379		ppb
Cr	53	4294.7	-4.94293		ppb
Mn	55	61237.3	1.10203		ppb
Co	59	13805.5	1.11993		ppb
Ni	60	3073.5	1.08541		ppb
As	75	4215.9	1.07104		ppb
Se	77	652	0.38521		ppb
Se	82	711.4	1.16573		ppb
Rh	103	551667.6			ppb
Cd	111	3028.5	1.1034		ppb
Cd	114	7148.8	1.13793		ppb
Sb	121	10340.6	1.1434		ppb
Sb	123	7960	1.14985		ppb
Ho	165	958576.1			ppb
Pb	208	57940.1	1.12261		ppb
Kr	83	-32.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Date: Tuesday, August 09, 2011 18:31:07

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	61631.1			ppb
Sc	45	272528.5			ppb
Cr	52	70924.3	5.97034		ppb
Cr	53	9823.3	-0.67112		ppb
Mn	55	96619.9	3.04889		ppb
Co	59	1495.8	0.10154		ppb
Ni	60	15192.8	5.64232		ppb
As	75	315	-0.12447		ppb
Se	77	346.7	-0.49711		ppb
Se	82	106.7	-0.12299		ppb
Rh	103	566717.8			ppb
Cd	111	287.3	0.09475		ppb
Cd	114	465.3	0.06811		ppb
Sb	121	668250.4	72.30217		ppb
Sb	123	510323.3	72.20508		ppb
Ho	165	993281.8			ppb
Pb	208	81154.1	1.62873		ppb
Kr	83	49.9			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: LRB BH

Sample Date: Tuesday, August 09, 2011 18:33:13

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas	Report Unit
Li	6	62775.5			ppb
Sc	45	286411.8			ppb
Cr	52	688727.3	60.4355		ppb
Cr	53	82188.6	51.99433		ppb
Mn	55	1109087.6	57.25622		ppb
Co	59	747113.1	55.93764		ppb
Ni	60	160160.9	56.28559		ppb
As	75	83161.7	22.86897		ppb
Se	77	5929.9	13.39045		ppb
Se	82	7164	13.46738		ppb
Rh	103	607530.8			ppb
Cd	111	119951.4	39.97437		ppb
Cd	114	283029.2	41.10341		ppb
Sb	121	438198.5	44.29152		ppb
Sb	123	338145.6	44.70049		ppb
Ho	165	1063089.9			ppb
Pb	208	2264665.8	50.38888		ppb
Kr	83	51.8			mg/L

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17071-1 BH
 Sample Date: Tuesday, August 09, 2011 18:35:19
 Sample Date Airtech
 Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
Li	6	55526.9		ppb
Sc	45	257353.8		ppb
Cr	52	70293.4	6.35438	ppb
Cr	53	24266.4	11.96899	ppb
Mn	55	139022.7	6.03301	ppb
Co	59	19393.7	1.8419	ppb
Ni	60	11166.5	4.38863	ppb
As	75	15649.9	4.74911	ppb
Se	77	25239	70.68623	ppb
Se	82	28342.7	62.10406	ppb
Rh	103	531491.9		ppb
Cd	111	482.2	0.17577	ppb
Cd	114	-343.4	-0.06156	ppb
Sb	121	4906.3	0.65517	ppb
Sb	123	3760.3	0.65503	ppb
Ho	165	786105.9		ppb
Pb	208	91171.7	2.44503	ppb
Kr	83	572		mg/L

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17071-2 BH
 Sample Date: Tuesday, August 09, 2011 18:37:25
 Sample Date Airtech
 Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
Li	6	61262.1		ppb
Sc	45	278044.4		ppb
Cr	52	194720.1	16.7222	ppb
Cr	53	37540	19.50016	ppb
Mn	55	271910.9	12.29493	ppb
Co	59	10088.9	0.74582	ppb
Ni	60	23090.3	8.11922	ppb
As	75	15119.7	4.02821	ppb
Se	77	27764.7	68.77153	ppb
Se	82	31454.6	60.99137	ppb
Rh	103	600538.8		ppb
Cd	111	424.1	0.1351	ppb
Cd	114	-186.3	-0.03175	ppb
Sb	121	4383.1	0.50361	ppb
Sb	123	3314.9	0.49595	ppb
Ho	165	907180.8		ppb
Pb	208	76662.8	1.69556	ppb
Kr	83	105.9		mg/L

Method 6020 & 200.8 Metals Summary Report
 Sample ID: 17071-2 BH
 Sample Date: Tuesday, August 09, 2011 18:39:32
 Sample Date Airtech
 Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
Li	6	59286.6		ppb
Sc	45	271057.8		ppb
Cr	52	194778.5	17.09245	ppb
Cr	53	36479.1	19.2808	ppb
Mn	55	277625.8	12.92306	ppb
Co	59	10280.8	0.77635	ppb
Ni	60	23528.8	8.45013	ppb
As	75	15519.3	4.23331	ppb
Se	77	27543.7	69.6695	ppb
Se	82	31796	62.96469	ppb
Rh	103	588087.3		ppb
Cd	111	487	0.15978	ppb
Cd	114	-89.4	-0.01756	ppb
Sb	121	4720.6	0.5551	ppb
Sb	123	3673	0.56317	ppb
Ho	165	888866		ppb
Pb	208	77849.7	1.76874	ppb
Kr	83	84.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Date: Tuesday, August 09, 2011 18:41:38

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
Li	6	60708.8		ppb
Sc	45	279456		ppb
Cr	52	93632.4	7.53806	ppb
Cr	53	24410.4	9.53295	ppb
Mn	55	204247	8.48038	ppb
Co	59	2431.3	0.1636	ppb
Ni	60	10897.5	3.73231	ppb
As	75	18168	4.82651	ppb
Se	77	31594.1	77.56237	ppb
Se	82	36754.7	70.52145	ppb
Rh	103	607324.7		ppb
Cd	111	420	0.13205	ppb
Cd	114	-363.7	-0.05714	ppb
Sb	121	5032.1	0.57814	ppb
Sb	123	3890.6	0.58285	ppb
Hg	165	910842.4		ppb
Pb	208	32070.8	0.52243	ppb
Kr	83	142.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-3 BH

Sample Date: Tuesday, August 09, 2011 18:43:44

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
Li	6	53312.4		ppb
Sc	45	244853		ppb
Cr	52	580507.9	57.3758	ppb
Cr	53	81561	59.15833	ppb
Mn	55	980274.8	57.03019	ppb
Co	59	561016	47.34296	ppb
Ni	60	130673.8	51.76049	ppb
As	75	225185.9	70.2465	ppb
Se	77	49818.1	138.90452	ppb
Se	82	60361.2	130.79247	ppb
Rh	103	538993.6		ppb
Cd	111	97512.1	36.62632	ppb
Cd	114	228471.9	37.39783	ppb
Sb	121	426894.1	56.50906	ppb
Sb	123	327023.6	56.61349	ppb
Hg	165	811779.5		ppb
Pb	208	1576132.4	45.88955	ppb
Kr	83	75.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-4 BH

Sample Date: Tuesday, August 09, 2011 18:45:50

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
Li	6	58826		ppb
Sc	45	268314.9		ppb
Cr	52	49576.8	3.65334	ppb
Cr	53	18897.6	5.58767	ppb
Mn	55	104685	3.15308	ppb
Co	59	4590.2	0.3279	ppb
Ni	60	12581.7	4.35855	ppb
As	75	28732.3	7.82166	ppb
Se	77	73535.2	183.78326	ppb
Se	82	91064	176.55198	ppb
Rh	103	602817.6		ppb
Cd	111	1632.7	0.54055	ppb
Cd	114	2934.5	0.42515	ppb
Sb	121	28057	2.98621	ppb
Sb	123	19766.9	2.96057	ppb
Hg	165	932991		ppb
Pb	208	81845.2	1.26195	ppb
Kr	83	416.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-5 BH

Sample Date: Tuesday, August 09, 2011 18:47:56

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Mear	Report Unit
Li	6	60725.9			ppb
Sc	45	281779.1			ppb
Cr	52	195625.6	16.54128		ppb
Cr	53	37272.9	18.88602		ppb
Mn	55	3287353.7	174.07573		ppb
Co	59	23158.5	1.70999		ppb
Ni	60	72403.6	25.30033		ppb
As	75	27118.9	7.28589		ppb
Se	77	18279	44.1014		ppb
Se	82	20082.7	38.23134		ppb
Rh	103	609702.5			ppb
Cd	111	1185.6	0.38584		ppb
Cd	114	2461.4	0.35161		ppb
Sb	121	5549.7	0.57464		ppb
Sb	123	4320.7	0.58341		ppb
Ho	165	1010504.9			ppb
Pb	208	285137.5	5.92858		ppb
Kr	83	-149.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Tuesday, August 09, 2011 18:50:05

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Mear	Report Unit
Li	6	61297.9			ppb
Sc	45	247713.4			ppb
Cr	52	8138.6	-0.05155		ppb
Cr	53	2859.1	-6.27017		ppb
Mn	55	46175	0.0005		ppb
Co	59	232.3	-0.00089		ppb
Ni	60	291.3	-0.00206		ppb
As	75	1307.3	0.15136		ppb
Se	77	316	-0.62137		ppb
Se	82	354.9	0.35278		ppb
Rh	103	596671.3			ppb
Cd	111	13.9	-0.00321		ppb
Cd	114	40	0.00159		ppb
Sb	121	154.3	0.00075		ppb
Sb	123	131.6	0.00066		ppb
Ho	165	1007564.5			ppb
Pb	208	13109.7	-0.00587		ppb
Kr	83	159.2			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Tuesday, August 09, 2011 18:52:11

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Mear	Report Unit
Li	6	58889.1			ppb
Sc	45	257679.3			ppb
Cr	52	1123525.1	104.06996		ppb
Cr	53	134448	95.3353		ppb
Mn	55	1839754.2	101.5937		ppb
Co	59	1299859.3	102.19857		ppb
Ni	60	277246.8	102.39836		ppb
As	75	350041.5	101.81128		ppb
Se	77	39138.1	101.26647		ppb
Se	82	49352.7	99.52468		ppb
Rh	103	578650.6			ppb
Cd	111	285789.4	99.99511		ppb
Cd	114	675308.8	102.96826		ppb
Sb	121	981636.4	106.66081		ppb
Sb	123	754640.8	107.22348		ppb
Ho	165	989168.5			ppb
Pb	208	4359777.7	104.58205		ppb
Kr	83	-17537.6			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-6 BH

Sample Date: Tuesday, August 09, 2011 18:54:20

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	61575.3		ppb
Sc	45	292431.5		ppb
Cr	52	36684.6	2.52734	ppb
Cr	53	20588.6	6.97863	ppb
Mn	55	63574.3	0.94972	ppb
Co	59	1856.9	0.12298	ppb
Ni	60	12238.2	4.27393	ppb
As	75	1136.3	0.10322	ppb
Se	77	4822.6	10.8227	ppb
Se	82	2532.2	4.61808	ppb
Rh	103	597617.6		ppb
Cd	111	1357.2	0.45226	ppb
Cd	114	2976.4	0.4359	ppb
Sb	121	9107.9	0.94617	ppb
Sb	123	6895.1	0.93424	ppb
Ho	165	1018612.5		ppb
Pb	208	92018.2	1.83448	ppb
Kr	83	-111.1		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-7 BH

Sample Date: Tuesday, August 09, 2011 18:56:26

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	60863.8		ppb
Sc	45	278253.8		ppb
Cr	52	93309.8	7.22466	ppb
Cr	53	25881.8	9.97183	ppb
Mn	55	86749.6	1.98332	ppb
Co	59	3323.6	0.2219	ppb
Ni	60	15246.8	5.08058	ppb
As	75	9487.8	2.32014	ppb
Se	77	15175.7	35.21647	ppb
Se	82	16160	29.7484	ppb
Rh	103	628916.4		ppb
Cd	111	386.2	0.11645	ppb
Cd	114	-193.1	-0.03148	ppb
Sb	121	3051.5	0.32898	ppb
Sb	123	2250.1	0.31472	ppb
Ho	165	951542.4		ppb
Pb	208	53540	1.0235	ppb
Kr	83	575.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Date: Tuesday, August 09, 2011 18:58:32

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	60580		ppb
Sc	45	283547.3		ppb
Cr	52	55484.2	3.91602	ppb
Cr	53	19419.7	5.20313	ppb
Mn	55	125882.6	3.93747	ppb
Co	59	3095.5	0.20271	ppb
Ni	60	9694.2	3.14908	ppb
As	75	14809	3.70476	ppb
Se	77	24519	57.01393	ppb
Se	82	28244.7	51.57958	ppb
Rh	103	637031.3		ppb
Cd	111	1744.3	0.5466	ppb
Cd	114	3049.7	0.41813	ppb
Sb	121	6173.4	0.67173	ppb
Sb	123	4728.2	0.67096	ppb
Ho	165	965249.8		ppb
Pb	208	74737.8	1.52714	ppb
Kr	83	570.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-8 BH

Sample Date: Tuesday, August 09, 2011 19:00:38

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mean	Report Unit
Li	6	56105.6			ppb
Sc	45	263601.2			ppb
Cr	52	55167.2	4.1686		ppb
Cr	53	19523	6.09242		ppb
Mn	55	123868.9	4.21516		ppb
Co	59	2766.1	0.19081		ppb
Ni	60	9947.1	3.43402		ppb
As	75	15830.8	4.2243		ppb
Se	77	24284.4	59.91472		ppb
Se	82	27804	53.82351		ppb
Rh	103	601056.1			ppb
Cd	111	1786.1	0.59386		ppb
Cd	114	2871.2	0.41706		ppb
Sb	121	5986	0.69133		ppb
Sb	123	4638.8	0.69885		ppb
Ho	165	910002.7			ppb
Pb	208	70972.9	1.54057		ppb
Kr	83	645.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Date: Tuesday, August 09, 2011 19:02:45

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mean	Report Unit
Li	6	59484.2			ppb
Sc	45	279010.3			ppb
Cr	52	61261.1	4.51191		ppb
Cr	53	20221.8	6.04308		ppb
Mn	55	81480.9	1.74014		ppb
Co	59	1906.2	0.12039		ppb
Ni	60	9643.8	3.19844		ppb
As	75	18179	4.69144		ppb
Se	77	28071.6	66.79398		ppb
Se	82	33016.3	61.53436		ppb
Rh	103	624777.6			ppb
Cd	111	287.5	0.08545		ppb
Cd	114	-733.2	-0.10752		ppb
Sb	121	3532.4	0.37468		ppb
Sb	123	2690.7	0.3713		ppb
Ho	165	972562.1			ppb
Pb	208	64610.8	1.26571		ppb
Kr	83	423.3			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-9 BH

Sample Date: Tuesday, August 09, 2011 19:04:51

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mean	Report Unit
Li	6	57049.4			ppb
Sc	45	273342.6			ppb
Cr	52	615516.5	53.38321		ppb
Cr	53	85513	53.81556		ppb
Mn	55	967031.9	49.08029		ppb
Co	59	637017.4	47.21984		ppb
Ni	60	144878.8	50.40443		ppb
As	75	255842.3	70.10024		ppb
Se	77	50219	122.8326		ppb
Se	82	60951.3	115.96839		ppb
Rh	103	613621.5			ppb
Cd	111	117311	38.70474		ppb
Cd	114	272583.2	39.19226		ppb
Sb	121	495823.5	55.80932		ppb
Sb	123	384396.7	56.58515		ppb
Ho	165	954705.9			ppb
Pb	208	1886457.7	46.70797		ppb
Kr	83	468.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-10 BH

Sample Date: Tuesday, August 09, 2011 19:06:57

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
Li	6	57576.6		ppb
Sc	45	273779.8		ppb
Cr	52	41370.3	2.74472	ppb
Cr	53	18285.7	4.50111	ppb
Mn	55	88410.5	2.04381	ppb
Co	59	2822.1	0.18448	ppb
Ni	60	15720.6	5.21105	ppb
As	75	7960.6	1.90531	ppb
Se	77	12645.1	28.93325	ppb
Se	82	12627.6	23.03934	ppb
Rh	103	632443.2		ppb
Cd	111	4530.7	1.44285	ppb
Cd	114	10364.3	1.44175	ppb
Sb	121	10586.5	1.11332	ppb
Sb	123	8071.5	1.10818	ppb
Ho	165	1007898.8		ppb
Pb	208	74420.8	1.44173	ppb
Kr	83	396.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-11 BH

Sample Date: Tuesday, August 09, 2011 19:09:03

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
Li	6	51936.1		ppb
Sc	45	248792.5		ppb
Cr	52	58186.6	4.58853	ppb
Cr	53	20135.3	7.52314	ppb
Mn	55	174574	7.59821	ppb
Co	59	3025.5	0.22558	ppb
Ni	60	18865.6	7.04799	ppb
As	75	17877.9	5.1278	ppb
Se	77	36524.6	96.86727	ppb
Se	82	43987.8	90.94401	ppb
Rh	103	564357.9		ppb
Cd	111	3679.4	1.31222	ppb
Cd	114	8336.4	1.29909	ppb
Sb	121	15089.9	1.81073	ppb
Sb	123	11548.3	1.81027	ppb
Ho	165	887909.5		ppb
Pb	208	60459.8	1.30566	ppb
Kr	83	471.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-12 BH

Sample Date: Tuesday, August 09, 2011 19:11:09

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Meas Report Unit
Li	6	58594.3		ppb
Sc	45	278207.9		ppb
Cr	52	39520.4	2.55628	ppb
Cr	53	18431.3	4.48523	ppb
Mn	55	88780.4	2.02206	ppb
Co	59	1839.9	0.11261	ppb
Ni	60	9944.4	3.22732	ppb
As	75	17231.2	4.33686	ppb
Se	77	29402.1	68.52543	ppb
Se	82	33862.2	61.79484	ppb
Rh	103	638142.9		ppb
Cd	111	840.8	0.25887	ppb
Cd	114	1667.7	0.22626	ppb
Sb	121	8195	0.86886	ppb
Sb	123	6399.1	0.88568	ppb
Ho	165	995800.9		ppb
Pb	208	46281.6	0.79051	ppb
Kr	83	554.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-13 BH

Sample Date: Tuesday, August 09, 2011 19:13:15

Sample Description: Airtech

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
Li	6	57241.2		ppb
Sc	45	278919.2		ppb
Cr	52	110016.7	8.67562	ppb
Cr	53	25463.3	9.69738	ppb
Mn	55	146622.6	5.11476	ppb
Co	59	2955.8	0.19563	ppb
Ni	60	11657.5	3.86605	ppb
As	75	22952.3	5.94857	ppb
Se	77	29164.4	69.10476	ppb
Se	82	34343.3	63.71222	ppb
Rh	103	627806.1		ppb
Cd	111	669.1	0.20784	ppb
Cd	114	301.6	0.03803	ppb
Sb	121	18542.6	2.02746	ppb
Sb	123	14211.2	2.03025	ppb
Ho	165	975500.1		ppb
Pb	208	104002.7	2.22171	ppb
Kr	83	-603.2		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Tuesday, August 09, 2011 19:15:24

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
Li	6	59134.4		ppb
Sc	45	247569.4		ppb
Cr	52	8280.8	-0.06866	ppb
Cr	53	2548.4	-6.58018	ppb
Mn	55	46984.1	-0.05892	ppb
Co	59	286	0.00235	ppb
Ni	60	314.7	0.00175	ppb
As	75	661.3	-0.03875	ppb
Se	77	327	-0.62712	ppb
Se	82	150.4	-0.06017	ppb
Rh	103	621572.1		ppb
Cd	111	25.5	0.00037	ppb
Cd	114	65.1	0.00489	ppb
Sb	121	191	0.00414	ppb
Sb	123	154	0.00326	ppb
Ho	165	1034023.5		ppb
Pb	208	13548.9	-0.00369	ppb
Kr	83	174.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Tuesday, August 09, 2011 19:17:30

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc. Meas	Report Unit
Li	6	57685.8		ppb
Sc	45	261945		ppb
Cr	52	1152920	103.52544	ppb
Cr	53	138940.9	95.50771	ppb
Mn	55	1880693.7	100.65191	ppb
Co	59	1356396.3	103.38669	ppb
Ni	60	288221.8	103.21685	ppb
As	75	360764.3	101.72588	ppb
Se	77	40099.3	100.58744	ppb
Se	82	51502.2	100.71482	ppb
Rh	103	597153.4		ppb
Cd	111	291970.5	98.98465	ppb
Cd	114	691210.3	102.13197	ppb
Sb	121	1006623.8	108.40967	ppb
Sb	123	773019.9	108.87608	ppb
Ho	165	998042.9		ppb
Pb	208	4366557.9	103.79685	ppb
Kr	83	-18118.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Da Tuesday, August 09, 2011 19:19:39

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	53983.9		ppb
Sc	45	287076.4		ppb
Cr	52	114969.7	9.98109	ppb
Cr	53	26497.6	12.10006	ppb
Mn	55	133017.3	5.02399	ppb
Co	59	5727.5	0.43393	ppb
Ni	60	9563	3.44216	ppb
As	75	49182.9	14.16267	ppb
Se	77	84120.9	219.74744	ppb
Se	82	104516.4	211.68809	ppb
Rh	103	577424.1		ppb
Cd	111	985	0.33813	ppb
Cd	114	149.9	0.01898	ppb
Sb	121	10772.4	1.27512	ppb
Sb	123	8359.3	1.29227	ppb
Ho	165	896898.2		ppb
Pb	208	53683.3	1.10891	ppb
Kr	83	-561.4		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-14 BH

Sample Da Tuesday, August 09, 2011 19:21:45

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	56633.6		ppb
Sc	45	280617.3		ppb
Cr	52	112910.3	9.29662	ppb
Cr	53	25243.7	10.2287	ppb
Mn	55	130601.1	4.54023	ppb
Co	59	5425.6	0.38987	ppb
Ni	60	9090.9	3.10807	ppb
As	75	46899.6	12.83152	ppb
Se	77	83320.2	207.59922	ppb
Se	82	103254.2	199.36085	ppb
Rh	103	605137.7		ppb
Cd	111	923.2	0.30077	ppb
Cd	114	136.7	0.01502	ppb
Sb	121	10694.6	1.20212	ppb
Sb	123	8243.6	1.21022	ppb
Ho	165	943812.6		ppb
Pb	208	57023.4	1.12225	ppb
Kr	83	-544.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Da Tuesday, August 09, 2011 19:23:51

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	53980.8		ppb
Sc	45	264363.5		ppb
Cr	52	116310	10.00146	ppb
Cr	53	25467.6	11.12135	ppb
Mn	55	152221.6	6.02917	ppb
Co	59	2567.4	0.18207	ppb
Ni	60	9705.5	3.45974	ppb
As	75	27030.3	7.61236	ppb
Se	77	41406.1	106.55537	ppb
Se	82	49777.2	99.77826	ppb
Rh	103	582158.6		ppb
Cd	111	503.6	0.16726	ppb
Cd	114	71.9	0.0065	ppb
Sb	121	4914.3	0.57037	ppb
Sb	123	3804.3	0.57569	ppb
Ho	165	901261.1		ppb
Pb	208	14509.8	0.0676	ppb
Kr	83	-392.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-15 BH

Sample Date: Tuesday, August 09, 2011 19:25:58

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	55153		ppb
Sc	45	266488.1		ppb
Cr	52	650332.7	57.95749	ppb
Cr	53	87878	57.2252	ppb
Mn	55	995172.5	51.98493	ppb
Co	59	609317.3	46.35679	ppb
Ni	60	141566.1	50.5524	ppb
As	75	268726.6	75.59306	ppb
Se	77	62734.7	157.88675	ppb
Se	82	77862.9	152.16107	ppb
Rh	103	597881		ppb
Cd	111	113059.5	38.28593	ppb
Cd	114	265779.7	39.22159	ppb
Sb	121	493507.6	56.76258	ppb
Sb	123	381028.8	57.315	ppb
Ho	165	934277.1		ppb
Pb	208	1792887	45.35312	ppb
Kr	83	-400.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-16 BH

Sample Date: Tuesday, August 09, 2011 19:28:04

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	56005.6		ppb
Sc	45	266660.1		ppb
Cr	52	66714.2	5.10341	ppb
Cr	53	19619.8	5.91439	ppb
Mn	55	83430.8	1.93392	ppb
Co	59	3336.3	0.22967	ppb
Ni	60	11671.2	3.9768	ppb
As	75	30219.4	8.11908	ppb
Se	77	71113.7	175.14201	ppb
Se	82	86585.7	165.46074	ppb
Rh	103	611525.1		ppb
Cd	111	1560.3	0.50875	ppb
Cd	114	3426.6	0.49002	ppb
Sb	121	1786.2	0.17996	ppb
Sb	123	1370.1	0.17861	ppb
Ho	165	981082.5		ppb
Pb	208	179371	4.0354	ppb
Kr	83	461.8		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-17 BH

Sample Date: Tuesday, August 09, 2011 19:30:10

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	47847.9		ppb
Sc	45	230911.9		ppb
Cr	52	40863	3.39332	ppb
Cr	53	16201.8	5.29648	ppb
Mn	55	133366.5	5.74113	ppb
Co	59	4172.6	0.34116	ppb
Ni	60	6029	2.33717	ppb
As	75	54107.6	17.07358	ppb
Se	77	82284.9	235.26855	ppb
Se	82	102614.2	227.31855	ppb
Rh	103	527755.2		ppb
Cd	111	381.7	0.13852	ppb
Cd	114	489.1	0.07743	ppb
Sb	121	1296.8	0.15073	ppb
Sb	123	1014.9	0.15277	ppb
Ho	165	837232.6		ppb
Pb	208	70759.1	1.69607	ppb
Kr	83	613.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-18 BH

Sample Da Tuesday, August 09, 2011 19:32:16

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	55737.1		ppb
Sc	45	272540.9		ppb
Cr	52	43841.5	3.02626	ppb
Cr	53	16316.6	3.3246	ppb
Mn	55	118485.5	3.71825	ppb
Co	59	5826.5	0.40856	ppb
Ni	60	8204.4	2.72116	ppb
As	75	76048.9	20.45813	ppb
Se	77	104024.2	253.01364	ppb
Se	82	130605	246.04763	ppb
Rh	103	620788.7		ppb
Cd	111	630.7	0.19764	ppb
Cd	114	688.5	0.09367	ppb
Sb	121	2401	0.25728	ppb
Sb	123	1835.3	0.25507	ppb
Ho	165	946096.9		ppb
Pb	208	35826.2	0.58594	ppb
Kr	83	663.5		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-19 BH

Sample Da Tuesday, August 09, 2011 19:34:22

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	55691.5		ppb
Sc	45	271946.7		ppb
Cr	52	56799.6	4.32858	ppb
Cr	53	18101.3	5.06559	ppb
Mn	55	90173.1	2.39077	ppb
Co	59	2713.1	0.18739	ppb
Ni	60	11351.4	3.94259	ppb
As	75	10956.4	2.85887	ppb
Se	77	13636.9	33.08816	ppb
Se	82	14680.6	28.30071	ppb
Rh	103	599999.8		ppb
Cd	111	2256.1	0.75317	ppb
Cd	114	3663.4	0.53487	ppb
Sb	121	8217.4	0.92984	ppb
Sb	123	6461.7	0.95493	ppb
Ho	165	933724.8		ppb
Pb	208	47920.2	0.90595	ppb
Kr	83	497.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 BH

Sample Da Tuesday, August 09, 2011 19:36:28

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	55661.8		ppb
Sc	45	265004.1		ppb
Cr	52	41223.3	2.81847	ppb
Cr	53	16234.5	3.32613	ppb
Mn	55	99073.5	2.72161	ppb
Co	59	1902.5	0.12168	ppb
Ni	60	6505	2.14742	ppb
As	75	22960.9	6.05179	ppb
Se	77	42656	103.44613	ppb
Se	82	52147.2	98.53627	ppb
Rh	103	617345.8		ppb
Cd	111	4792.8	1.56447	ppb
Cd	114	10382.2	1.48022	ppb
Sb	121	2477.3	0.25736	ppb
Sb	123	1910.8	0.25775	ppb
Ho	165	975097.2		ppb
Pb	208	86142.3	1.2987	ppb
Kr	83	446.3		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-20 BH

Sample Date: Tuesday, August 09, 2011 19:38:35

Sample Description: Altech

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Mear	Report Unit
Li	6	56439.9			ppb
Sc	45	269641.9			ppb
Cr	52	41254.4	2.76809		ppb
Cr	53	16518.3	3.36178		ppb
Mn	55	102519.8	2.82495		ppb
Co	59	1945.9	0.12274		ppb
Ni	60	5146.1	1.65065		ppb
As	75	23791.2	6.18653		ppb
Se	77	45449.7	108.72187		ppb
Se	82	55208.9	102.84872		ppb
Rh	103	626487.8			ppb
Cd	111	4946.2	1.59083		ppb
Cd	114	10566.8	1.48398		ppb
Sb	121	2601	0.26811		ppb
Sb	123	1977.9	0.2648		ppb
Ho	165	984967.1			ppb
Pb	208	65747.7	1.27301		ppb
Kr	83	472.5			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Tuesday, August 09, 2011 19:40:43

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Mear	Report Unit
Li	6	54165.2			ppb
Sc	45	232419.1			ppb
Cr	52	7865.7	-0.049		ppb
Cr	53	2196.3	-6.67458		ppb
Mn	55	44815.5	0.0072		ppb
Co	59	256.7	0.00185		ppb
Ni	60	310.3	0.00855		ppb
As	75	569.6	-0.05314		ppb
Se	77	301.3	-0.61623		ppb
Se	82	124.5	-0.09032		ppb
Rh	103	578298.5			ppb
Cd	111	26.2	0.00119		ppb
Cd	114	40.7	0.00177		ppb
Sb	121	186.3	0.00516		ppb
Sb	123	127.5	0.00064		ppb
Ho	165	970881.7			ppb
Pb	208	12883.9	0.00088		ppb
Kr	83	171.4			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Tuesday, August 09, 2011 19:42:49

Sample Description:

Concentration Results

Analyte	Mass	Meas. Inten	Conc.	Mear	Report Unit
Li	6	56310.1			ppb
Sc	45	259143.5			ppb
Cr	52	1141329.7	105.33796		ppb
Cr	53	134971.6	95.31296		ppb
Mn	55	1860328.8	102.35188		ppb
Co	59	1322765.2	103.5245		ppb
Ni	60	277600	102.06606		ppb
As	75	347005	100.3965		ppb
Se	77	38121.2	98.11676		ppb
Se	82	48885	98.09598		ppb
Rh	103	581372.5			ppb
Cd	111	291111.2	101.44904		ppb
Cd	114	695616.9	105.64303		ppb
Sb	121	1002247.2	106.26921		ppb
Sb	123	775389.1	107.52574		ppb
Ho	165	1013534.1			ppb
Pb	208	4426983.9	103.63786		ppb
Kr	83	-17697			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-22 BH

Sample Da Tuesday, August 09, 2011 19:49:10

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	56990.9			ppb
Sc	45	281232.7			ppb
Cr	52	69737.2	4.9433		ppb
Cr	53	19832	5.06395		ppb
Mn	55	78303.1	1.36865		ppb
Co	59	2296	0.14038		ppb
Ni	60	11803.7	3.73706		ppb
As	75	64261.9	16.27158		ppb
Se	77	65949.1	150.96442		ppb
Se	82	81808.2	145.43473		ppb
Rh	103	657091.6			ppb
Cd	111	270.6	0.07544		ppb
Cd	114	466.8	0.05832		ppb
Sb	121	1664.5	0.16282		ppb
Sb	123	1298.1	0.16443		ppb
Ho	165	1002052.7			ppb
Pb	208	41897.5	0.6795		ppb
Kr	83	644.2			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-23 BH

Sample Da Tuesday, August 09, 2011 19:51:16

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	54618.4			ppb
Sc	45	268597.8			ppb
Cr	52	61436.6	4.59937		ppb
Cr	53	18562.9	5.04342		ppb
Mn	55	124075	4.06382		ppb
Co	59	3534	0.24253		ppb
Ni	60	11321.4	3.82718		ppb
As	75	93636.6	25.41413		ppb
Se	77	129567.2	317.99292		ppb
Se	82	160654.1	305.07865		ppb
Rh	103	615956			ppb
Cd	111	782.1	0.24251		ppb
Cd	114	481.3	0.06186		ppb
Sb	121	6227.8	0.69794		ppb
Sb	123	4697.5	0.68615		ppb
Ho	165	938146.3			ppb
Pb	208	76773.4	1.63288		ppb
Kr	83	607.6			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-24 BH

Sample Da Tuesday, August 09, 2011 19:53:22

Sample De Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	54473			ppb
Sc	45	264852.8			ppb
Cr	52	581973	50.43572		ppb
Cr	53	80595.2	50.25154		ppb
Mn	55	958693.7	48.6473		ppb
Co	59	628624	46.60151		ppb
Ni	60	145518.3	50.63946		ppb
As	75	348175.5	95.50882		ppb
Se	77	171967	424.1835		ppb
Se	82	221715.4	422.87821		ppb
Rh	103	613429.4			ppb
Cd	111	113799.8	37.55886		ppb
Cd	114	265785.5	38.22827		ppb
Sb	121	490540.8	56.19171		ppb
Sb	123	374655.3	56.12742		ppb
Ho	165	938186.1			ppb
Pb	208	1797464.1	45.2724		ppb
Kr	83	739.7			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da: Tuesday, August 09, 2011 20:06:01

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	61205.7			ppb
Sc	45	246702.3			ppb
Cr	52	8318.5	-0.05229		ppb
Cr	53	3261.3	-6.03387		ppb
Mn	55	46687.3	-0.02958		ppb
Co	59	282.7	0.00244		ppb
Ni	60	309	0.00178		ppb
As	75	604	-0.05121		ppb
Se	77	311.3	-0.65284		ppb
Se	82	146	-0.06332		ppb
Rh	103	610448.3			ppb
Cd	111	34.8	0.00363		ppb
Cd	114	68.7	0.00555		ppb
Sb	121	205.3	0.00555		ppb
Sb	123	149.6	0.00253		ppb
Ho	165	1035655.8			ppb
Pb	208	13770.4	0.00097		ppb
Kr	83	144.6			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Da: Tuesday, August 09, 2011 20:08:08

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	55426.2			ppb
Sc	45	244982.3			ppb
Cr	52	1064344.8	101.64335		ppb
Cr	53	128646.5	93.96079		ppb
Mn	55	1761696.4	100.24786		ppb
Co	59	1252195.3	101.50655		ppb
Ni	60	265923.2	101.28107		ppb
As	75	333925.4	100.18561		ppb
Se	77	37130.1	99.06135		ppb
Se	82	46770.4	97.3036		ppb
Rh	103	560190.8			ppb
Cd	111	279900	101.2648		ppb
Cd	114	662241.8	104.4126		ppb
Sb	121	960028.3	107.12023		ppb
Sb	123	739904.1	107.95335		ppb
Ho	165	963287.1			ppb
Pb	208	4262053.8	104.96867		ppb
Kr	83	-17258.4			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Da: Tuesday, August 09, 2011 20:18:42

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Mear	Report Unit
Li	6	62038.8			ppb
Sc	45	243364.8			ppb
Cr	52	8189.7	-0.0405		ppb
Cr	53	3991.6	-5.40607		ppb
Mn	55	46432.3	0.03649		ppb
Co	59	287	0.00348		ppb
Ni	60	280.7	-0.00496		ppb
As	75	661.6	-0.02938		ppb
Se	77	356	-0.51332		ppb
Se	82	152.1	-0.04227		ppb
Rh	103	591405.5			ppb
Cd	111	34.6	0.00389		ppb
Cd	114	46.2	0.00255		ppb
Sb	121	186.3	0.00356		ppb
Sb	123	127	-0.00051		ppb
Ho	165	1038364.2			ppb
Pb	208	13678.4	-0.00204		ppb
Kr	83	138.2			mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Tuesday, August 09, 2011 20:20:49

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	59116.7		ppb
Sc	45	253870.9		ppb
Cr	52	1113038.5	102.75759	ppb
Cr	53	133025.5	93.89823	ppb
Mn	55	1827577.6	100.57332	ppb
Co	59	1303449.5	102.18201	ppb
Ni	60	275656.6	101.49266	ppb
As	75	343178	99.48922	ppb
Se	77	38662.7	99.68734	ppb
Se	82	49091.7	98.65965	ppb
Rh	103	580570.3		ppb
Cd	111	290172.1	101.20726	ppb
Cd	114	691079.8	105.03857	ppb
Sb	121	996552.5	106.82798	ppb
Sb	123	766206.2	107.41804	ppb
Ho	165	1002564.7		ppb
Pb	208	4413858.9	104.45916	ppb
Kr	83	-17564.9		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 B H

Sample Date: Wednesday, August 10, 2011 08:06:15

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	48416.8		ppb
Sc	45	309812.9		ppb
Cr	52	35899.9	2.15333	ppb
Cr	53	39824.6	18.53859	ppb
Mn	55	65856.2	0.7393	ppb
Co	59	1326.1	0.07277	ppb
Ni	60	5915.3	1.8143	ppb
As	75	17396.3	4.22647	ppb
Se	77	32958.4	74.49292	ppb
Se	82	36219	63.99293	ppb
Rh	103	658900.4		ppb
Cd	111	1483.7	0.44787	ppb
Cd	114	2620.9	0.34691	ppb
Sb	121	2158.6	0.20025	ppb
Sb	123	1643.8	0.19743	ppb
Ho	165	1074154.2		ppb
Pb	208	45259.3	0.68719	ppb
Kr	83	204		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: 17071-21 BH

Sample Date: Wednesday, August 10, 2011 08:08:22

Sample Date: Airtech

Concentration Results

Analyte	Mass	Meas. Intens	Conc.	Meas Report Unit
Li	6	48185.3		ppb
Sc	45	292034.7		ppb
Cr	52	617649.8	51.86827	ppb
Cr	53	101037.3	62.81526	ppb
Mn	55	984738.1	48.37956	ppb
Co	59	671973.3	48.2477	ppb
Ni	60	147541.6	49.71797	ppb
As	75	206165.5	54.66515	ppb
Se	77	50218.3	118.9168	ppb
Se	82	59504.7	109.6641	ppb
Rh	103	633242.7		ppb
Cd	111	123100.7	39.35184	ppb
Cd	114	287891.1	40.09916	ppb
Sb	121	485179.8	51.04456	ppb
Sb	123	371296.8	51.08428	ppb
Ho	165	1021436.9		ppb
Pb	208	2096792.3	48.54618	ppb
Kr	83	166.7		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 1

Sample Date: Wednesday, August 10, 2011 08:10:30

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc. Meas	Report Unit
Li	6	43220.2		ppb
Sc	45	246537.4		ppb
Cr	52	9372.2	0.09573	ppb
Cr	53	7293.7	-2.66778	ppb
Mn	55	45739.4	0.06368	ppb
Co	59	352	0.00927	ppb
Ni	60	362.3	0.02649	ppb
As	75	520.5	-0.06863	ppb
Se	77	547.4	0.03428	ppb
Se	82	113.7	-0.12112	ppb
Rh	103	577353.5		ppb
Cd	111	53.6	0.01114	ppb
Cd	114	84.2	0.00847	ppb
Sb	121	259.7	0.01391	ppb
Sb	123	213.8	0.01433	ppb
Ho	165	938604		ppb
Pb	208	12514.4	0.00153	ppb
Kr	83	184.6		mg/L

Method 6020 & 200.8 Metals Summary Report

Sample ID: QC Std 4

Sample Date: Wednesday, August 10, 2011 08:12:37

Sample Description:

Concentration Results

Analyte	Mass	Meas. Intens	Conc. Meas	Report Unit
Li	6	44860.2		ppb
Sc	45	260834.4		ppb
Cr	52	1136085.2	105.54245	ppb
Cr	53	139085.6	99.22382	ppb
Mn	55	1843189.1	102.08423	ppb
Co	59	1311633.4	103.39055	ppb
Ni	60	275762.4	102.1161	ppb
As	75	331052.9	96.50442	ppb
Se	77	35779.3	92.67051	ppb
Se	82	46015.4	92.97689	ppb
Rh	103	577217.4		ppb
Cd	111	272375.9	95.53402	ppb
Cd	114	641595.3	98.06409	ppb
Sb	121	976790.2	108.35684	ppb
Sb	123	759924.6	110.2504	ppb
Ho	165	968921.1		ppb
Pb	208	4244570.6	103.96677	ppb
Kr	83	-17602.1		mg/L



AIRTECH
*Environmental
Services Inc.*

Ion Chromatography Analytical Report

Performed for
Big Rivers Energy
Wilson Station
(Coal)
Project No. 3648
August 16, 2011

Analyst: _____

Michael Ogletree

Reviewer: _____

Patrick Clark P.E.

Table of Contents

PROJECT SUMMARY	2
<i>General.....</i>	<i>2</i>
<i>Analytical Equipment.....</i>	<i>2</i>
<i>Condition of Samples When Received.....</i>	<i>2</i>
<i>Methodology.....</i>	<i>3</i>
<i>Detection Limit.....</i>	<i>3</i>
<i>QA/QC.....</i>	<i>3</i>

APPENDIX

- Results*
- Calibration Data*
- Raw Data*
- Chain of Custody*

Project Summary

General

Project Information	
Date Received	8/1/2011
Analytical Protocol	EPA Method 26A
Total Number of Samples Received	16
Total Number of Blanks Received	1

Analytical Equipment

Equipment Information	Manufacturer	Model	Serial No.
Ion Chromatograph	Dionex	ICS-90	02070247
Analytical Column	Dionex	AS14A	007967
Guard Column	Dionex	AG14A	009807
Anion Suppressor	Dionex	AMMS III 4 mm	1934

Parameters	Conditions
Eluent	8.0 mM Sodium Carbonate/1.0 mM Sodium Bicarbonate
Regenerant	0.075 N Sulfuric Acid
Sample Volume	10 µl
Flow Rate	1.0 ml/m
Back Pressure	2,700 PSI

Condition of Samples When Received

Samples were received for analysis in good condition. The samples are summarized in the table below:

Sample ID	Solution	Volume (ml)
ESP 1 R4-IMP-26A	0.1 N H ₂ SO ₄	503
ESP 1 R5-IMP-26A	0.1 N H ₂ SO ₄	485
ESP 1 R6-IMP-26A	0.1 N H ₂ SO ₄	510
ESP 2 R4-IMP-26A	0.1 N H ₂ SO ₄	499
ESP 2 R5-IMP-26A	0.1 N H ₂ SO ₄	533
ESP 2 R6-IMP-26A	0.1 N H ₂ SO ₄	543
ESP 3 R4-IMP-26A	0.1 N H ₂ SO ₄	462
ESP 3 R5-IMP-26A	0.1 N H ₂ SO ₄	506
ESP 3 R6-IMP-26A	0.1 N H ₂ SO ₄	472
Stack Run 4	0.1 N H ₂ SO ₄	538
Stack Run 5	0.1 N H ₂ SO ₄	553
Stack Run 6	0.1 N H ₂ SO ₄	549
ESP 4 R4-IMP-26A	0.1 N H ₂ SO ₄	493
ESP 4 R5-IMP-26A	0.1 N H ₂ SO ₄	536
ESP 4 R6-IMP-26A	0.1 N H ₂ SO ₄	523
Reagent Blank	0.1 N H ₂ SO ₄	488

Methodology

All samples were analyzed according to the EPA Method 26 A procedures found in 40 CFR Part 60 Appendix A.

Detection Limit

The detection limits for HCl and HF were determined using the procedures found in 40 CFR Part 236, Appendix B, entitled "Definition and Procedure for the Determination of the Method Detection Limit". Seven injections of the 0.5 µg/ml standard were analyzed. The detection limit was determined to be <0.0442 µg/ml for Cl⁻ and <0.0647 µg/ml for F⁻.

QA/QC

All sample analysis was performed in duplicate with a percent difference within five percent (5%) of the mean.

The chloride and fluoride calibration curve were generated using four calibration standards. The standards were prepared by diluting NIST traceable chloride and fluoride standards with 0.2 N H₂SO₄.

The chloride standard used for this project was a 2000 µg/ml chloride solution, lot number 030523, manufactured by Dionex Corporation of Sunnyvale, California.

The fluoride standard used for this project was a 2000 µg/ml fluoride solution, lot number 092209, manufactured by Dionex Corporation of Sunnyvale, California.

Results that were determined to be below the lowest calibration standard and above the minimum detection limit were calculated using the corresponding average response factor.

Samples that were found to have concentrations above the highest calibration standard were diluted with deionized water to fall within the calibration curve.

Appendix

Includes the following:

- **Results**
- **Calibration Data**
- **Raw Data**
- **Chain of Custody**

Results

Includes the following:

- **Hydrogen Chloride Results**
- **Hydrogen Fluoride Results**

HYDROGEN FLUORIDE ANALYSIS

Sample Parameters	Reagent Blank	ESP Exhaust 1 Run 4	ESP Exhaust 1 Run 5	ESP Exhaust 1 Run 6
Volume (ml)	482	503	485	510
Dilution factor	1	1	1	1
Peak Area # 1	0.0130	0.7420	1.0610	2.1287
Peak Area # 2	0.0130	0.7460	1.0030	2.1350
Average	0.0130	0.744	1.06	2.13
Injections % of mean	0.0%	0.9%	0.9%	0.1%

RESULTS

Average Response Factor	x			
Linear Regression		x	x	x
Fluoride (µg/ml)	0.0918	5.17	7.25	14.2
Hydrogen Fluoride (µg/ml)	0.0968	5.45	7.68	14.9
Hydrogen Fluoride (mg)	0.0472	2.71	3.70	7.60

HYDROGEN CHLORIDE ANALYSIS

Sample Parameters	Reagent Blank	ESP Exhaust 1 Run 4	ESP Exhaust 1 Run 5	ESP Exhaust 1 Run 6
Volume (ml)	485	503	485	510
Dilution factor	1	1	1	1
Peak Area # 1	0.0000	0.9310	1.4320	1.8250
Peak Area # 2	0.0000	0.9360	1.4410	1.8340
Average	0.00	0.988	1.487	1.830
Injections % of mean	NA	0.1%	0.3%	0.2%

RESULTS

Average Response Factor	x			
Linear Regression		x	x	x
Chloride (µg/ml)	< 0.0441	9.33	14.0	17.8
Hydrogen Chloride (µg/ml)	< 0.0454	9.91	14.4	18.3
Hydrogen Chloride (mg)	< 0.0222	4.88	6.97	9.33

HYDROGEN FLUORIDE ANALYSIS

Sample Parameters	ESP Exhaust 2 Run 4	ESP Exhaust 2 Run 5	ESP Exhaust 2 Run 6
Volume (ml)	482	503	513
Dilution factor	1	1	1
Peak Area # 1	0.5270	0.7150	1.3140
Peak Area # 2	0.5380	0.7710	1.3160
Average	0.532	0.768	1.32
Injections % of mean	0.8%	1.7%	0.1%

RESULTS

Average Response Factor			
Linear Regression	x	x	x
Fluoride (µg/ml)	3.80	6.36	8.87
Hydrogen Fluoride (µg/ml)	4.00	6.84	9.24
Hydrogen Fluoride (mg)	2.00	2.95	5.07

HYDROGEN CHLORIDE ANALYSIS

Sample Parameters	ESP Exhaust 2 Run 4	ESP Exhaust 2 Run 5	ESP Exhaust 2 Run 6
Volume (ml)	499	533	543
Dilution factor	1	1	1
Peak Area # 1	1.2020	1.8250	1.8230
Peak Area # 2	1.1950	1.8230	1.8330
Average	1.20	1.82	1.83
Injections % of mean	0.3%	0.1%	0.1%

RESULTS

Average Response Factor			
Linear Regression	x	x	x
Chloride (µg/ml)	11.7	15.8	17.8
Hydrogen Chloride (µg/ml)	12.0	16.2	18.3
Hydrogen Chloride (mg)	5.99	6.66	9.94

HYDROGEN FLUORIDE ANALYSIS

Sample Parameters	ESP Exhaust 3 Run 4	ESP Exhaust 3 Run 5	ESP Exhaust 3 Run 6
Volume (ml)	462	506	470
Dilution factor	1	1	1
Peak Area # 1	2 3330	2 3940	2 9230
Peak Area # 2	2 2240	2 7160	2 9450
Average	2 33	2 70	2 93
Injections % of mean	0 1%	0 3%	0 4%

RESULTS

Average Response Factor			
Linear Regression	x	x	x
Fluoride (µg/ml)	15 4	17 8	19 3
Hydrogen Fluoride (µg/ml)	16 3	18 8	20 1
Hydrogen Fluoride (mg)	7 51	9 51	9 62

HYDROGEN CHLORIDE ANALYSIS

Sample Parameters	ESP Exhaust 3 Run 4	ESP Exhaust 3 Run 5	ESP Exhaust 3 Run 6
Volume (ml)	462	506	470
Dilution factor	1	1	1
Peak Area # 1	2 3780	2 5110	2 4860
Peak Area # 2	2 3500	2 5260	2 5120
Average	2 358	2 519	2 500
Injections % of mean	0 9%	0 3%	0 5%

RESULTS

Average Response Factor			
Linear Regression	x	x	x
Chloride (µg/ml)	22 9	24 4	24 3
Hydrogen Chloride (µg/ml)	23 8	25 1	25 0
Hydrogen Chloride (mg)	10 9	12 7	11 8

HYDROGEN FLUORIDE ANALYSIS

Sample Parameters	Stack Run 4	Stack Run 5	Stack Run 6
Volume (ml)	539	553	549
Dilution factor	1	1	1
Peak Area # 1	0 0270	0 0220	0 0230
Peak Area # 2	0 0280	0 0230	0 0240
Average	0 0275	0 0215	0 0235
Injections % of mean	1 8%	2 3%	2 1%

RESULTS

Average Response Factor	x	x	x
Linear Regression			
Fluoride (µg/ml)	0 194	0 152	0 196
Hydrogen Fluoride (µg/ml)	0 201	0 160	0 175
Hydrogen Fluoride (mg)	0 110	0 0884	0 0959

HYDROGEN CHLORIDE ANALYSIS

Sample Parameters	Stack Run 4	Stack Run 5	Stack Run 6
Volume (ml)	538	553	549
Dilution factor	1	1	1
Peak Area # 1	0 0440	0 0380	0 0330
Peak Area # 2	0 0430	0 0380	0 0330
Average	0 0435	0 0370	0 0330
Injections % of mean	1 1%	2 7%	0 0%

RESULTS

Average Response Factor	x	x	x
Linear Regression			
Fluoride (µg/ml)	0 307	0 261	0 374
Hydrogen Chloride (µg/ml)	0 318	0 289	0 385
Hydrogen Chloride (mg)	0 170	0 149	0 211

HYDROGEN FLUORIDE ANALYSIS

Sample Parameters	ESP Exhaust 4 Run 4	ESP Exhaust 4 Run 5	ESP Exhaust 4 Run 6
Volume (ml)	493	503	523
Dilution factor	2	1	1
Peak Area # 1	0.3680	0.3130	1.6820
Peak Area # 2	0.0370	0.9360	1.0640
Average	0.568	0.910	1.08
Injections % of mean	0.1%	0.4%	0.1%

RESULTS

Average Response Factor			
Linear Regression	x	x	x
Fluoride (µg/ml)	5.47	6.24	7.24
Hydrogen Fluoride (µg/ml)	2.76	6.57	7.62
Hydrogen Fluoride (mg)	2.84	3.52	3.89

HYDROGEN CHLORIDE ANALYSIS

Sample Parameters	ESP Exhaust 4 Run 4	ESP Exhaust 4 Run 5	ESP Exhaust 4 Run 6
Volume (ml)	493	503	523
Dilution factor	2	1	1
Peak Area # 1	0.8670	1.3360	1.4130
Peak Area # 2	0.5710	1.5510	1.4320
Average	0.569	1.34	1.42
Injections % of mean	0.4%	0.6%	0.7%

RESULTS

Average Response Factor			
Linear Regression	x	x	x
Chloride (µg/ml)	11.2	13.1	13.3
Hydrogen Chloride (µg/ml)	11.5	13.5	14.2
Hydrogen Chloride (mg)	5.66	7.21	7.45

Calibration Data

Includes the following:

- **Hydrogen Chloride Standards**
- **Hydrogen Fluoride Standards**
- **Detection Limits**
- **Hydrogen Chloride Calibration Curve**
- **Hydrogen Fluoride Calibration Curve**

IC Operating Conditions

Ion Chromatograph	Dionex ICS-90
Data Acquisition	Dionex PeakNet 6.4
Carrier Gas	Nitrogen
Injection Type	Manual
Injection Volume (µl)	10.0
Column Type	AS-14A
Detector Type	Suppressed Conductivity ECD-1

Calibration Summary	Standard 1	Standard 2	Standard 3	Standard 4
Fluoride (µg/ml)	1.0	5.0	10.0	20.0
Pre Analysis Injection # 1	0.1200	0.6730	1.4390	3.0730
Pre Analysis Injection # 2	0.1250	0.6870	1.4690	3.0540
Average	0.127	0.680	1.45	3.06
% difference of injections	3.2%	2.0%	2.0%	0.6%
Post Analysis Injection # 1	0.1370	0.6950	1.4830	3.0350
Post Analysis Injection # 2	0.1320	0.7110	1.4910	3.0320
Average	0.135	0.703	1.48	3.03
% difference of injections	3.8%	2.3%	0.5%	0.1%
Overall Average	0.131	0.692	1.47	3.05
Pre/Post Analysis, % of mean	2.9%	1.7%	1.1%	0.5%

RESULTS

Response Factor	7.65	7.23	6.80	6.56
Average Response Factor	7.06			
Slope	6.47			
Intercept	0.356			

Calibration Summary	Standard 1	Standard 2	Standard 3	Standard 4
Chloride (µg/ml)	1.0	5.0	10.0	20.0
Pre Analysis Injection # 1	0.1020	0.5000	0.9900	2.0520
Pre Analysis Injection # 2	0.1050	0.5050	1.0010	2.0580
Average	0.104	0.503	0.996	2.06
% difference of injections	2.9%	1.0%	1.1%	0.3%
Post Analysis Injection # 1	0.1070	0.5150	1.0150	2.0720
Post Analysis Injection # 2	0.1080	0.5150	1.0190	2.0870
Average	0.108	0.515	1.02	2.08
% difference of injections	0.9%	0.0%	0.4%	0.7%
Overall Average	0.106	0.509	1.01	2.07
Pre/Post Analysis, % of mean	1.9%	1.2%	1.1%	0.6%

RESULTS

Response Factor	9.48	9.83	9.94	9.67
Average Response Factor	9.73			
Slope	9.68			
Intercept	0.0776			

Drift Check (8/4/11)	Chloride	Fluoride
Concentration (µg/ml)	5.0	5.0
Pre Analysis Injection # 1	0.4940	0.6600
Pre Analysis Injection # 2	0.5010	0.6760
Average	0.498	0.668
% difference of injections	1.4%	2.4%

Drift Check (8/5/11)	Chloride	Fluoride
Concentration (µg/ml)	5.0	5.0
Pre Analysis Injection # 1	0.5040	0.6620
Pre Analysis Injection # 2	0.5040	0.6900
Average	0.504	0.676
% difference of injections	0.0%	4.1%

Drift Check (8/8/11)	Chloride	Fluoride
Concentration (µg/ml)	5.0	5.0
Pre Analysis Injection # 1	0.4980	0.5760
Pre Analysis Injection # 2	0.5010	0.5570
Average	0.500	0.667
% difference of injections	0.6%	2.9%

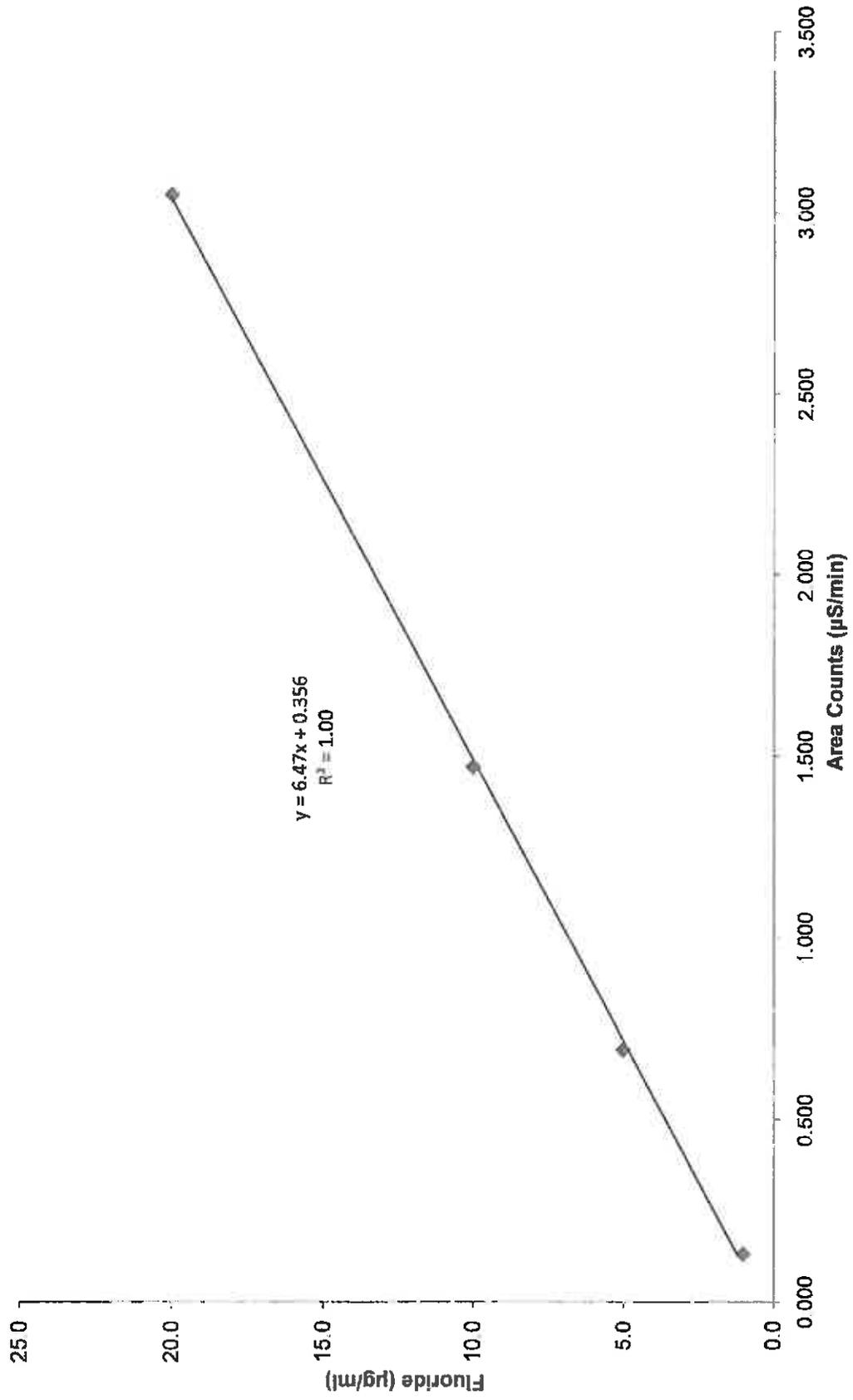
Drift Check (8/9/11)	Chloride	Fluoride
Concentration (µg/ml)	5.0	5.0
Pre Analysis Injection # 1	0.5000	0.6320
Pre Analysis Injection # 2	0.5040	0.6570
Average	0.502	0.645
% difference of injections	0.8%	3.8%

Detection Limit Parameters	Chloride	Fluoride
Standard (µg/ml)	0.5	0.5
Injection 1	0.064	0.073
Injection 2	0.059	0.067
Injection 3	0.059	0.065
Injection 4	0.060	0.065
Injection 5	0.059	0.065
Injection 6	0.058	0.062
Injection 7	0.057	0.064
Average	0.0596	0.0659

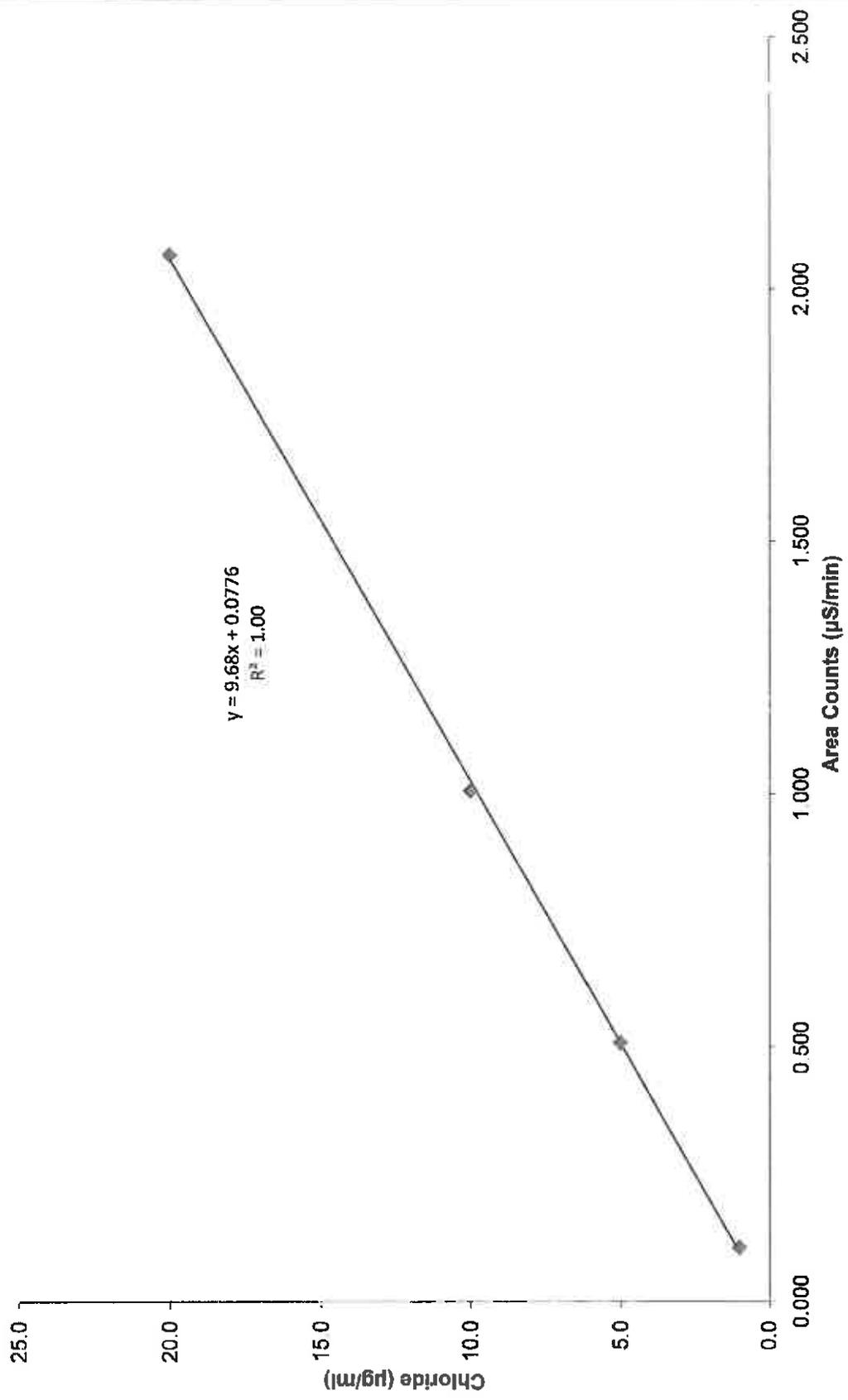
RESULTS

Response Factor	8.39	7.59
Standard Deviation	0.00215	0.00348
No of Samples (n)	7	7
Student t value (t _{0.975})	2.447	2.447
Calculated limit of detection (µg/ml)	0.0441	0.0647

Fluoride Calibration



Chloride Calibration



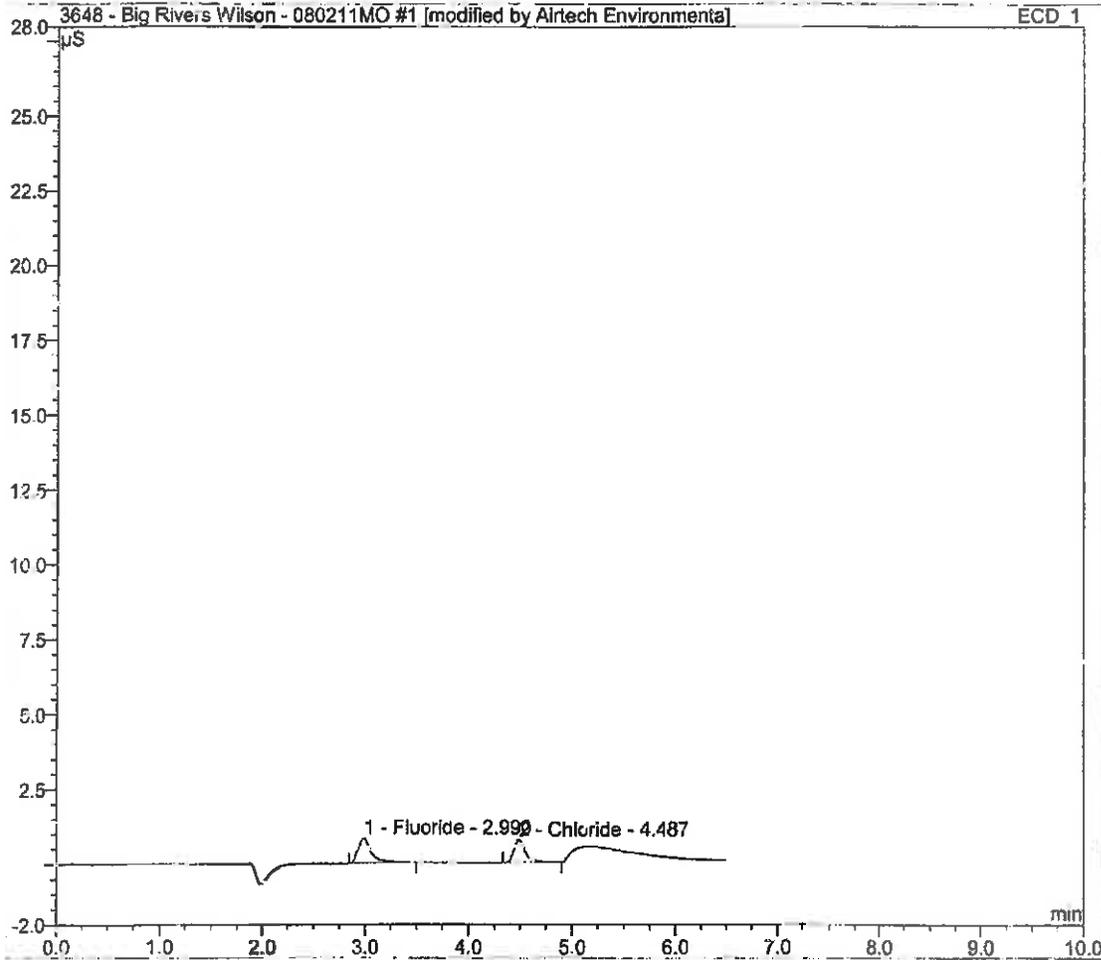
Raw Data

Includes the following:

- **Pre Analysis Chromatograms**
- **Sample Chromatograms**
- **Drift Check Chromatograms**
- **Post Analysis Chromatograms**
- **Lab Book Data Entry**

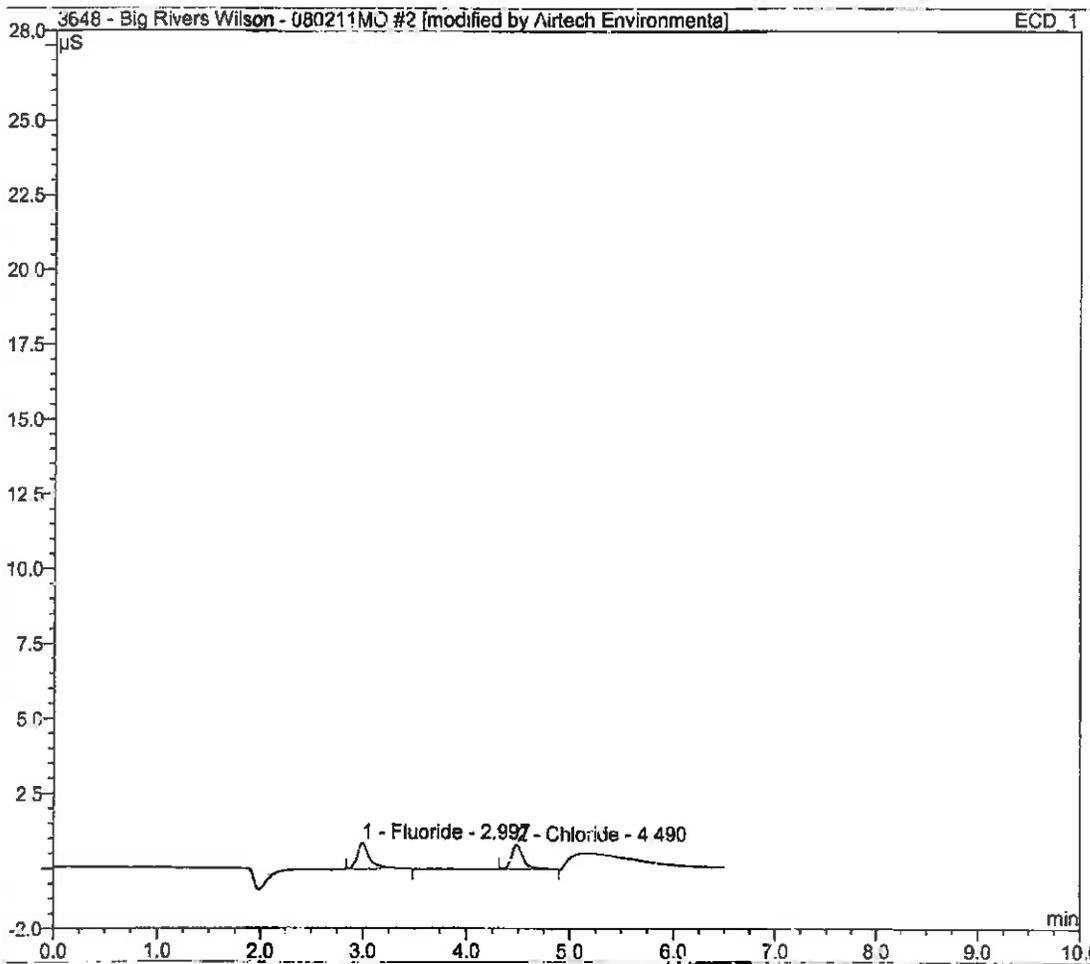
Sample Name:	cal std 1 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	02.08.11 12:56	Run Time:	6.50

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.99	Fluoride	BMB	0.129	0.825	1.0841
2	4.49	Chloride	BMB*	0.102	0.744	1.0687
TOTAL:				0.23	1.57	2.15



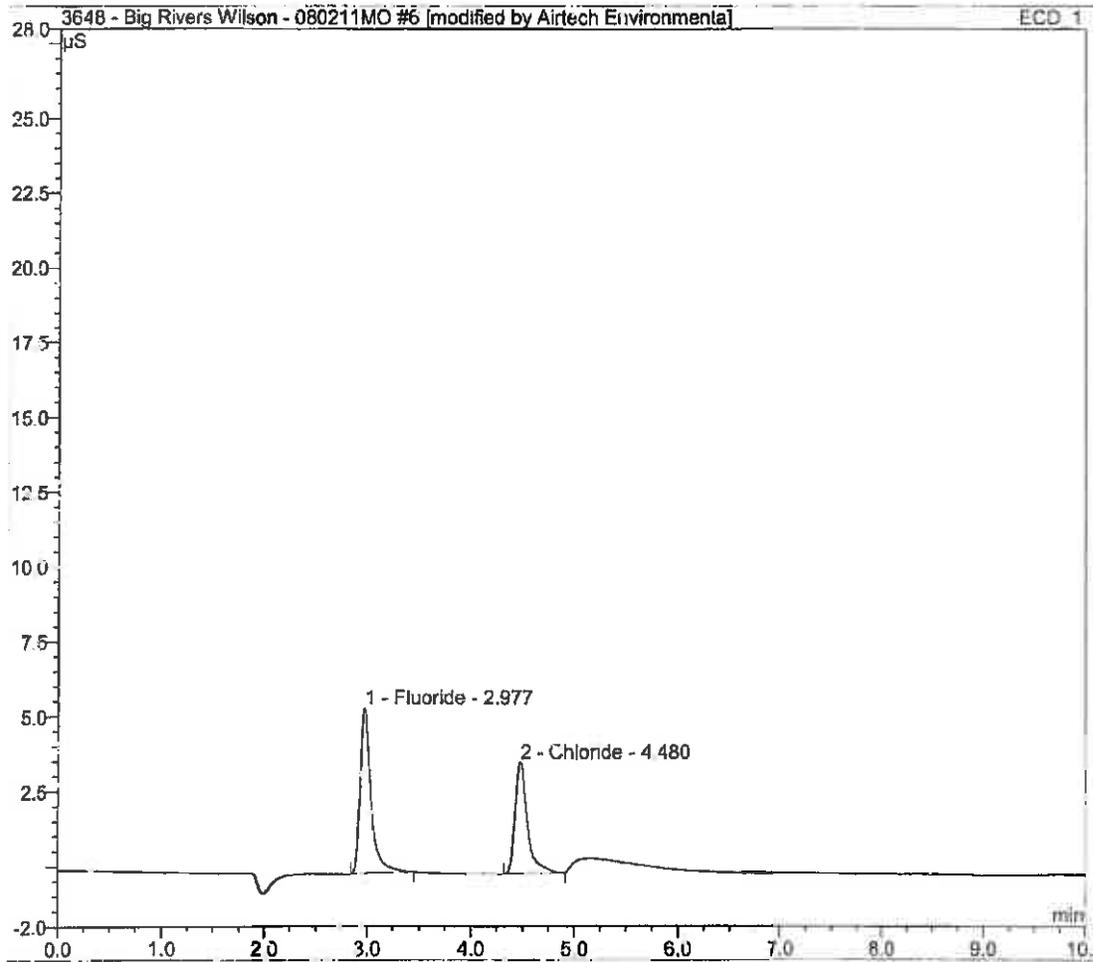
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Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	02.08.11 13:03	Run Time:	6.50

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g}/\text{ml}$
1	3.00	Fluoride	BMB	0.125	0.866	1.0560
2	4.49	Chloride	BMB	0.105	0.782	1.1037
TOTAL:				0.23	1.65	2.16



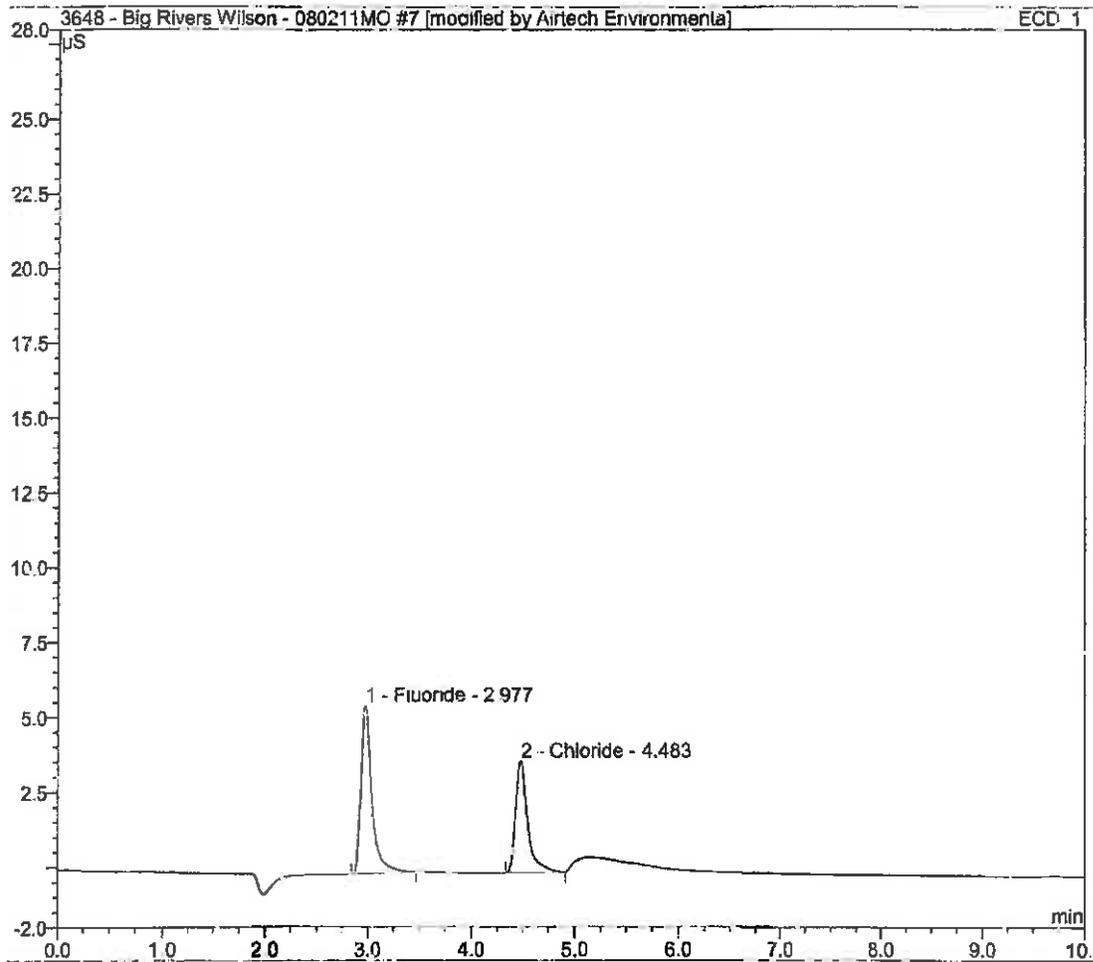
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	02.08.11 14.50	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	0.673	5.476	0.6802
2	4.48	Chloride	BMB*	0.500	3.684	0.7302
TOTAL:				1.17	9.16	1.41



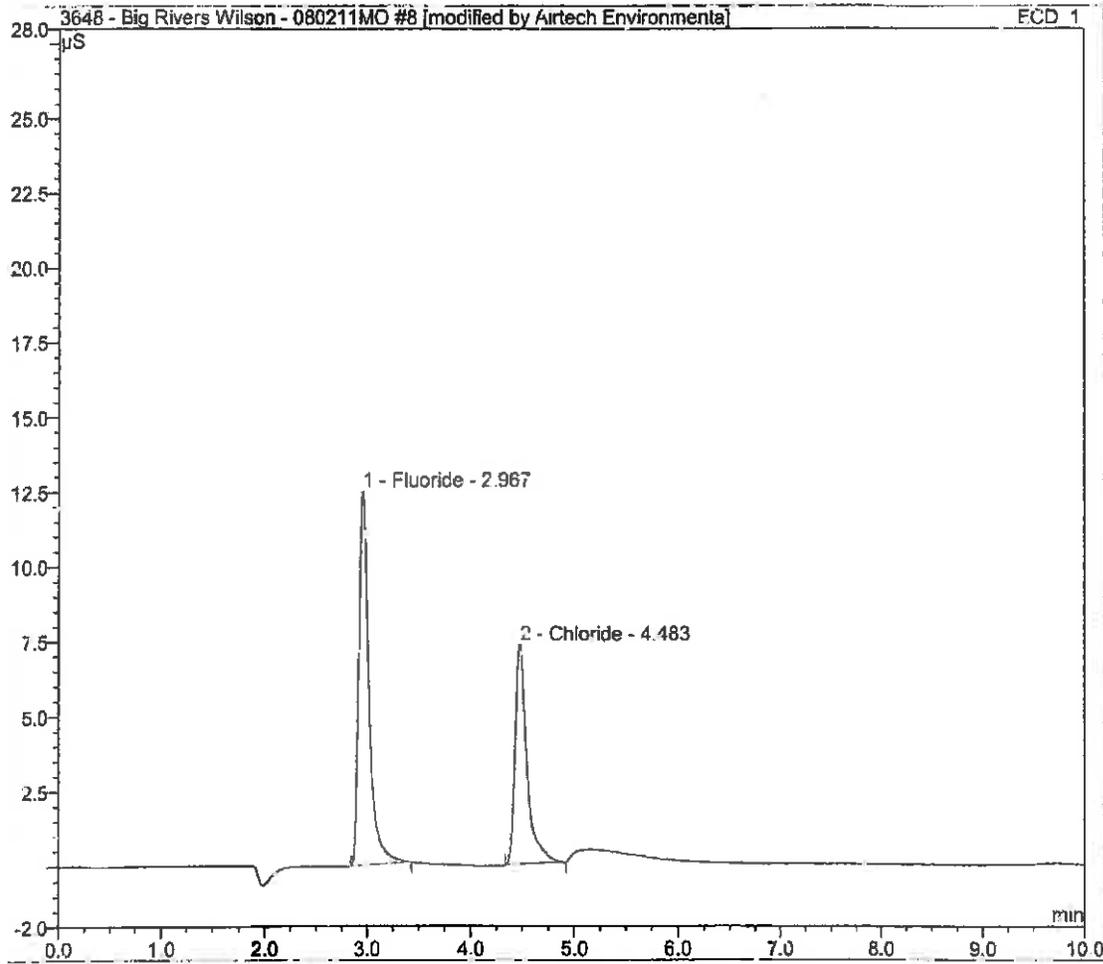
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	02.08.11 15:08	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	0.687	5.583	0.6942
2	4.48	Chloride	BMB*	0.505	3.712	0.7371
TOTAL:				1.19	9.30	1.43



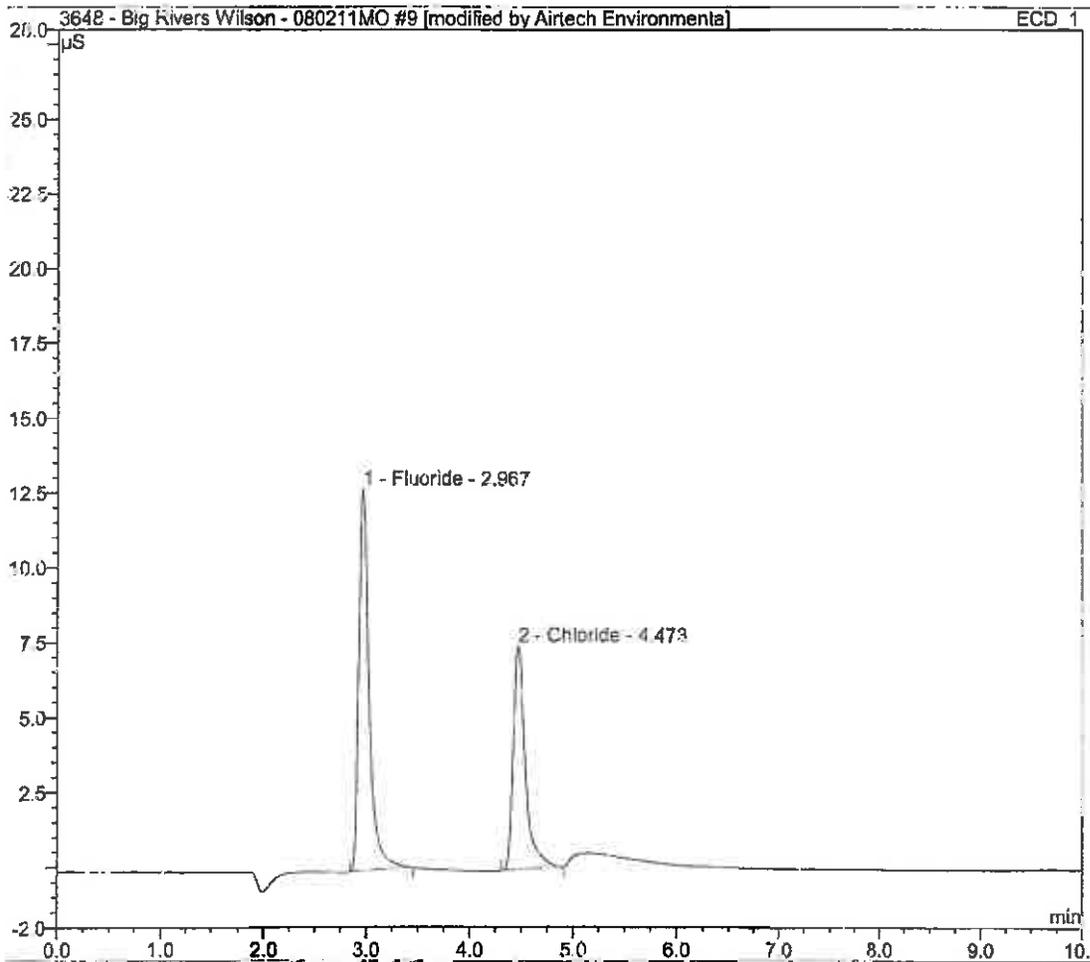
Sample Name:	cal std 3 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 08:18	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	1.439	12.462	1.4549
2	4.48	Chloride	BMB*	0.990	7.326	1.4463
TOTAL:				2.43	19.79	2.90



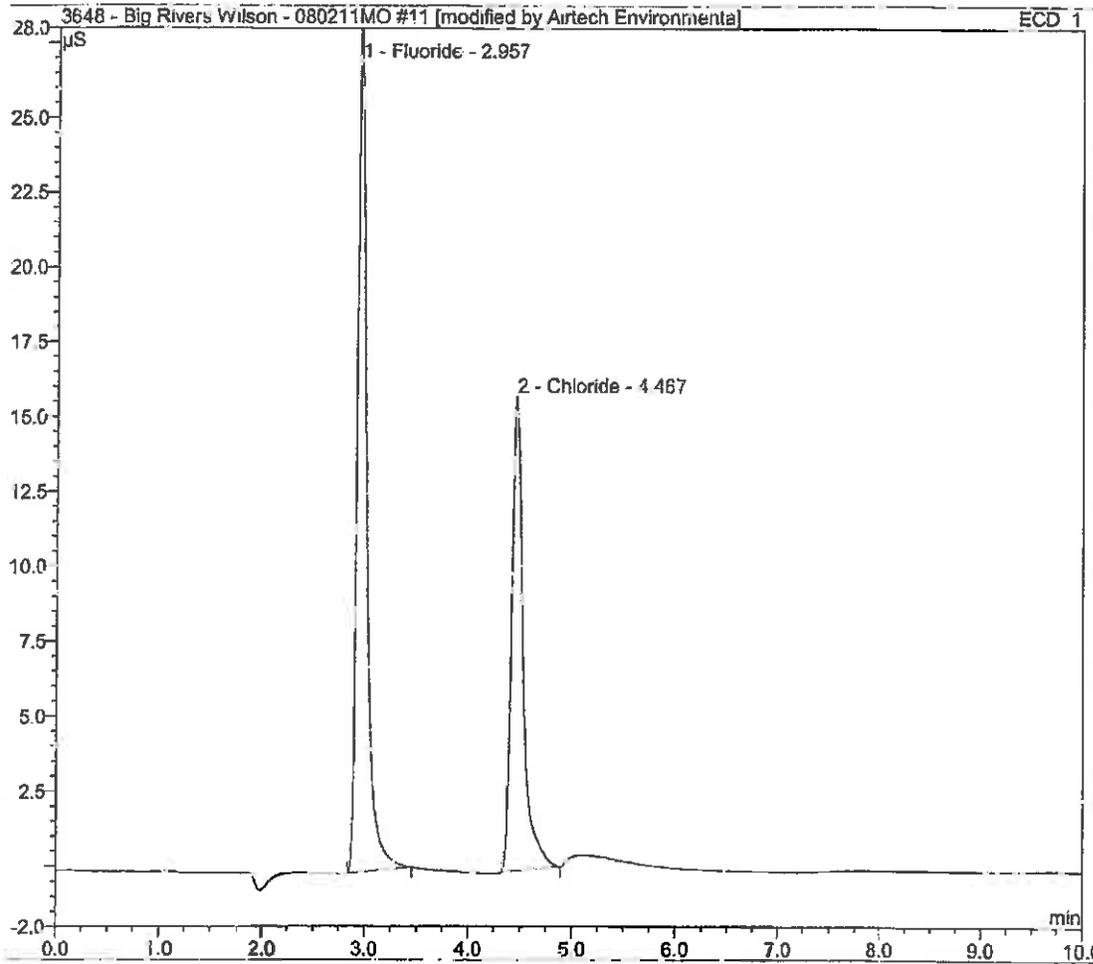
Sample Name:	cal std 3 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 08:34	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	1469	12.759	1.4853
2	4.47	Chloride	BMB*	1001	7.468	1.4626
TOTAL:				2.47	20.23	2.95



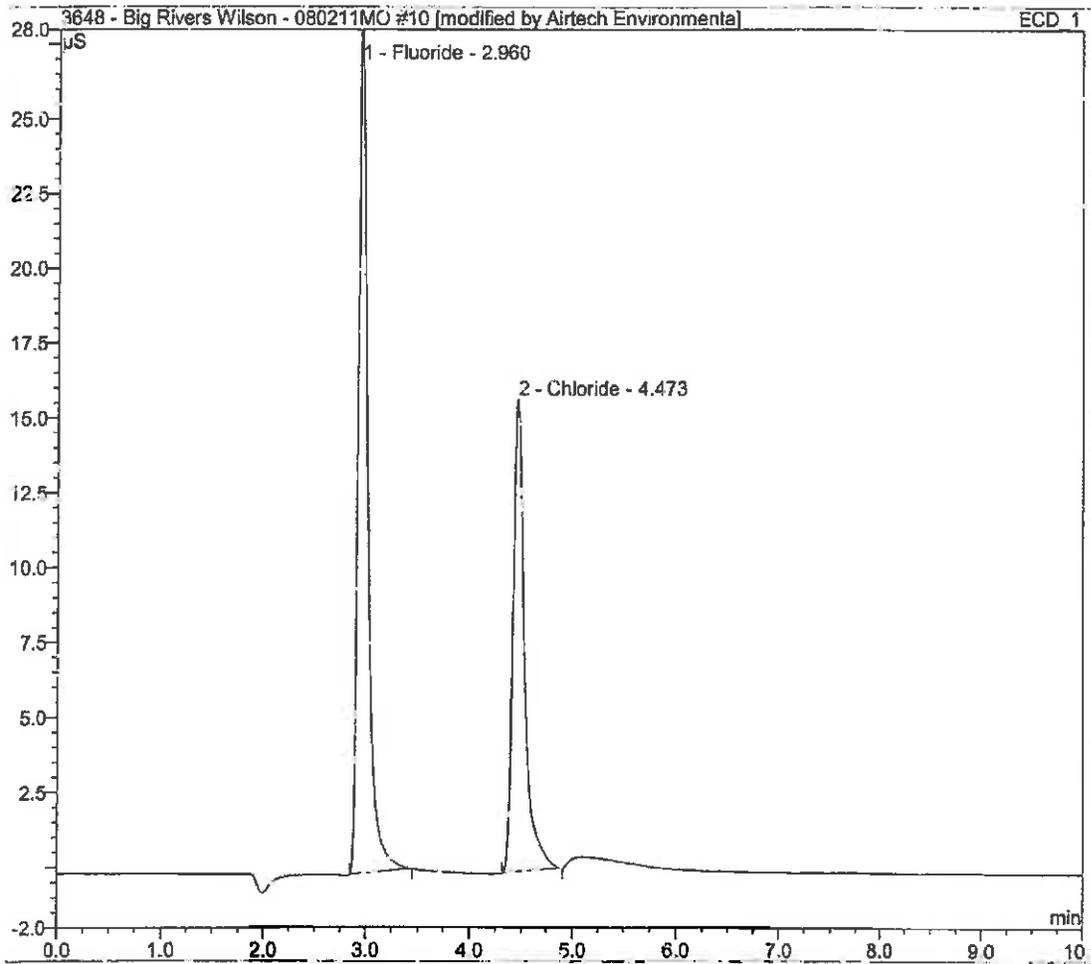
Sample Name:	cal std 4 - Cl & F In H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 09:29	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	3.073	28.599	3.1066
2	4.47	Chloride	BMB*	2.052	15.825	2.9986
TOTAL:				5.13	44.42	6.11



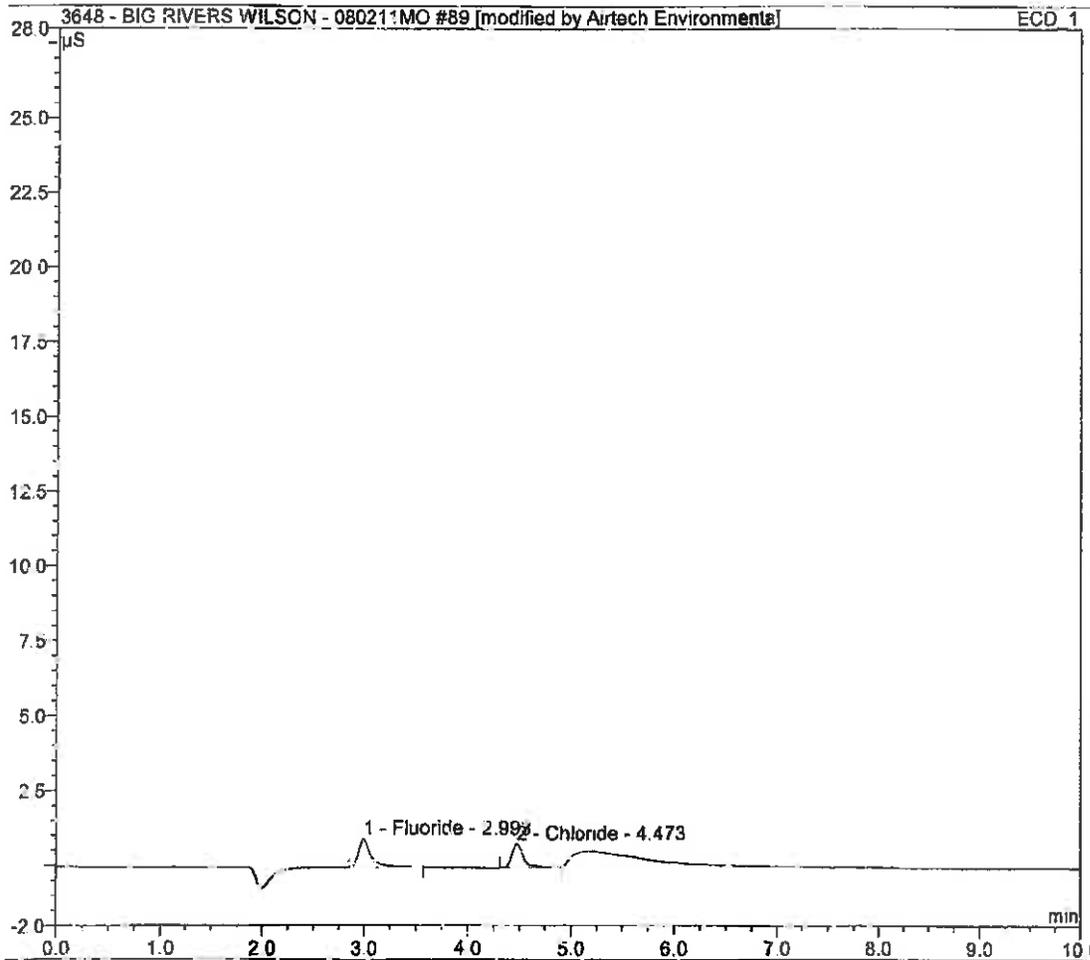
Sample Name:	cal std 4 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 09:10	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	3.054	28.382	3.0876
2	4.47	Chloride	BMB*	2.058	15.771	3.0072
TOTAL:				5.11	44.15	6.09



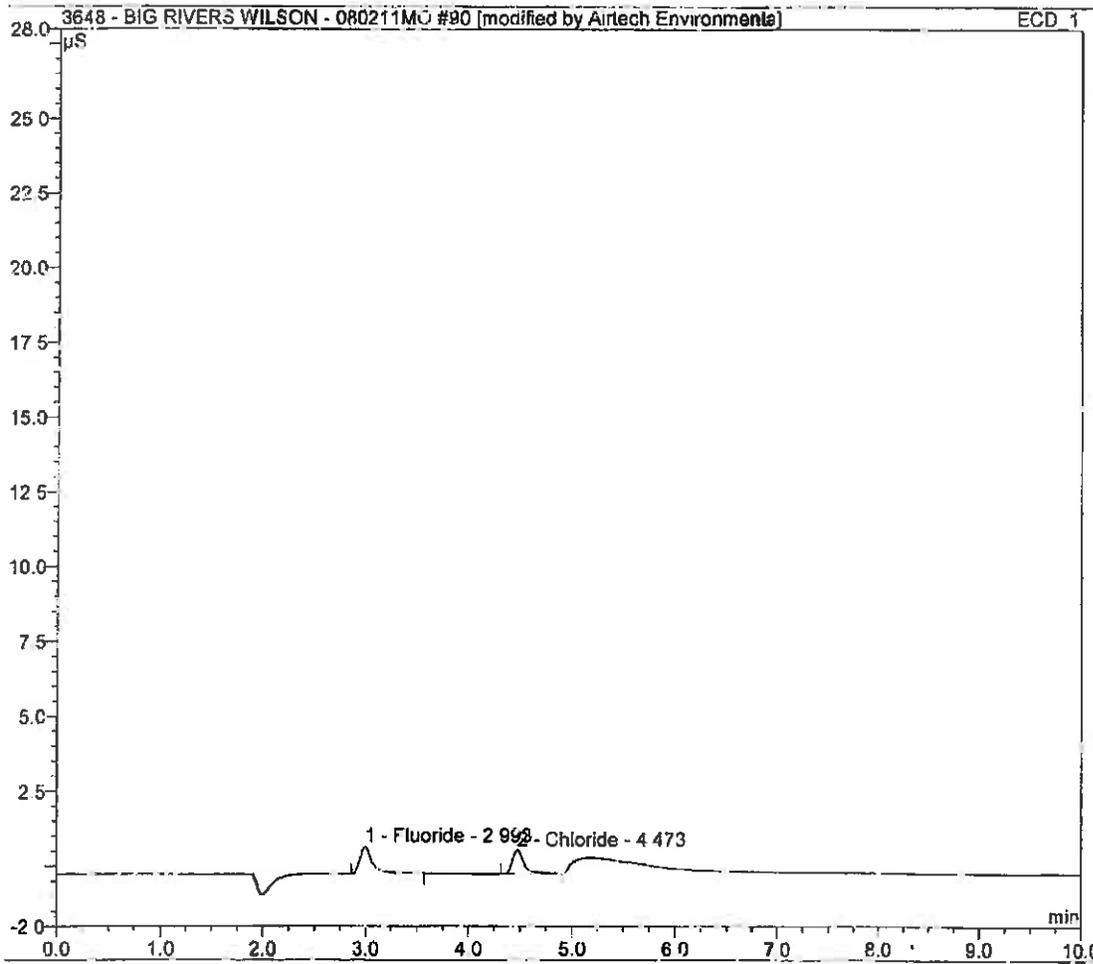
Sample Name:	cal std 1 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 09.37	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.99	Fluoride	BMB*	0.137	0.950	0.1373
2	4.47	Chloride	BMB*	0.107	0.787	0.1630
TOTAL:				0.24	1.74	0.29



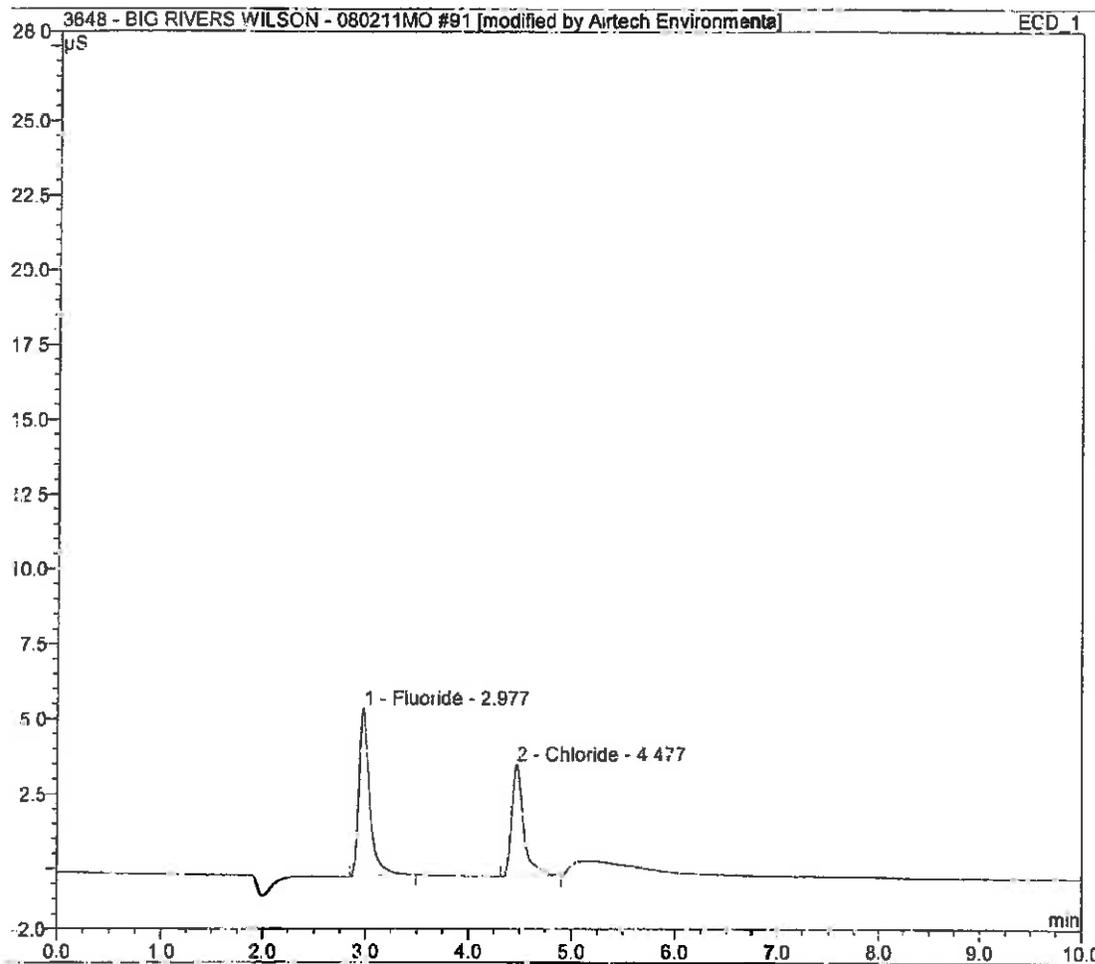
Sample Name:	cal std 1 - Cl & F in H2SO4	Inj. Vol:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 09:53	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}^*\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.99	Fluoride	BMB*	0.132	0.920	0.1325
2	4.47	Chloride	BMB*	0.108	0.805	0.1535
TOTAL:				0.24	1.73	0.29



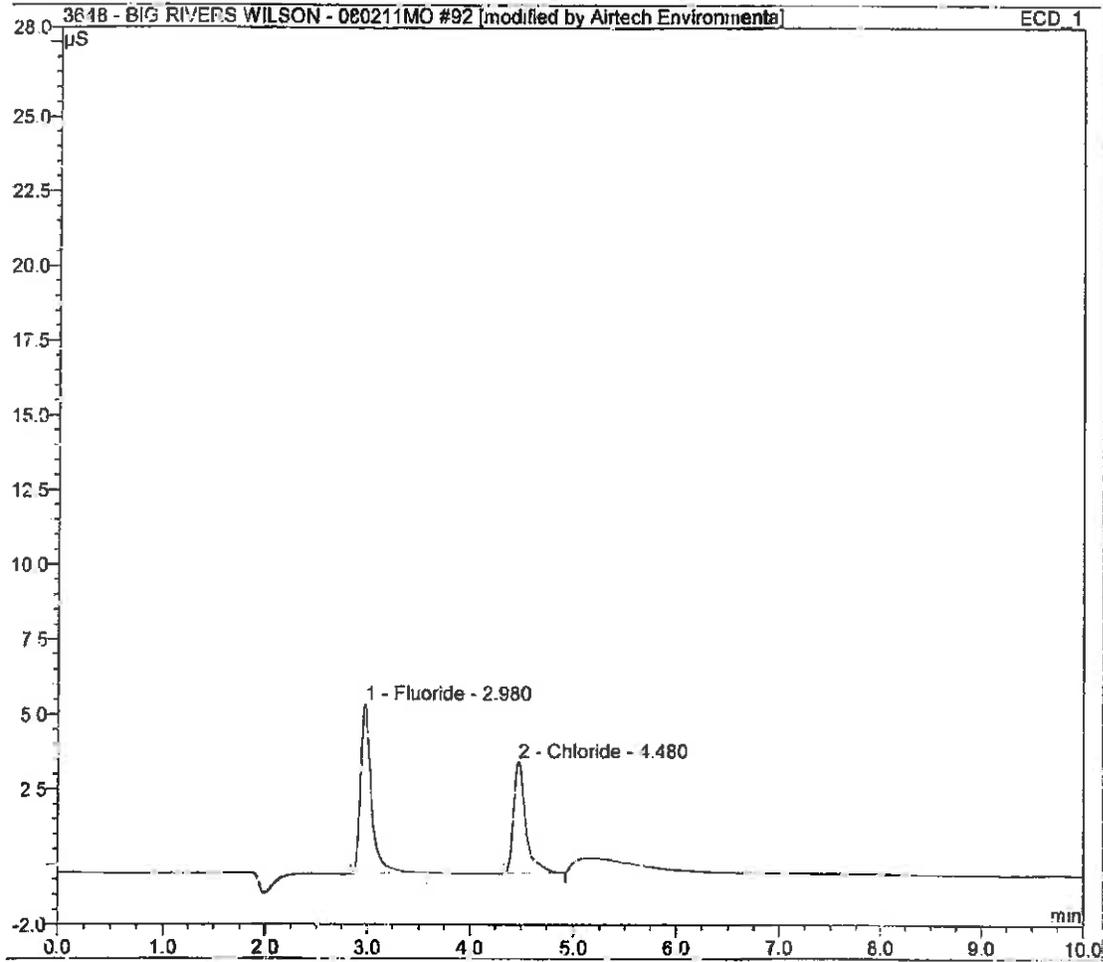
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 10:15	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}^*\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	0.695	5.599	0.6971
2	4.48	Chloride	BMB*	0.515	3.740	0.7333
TOTAL:				1.21	9.34	1.43



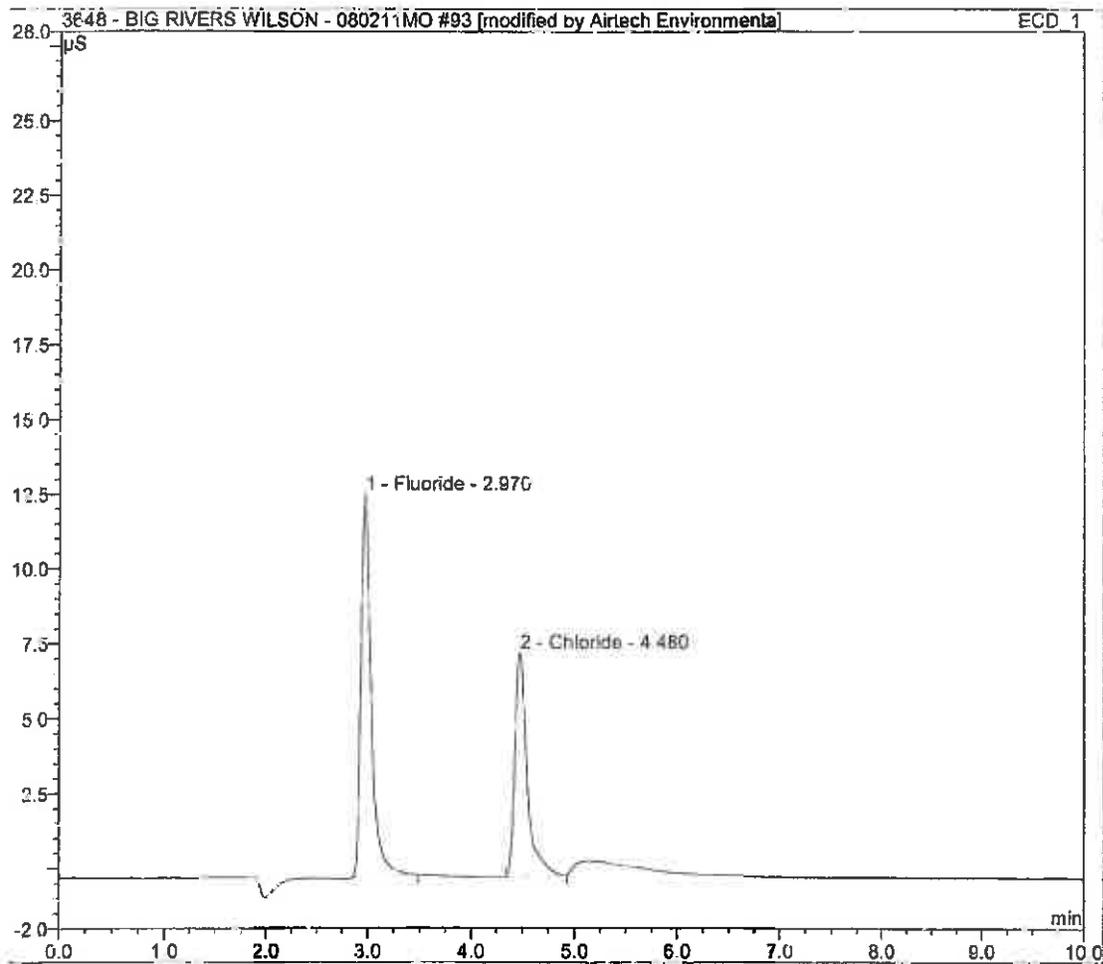
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 10.31	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	0.711	5.681	0.7137
2	4.48	Chloride	BMB*	0.515	3.744	0.7333
TOTAL:				1.23	9.42	1.45



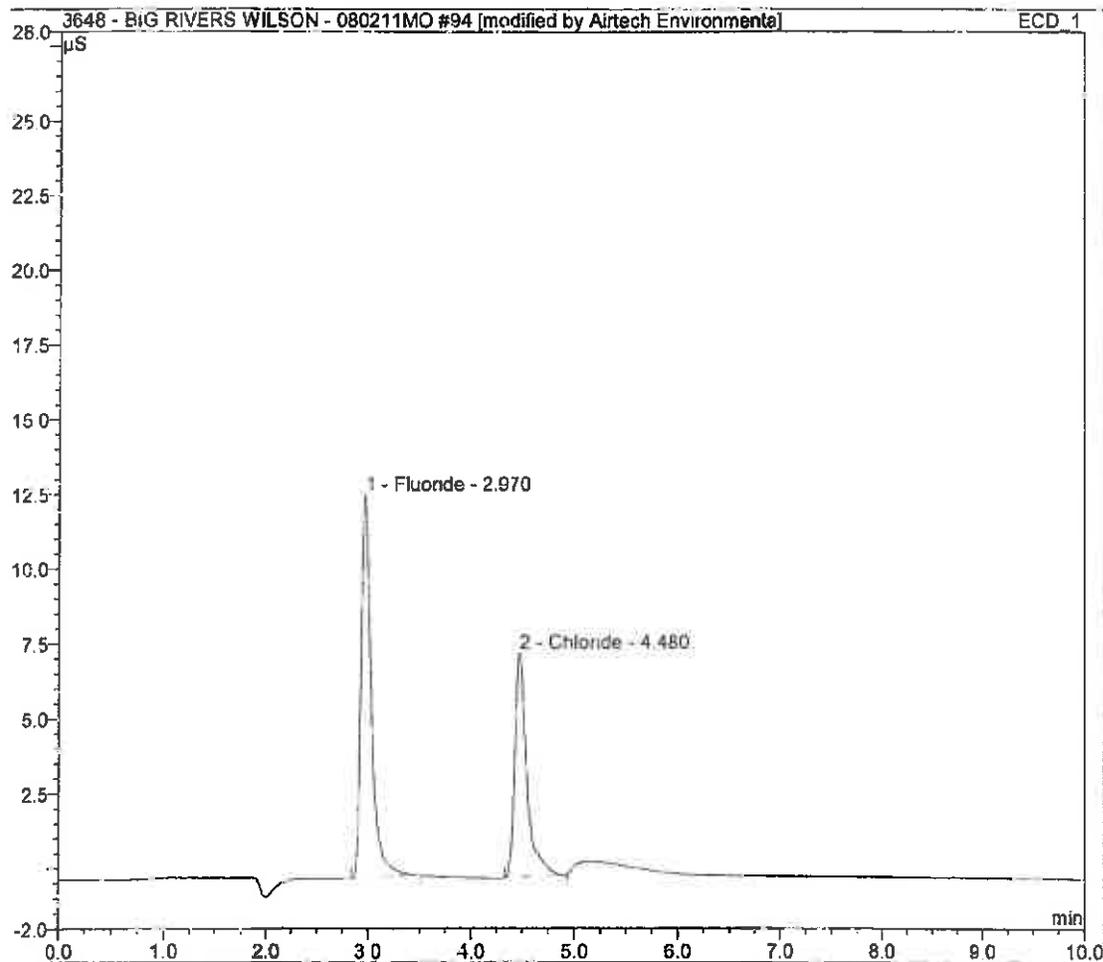
Sample Name:	cal std 3 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 10:51	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	1.483	12.822	1.4882
2	4.48	Chloride	BMB*	1.015	7.483	1.4438
TOTAL:				2.50	20.31	2.93



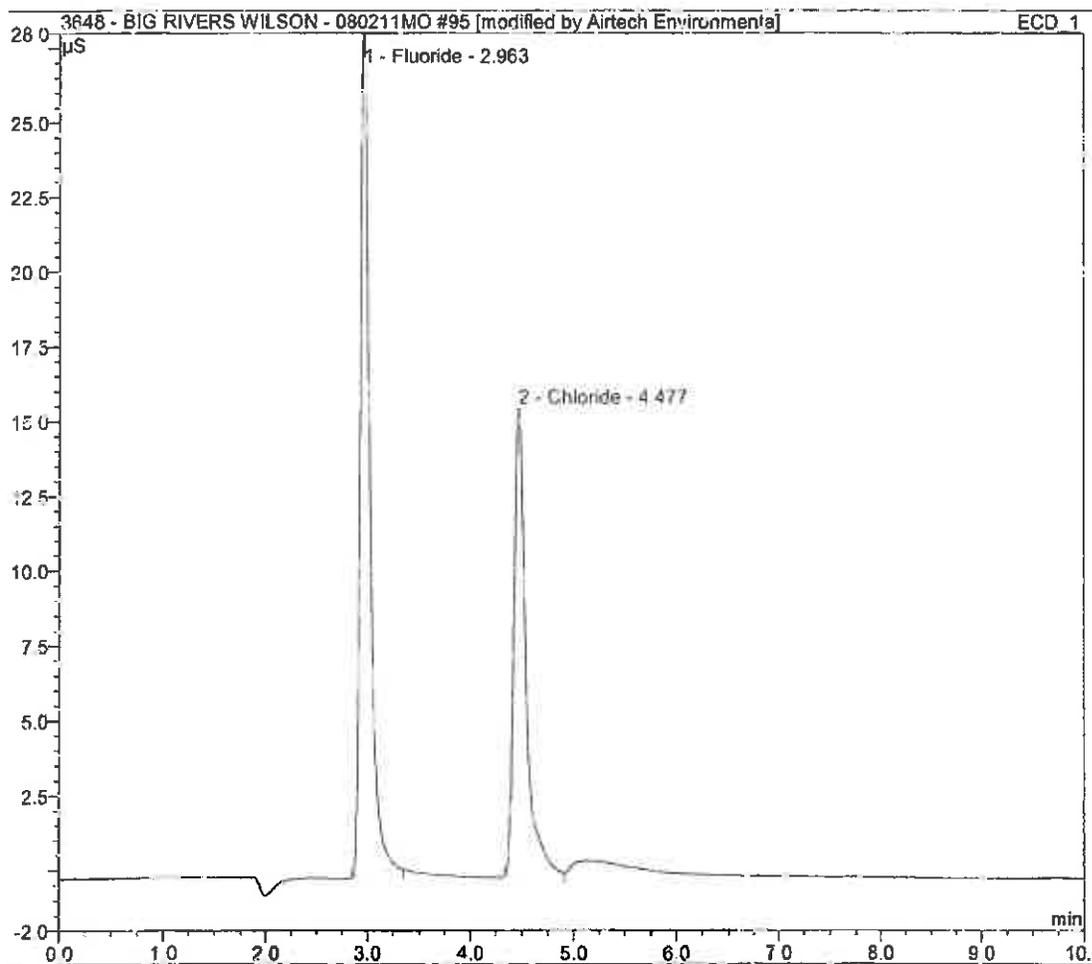
Sample Name:	cal std 3 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 11:19	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	1.491	12.811	1.4965
2	4.48	Chloride	BMB*	1.019	7.495	1.4506
TOTAL:				2.51	20.31	2.95



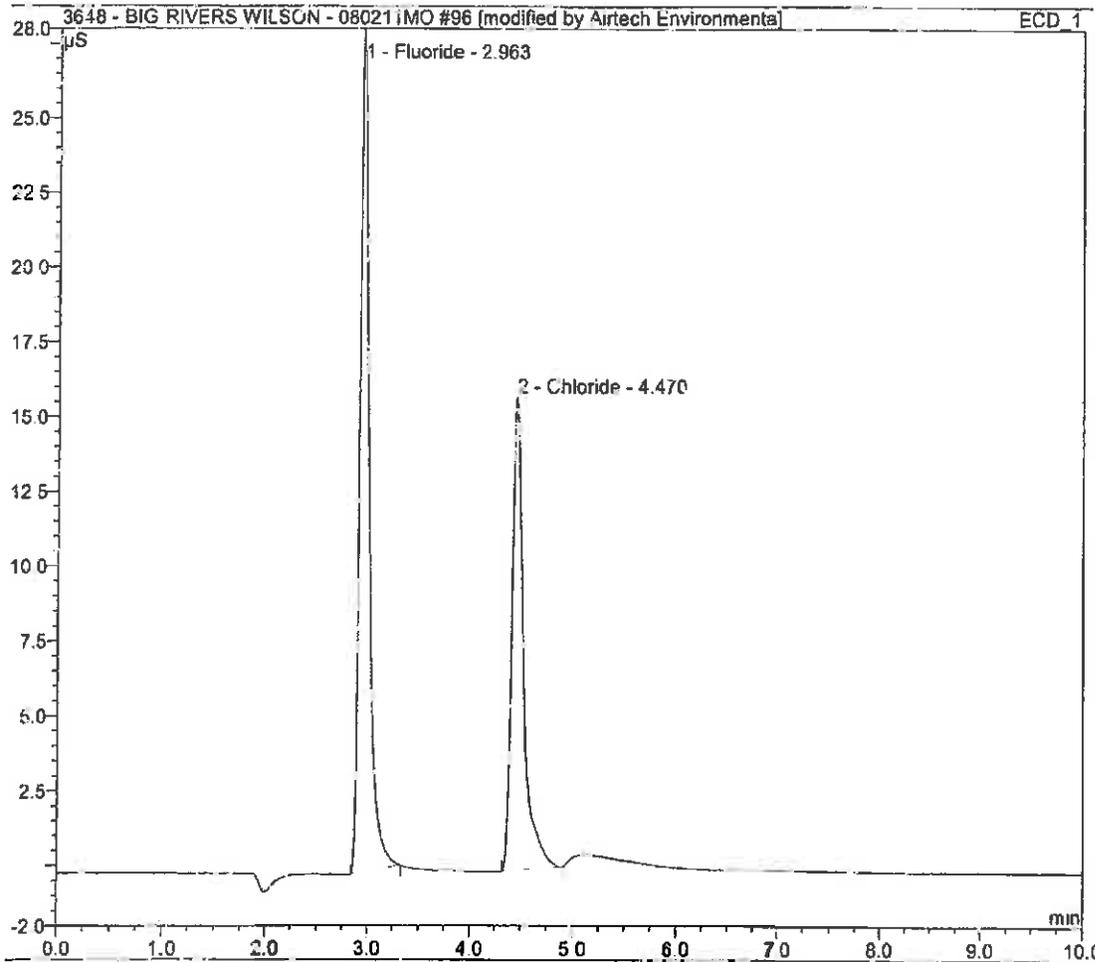
Sample Name:	cal std 4 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 12.01	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	3.035	28.367	3.0458
2	4.48	Chloride	BMB*	2.072	15.653	2.9482
TOTAL:				5.11	44.02	5.99



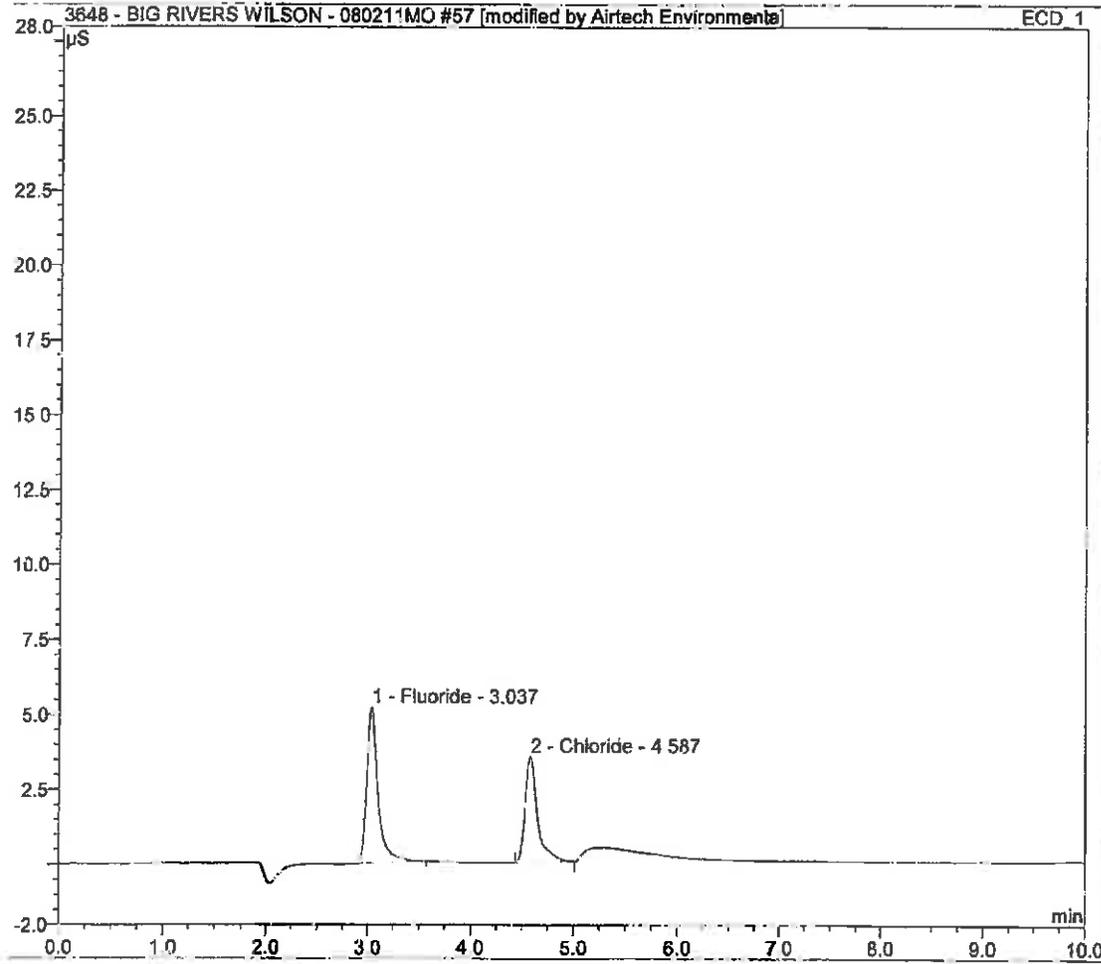
Sample Name:	cal std 4 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 12:22	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	3.032	28.396	3.0428
2	4.47	Chloride	BMB*	2.087	15.796	2.9702
TOTAL:				5.12	44.19	6.01



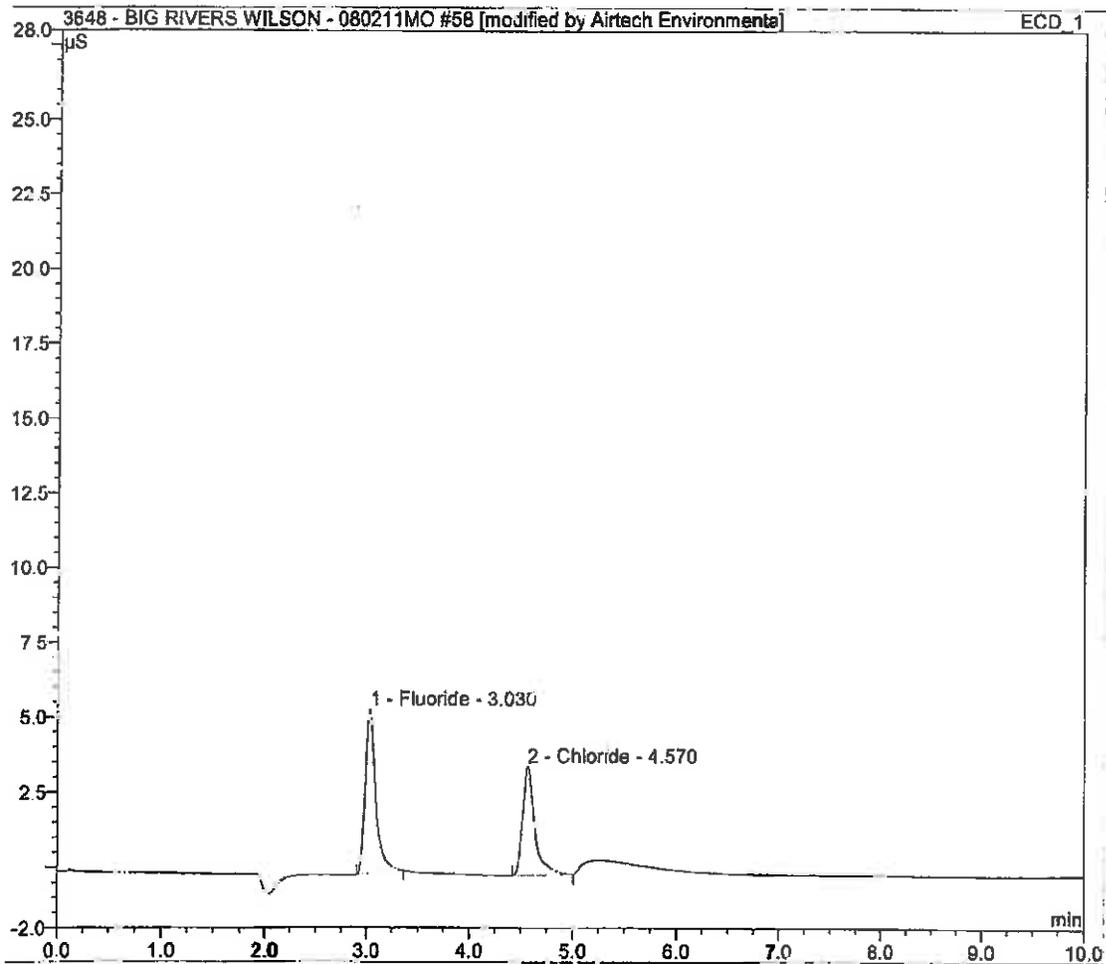
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 10:20	Run Time:	12.23

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	3.04	Fluoride	BMB*	0.676	5.220	0.6782
2	4.59	Chloride	BMB*	0.498	3.532	0.7080
TOTAL:				1.17	8.75	1.39



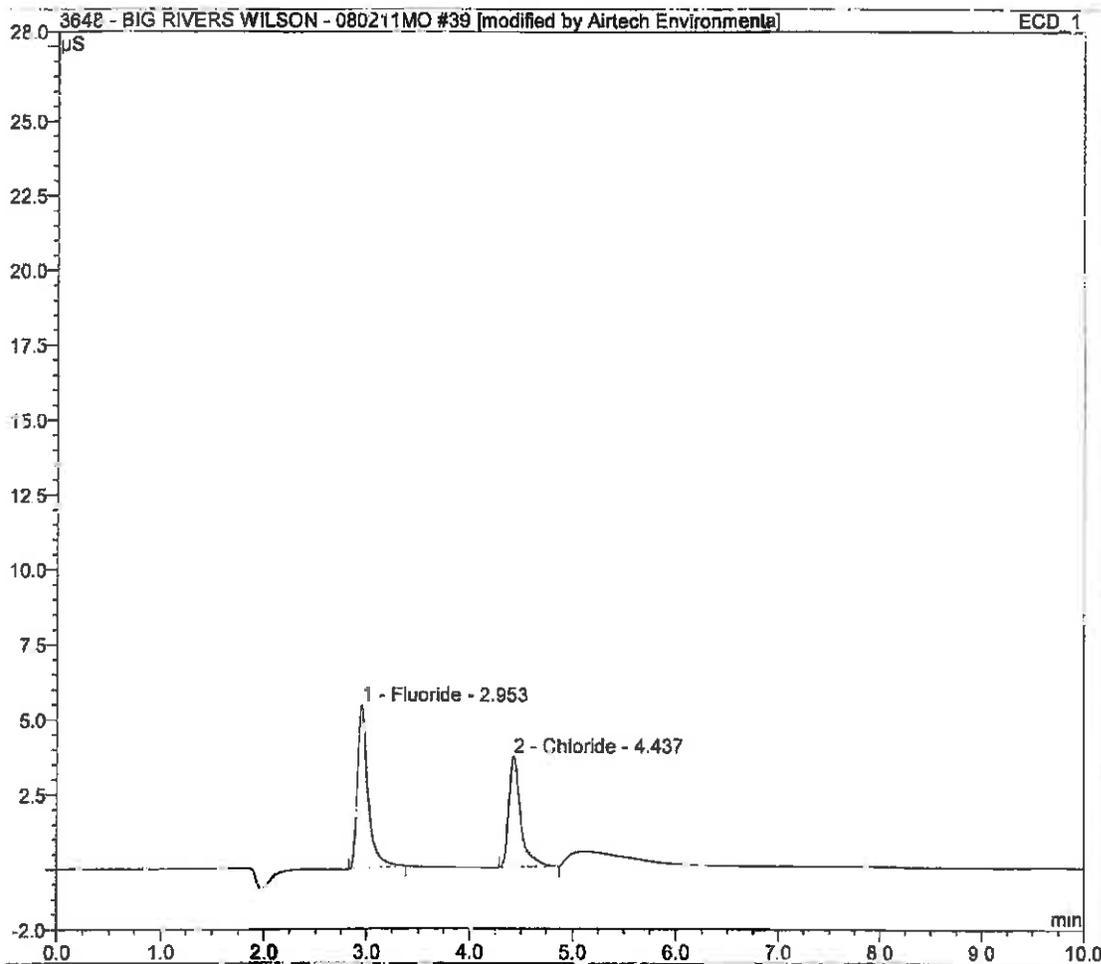
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 10:36	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g}/\text{ml}$
1	3.03	Fluoride	BMB*	0.657	5.477	0.6597
2	4.57	Chloride	BMB*	0.501	3.621	0.7131
TOTAL:				1.16	9.10	1.37



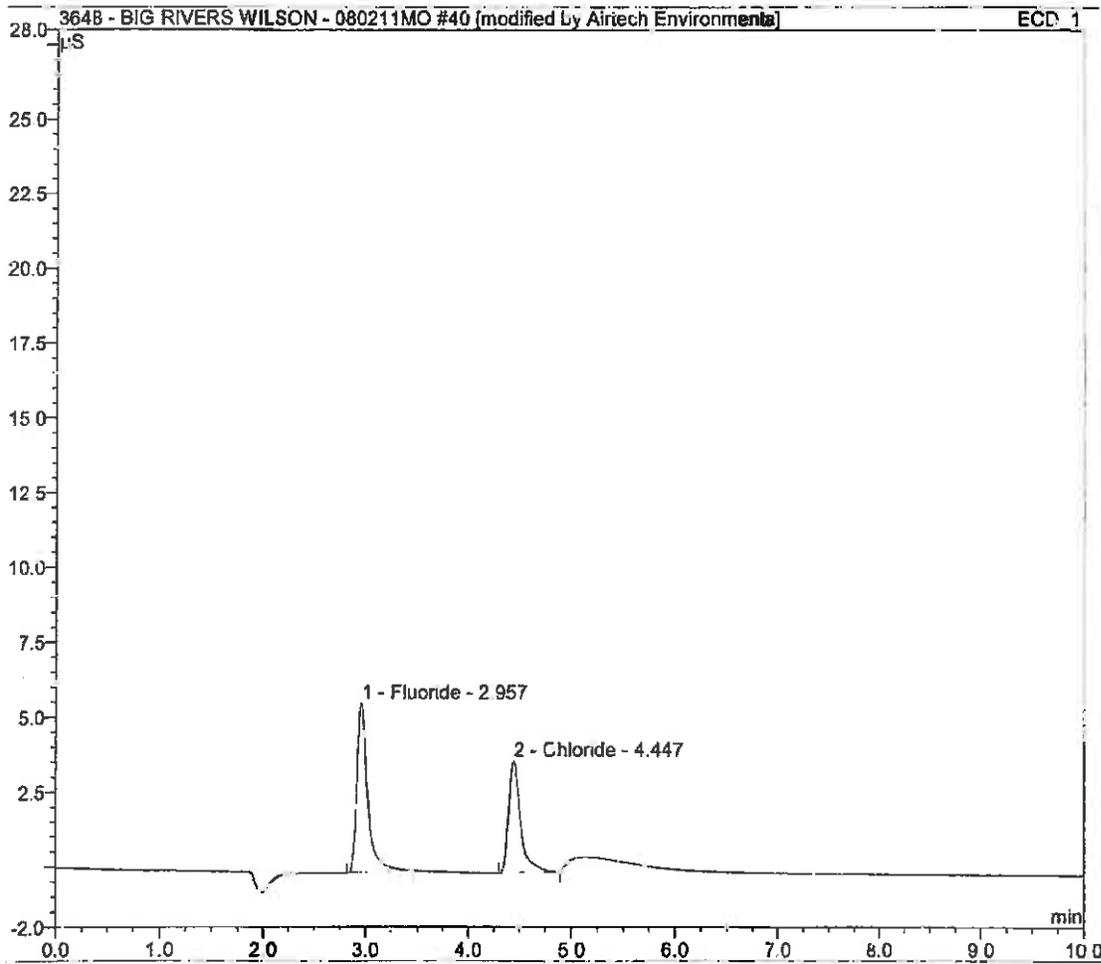
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 09:13	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.95	Fluoride	BMB*	0.662	5.442	0.6645
2	4.44	Chloride	BMB*	0.504	3.696	0.7169
TOTAL:				1.17	9.14	1.38



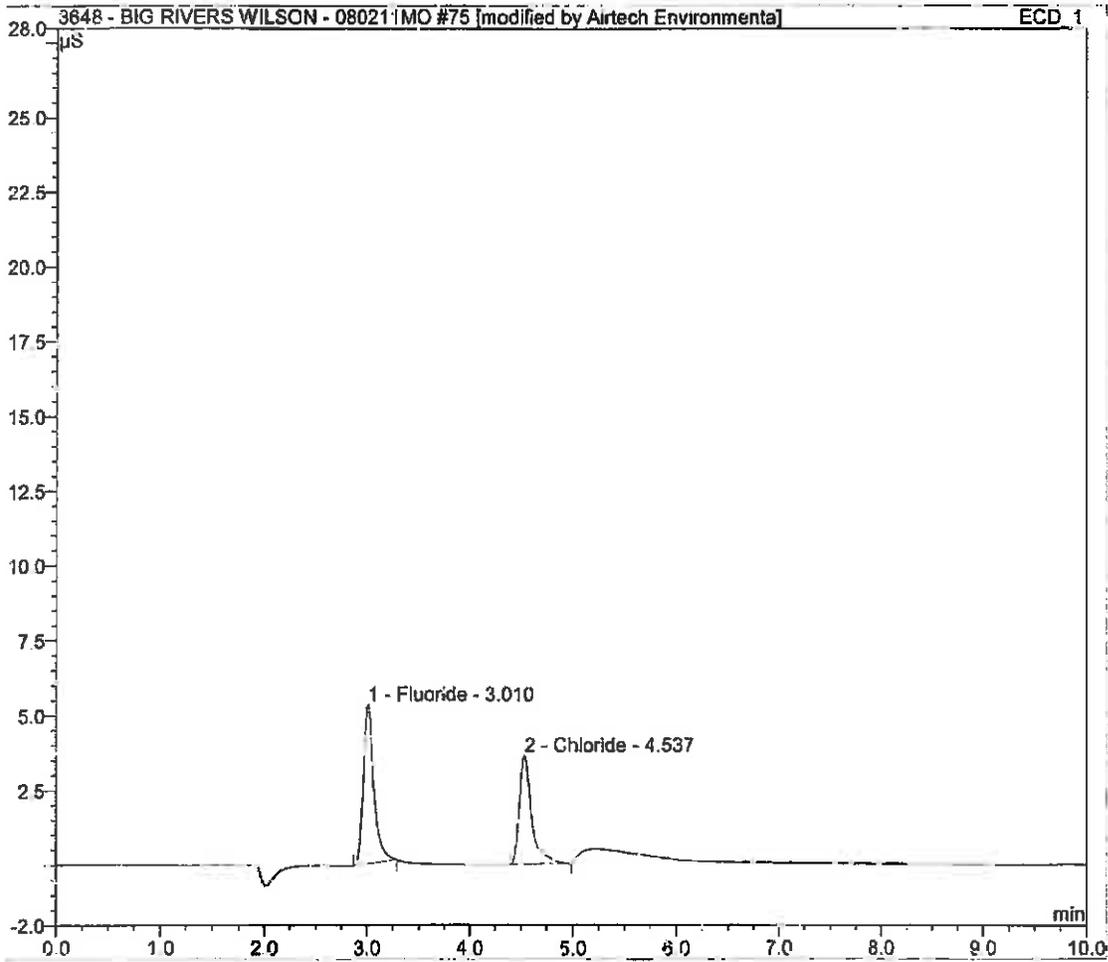
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 09:29	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	0.690	5.636	0.6922
2	4.45	Chloride	BMB*	0.504	3.730	0.7172
TOTAL:				1.19	9.37	1.41



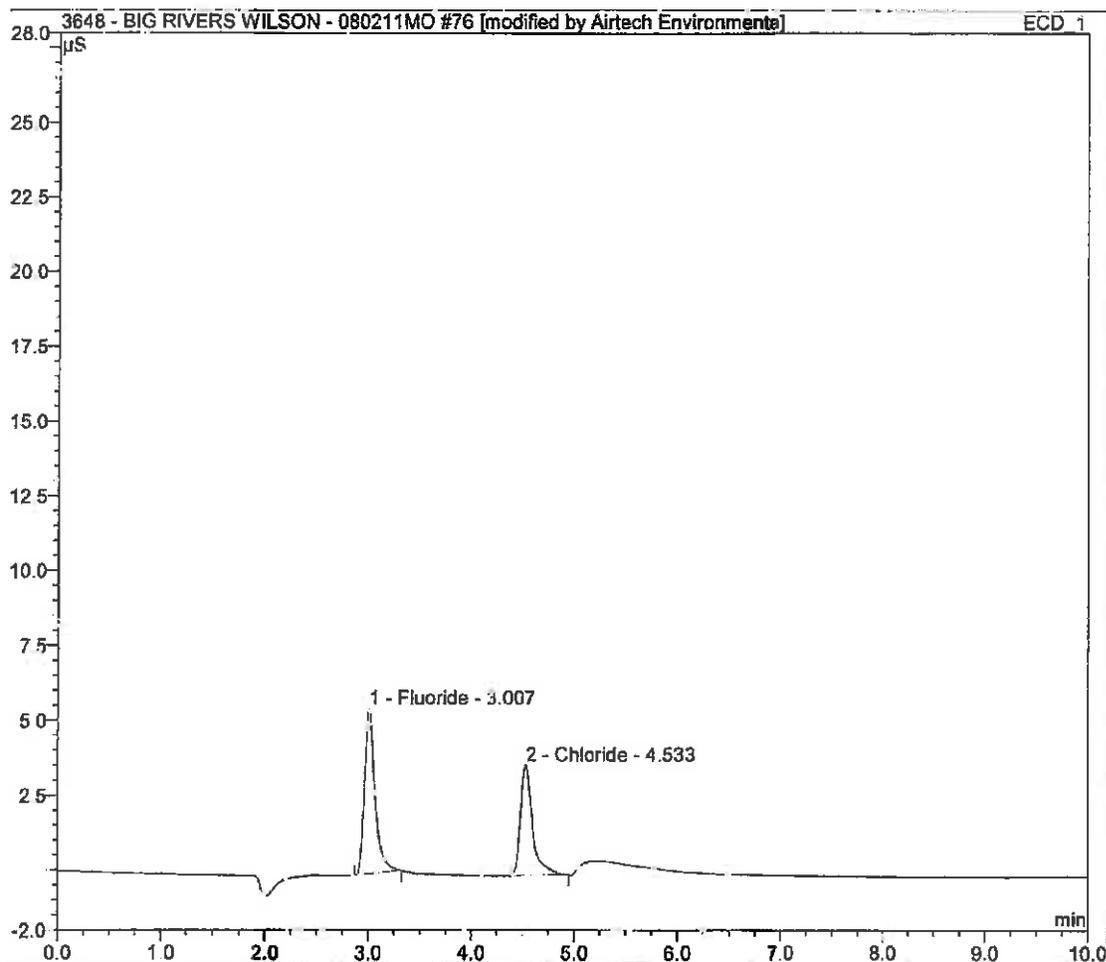
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 09:20	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	3.01	Fluoride	BMB*	0.632	5.310	0.6342
2	4.54	Chloride	BMB*	0.500	3.621	0.7117
TOTAL:				1.13	8.93	1.35



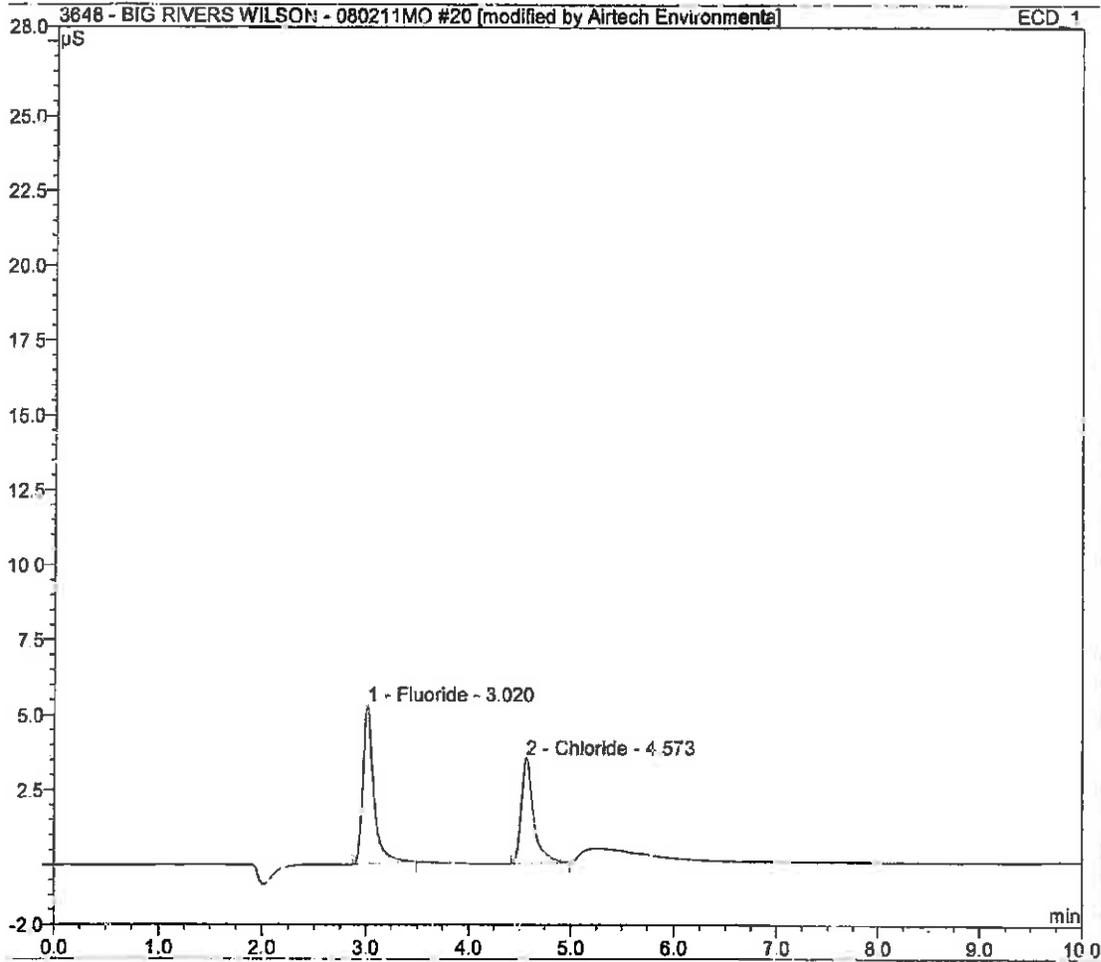
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	09.08.11 09:36	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	3.01	Fluoride	BMB*	0.657	5.531	0.6591
2	4.53	Chloride	BMB*	0.504	3.695	0.7173
TOTAL:				1.16	9.23	1.38



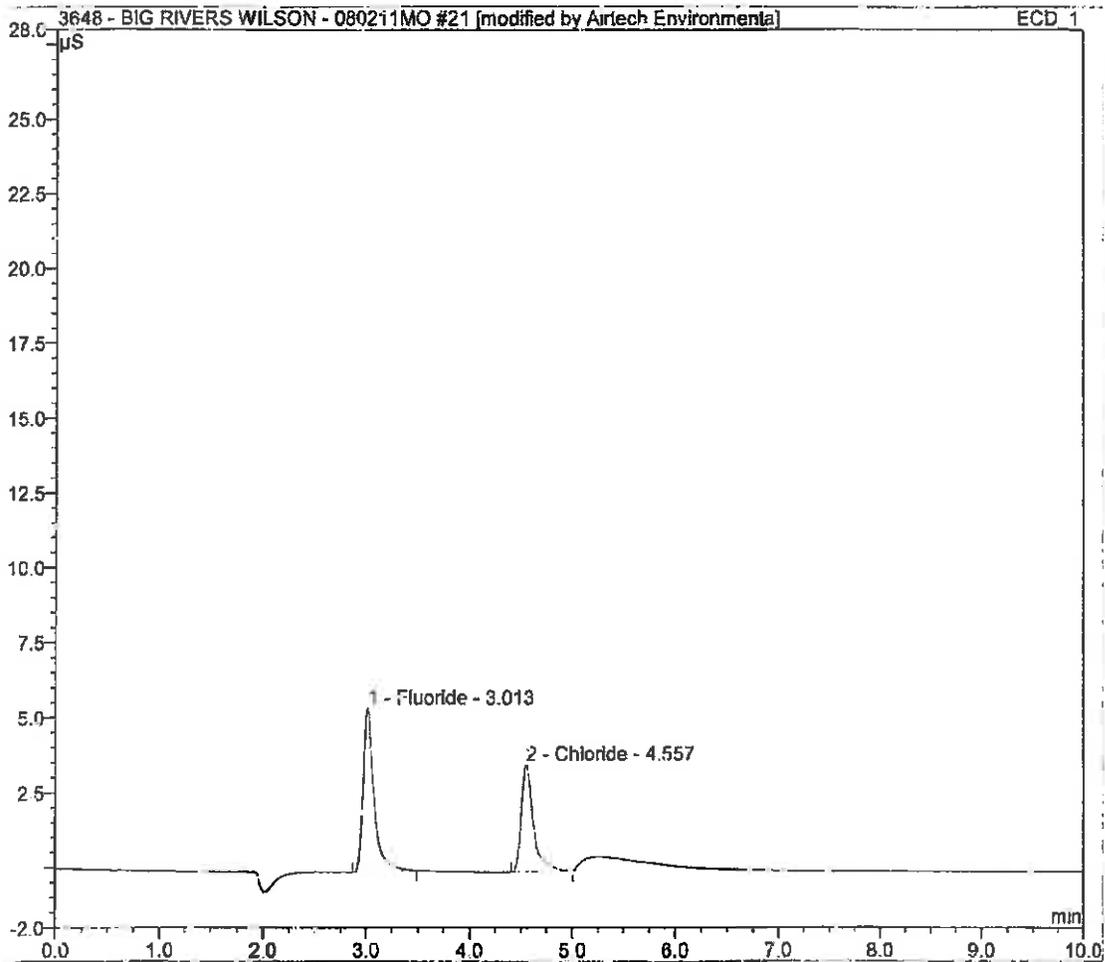
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 08:50	Run Time:	14.27

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	3.02	Fluoride	BMB*	0.660	5.290	0.6623
2	4.57	Chloride	BMB*	0.494	3.502	0.7032
TOTAL:				1.15	8.79	1.37



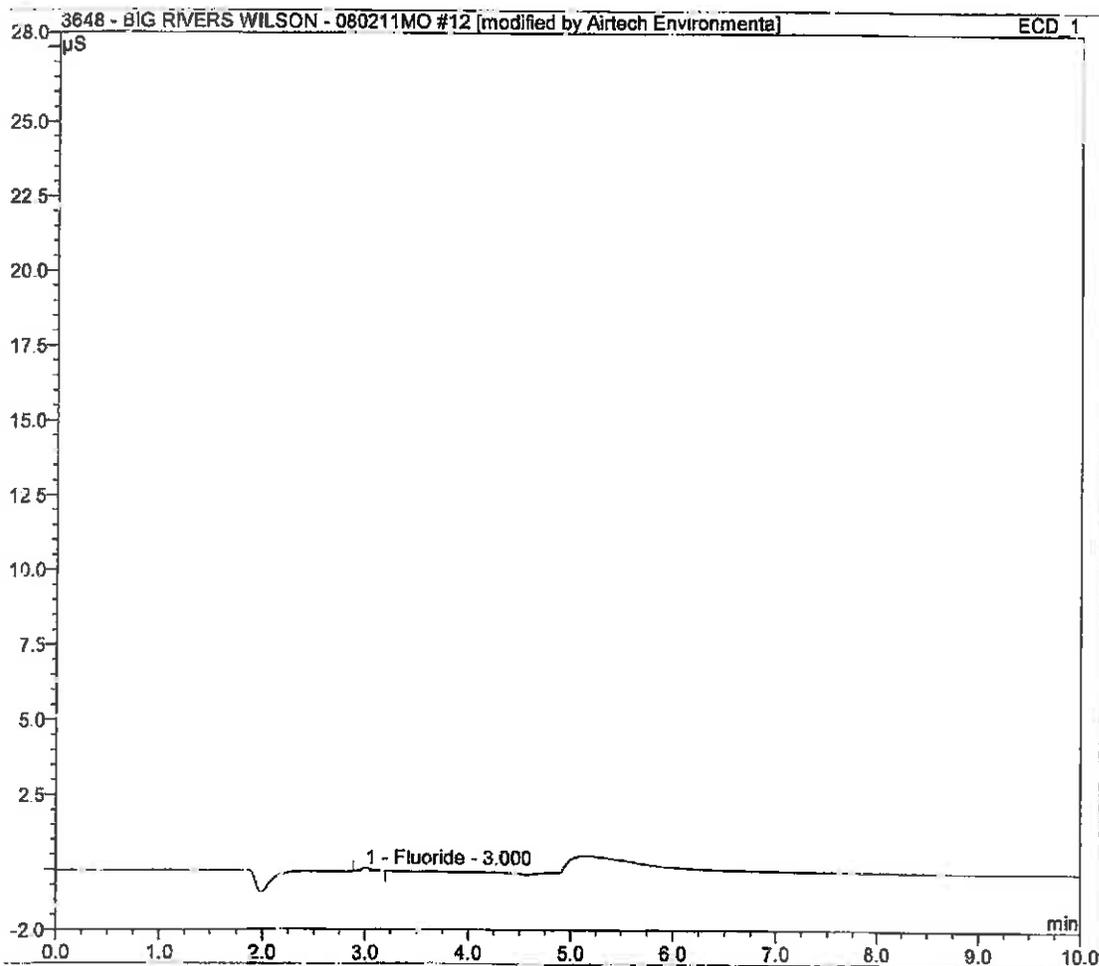
Sample Name:	cal std 2 - Cl & F in H2SO4	Inj. Vol.:	10.0
Sample Type:	standard	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	04.08.11 09:06	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	3.01	Fluoride	BMB*	0.676	5.472	0.6778
2	4.56	Chloride	BMB*	0.501	3.587	0.7129
TOTAL:				1.18	9.06	1.39



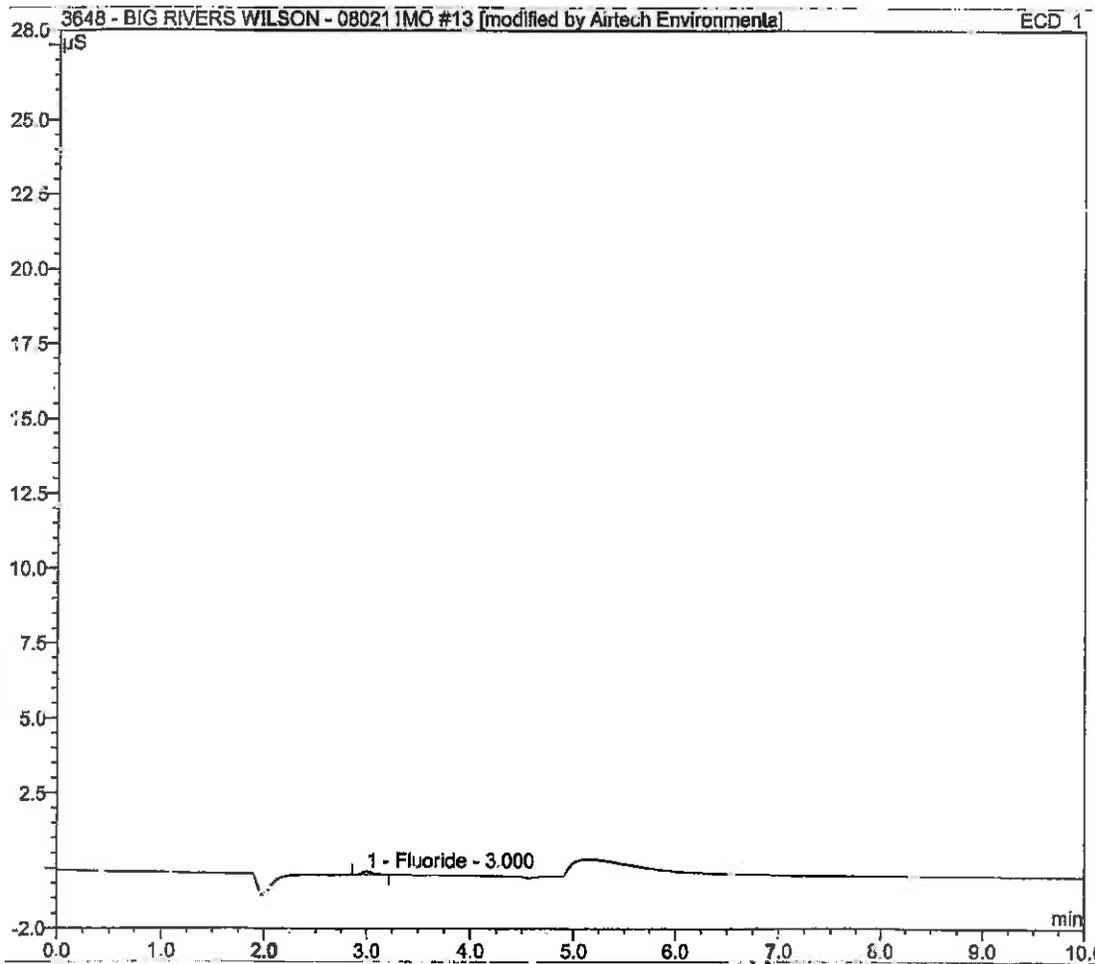
Sample Name:	Reagent Blank	Inj. Vol.:	10.0
Sample Type:	blank	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 10:59	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g}/\text{ml}$
1	3.00	Fluoride	BMB*	0.013	0.111	0.0129
TOTAL:				0.01	0.11	0.01



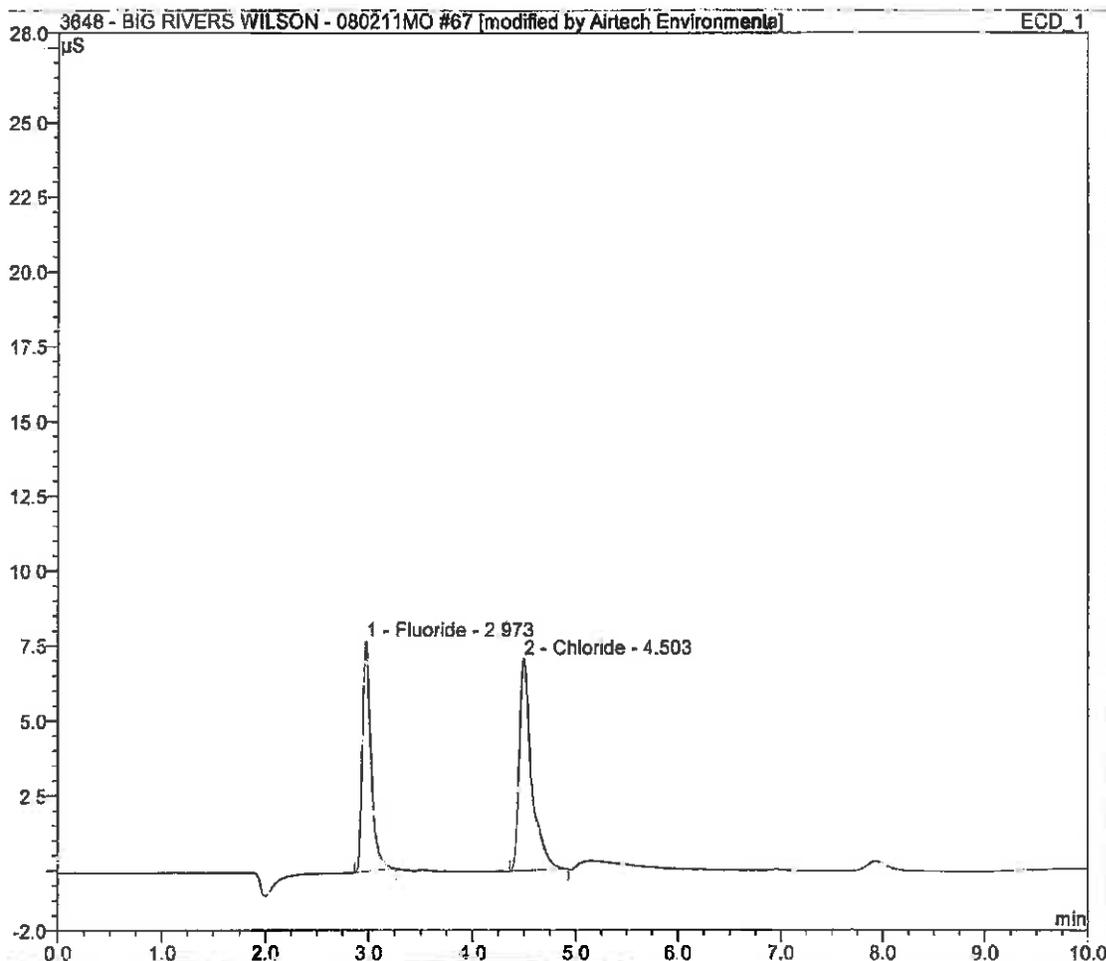
Sample Name:	Reagent Blank	Inj. Vol.:	10.0
Sample Type:	blank	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	03.08.11 11:18	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	3.00	Fluoride	BMB*	0.013	0.107	0.0127
TOTAL:				0.01	0.11	0.01



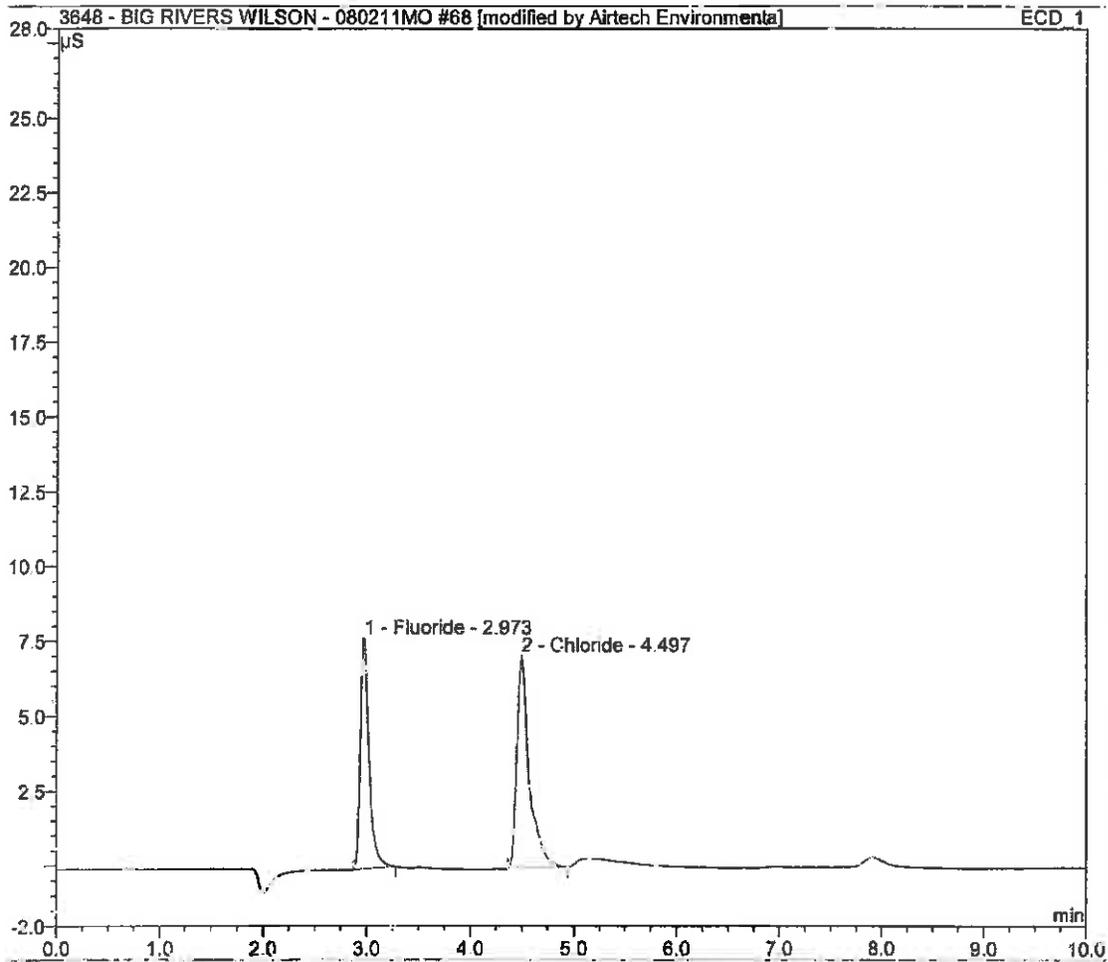
Sample Name:	ESP Outlet 1 - Run 4	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj Date/Time:	08.08.11 13:30	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	0.742	7.708	0.7443
2	4.50	Chloride	BMB*	0.987	7.088	1.4045
TOTAL:				1.73	14.80	2.15



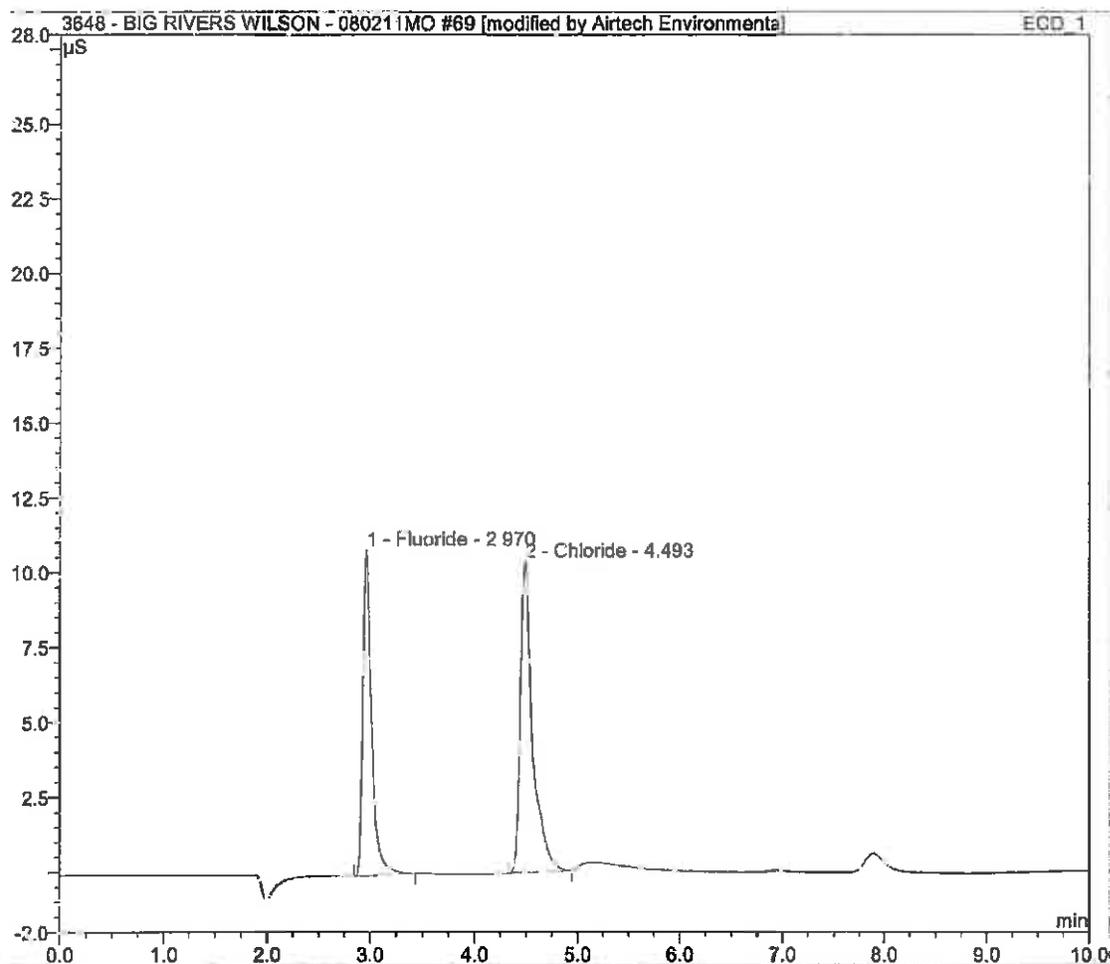
Sample Name:	ESP Outlet 1 - Run 4	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 13:50	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	0.746	7.706	0.7485
2	4.50	Chloride	BMB*	0.988	7.098	1.4060
TOTAL:				1.73	14.80	2.15



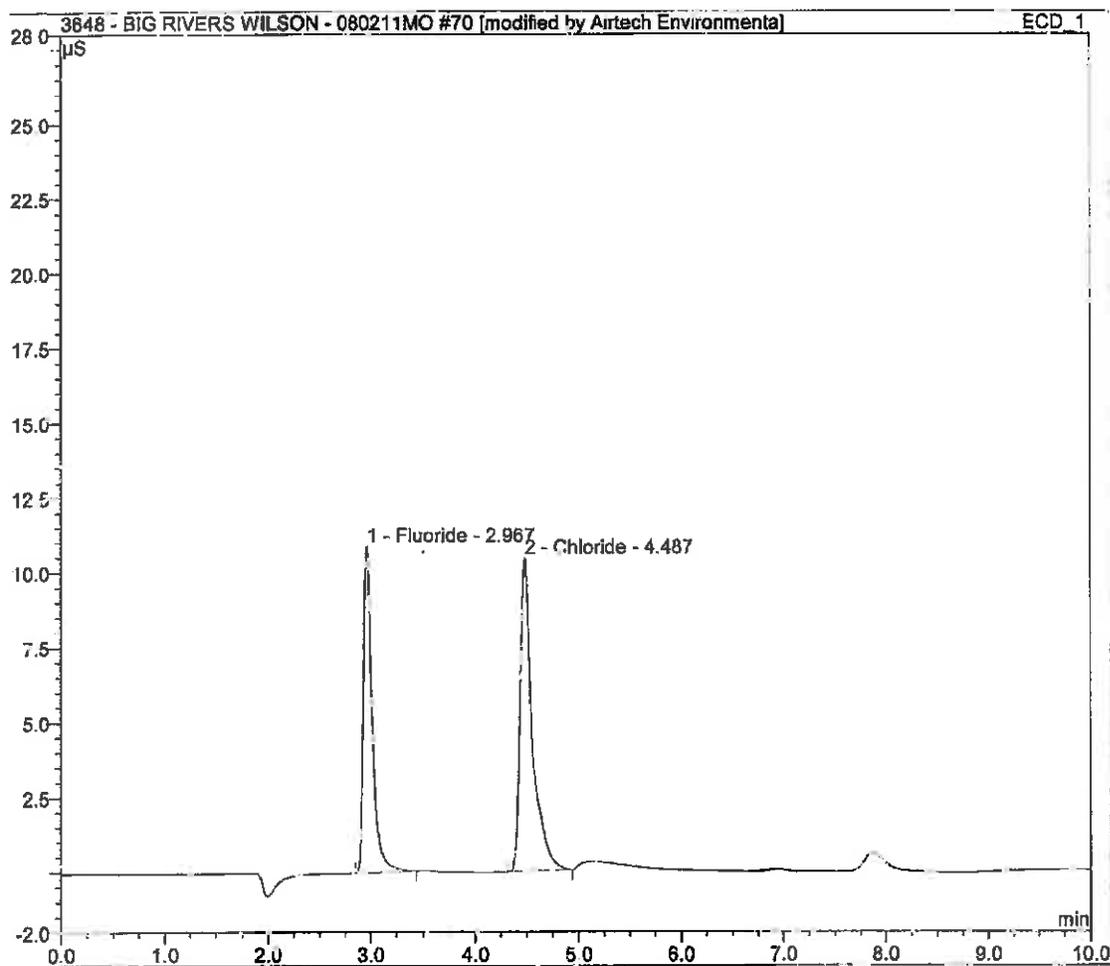
Sample Name:	ESP Outlet 1 - Run 5	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 14:11	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB	1.061	10.847	1.0647
2	4.49	Chloride	BMB*	1.432	10.373	2.0374
TOTAL:				2.49	21.22	3.10



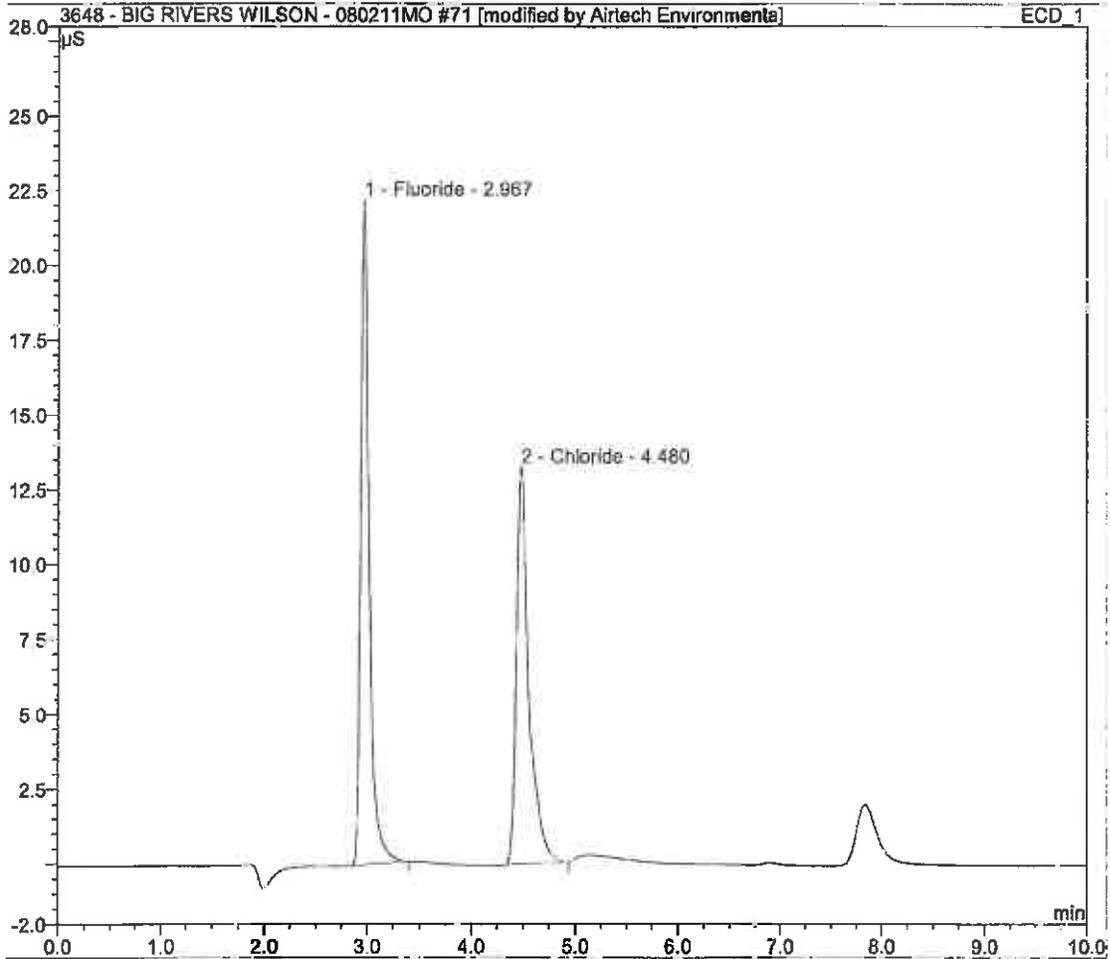
Sample Name:	ESP Outlet 1 - Run 5	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 14:32	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB	1.068	10.903	1.0713
2	4.49	Chloride	BMB*	1.441	10.465	2.0513
TOTAL:				2.51	21.37	3.12



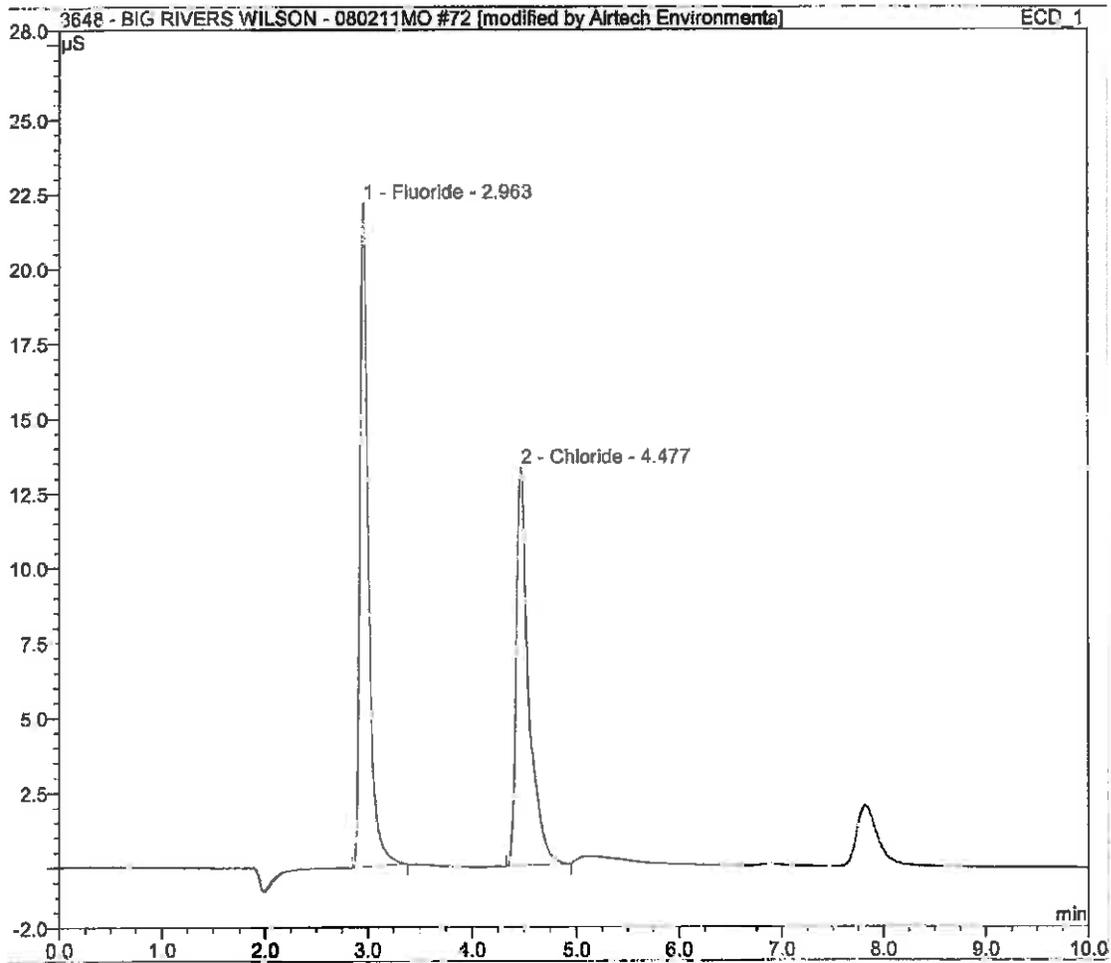
Sample Name:	ESP Outlet 1 - Run 6	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 15:03	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB*	2.129	22.235	2.1359
2	4.48	Chloride	BMB*	1.825	13.270	2.5971
TOTAL:				3.95	35.50	4.73



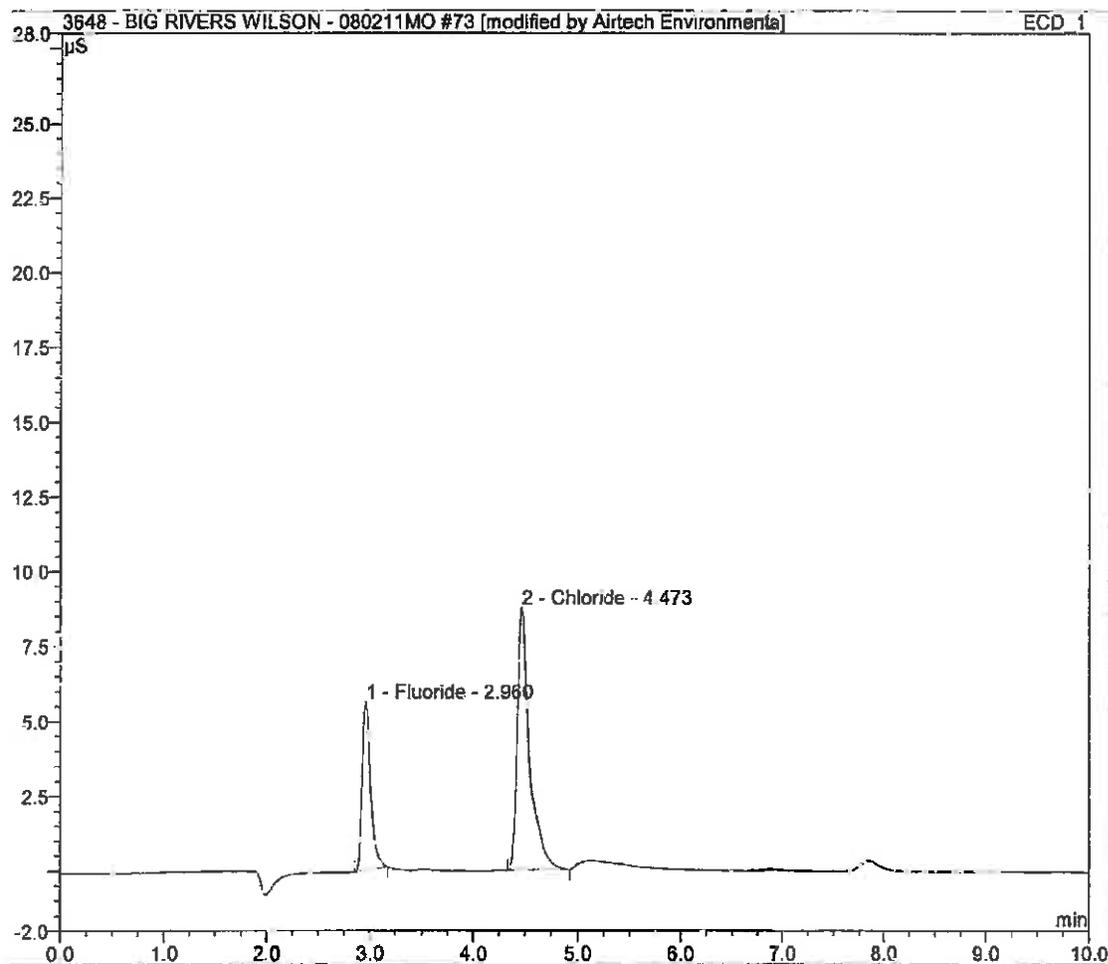
Sample Name:	ESP Outlet 1 - Run 6	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 15:20	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	2.135	22.216	2.1423
2	4.48	Chloride	BMB*	1.834	13.311	2.6104
TOTAL:				3.97	35.53	4.75



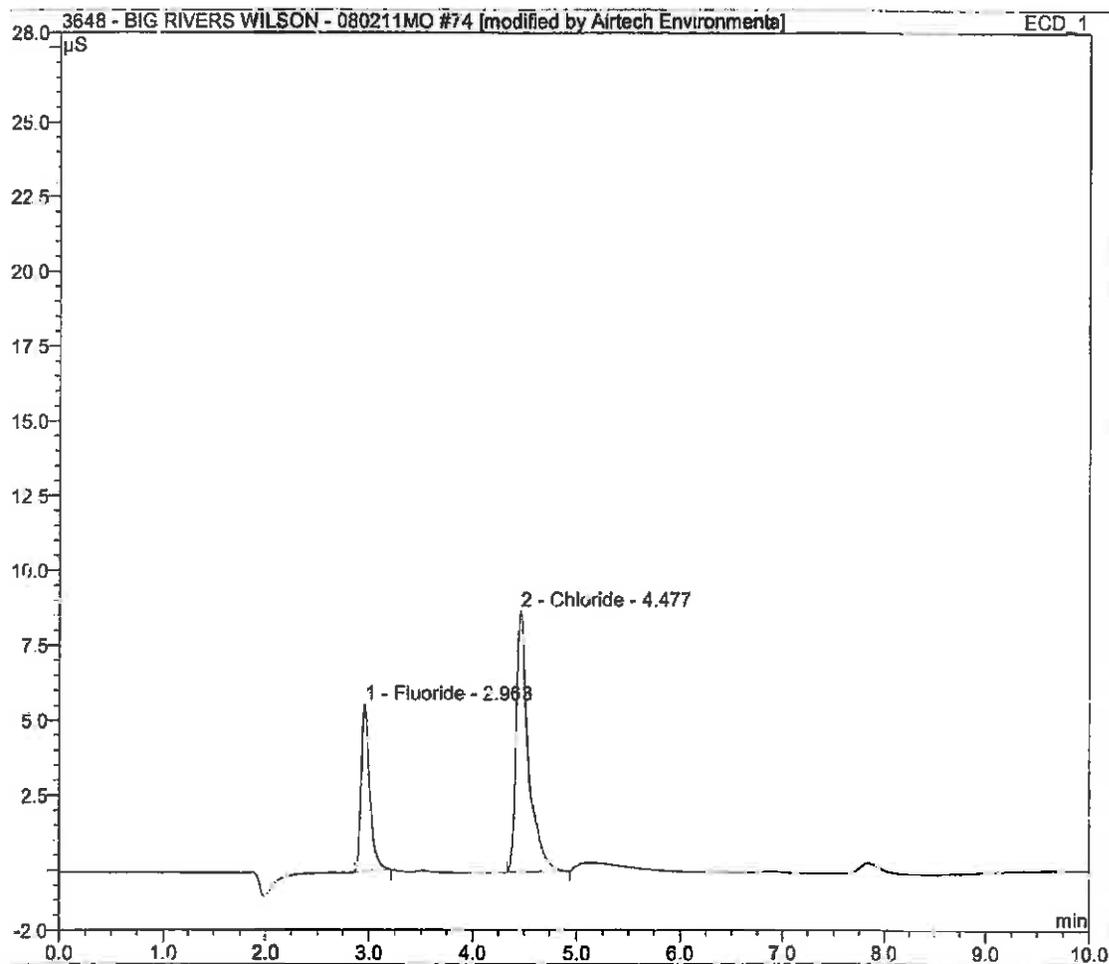
Sample Name:	ESP Outlet 2 - Run 4	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 15:35	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	0.527	5.602	0.5291
2	4.47	Chloride	BMB*	1.202	8.745	1.7110
TOTAL:				1.73	14.35	2.24



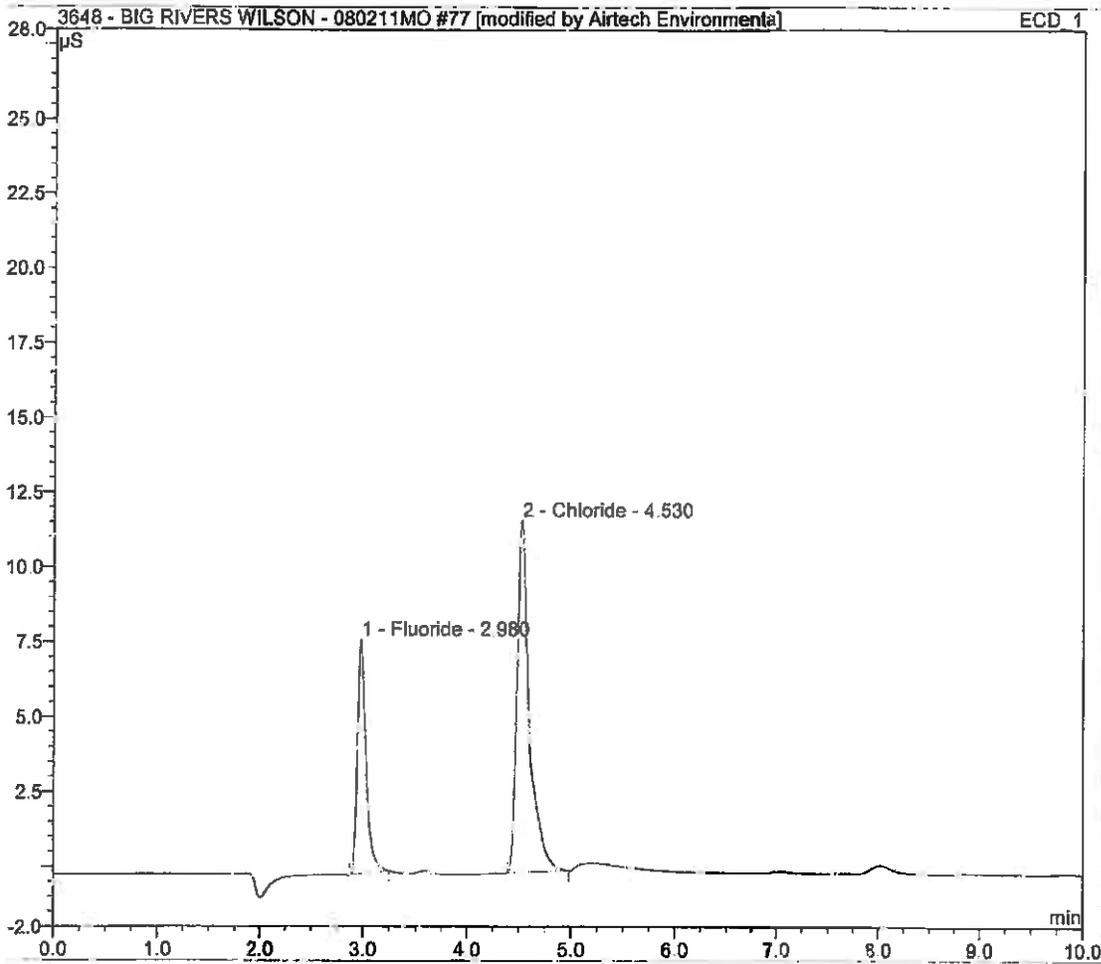
Sample Name:	ESP Outlet 2 - Run 4	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 15:53	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB*	0.536	5.606	0.5378
2	4.48	Chloride	BMB*	1.195	8.732	1.7012
TOTAL:				1.73	14.34	2.24



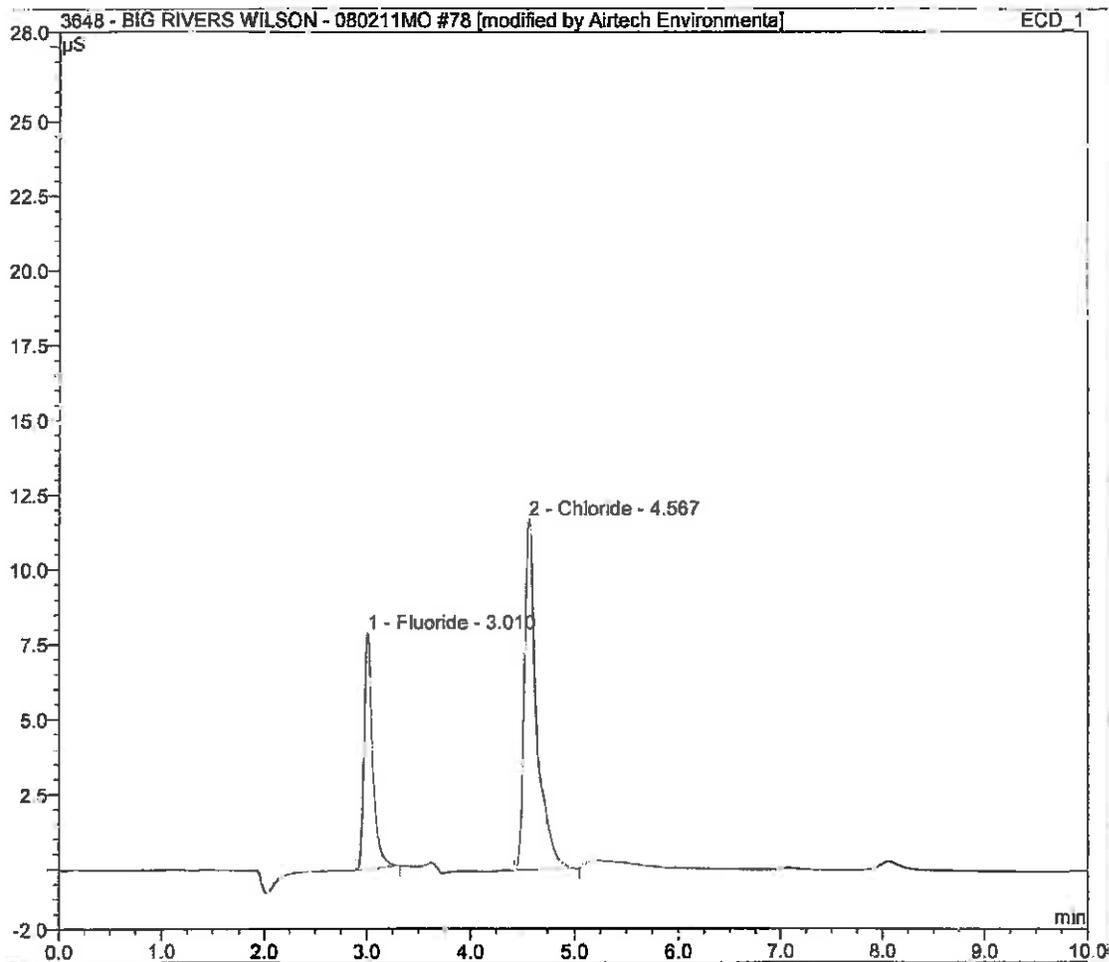
Sample Name:	ESP Outlet 2 - Run 5	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	09.08.11 09:51	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.98	Fluonde	BMB*	0.745	7.797	0.7479
2	4.53	Chloride	BMB*	1.625	11.719	2.3132
TOTAL:				2.37	19.51	3.06



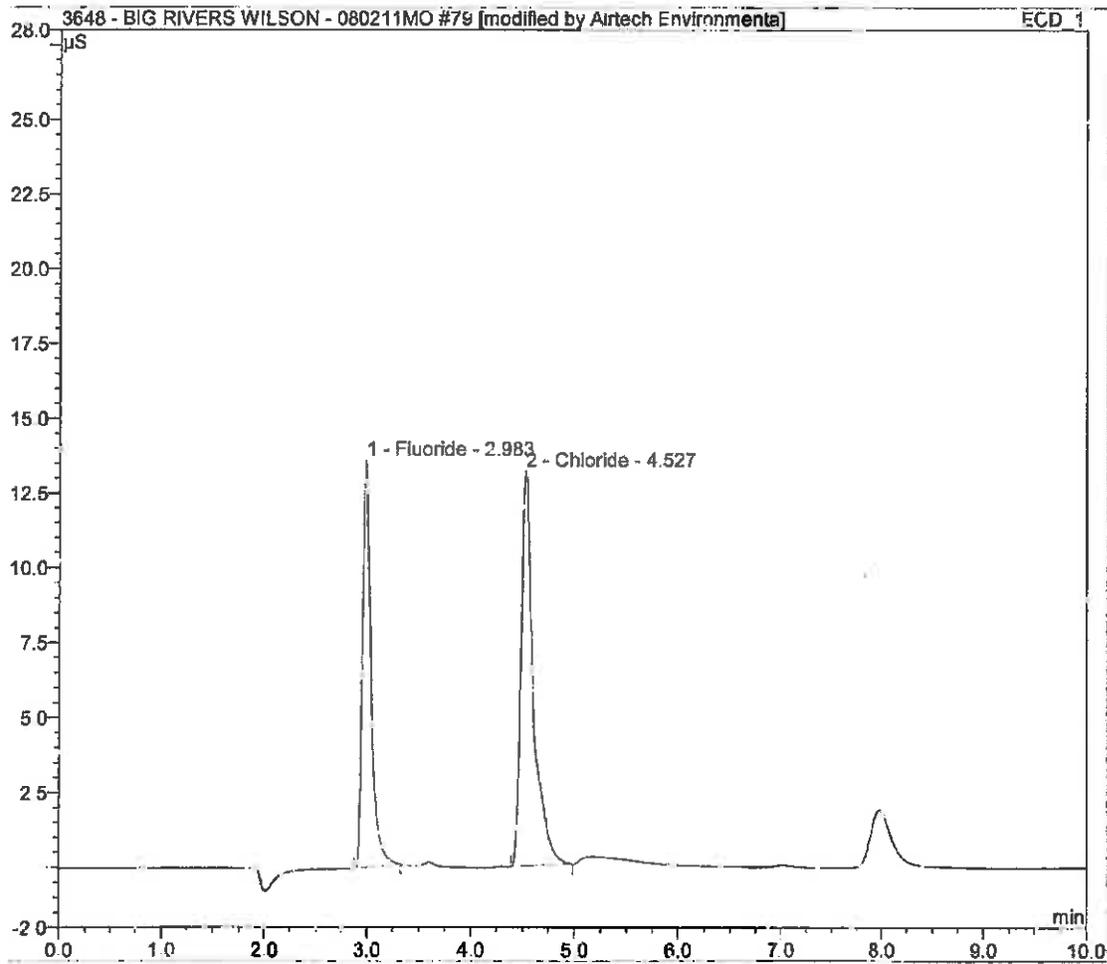
Sample Name:	ESP Outlet 2 - Run 5	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	09 08.11 10:10	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g}/\text{ml}$
1	3.01	Fluoride	BMB*	0.771	7.876	0.7733
2	4.57	Chloride	BMB*	1.623	11.703	2.3102
TOTAL:				2.39	19.58	3.08



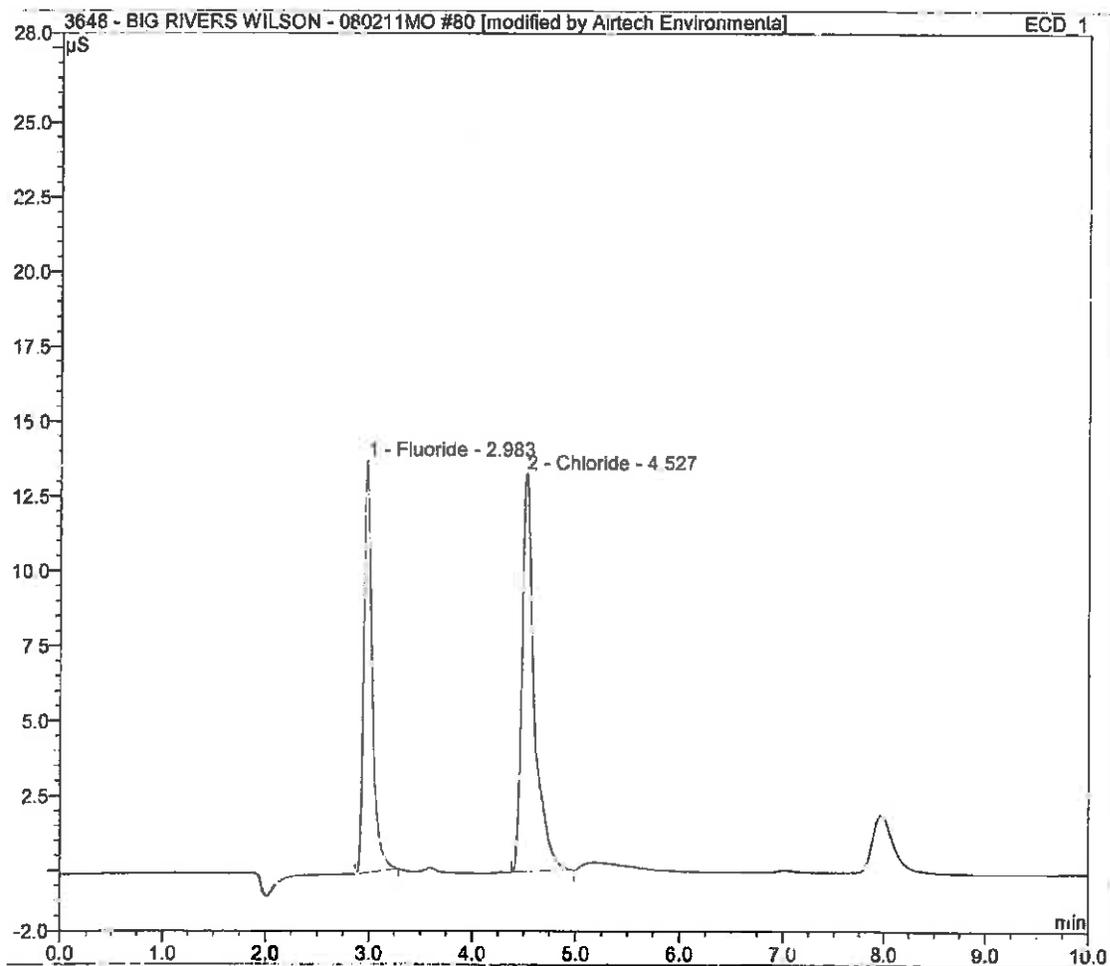
Sample Name:	ESP Outlet 2 - Run 6	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	09.08.11 10:28	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	1.314	13.614	1.3184
2	4.53	Chloride	BMB*	1.828	13.203	2.6013
TOTAL:				3.14	26.82	3.92



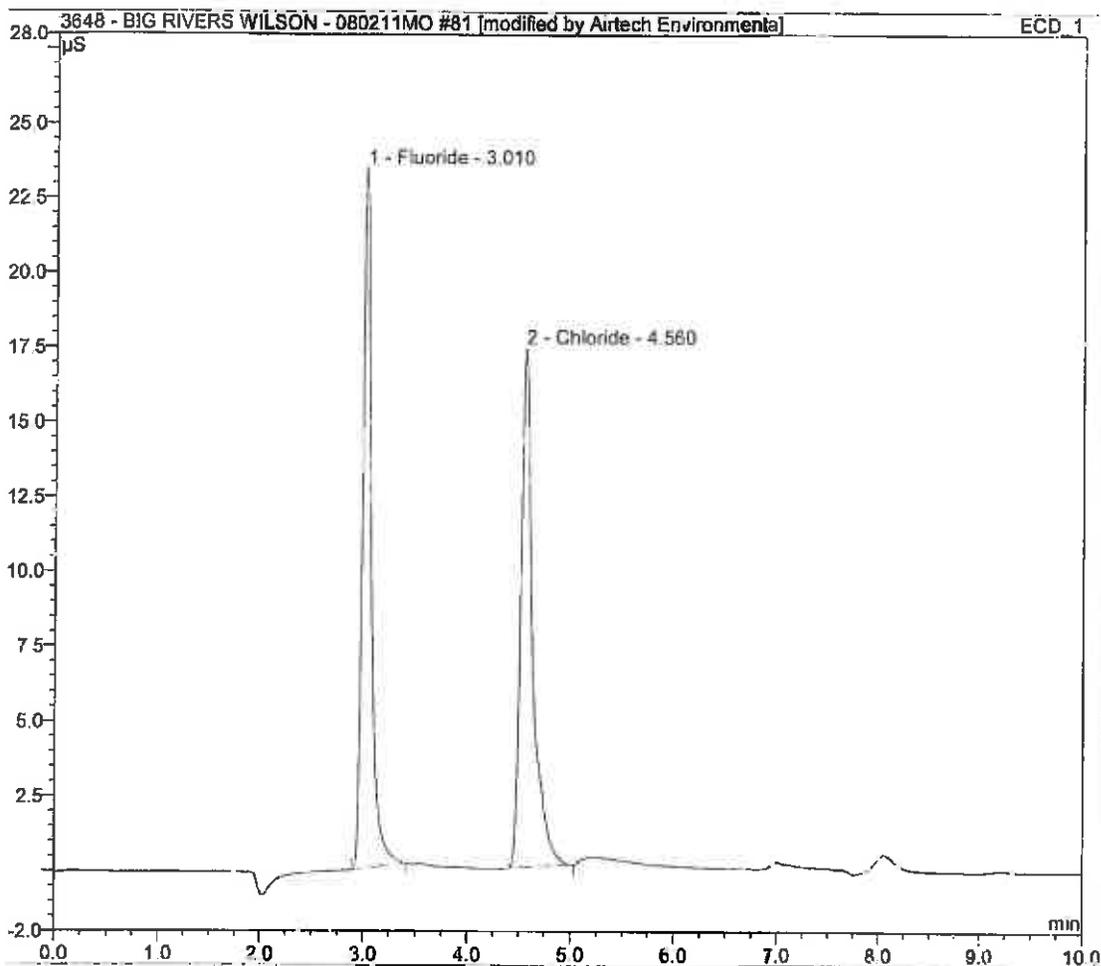
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Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	09.08.11 11:09	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	1.316	13.774	1.3202
2	4.53	Chloride	BMB*	1.833	13.304	2.6081
TOTAL:				3.15	27.08	3.93



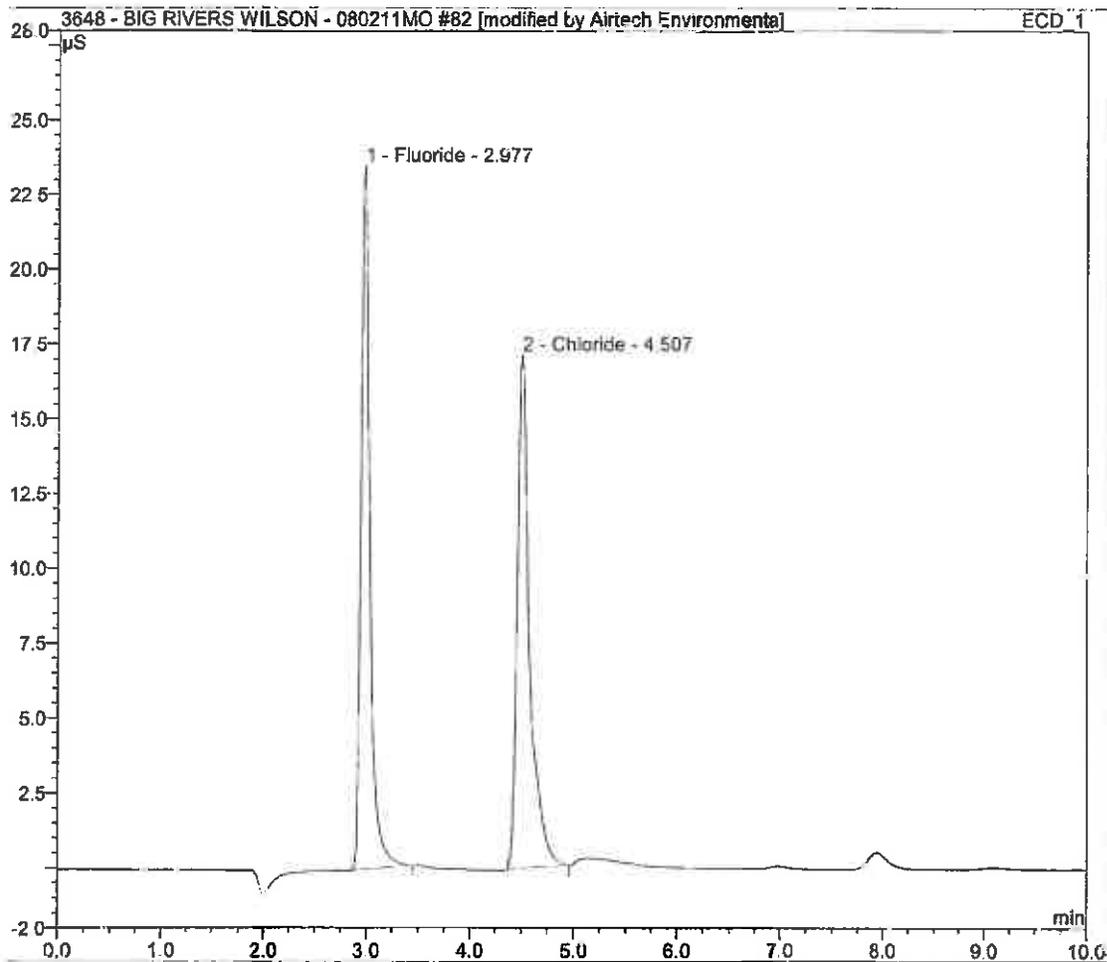
Sample Name:	ESP Outlet 3 - Run 4	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	09.08.11 11:27	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	3.01	Fluoride	BMB*	2.332	23.433	2.3403
2	4.56	Chloride	BMB*	2.379	17.358	3.3851
TOTAL:				4.71	40.79	5.73



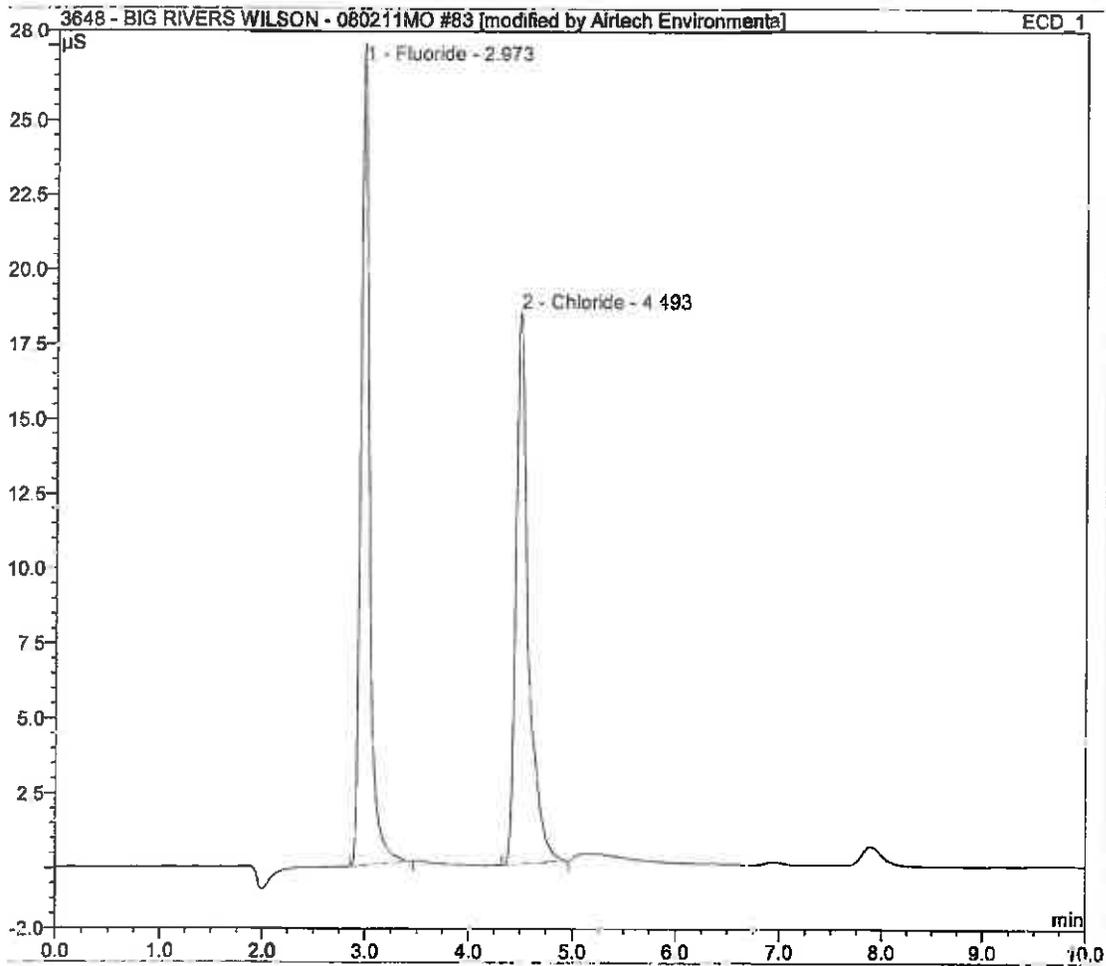
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Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	09.08.11 11.44	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	2.328	23.553	2.3361
2	4.51	Chloride	BMB*	2.336	17.175	3.3238
TOTAL:				4.66	40.73	5.66



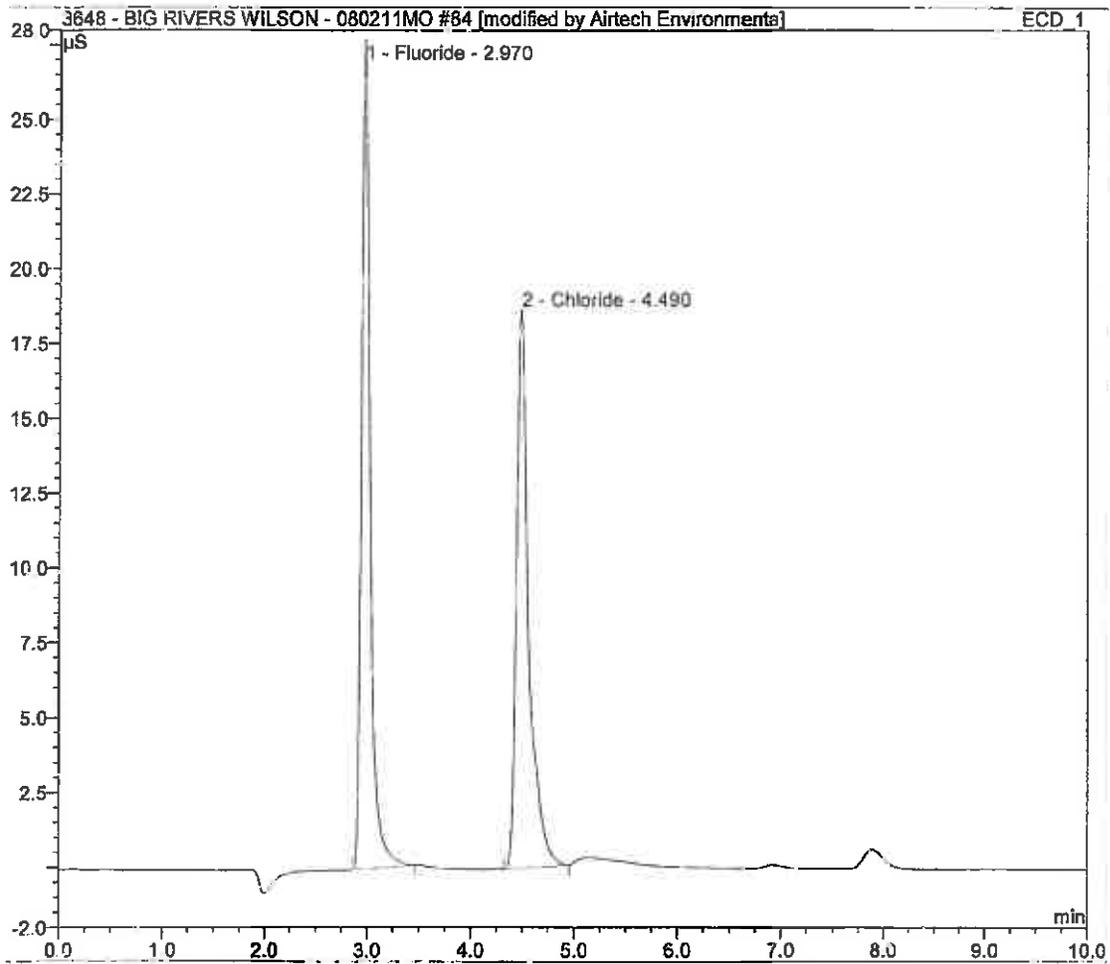
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Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	09.08.11 12:01	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB	2.694	27.501	2.7036
2	4.49	Chloride	BMB*	2.511	18.449	3.5731
TOTAL:				5.21	45.95	6.28



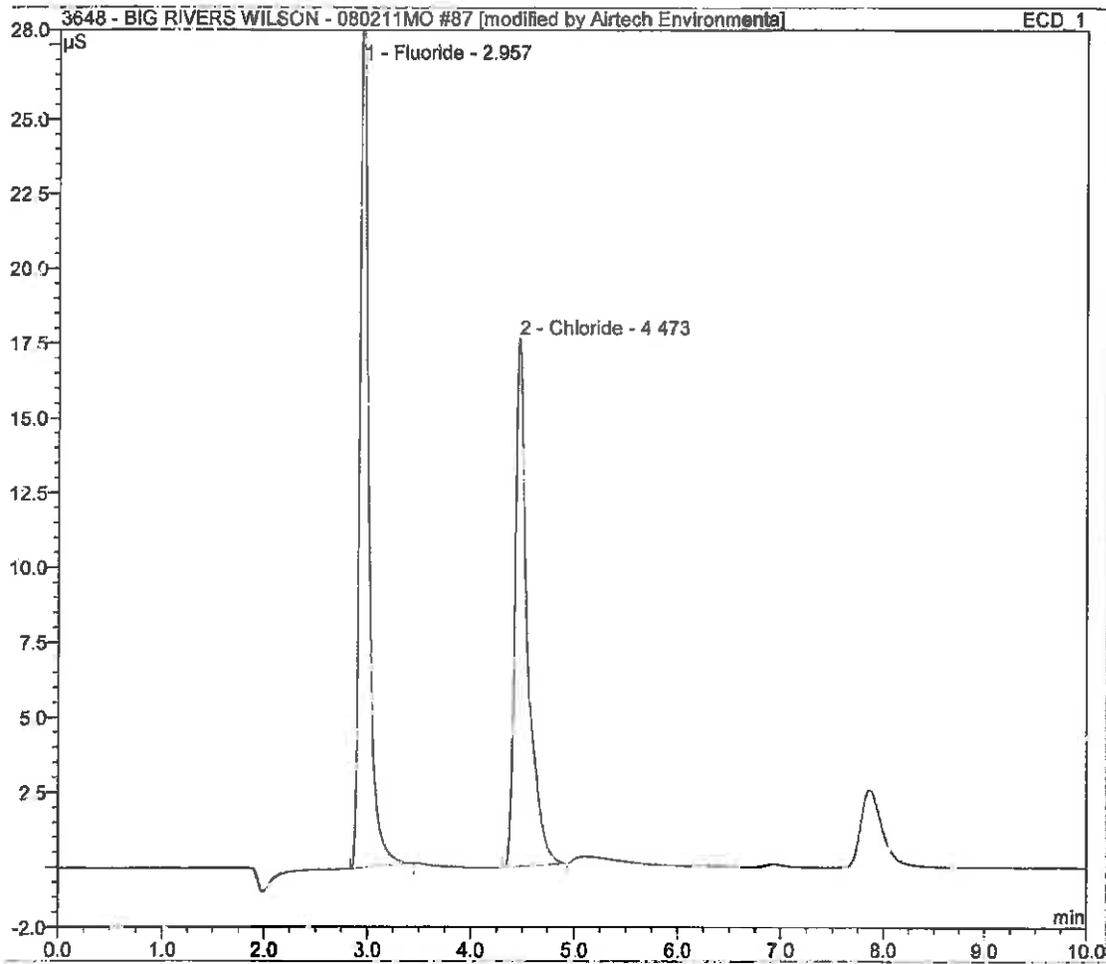
Sample Name:	ESP Outlet 3 - Run 5	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	09.08.11 12:58	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.97	Fluoride	BMB	2.710	27.739	2.7196
2	4.49	Chloride	BMB*	2.525	18.652	3.5930
TOTAL:				5.24	46.39	6.31



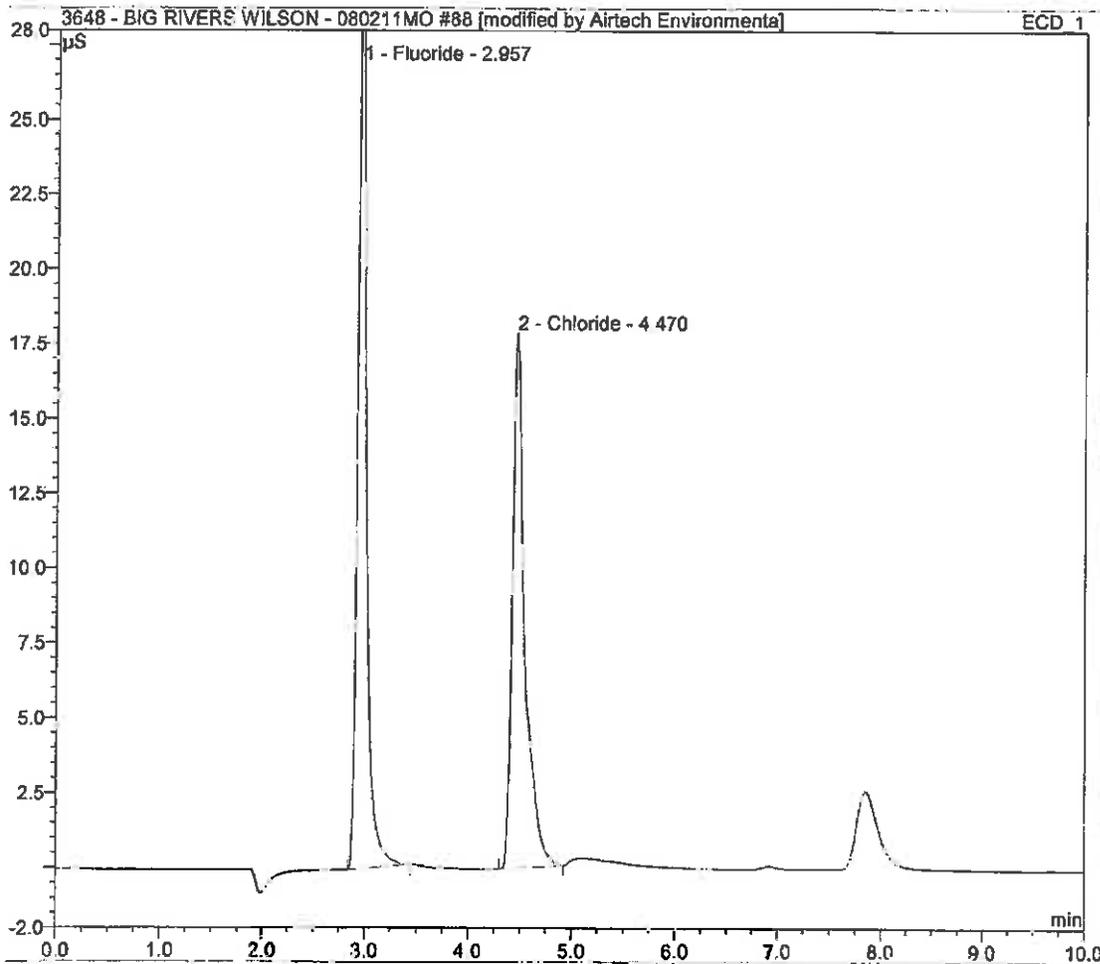
Sample Name:	ESP Outlet 3 - Run 6	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 09:02	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB	2.923	29.684	2.9331
2	4.47	Chloride	BMB*	2.488	17.640	3.5406
TOTAL:				5.41	47.32	6.47



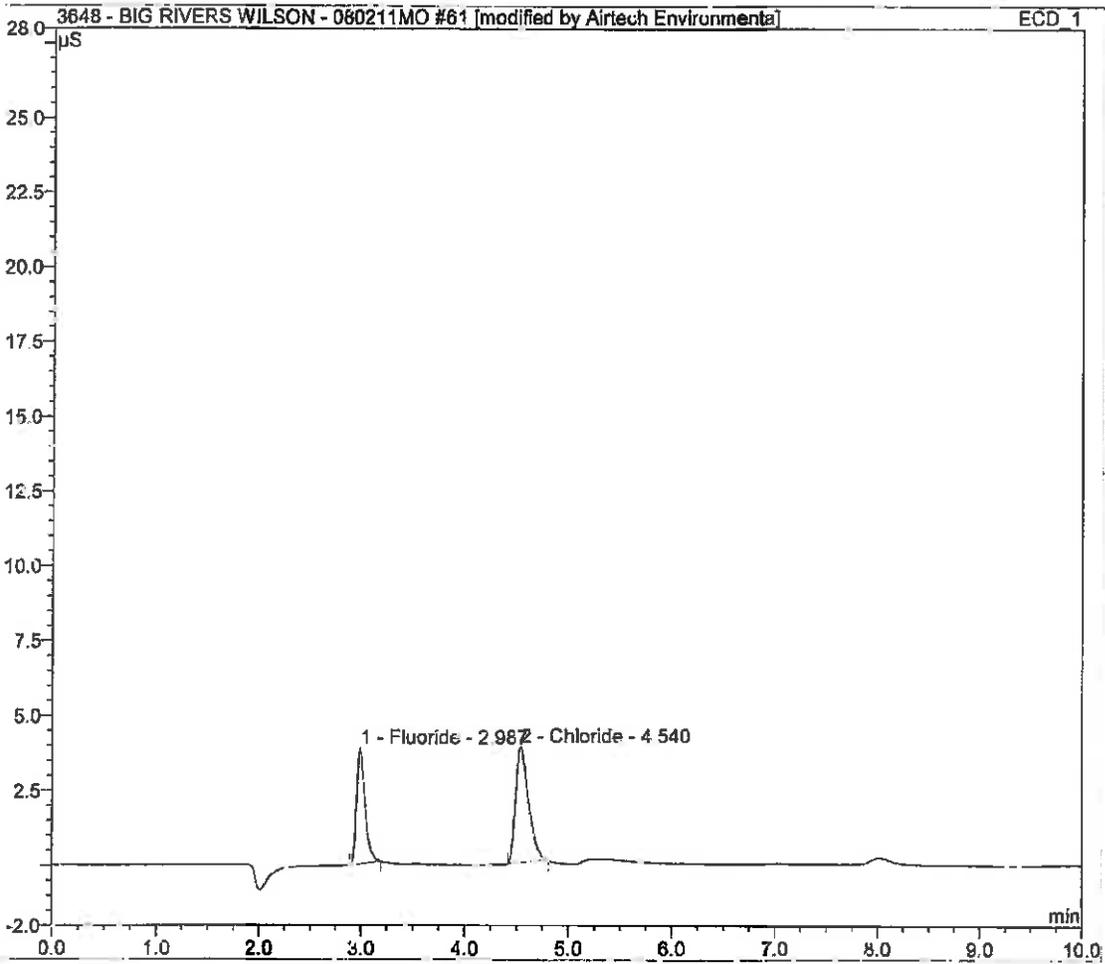
Sample Name:	ESP Outlet 3 - Run 6	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	10.08.11 09:21	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.96	Fluoride	BMB	2.945	29.861	2.9550
2	4.47	Chloride	BMB*	2.512	17.862	3.5742
TOTAL:				5.46	47.72	6.53



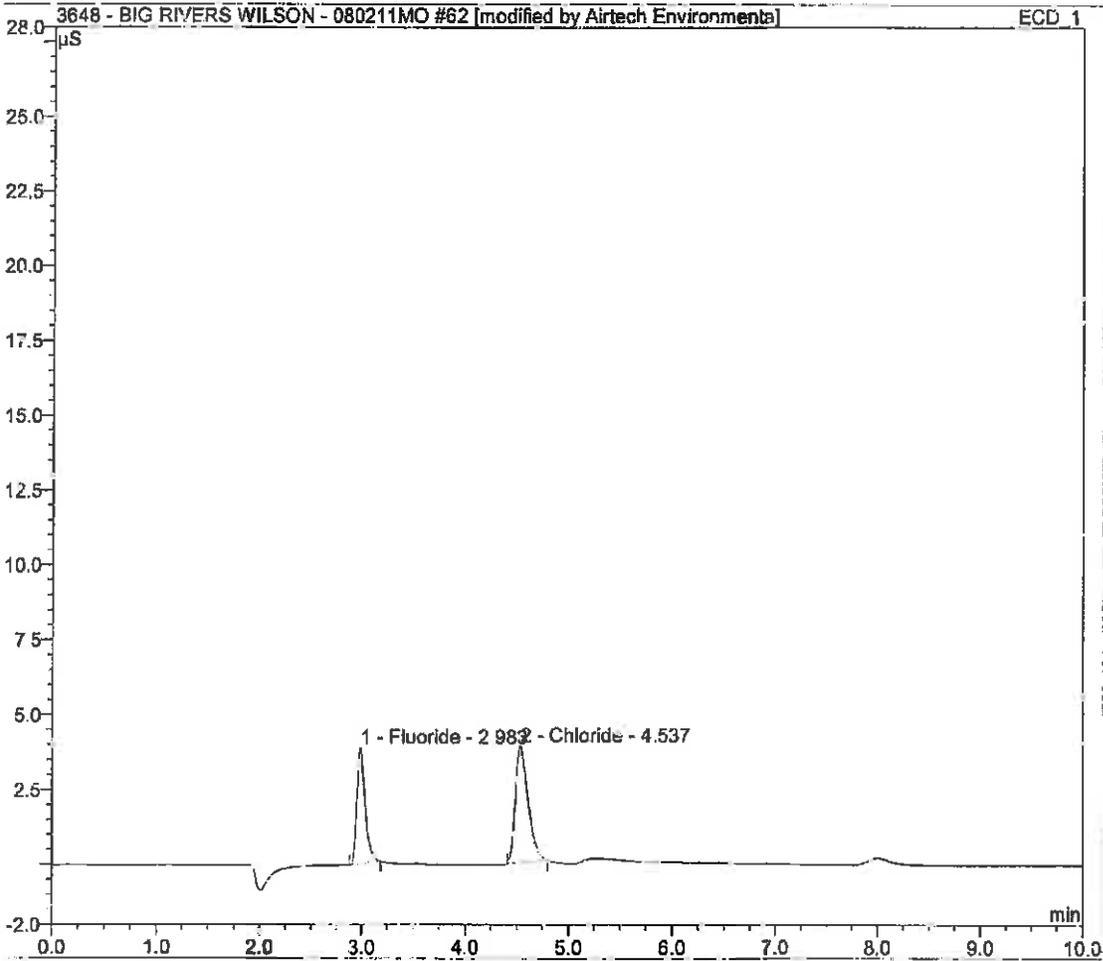
Sample Name:	ESP 4 Outlet - Run 4 50:50 dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 11:27	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g}/\text{ml}$
1	2.99	Fluoride	BMB*	0.368	3.884	0.3696
2	4.54	Chloride	BMB*	0.567	3.878	0.8066
TOTAL:				0.94	7.76	1.18



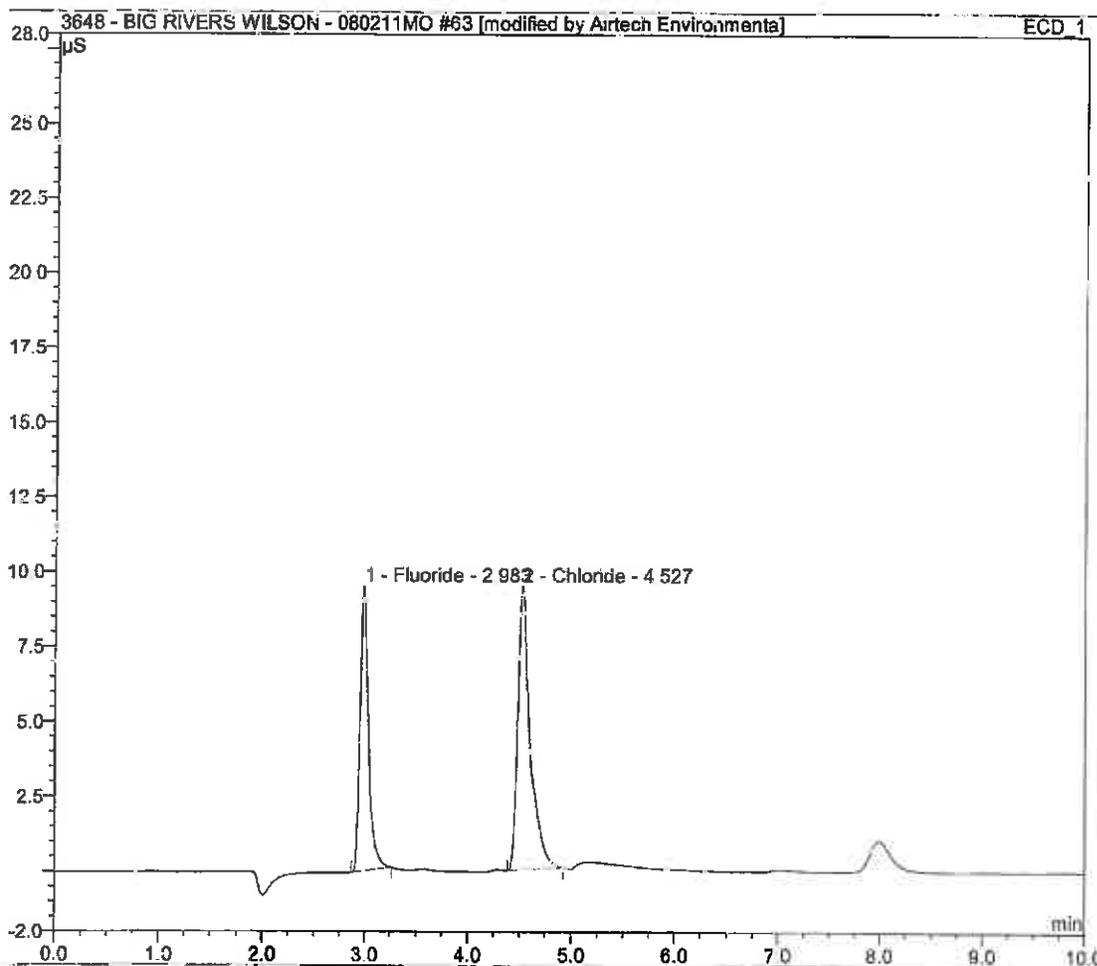
Sample Name:	ESP 4 Outlet - Run 4 50:50 dilution	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 11:44	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g}/\text{ml}$
1	2.98	Fluoride	BMB*	0.367	3.887	0.3681
2	4.54	Chloride	BMB*	0.571	3.907	0.8124
TOTAL:				0.94	7.79	1.18



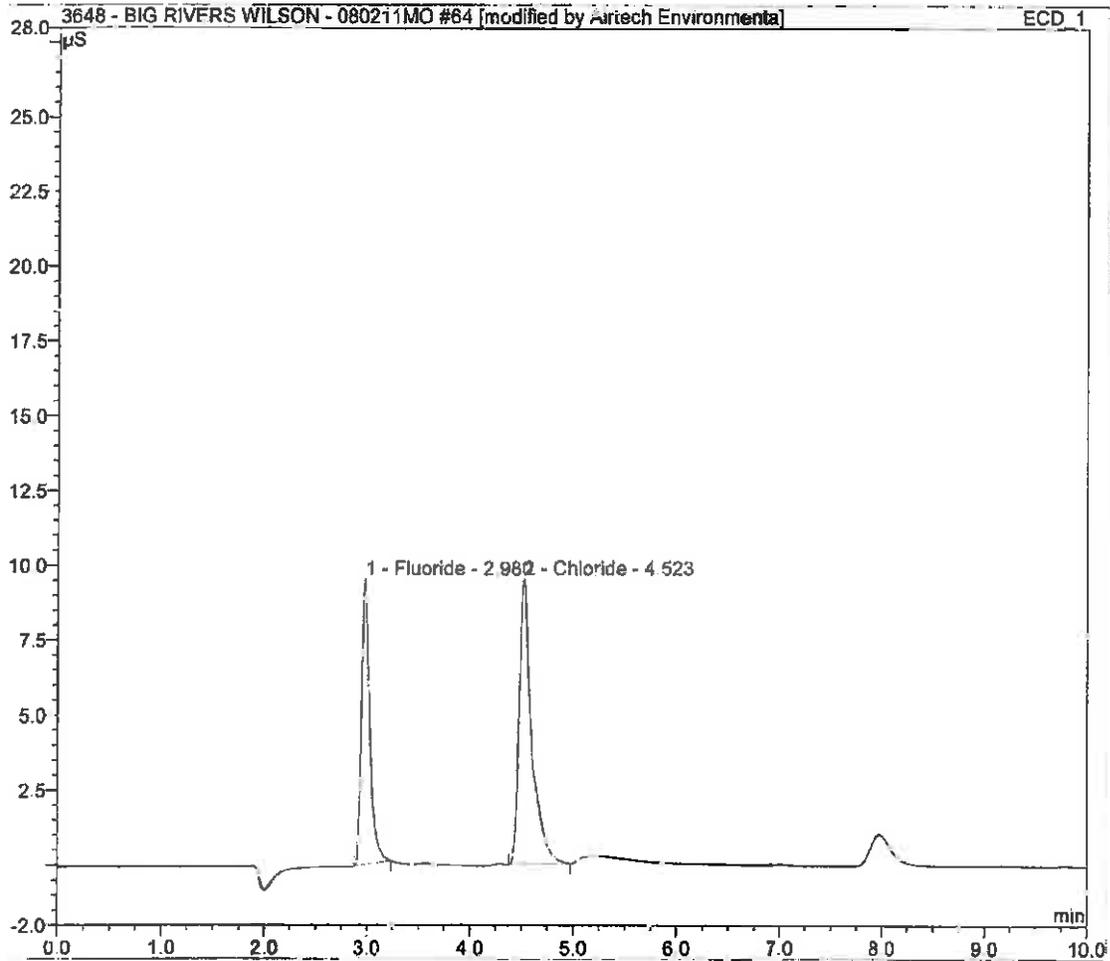
Sample Name:	ESP 4 Outlet - Run 5	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 12:02	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	0.913	9.524	0.9157
2	4.53	Chloride	BMB*	1.336	9.472	1.9013
TOTAL:				2.25	19.00	2.82



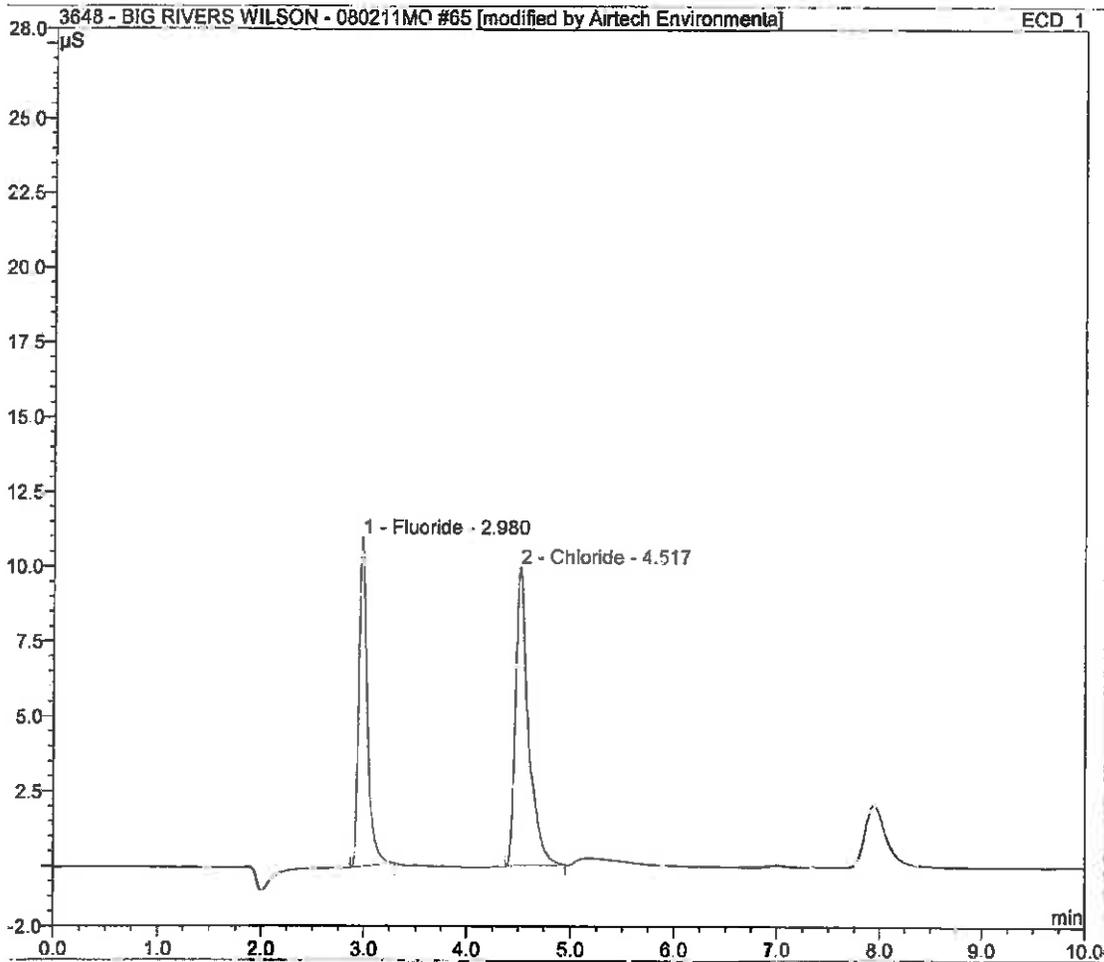
Sample Name:	ESP 4 Outlet - Run 5	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 12:22	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g}/\text{ml}$
1	2.98	Fluoride	BMB*	0.906	9.535	0.9092
2	4.52	Chloride	BMB*	1.351	9.519	1.9222
TOTAL:				2.26	19.05	2.83



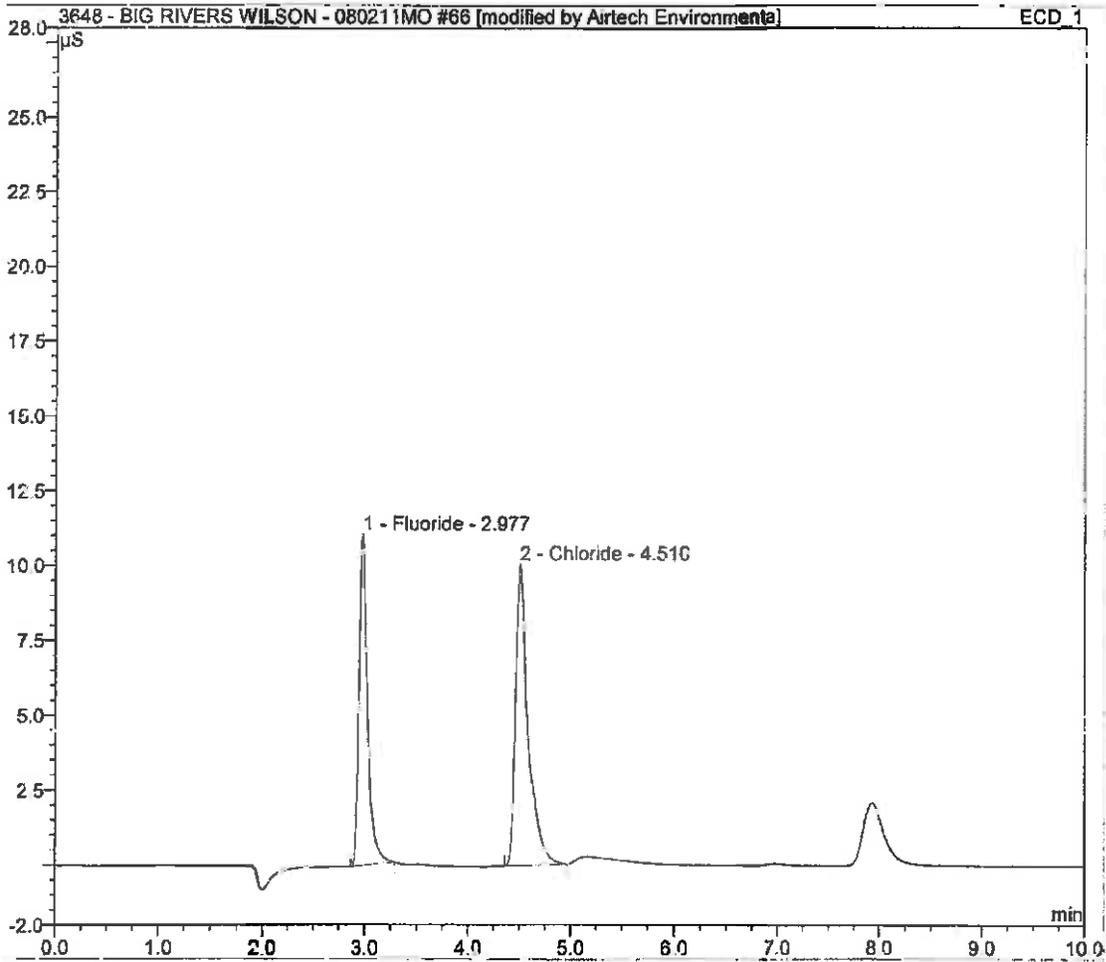
Sample Name:	ESP 4 Outlet - Run 6	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a
Inj. Date/Time:	08.08.11 12:53	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	1.062	10.966	1.0659
2	4.52	Chloride	BMB*	1.413	9.936	2.0111
TOTAL:				2.48	20.90	3.08



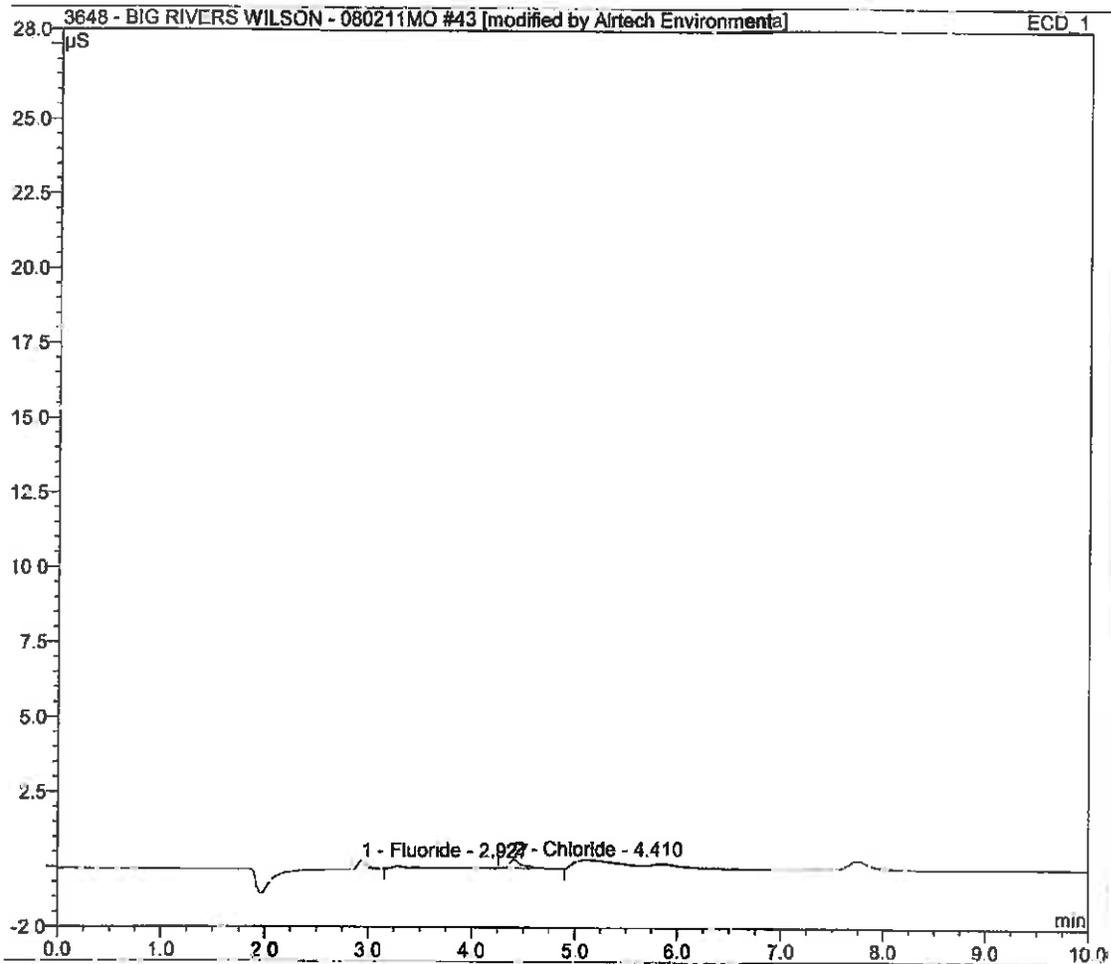
Sample Name:	ESP 4 Outlet - Run 6	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	08.08.11 13:14	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.98	Fluoride	BMB*	1.064	11.038	1.0675
2	4.51	Chloride	BMB*	1.432	10.045	2.0379
TOTAL:				2.50	21.08	3.11



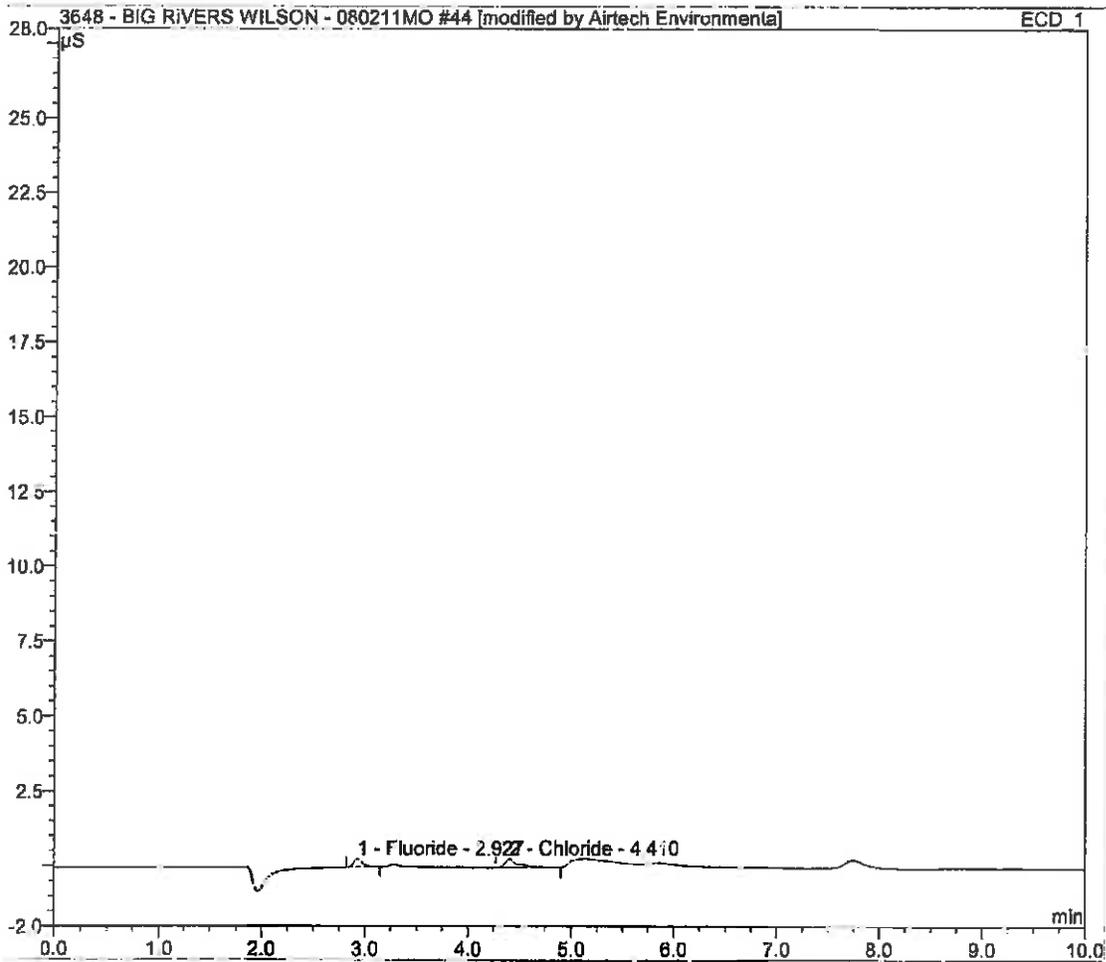
Sample Name:	Stack - Run 4	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 10:15	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.93	Fluoride	BMB	0.027	0.270	0.0271
2	4.41	Chloride	BMB*	0.044	0.292	0.0628
TOTAL:				0.07	0.56	0.09



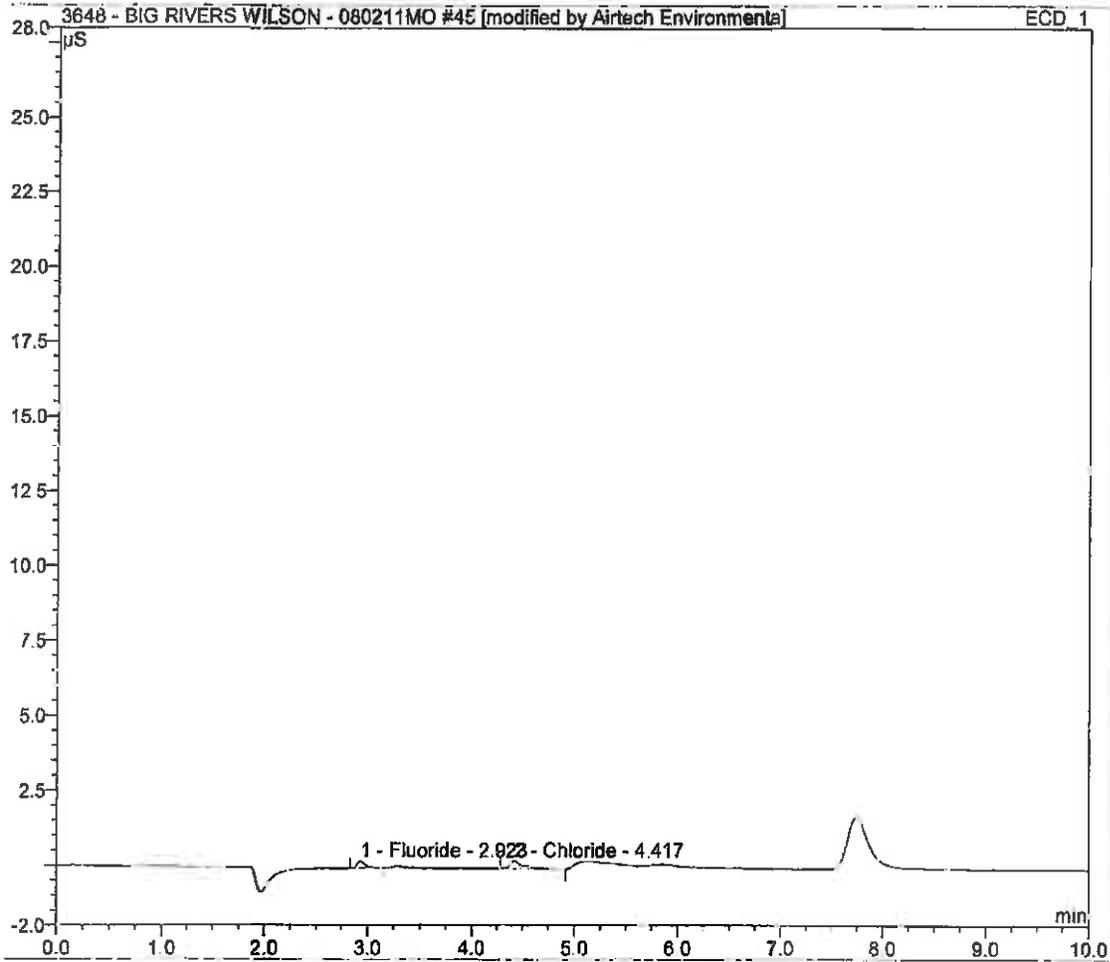
Sample Name:	Stack - Run 4	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 10:32	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.93	Fluoride	BMB	0.028	0.276	0.0280
2	4.41	Chloride	BMB*	0.043	0.291	0.0616
TOTAL:				0.07	0.57	0.09



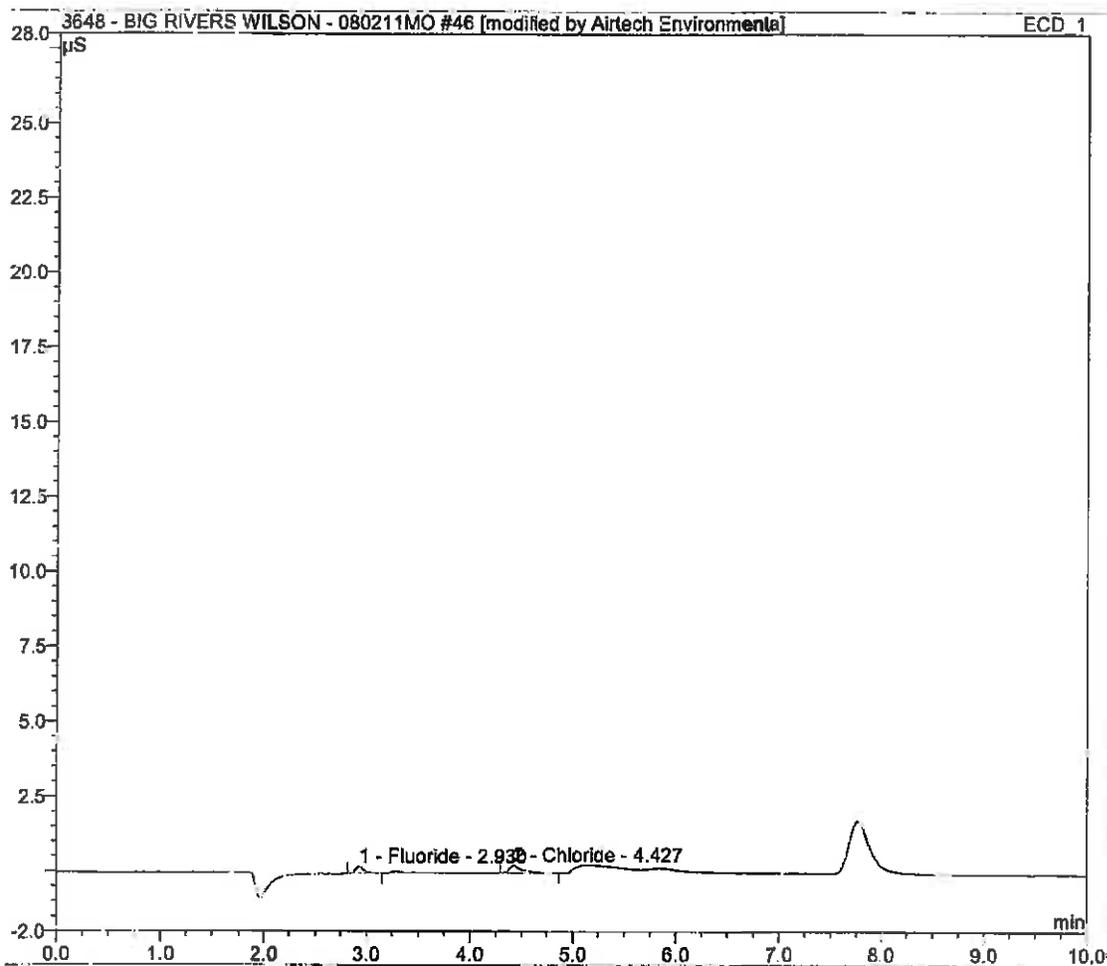
Sample Name:	Stack - Run 5	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 10:50	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S} \cdot \text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.92	Fluoride	BMB	0.022	0.229	0.0222
2	4.42	Chloride	BMB	0.038	0.248	0.0540
TOTAL:				0.06	0.48	0.08



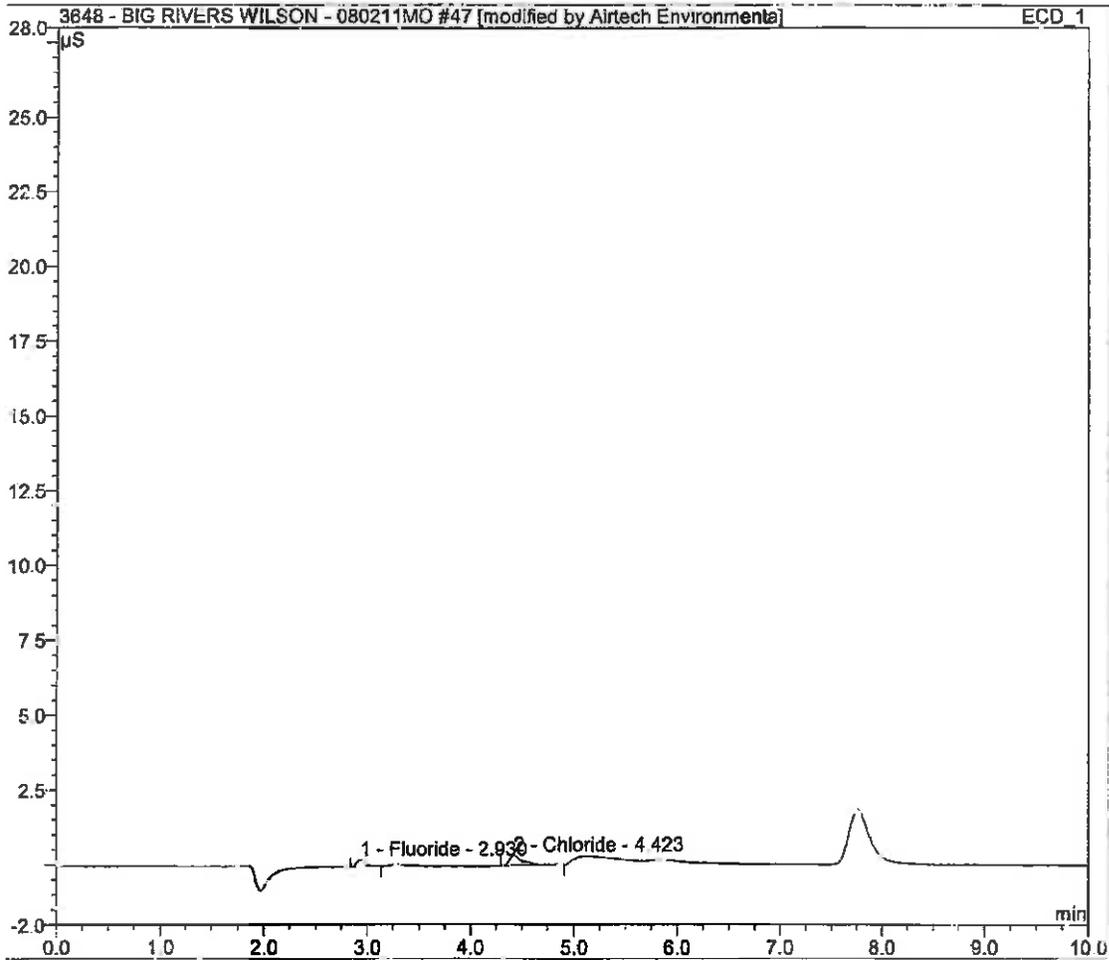
Sample Name:	Stack - Run 5	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 11:05	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.93	Fluoride	BMB	0.021	0.221	0.0216
2	4.43	Chloride	BMB	0.036	0.245	0.0507
TOTAL:				0.08	0.47	0.07



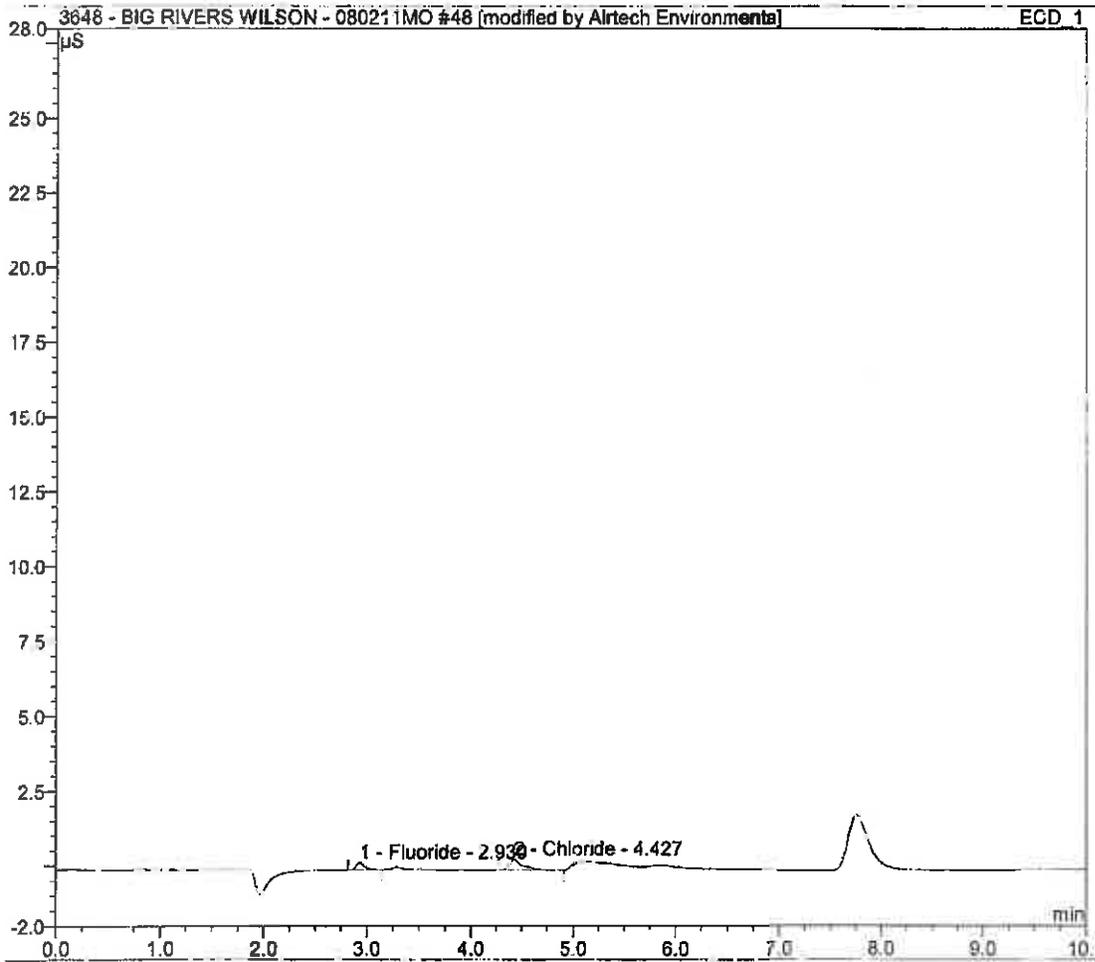
Sample Name:	Stack - Run 6	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 11:20	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g/ml}$
1	2.93	Fluoride	BMB	0.023	0.238	0.0229
2	4.42	Chloride	BMB*	0.053	0.354	0.0760
TOTAL:				0.08	0.59	0.10



Sample Name:	Stack - Run 6	Inj. Vol.:	10.0
Sample Type:	unknown	Dilution Factor:	1.0000
Program:	ChlorideCal	Operator:	n.a.
Inj. Date/Time:	05.08.11 11:37	Run Time:	15.00

No.	Time min	Peak Name	Type	Area $\mu\text{S}\cdot\text{min}$	Height μS	Amount $\mu\text{g}/\text{ml}$
1	2.93	Fluoride	BMB	0.024	0.242	0.0238
2	4.43	Chloride	BMB	0.053	0.355	0.0761
TOTAL:				0.08	0.60	0.10



3648 Big Rivers Wilson

(ml)

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AIRTECH
Environmental
Services Inc

www.airtechnv.com
800-841-5230

ESP Outlet 1	Run 4	503	
"	" 5	485	
"	" 6	510	
ESP Outlet 2	Run 4	499	
"	" 5	537	
"	" 6	543	
ESP Outlet 3	Run 4	462	
"	" 5	506	
"	" 6	472	
ESP Stack	Run 4	538	
"	" 5	553	
"	" 6	549	
ESP Outlet 4	Run 4	493	50:50 dilution
"	" 5	536	
"	" 6	523	

Chain of Custody

Includes the following:

- **Field Chain of Custody**

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

Project Number		3648		Location		ESP 1		Page		of	
Client		Big Rivers		Date		7/22/2011		Analysis Requested			
Plant		Wilson Station		Completed By		MH					
ID No.		Run No.		Date		Sample Description		HCHHF X X X 1 1 1 1			
R4-IMP-26A		4				Method 26A Back Half H ₂ SO ₄ Impinger Contents					
R5-IMP-26A		5				Method 26A Back Half H ₂ SO ₄ Impinger Contents					
R6-IMP-26A		6				Method 26A Back Half H ₂ SO ₄ Impinger Contents					
Relinquished By (signature)		Michael Hess		Relinquished By (signature)				Carrier			
(printed)		Michael Hess		(printed)				Laboratory			
Date/Time				Date/Time				Contact			
Accepted By (signature)		Michael Repertee		Accepted By (signature)				Address			
(printed)		Michael Repertee		(printed)				Phone			
Date/Time		8/1/11		Date/Time				Fax			
				Date/Time				Date/Time			



AIRTECH
Environmental
Services Inc.

Airtech Environmental Services Inc.
801A Country Club Drive
Bensenville, IL 60106
Phone: (630) 860-4740, Fax: (630) 860 4745



AIRTECH

*Environmental
Services Inc.*

**Ohio Lumex Spectrometer
(Mercury)
Analytical Report**

**Performed for
Big Rivers Electric Corporation
Wilson Plant
(Coal)
Project No. 3648
August 19, 2011**

Analyst: _____


Michael Ogletree

Reviewer: _____


Patrick Clark P.E.

Table of Contents

PROJECT SUMMARY.....	2
<i>General.....</i>	<i>2</i>
<i>Analytical Equipment.....</i>	<i>2</i>
<i>Condition of Samples When Received.....</i>	<i>2</i>
<i>Methodology.....</i>	<i>3</i>
<i>QA/QC.....</i>	<i>4</i>
APPENDIX	
<i>Results</i>	
<i>Calibration Data</i>	
<i>Chain of Custody</i>	

Project Summary

General

Project Information	
Date Received	7/25/2011
Analytical Protocol	EPA Method 30B
Total Number of Samples Received	54
Total Number of Blanks Received	NA

Analytical Equipment

Equipment Information	Manufacturer	Model	Serial No.
Zeeman Mercury Spectrometer	Ohio Lumex	RA-915+	1283

Parameters	Conditions
Oven Temperature	585° Celsius
Flow Rate	2.0 LPM

Condition of Samples When Received

Samples were received for analysis in good condition. The samples are summarized in the table below:

Sample Description	Trap ID	Spike Amount (ng)	Trap Condition
ESP 1 Run 4	95027	NA	Speciated
ESP 1 Run 4 S	94225	175	Spike
ESP 1 Run 5	94415	NA	Speciated
ESP 1 Run 5 S	94215	175	Spike
ESP 1 Run 6	94425	NA	Speciated
ESP 1 Run 6 S	94253	175	Spike
ESP 2 Run 4	95033	NA	Speciated
ESP 2 Run 4 S	94305	175	Spike
ESP 2 Run 5	95031	NA	Speciated
ESP 2 Run 5 S	94223	175	Spike
ESP 2 Run 6	94317	NA	Speciated
ESP 2 Run 6 S	94301	175	Spike
ESP 3 Run 4	94471	NA	Speciated
ESP 3 Run 4 S	94233	175	Spike
ESP 3 Run 5	94457	NA	Speciated
ESP 3 Run 5 S	94244	175	Spike
ESP 3 Run 6	94300	NA	Speciated
ESP 3 Run 6 S	94321	175	Spike
ESP 4 Run 4	94464	NA	Speciated
ESP 4 Run 4 S	94316	175	Spike

Sample Description	Trap ID	Spike Amount (ng)	Trap Condition
ESP 4 Run 5	94499	NA	Speciated
ESP 4 Run 5 S	94255	175	Spike
ESP 4 Run 6	94475	NA	Speciated
ESP 4 Run 6 S	94299	175	Spike
STACK Run 4	94350	NA	Speciated
STACK Run 4 S	72490	20	Spike
STACK Run 5	94406	NA	Speciated
STACK Run 5 S	72493	20	Spike
STACK Run 6	95037	NA	Speciated
STACK Run 6 S	72499	20	Spike
SCR 1 Run 4	94382	NA	Speciated
SCR 1 Run 4 S	94413	175	Spike
SCR 1 Run 5	94460	NA	Speciated
SCR 1 Run 5 S	94364	175	Spike
SCR 1 Run 6	94456	NA	Speciated
SCR 1 Run 6 S	94235	175	Spike
SCR 2 Run 4	94338	NA	Speciated
SCR 2 Run 4 S	94322	175	Spike
SCR 2 Run 5	94324	NA	Speciated
SCR 2 Run 5 S	94404	175	Spike
SCR 2 Run 6	94472	NA	Speciated
SCR 2 Run 6 S	94358	175	Spike
SCR 3 Run 4	94386	NA	Speciated
SCR 3 Run 4 S	94347	175	Spike
SCR 3 Run 5	94443	NA	Speciated
SCR 3 Run 5 S	94335	175	Spike
SCR 3 Run 6	94461	NA	Speciated
SCR 3 Run 6 S	94332	175	Spike
SCR 4 Run 4	94343	NA	Speciated
SCR 4 Run 4 S	94369	175	Spike
SCR 4 Run 5	94500	NA	Speciated
SCR 4 Run 5 S	94375	175	Spike
SCR 4 Run 6	94462	NA	Speciated
SCR 4 Run 6 S	94276	175	Spike

Methodology

All samples were analyzed according to the EPA Method 30B procedures found in 40 CFR Part 60 Appendix A.

QA/QC

The mercury calibration curve was generated using seven calibration standards. The standards were prepared by using a micro pipette to transfer a known amount of NIST traceable mercury standards to a bed of activated carbon and covered with potassium chloride.

The preparation of the mercury standards used for this project is detailed in the table below. All standards were supplied by Ohio Lumex, Twinsburg, Ohio 44087.

Concentration (µg/ml)	Volume (µl)	Final Hg (ng)
0.1	20	2
0.1	50	5
0.1	100	10
1	25	25
1	50	50
1	100	100
10	25	250
10	50	500

An independent calibration standard was analyzed along with the mercury calibration standards; results can be found in the calibration standards spreadsheet. A continuing calibration standard of 250 ng/ml was analyzed along with samples at least once every ten runs.

Results for ESP 4 Run 6 “Oxidized front half” is lacking an area count as a result of data acquisition malfunction.

Sample SCR 1 Run 5 “Oxidized front half” experienced sample loss while breaking the tube. Sample loss was presumed to be minimal, an estimated 5% of total sample volume.

Appendix

Includes the following:

- **Results**
- **Calibration Data**
- **Chain of Custody**

Results

Includes the following:

- **Mercury Results**

Analysis Date: Multiple
Analyst: BL

Sample Parameters	ESP 1	ESP 1	ESP 1	ESP 2	ESP 2	ESP 2
	Run 4	Run 5	Run 6	Run 4	Run 5	Run 6
Oxidized Front Half (area)	42	122	124	7,290	6,890	6,800
Oxidized Back Half (area)	46	62	44	5,560	3,160	3,900
Elemental Front Half (area)	82	517	683	41,400	43,100	48,300
Elemental Back Half (area)	95	101	0	42	34	208

RESULTS

Oxidized Front Half (ng)	0.199	0.578	0.588	32.2	30.4	30.0
Oxidized Back Half (ng)	0.218	0.294	0.209	26.3	13.9	17.2
Oxidized Breakthrough (%)	52.3	33.7	26.2	45.0	31.4	36.4
Total Oxidized (ng)	0.4	0.9	0.8	58.4	44.3	47.2
Elemental Front Half (ng)	0.389	2.45	3.24	183	190	213
Elemental Back Half (ng)	0.450	0.479	0.00	0.178	0.144	0.879
Elemental Breakthrough (%)	53.7	16.3	0.0	0.1	0.1	0.4
Total Elemental (ng)	0.839	2.93	3.24	183	190	214
Total Mercury (ng)	1.26	3.80	4.03	241	235	261

Sample Parameters	ESP 1	ESP 1	ESP 1	ESP 2	ESP 2	ESP 2
	Run 4 Spike	Run 5 Spike	Run 6 Spike	Run 4 Spike	Run 5 Spike	Run 6 Spike
Front Half (area)	66,700	57,200	67,800	94,300	92,800	97,200
Back Half (area)	0	39	20	0	71	6

RESULTS

Front Half (ng)	312	287	317	417	409	429
Back Half (ng)	0.00	0.185	0.0948	0.000	0.300	0.0254
Breakthrough (%)	0.0	0.1	0.0	0.0	0.1	0.0
Total Mercury (ng)	312	288	317	417	410	429

Sample Parameters	ESP 3	ESP 3	ESP 3	ESP 4	ESP 4	ESP 4
	Run 4	Run 5	Run 6	Run 4	Run 5	Run 6
Oxidized Front Half (area)	3,860	2,380	1,260	9,230	6,030	-
Oxidized Back Half (area)	105	700	308.0	10,800	6,080	4,410
Elemental Front Half (area)	61,800	65,500	60,200	34,200	55,900	74,000
Elemental Back Half (area)	99	56	85	2	39	189

RESULTS

Oxidized Front Half (ng)	39.1	10.3	5.47	40.1	28.2	NA
Oxidized Back Half (ng)	0.444	3.02	1.33	46.9	26.4	19.9
Oxidized Breakthrough (%)	1.1	22.6	19.6	53.9	50.2	NA
Total Oxidized (ng)	39.5	13.4	6.8	87.0	52.6	NA
Elemental Front Half (ng)	273	285	262	149	243	334
Elemental Back Half (ng)	0.419	0.242	0.367	0.00864	0.168	0.947
Elemental Breakthrough (%)	0.2	0.1	0.1	0.0	0.1	0.3
Total Elemental (ng)	273	285	262	149	243	335
Total Mercury (ng)	313	298	269	236	296	355

Sample Parameters	ESP 3	ESP 3	ESP 3	ESP 4	ESP 4	ESP 4
	Run 4 Spike	Run 5 Spike	Run 6 Spike	Run 4 Spike	Run 5 Spike	Run 6 Spike
Front Half (area)	91,600	105,000	102,000	108,000	109,000	125,000
Back Half (area)	133	161	21	17	0	61

RESULTS

Front Half (ng)	404	456	443	469	474	578
Back Half (ng)	0.562	0.695	0.350	0.0734	0.00	0.306
Breakthrough (%)	0.1	0.2	0.1	0.0	0.0	0.1
Total Mercury (ng)	405	457	443	469	474	579

Analysis Date: 8/9/11
Analyst: MO/SV

Sample Parameters	STACK	STACK	STACK	Blank
	Run 4	Run 5	Run 6	
Oxidized Front Half (area)	2,150	1,210	1,770	85
Oxidized Back Half (area)	0	71	7	N/A
Elemental Front Half (area)	11,500	12,300	13,700	
Elemental Back Half (area)	250	104	81	

RESULTS

Oxidized Front Half (ng)	9.72	5.58	8.00	0.384
Oxidized Back Half (ng)	0.00	0.307	0.0351	N/A
Oxidized Breakthrough (%)	0.0	5.2	0.4	N/A
Total Oxidized (ng)	9.72	5.88	8.03	
Elemental Front Half (ng)	52.0	56.7	61.9	
Elemental Back Half (ng)	1.25	0.450	0.406	
Elemental Breakthrough (%)	2.4	0.8	0.7	
Total Elemental (ng)	53.2	57.1	62.3	
Total Mercury (ng)	62.9	63.0	70.4	0.384

Sample Parameters	STACK	STACK	STACK
	Run 4 Spike	Run 5 Spike	Run 6 Spike
Front Half (area)	18,700	19,500	18,800
Back Half (area)	440	1,190	875

RESULTS

Front Half (ng)	84.5	89.9	85.0
Back Half (ng)	2.21	5.48	4.39
Breakthrough (%)	2.5	5.8	4.9
Total Mercury (ng)	86.7	95.4	89.3

Analysis Date: 8/10/11
Analyst: MO/SV

Sample Parameters	SCR 1	SCR 1	SCR 1	SCR 2	SCR 2	SCR 2
	Run 4	Run 5	Run 6	Run 4	Run 5	Run 6
Oxidized Front Half (area)	4,350	3,890	3,690	22,000	11,600	6,130
Oxidized Back Half (area)	1,490	2,070	2,070	1,690	4,010	3,000
Elemental Front Half (area)	85,400	70,400	69,200	52,000	61,100	61,100
Elemental Back Half (area)	106	0	17	119	56	0

RESULTS

Oxidized Front Half (ng)	22.8	17.9	17.0	101	53.5	28.3
Oxidized Back Half (ng)	6.87	9.54	9.54	7.79	18.5	13.8
Oxidized Breakthrough (%)	23.1	34.7	35.9	7.13	25.7	32.9
Total Oxidized (ng)	29.7	27.5	26.5	109	71.9	42.1
Elemental Front Half (ng)	394	324	319	240	282	282
Elemental Back Half (ng)	0.459	0.00	0.0736	0.515	0.242	0.00
Elemental Breakthrough (%)	0.1	0.0	0.0	0.2	0.1	0.0
Total Elemental (ng)	394	324	319	240	282	282
Total Mercury (ng)	424	352	346	349	354	324

Sample Parameters	SCR 1	SCR 1	SCR 1	SCR 2	SCR 2	SCR 2
	Run 4 Spike	Run 5 Spike	Run 6 Spike	Run 4 Spike	Run 5 Spike	Run 6 Spike
Front Half (area)	127,000	120,000	111,000	121,000	105,000	113,000
Back Half (area)	68	78	0	0	136	40

RESULTS

Front Half (ng)	586	553	512	558	484	521
Back Half (ng)	0.294	0.338	0.00	0.00	0.589	0.173
Breakthrough (%)	0.1	0.1	0.0	0.0	0.1	0.0
Total Mercury (ng)	586	553	512	558	485	521

Sample Parameters	SCR 3	SCR 3	SCR 6	SCR 4	SCR 4	SCR 4
	Run 4	Run 5	Run 6	Run 4	Run 5	Run 6
Oxidized Front Half (area)	3,920	4,480	3,260	5,260	2,990	4,770
Oxidized Back Half (area)	1,380	1,320	1,410	2,960	1,010	85
Elemental Front Half (area)	73,300	60,800	66,500	65,200	75,400	67,700
Elemental Back Half (area)	142	130	0	58	0	32

RESULTS

Oxidized Front Half (ng)	18.1	20.6	15.0	24.2	13.8	22.0
Oxidized Back Half (ng)	7.74	6.08	6.50	9.49	4.37	0.368
Oxidized Breakthrough (%)	30.0	22.8	30.2	28.1	24.1	1.6
Total Oxidized (ng)	25.8	26.7	21.5	33.7	18.2	22.4
Elemental Front Half (ng)	338	279	306	300	348	312
Elemental Back Half (ng)	0.615	0.563	0.00	0.251	0.00	0.139
Elemental Breakthrough (%)	0.2	0.2	0.0	0.1	0.0	0.0
Total Elemental (ng)	338	280	306	301	348	312
Total Mercury (ng)	364	307	328	334	366	335

Sample Parameters	SCR 3	SCR 3	SCR 6	SCR 4	SCR 4	SCR 4
	Run 4 Spike	Run 5 Spike	Run 6 Spike	Run 4 Spike	Run 5 Spike	Run 6 Spike
Front Half (area)	126,000	125,000	104,000	118,000	117,000	107,000
Back Half (area)	58	92	135	202	0	38

RESULTS

Front Half (ng)	596	576	479	558	539	493
Back Half (ng)	0.281	0.398	0.584	0.978	0.00	0.165
Breakthrough (%)	0.0	0.1	0.1	0.2	0.0	0.0
Total Mercury (ng)	596	576	480	559	539	493

Calibration Data

Includes the following:

- **Mercury Standards**
- **Mercury Calibration Curves**

GENERAL INFORMATION

Date: 8/4/11
 Analyzer: Lumex
 Analyst: BL

INITIAL CALIBRATION

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,030	0.00485	4.82	-3.7	Yes
2	10	2,100	0.00476	9.82	-1.8	Yes
3	25	5,540	0.00451	25.9	3.6	Yes
4	50	10,200	0.00490	47.7	-4.6	Yes
5	100	22,500	0.00444	105	5.2	Yes
6	250	53,500	0.00467	250	0.1	Yes
7	500	109,000	0.00459	510	1.9	Yes

Average Response Factor (ng/area) 0.00468
 R-Squared 1.00

LOW LEVEL STANDARD - FOR QUANTIFICATION BELOW 5 NG

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	2	422	0.00474	2	-1.3	NA

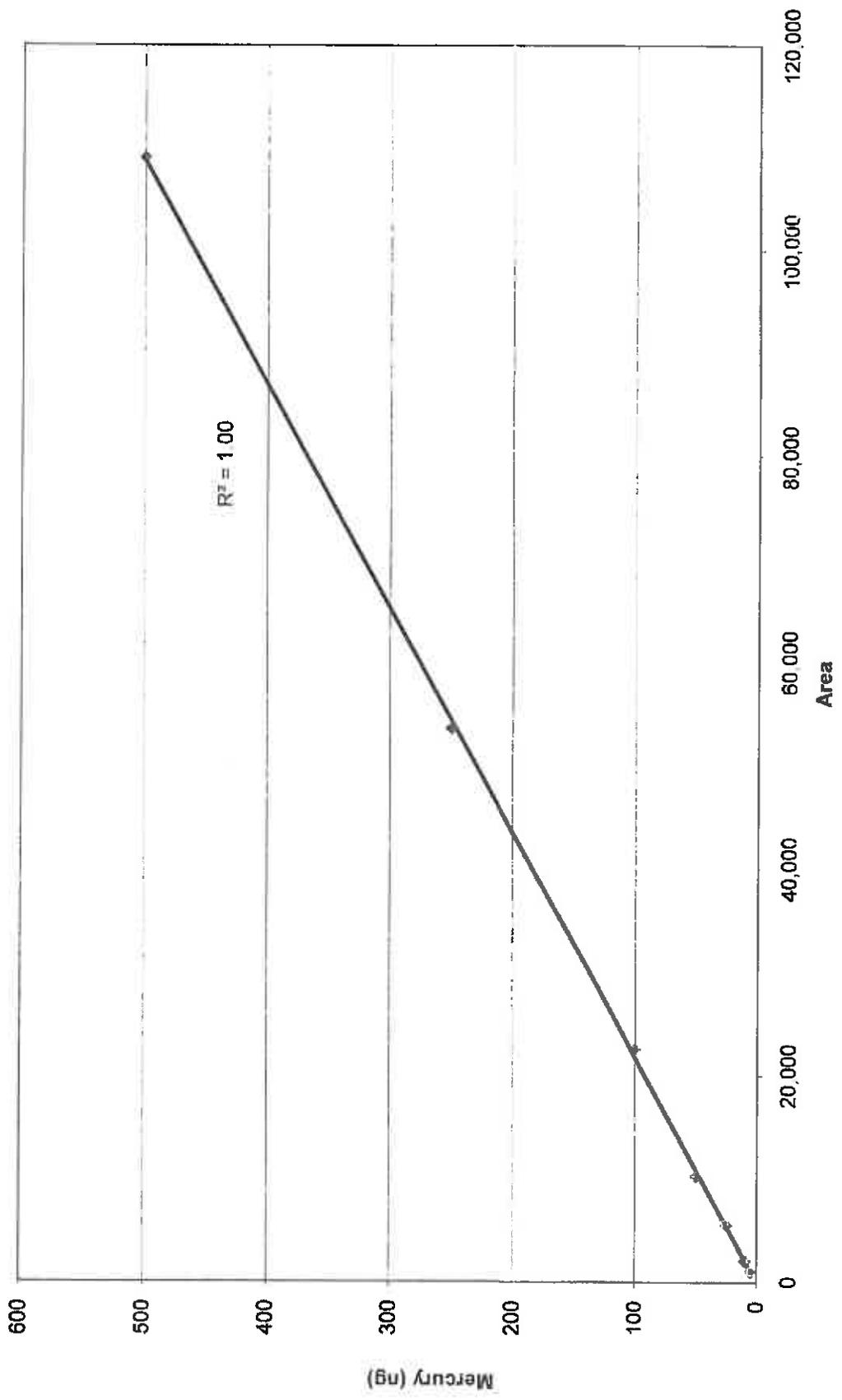
SECOND SOURCE CHECK STANDARD ANALYSIS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	54,300	0.00460	254	1.6	Yes

CONTINUING CALIBRATION VERIFICATION STANDARDS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	51,900	0.00482	243	-2.9	Yes
NA	250	53,300	0.00469	249	-0.3	Yes

**Mercury Calibration Summary
(ESP 1 Runs 4-6)**



GENERAL INFORMATION

Date: 8/5/11
 Analyzer: Lumex
 Analyst: BL/JN

INITIAL CALIBRATION

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,190	0.00420	5.25	5.0	Yes
2	10	2,400	0.00417	10.6	5.9	Yes
3	25	5,790	0.00432	25.5	2.2	Yes
4	50	11,500	0.00435	50.7	1.5	Yes
5	100	21,000	0.00476	92.6	-7.4	Yes
6	250	54,600	0.00458	241	-3.7	Yes
7	500	111,000	0.00450	490	-2.1	Yes

Average Response Factor (ng/area) 0.00441
 R-Squared 1.00

LOW LEVEL STANDARD - FOR QUANTIFICATION BELOW 5 NG

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	2	473	0.00423	2	4.3	NA

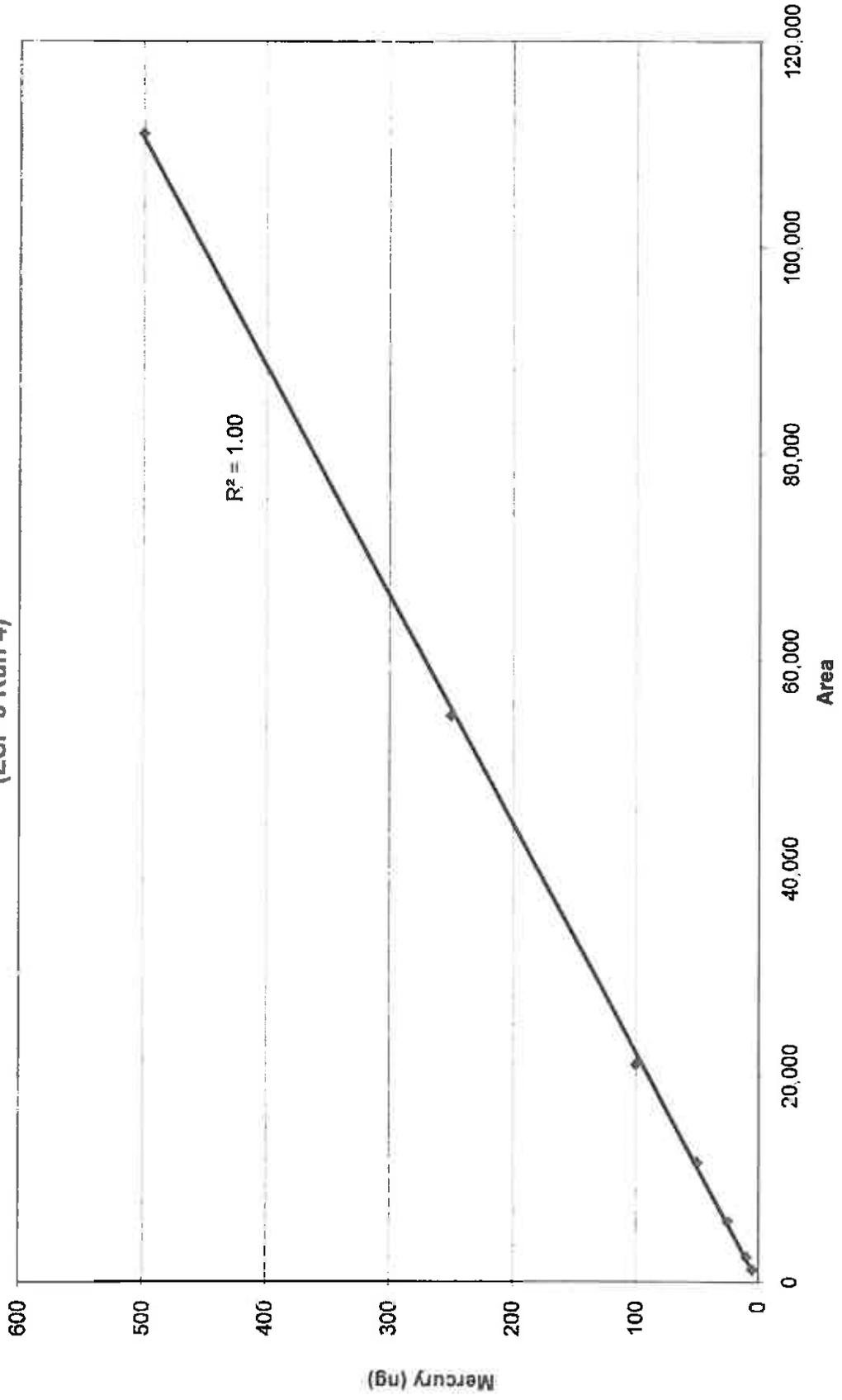
SECOND SOURCE CHECK STANDARD ANALYSIS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	53,600	0.00466	236	-5.4	Yes

CONTINUING CALIBRATION VERIFICATION STANDARDS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	54,900	0.00455	242.18	-3.1	Yes
NA	250	55,300	0.00452	243.95	-2.4	Yes
NA	250	53,600	0.00466	236.45	-5.4	Yes
NA	250	53,500	0.00467	236.00	-5.6	Yes

**Mercury Calibration Summary
(ESP 2 Runs 4-6)
(ESP 3 Run 4)**



GENERAL INFORMATION

Date: 8/8/11
 Analyzer: Ohio Lumex
 Analyst: MO/SV

INITIAL CALIBRATION

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,170	0.00427	5.08	1.7	Yes
2	10	2,470	0.00405	10.7	7.3	Yes
3	25	6,280	0.00398	27.3	9.1	Yes
4	50	11,300	0.00442	49.1	-1.8	Yes
5	100	22,400	0.00446	97.3	-2.7	Yes
6	250	54,000	0.00463	235	-6.2	Yes
7	500	109,000	0.00459	474	-5.3	Yes

Average Response Factor (ng/area) 0.00434
 R-Squared 1.00

LOW LEVEL STANDARD - FOR QUANTIFICATION BELOW 5 NG

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	2	463	0.00432	2	0.6	NA

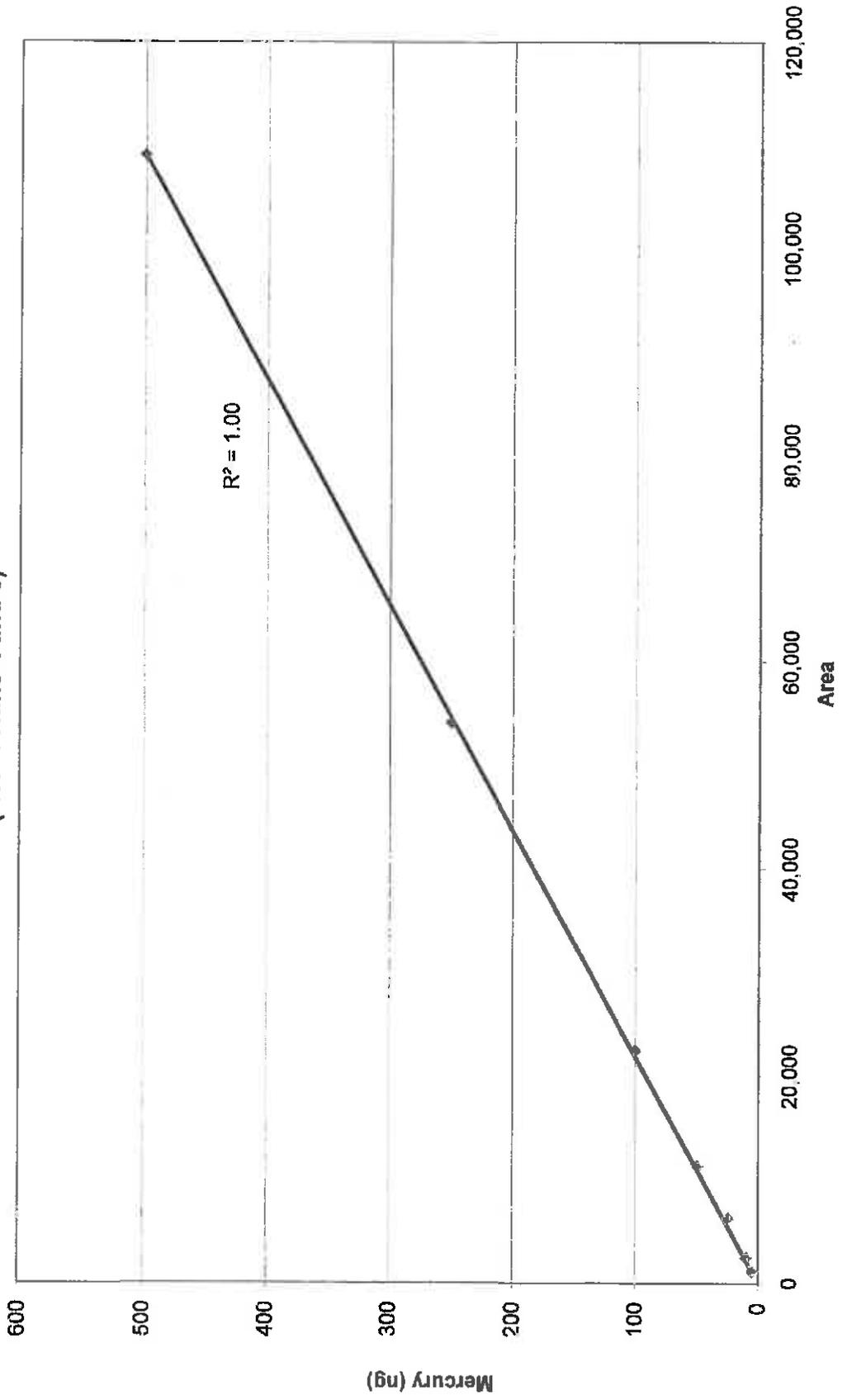
SECOND SOURCE CHECK STANDARD ANALYSIS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	53,900	0.00464	234	-6.3	Yes

CONTINUING CALIBRATION VERIFICATION STANDARDS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	25	5,350	0.00467	23.2	-7.0	Yes
NA	250	52,200	0.00479	227	-9.3	Yes
NA	250	51,800	0.00483	225	-9.99	Yes
NA	250	52,300	0.00478	227	-9.1	Yes
NA	250	53,000	0.00472	230	-7.9	Yes

**Mercury Calibration Summary
(ESP 3 Runs 5 and 6)
(ESP 4 Runs 4 and 5)**



GENERAL INFORMATION

Date: 8/9/11
 Analyzer: Ohio Lumex
 Analyst: MO/SV

INITIAL CALIBRATION

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,190	0.00420	5.38	7.6	Yes
2	10	2,310	0.00433	10.4	4.4	Yes
3	25	5,660	0.00442	25.6	2.3	Yes
4	50	10,500	0.00476	47.4	-5.1	Yes
5	100	22,100	0.00452	99.9	-0.1	Yes
6	250	52,900	0.00473	239	-4.4	Yes
7	500	107,000	0.00467	484	-3.3	Yes

Average Response Factor (ng/area) 0.00452
 R-Squared 1.00

LOW LEVEL STANDARD - FOR QUANTIFICATION BELOW 5 NG

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	2	399	0.00501	2	-9.8	NA

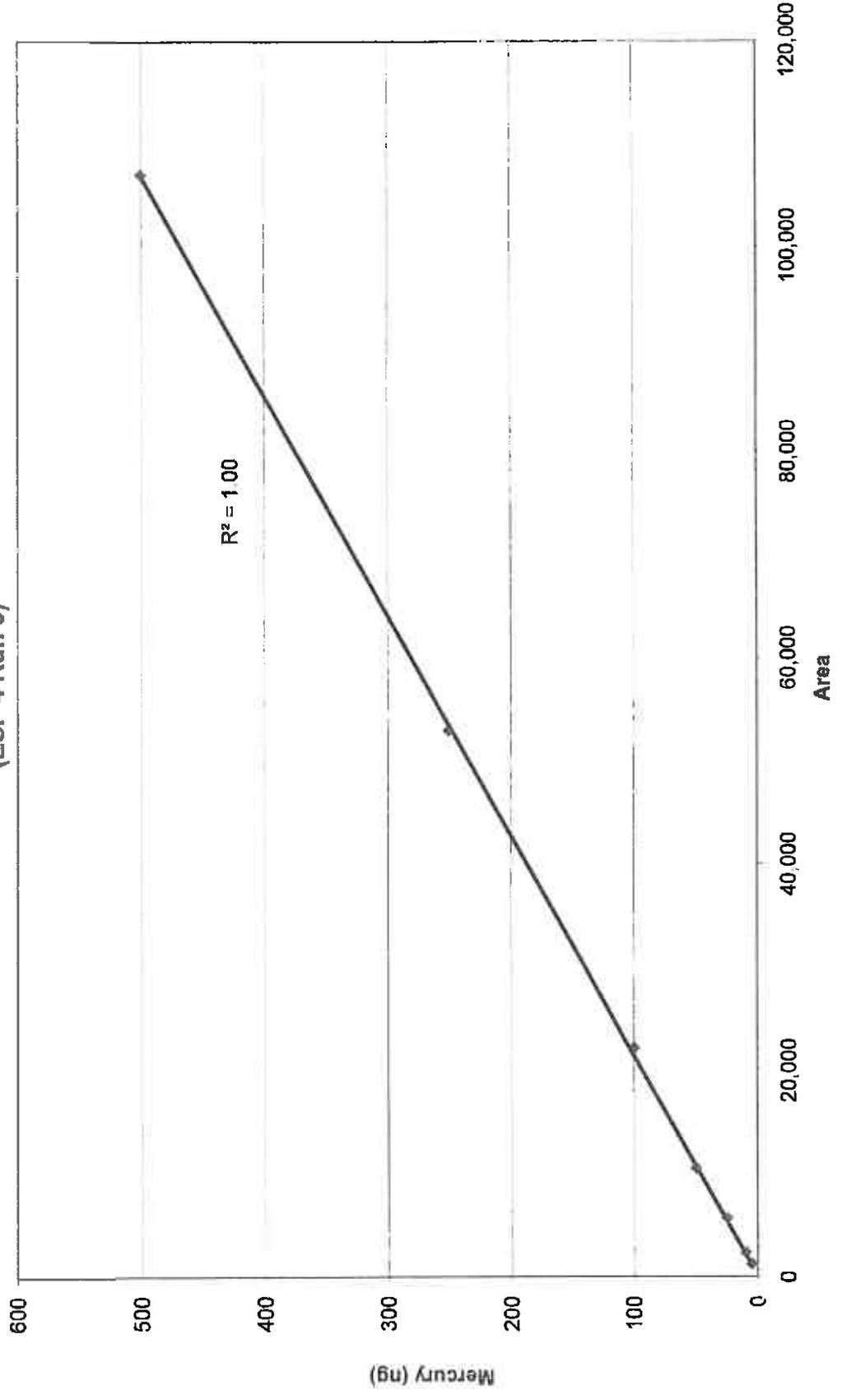
SECOND SOURCE CHECK STANDARD ANALYSIS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	53,500	0.00467	242	-3.3	Yes

CONTINUING CALIBRATION VERIFICATION STANDARDS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	5	1,150	0.00435	5.20	3.9	Yes
NA	250	52,700	0.00474	238	-4.7	Yes
NA	250	50,900	0.00491	230	-8.0	Yes
NA	250	51,900	0.00482	235	-6.2	Yes
NA	250	51,200	0.00488	231	-7.5	Yes
NA	250	50,300	0.00497	227	-9.1	Yes
NA	250	50,200	0.00498	227	-9.3	Yes
NA	250	51,400	0.00486	232	-7.1	Yes
NA	250	49,900	0.00501	225	-9.8	Yes

**Mercury Calibration Summary
(Stack Run 4 and 6)
(ESP 4 Run 6)**



GENERAL INFORMATION

Date: 8/10/11
 Analyzer: Ohio Lumex
 Analyst: MO/SV

INITIAL CALIBRATION

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
1	5	1,130	0.00442	5.21	4.2	Yes
2	10	2,150	0.00465	9.91	-0.91	Yes
3	25	5,610	0.00446	25.9	3.4	Yes
4	50	10,900	0.00459	50.2	0.5	Yes
5	100	21,700	0.00461	100	0	Yes
6	250	51,900	0.00482	239	-4.3	Yes
7	500	106,000	0.00472	489	-2.3	Yes

Average Response Factor (ng/area) 0.00461
 R-Squared 1.00

LOW LEVEL STANDARD - FOR QUANTIFICATION BELOW 5 NG

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	2	462	0.00433	2.13	6	NA

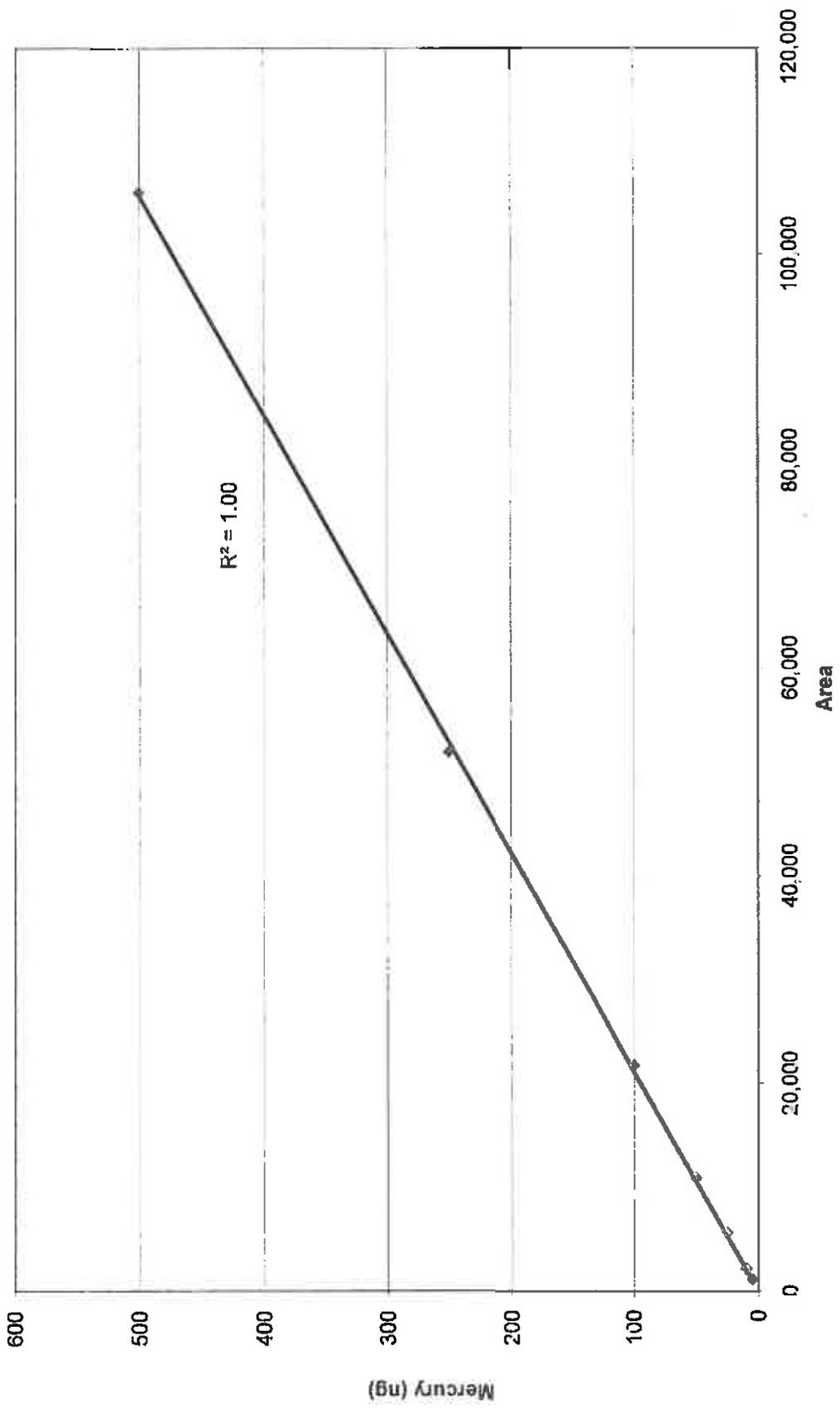
SECOND SOURCE CHECK STANDARD ANALYSIS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	52,000	0.00481	240	-4.1	Yes

CONTINUING CALIBRATION VERIFICATION STANDARDS

Standard Number	Amount (ng)	Response (area)	RF (ng/area)	Calculated Value (ng)	Error (%)	Valid?
NA	250	52,100	0.00480	240	-3.95	Yes
NA	250	50,100	0.00499	231	-7.6	Yes
NA	250	51,000	0.00490	235	-6.0	Yes
NA	250	49,900	0.00501	230	-8	Yes
NA	250	50,400	0.00496	232	-7.1	Yes
NA	250	50,300	0.00497	232	-7.3	Yes
NA	250	50,400	0.00496	232	-7	Yes
NA	250	49,000	0.00510	226	-10	Yes
NA	250	49,200	0.00508	227	-9.3	Yes
NA	250	50,700	0.00493	234	-6.5	Yes
NA	250	49,800	0.00502	230	-8.2	Yes
NA	250	51,700	0.00484	238	-4.7	Yes

**Mercury Calibration Summary
(SCR 1-4 Runs 4-6 and Stack Run 5)**



Chain of Custody

Includes the following:

- **Field Chain of Custody**



Sorbent Trap Chain of Custody

Plant/Source: Rm 4 Big Rivers Energy - Wilson Station Test Location: ESP 1 Exhaust

Boiler ID: _____ Trap ID: OL 95027
Trap A B (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: Aurteah (ML) Type of Trap: Speciation

Test Start	Leak Check	Test End	Leak Check
(Date/Time :)	Pass/Fail	(Date/Time)	Pass/Fail

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
---------------	--	--	--	--	--	--	--

Chain of Custody

Relinquished by Tech: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

Best Before: June 2013

For Analysis contact us:

Ohio Lumex Co., Inc. 9263 Ravenna Road Unit A-3, Twinsburg, OH 44087 USA

Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611

Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool



Sorbent Trap Chain of Custody

Plant/Source: ^{Run 5} Big Rivers Energy - Wilson Station Test Location: ESP1 Exhaust

Boiler ID: _____ Trap ID: OL 94415
Trap A B (Circle One)

Unspiked Spiked At: _____ QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

Sampled By: Airtech (ML) Type of Trap: Specialization
 COIL 240 mm
 AGS 300 mm
 185 mm 450 mm

Test Start (Date/Time) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry
For Analysis contact us:
Ohio Lumex Co., Inc. 9263 Ravenna Road Unit A-3, Twinsburg, OH 44087 USA
Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611
Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool

Best Before: June 2013



Sorbent Trap Chain of Custody

Plant/Source: Run 5 Big Rivers Energy - Wilson Station Test Location: ESP Exhaust 1

Boiler ID: _____ Trap ID: OL 94215
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: Artech (ML) Type of Trap: 30B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
-----------------------------	-------------------------	-------------------------	-------------------------

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
---------------	--	--	--	--	--	--	--

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry
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 Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool

Best Before June 2013



Sorbent Trap Chain of Custody

Plant/Source: Run 6 Big Rivers Energy - Wilson Station Test Location: ESP Exhaust

Boiler ID: _____ Trap ID: OL 94425
Trap A B (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) J. B. B.

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
185 mm 450 mm

Sampled By: Artch (ML) Type of Trap: Speciation

Test Start (Date/Time :) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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Best Before: June 2013

Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool



Sorbent Trap Chain of Custody

Plant/Source: Run 6 Big Rivers Energy - Wilton Station Test Location: ESP 1 Exhaust

Boiler ID: _____ Trap ID: OL 940253
Trap A E (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: A. [Signature] (ML) Type of Trap: 30B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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Impregnated Activated Carbon – Refer to MSDS
 Deactivated glass and glass wool

Best Before June 2013



Sorbent Trap Chain of Custody

Plant/Source: DB Wilson Test Location: ESP 2 R-4

Boiler ID: _____ Trap ID: OL 95033
Trap A B (Circle One)

Unspiked Spiked At: _____ QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Tracable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

Sampled By: CS Type of Trap: Speciation
 COIL 240 mm
 AGS 300 mm
185 mm 450 mm

Test Start 7:03 Leak Check Test End 8:39 Leak Check
(Date/Time) 7-19-11 (Pass/Fail) (Date/Time) 7-19-11 (Pass/Fail)

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average _____

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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 Deactivated glass and glass wool

Run 4



Sorbent Trap Chain of Custody

Plant/Source: DB Wilson Test Location: esp 2 R-4

Boiler ID: _____ Trap ID: OL 94305
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: C-S Type of Trap: 30B

Test Start 7:03 Leak Check Pass/Fail Test End 8:39 Leak Check Pass/Fail
(Date/Time) 7-19-11 (Date/Time) 7-19-11

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average _____

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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 Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool

Best Before: June 2013

Kur)



Sorbent Trap Chain of Custody

Plant/Source: DB Wilson Test Location: Sec 2 ESP # 2 R-5

Boiler ID: _____ Trap ID: OL 95031
Trap A B (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

Sampled By: CS Type of Trap: Specification

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
-----------------------------	-------------------------	-------------------------	-------------------------

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

For Analysis contact us:

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Impregnated Activated Carbon – Refer to MSDS
Deactivated glass and glass wool

Best Before: June 2013



Run 5

Sorbent Trap Chain of Custody

Plant/Source: DB Wilson Test Location: Scott ESP # 2 R-5

Boiler ID: _____ Trap ID: OL 94223
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: CS Type of Trap: 30B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool





Sorbent Trap Chain of Custody

Plant/Source: D. B. Wilson Test Location: ESP #2 R-6

Boiler ID: _____ Trap ID: OL 94301
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 240 mm
- 185 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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Deactivated glass and glass wool

Printed: Jun 2013



Sorbent Trap Chain of Custody

Plant/Source: Big Rivers oxensboro Test Location: ESP-3 R+R-4

Boiler ID: D. B. Wilson Trap ID: OL 94471
Trap A B / (Circle One)

Unspiked Spiked At: _____ QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

- COIL
- AGS 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool



Sorbent Trap Chain of Custody

7-19-11

Plant/Source: Big Rivers Test Location: ESP-3 R-4

Boiler ID: D.B. Wilson Trap ID: OL 94233
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average						
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool





Sorbent Trap Chain of Custody

Plant/Source: Big Rivers Owensboro Test Location: ESP-3 R-5 B2

Boiler ID: D.B. Wilson Trap ID: OL 94457
Trap A B (Circle One)

Unspiked Spiked At: _____ QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
185 mm 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start (Date/Time :) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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Impregnated Activated Carbon – Refer to MSDS
Deactivated glass and glass wool





Sorbent Trap Chain of Custody

Plant/Source: Big River owerchop Test Location: ESP-3 - R-15

Boiler ID: P.B. Wilson Trap ID: OL 94244
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 240 mm
- 300 mm
- 185 mm
- 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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 Impregnated Activated Carbon – Refer to MSDS
 Deactivated glass and glass wool

Best Practice Jun 2015



Sorbent Trap Chain of Custody

Plant/Source: Big River averis Test Location: ESP-3 R3 R-6

Boiler ID: D.B. Wilson Trap ID: OL 94300
Trap A B (Circle One)

Unspiked

Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
185 mm 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start (Date/Time) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool





Sorbent Trap Chain of Custody

Plant/Source: Big Rivers dunnboro Test Location: ESP-3 BJR-6
 Boiler ID: D.B. Wilson Trap ID: OL 94321
 Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average						
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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Impregnated Activated Carbon – Refer to MSDS
 Deactivated glass and glass wool

Best Practice June 2013



Sorbent Trap Chain of Custody

Plant/Source: BIG RIVERS Test Location: ESP OUT #4 R-4

Boiler ID: WILSON Trap ID: OL 94464
Trap A BA (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
 185 mm 450 mm

Sampled By: KAPUT Type of Trap: Speciation

Test Start (Date/Time :) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: <u>[Signature]</u>	Date: <u>7/17/11</u>
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

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Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool



Sorbent Trap Chain of Custody

Plant/Source: Big Rivers / Wilson Test Location: ESP OUT #4 R-4

Boiler ID: _____ Trap ID: OL 94316
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: KAPUT Type of Trap: 30B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average						
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Chain of Custody

Relinquished by Tech.: <u>[Signature]</u>	Date: <u>7/19</u>
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool

Best Before: June 2013



Sorbent Trap Chain of Custody

Plant/Source: Big RIVERS Test Location: ESP OUT #4 R-5
 Boiler ID: Wilson Trap ID: OL 94499
 Trap A B (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

- COIL
- AGS
- 240 mm
- 300 mm
- 185 mm
- 450 mm

Sampled By: _____ Type of Trap: Speciation
 Test Start (Date/Time): _____ Leak Check Pass/Fail _____ Test End (Date/Time): _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average _____

Chain of Custody

Relinquished by Tech.: [Signature] Date: 7/19/11
 Received by: _____ Date: _____
 Relinquished by: _____ Date: _____
 Received for Laboratory by: _____ Date: _____

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 Impregnated Activated Carbon – Refer to MSDS
 Deactivated glass and glass wool

Best Before: June 2013



Sorbent Trap Chain of Custody

Plant/Source: BIG RIVERS Test Location: ESP OUT #4 R-C

Boiler ID: WILSON Trap ID: OL 94255
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: KAPUT Type of Trap: 30B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
-----------------------------	-------------------------	-------------------------	-------------------------

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: <u>[Signature]</u>	Date: <u>7/19/11</u>
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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 Deactivated glass and glass wool





Sorbent Trap Chain of Custody

Plant/Source: Big Rivers Test Location: ESP OUT #4 B-6

Boiler ID: WILSON Trap ID: OL 94475
Trap A (B) (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

- COIL
- AGS
- 240 mm
- 185 mm
- 300 mm
- 450 mm

Sampled By: KAPUT Type of Trap: Speciation

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
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Chain of Custody

Relinquished by Tech.: <u>[Signature]</u>	Date: <u>7/19/11</u>
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

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 Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool





Sorbent Trap Chain of Custody

Plant/Source: Big Rivers Test Location: ESP OUT #4 R-6

Boiler ID: WILSON Trap ID: OL 94299

Trap: (A) B (Circle One)

Unspiked

Spiked At: 175 ng
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL 185 mm
- AGS 240 mm
- 300 mm
- 450 mm

Sampled By: KAPUT Type of Trap: 30B

Test Start (Date/Time): _____	Leak Check Pass/Fail _____	Test End (Date/Time) _____	Leak Check Pass/Fail _____
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: <u>[Signature]</u>	Date: <u>7/19/11</u>
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

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Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool

REV 10/05/08



Sorbent Trap Chain of Custody

7/19/11
KA

Plant/Source: _____ Test Location: Q.B Wilson Outlet Stack

Boiler ID: _____ Trap ID: OL 94350 ^{R-4}

Trap A B (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
185 mm 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start (Date/Time) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

For Analysis contact us:

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Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool

DATE RECEIVED: JUL 20 2011



Sorbent Trap Chain of Custody

7/12/11 ~~AT~~

Plant/Source: D.B. Wilson Test Location: Outlet Stacks R-4

Boiler ID: _____ Trap ID: OL 72490
Trap A B (Circle One)

Unspiked Spiked At: 20 ng QA/QC Signature (Trap Maker)

Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker)

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30 B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average						
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry
 For Analysis contact us:
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Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool

Printed Date: March 28, 2011



Sorbent Trap Chain of Custody

Plant/Source: Ston Lake R-~~45~~5

Test Location: atlet DB Wilson Rd 7/19

Boiler ID: _____

Trap ID: OL 94406
Trap A B (Circle One)

Unspiked

Spiked At: _____
Certified Accuracy \pm 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng

QA/QC Signature (Spiker) _____

COIL
 AGS
185 mm 300 mm
450 mm

Sampled By: _____

Type of Trap: Speciation

Test Start
(Date/Time :)

Leak Check
Pass/Fail

Test End
(Date/Time)

Leak Check
Pass/Fail

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

For Analysis contact us:

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Best Before: June 2013

Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool



Sorbent Trap Chain of Custody

Plant/Source: Stack R-5 Test Location: D.B. Wilson O.H. Rd R2

Boiler ID: _____ Trap ID: OL 72493^{7/19}
Trap A B (Circle One)

Unspiked Spiked At: 20:40 QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30 B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

For Analysis contact us:

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Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611

Impregnated Activated Carbon – Refer to MSDS
Deactivated glass and glass wool

Use Before: March 2019



Sorbent Trap Chain of Custody

17/19

Plant/Source: Stack R-6 Test Location: D.B. Wilson Outlet

Boiler ID: _____ Trap ID: OL 95037
Trap A B (Circle One)

Unspiked Spiked At: _____ QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL
 AGS 185 mm
 240 mm
 300 mm
 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start (Date/Time) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry
 For Analysis contact us:
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 Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611
 Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool



Sorbent Trap Chain of Custody

Plant/Source: A. B. Wilson Test Location: SCR # 1 R-4

Boiler ID: _____ Trap ID: OL 94413
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Tracable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 300

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average						
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry
 For Analysis contact us:
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Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool





Sorbent Trap Chain of Custody

Plant/Source: D.B. Wilson Test Location: SCR #1 R-5

Boiler ID: _____ Trap ID: OL 94460
Trap A B (Circle One)

Unspiked Spiked At: _____ QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
185 mm 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start (Date/Time) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry
 For Analysis contact us:
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 Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool



Sorbent Trap Chain of Custody

Plant/Source: D.B. Wilson Test Location: SCR #1 R-5

Boiler ID: _____ Trap ID: OL 94364
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

COIL 240 mm
 AGS 300 mm
 185 mm 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start (Date/Time :) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average _____

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

For Analysis contact us:

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Best Before: June 2013

*regnated Activated Carbon - Refer to MSDS
*vated glass and glass wool



Sorbent Trap Chain of Custody

Plant/Source: D. B. Wilson Test Location: SCR # 1 R-6

Boiler ID: _____ Trap ID: OL 94456

Trap A B (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
 185 mm 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start (Date/Time :) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

For Analysis contact us:

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Impregnated Activated Carbon – Refer to MSDS
Deactivated glass and glass wool

Best Before: June 2013



Sorbent Trap Chain of Custody

Plant/Source: D.B. Wilson Test Location: SCR # 1 R-6

Boiler ID: _____ Trap ID: OL 94235
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 240 mm
- 185 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry
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Impregnated Activated Carbon – Refer to MSDS
 Deactivated glass and glass wool



Sorbent Trap Chain of Custody

Plant/Source: D. B. Wilson Test Location: SR SCR #2 R-4

Boiler ID: _____ Trap ID: OL 94338
Trap A B (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
185 mm 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start (Date/Time) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

For Analysis contact us:

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Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611

Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool

Best Before: June 2019



Sorbent Trap Chain of Custody

Plant/Source: O.B. Wilson Test Location: SCR #2 R-5

Boiler ID: _____ Trap ID: OL 94324
Trap A B (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
185 mm 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start (Date/Time) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

For Analysis contact us:

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Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool

Best Before: June 2015



Sorbent Trap Chain of Custody

Plant/Source: D. B. Wilson Test Location: SCR #2 R-5

Boiler ID: _____ Trap ID: OL 94404
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

COIL 240 mm
 AGS 300 mm
 185 mm 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start (Date/Time :) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
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Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

For Analysis contact us:

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Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool

Rev. 10/01/07



Sorbent Trap Chain of Custody

Plant/Source: D. B. Wilson Test Location: SUR EST # 2 R-6

Boiler ID: _____ Trap ID: OL 94472
Trap A B (Circle One)

Unspiked Spiked At: _____ QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
 185 mm 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start (Date/Time) _____ Leak Check Pass/Fail _____ Test End (Date/Time) _____ Leak Check Pass/Fail _____

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
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Chain of Custody

Relinquished by Tech.: _____ Date: _____

Received by: _____ Date: _____

Relinquished by: _____ Date: _____

Received for Laboratory by: _____ Date: _____

Keep Dry
 For Analysis contact us:
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 Impregnated Activated Carbon – Refer to MSDS
 Deactivated glass and glass wool



Sorbent Trap Chain of Custody

Plant/Source: D.B. Wilson Test Location: SCR ESP # 2 R-1

Boiler ID: _____ Trap ID: OL 94358
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start (Date/Time :)	Leak Check Pass/Fail	Test End (Date/Time)	Leak Check Pass/Fail
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Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry
 For Analysis contact us:
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 Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool





Sorbent Trap Chain of Custody

Plant/Source: D.B. Wilson Big Rivers Test Location: R-4 SCR #3 R-1 Unit 3 Inlet

Boiler ID: _____ Trap ID: OL 94386
Trap A B (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Traceable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
185 mm 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start 7/20/11 Leak Check Pass Test End 7/20/11 Leak Check Pass
(Date/Time) 9:28 Pass/Fail Pass (Date/Time) 10:54 Pass/Fail Pass

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____ Date: _____

Received by: _____ Date: _____

Relinquished by: _____ Date: _____

Received for Laboratory by: _____ Date: _____

Keep Dry
 For Analysis contact us:
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 Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool





Sorbent Trap Chain of Custody

R-4 SUR # 3

Plant/Source: D.B. Wilson Big Rivers Test Location: Putnam Inlet

Boiler ID: _____ Trap ID: OL 94347
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start 7/20/11 Leak Check _____ Test End 7/20/11 Leak Check _____
(Date/Time) 9:28 Pass/Fail Pass (Date/Time) 10:58 Pass/Fail Pass

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average

Chain of Custody

Relinquished by Tech.:	_____	Date:	_____
Received by:	_____	Date:	_____
Relinquished by:	_____	Date:	_____
Received for Laboratory by:	_____	Date:	_____

Keep Dry
 For Analysis contact us:
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Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool

FORM 100-100-100-100



Sorbent Trap Chain of Custody

Plant/Source: D.B. Wilson Big River Test Location: R-5 SUR #3
R-2 duct #3 Inlet

Boiler ID: _____ Trap ID: OL 94443
Trap A B (Circle One)

Unspiked Spiked At: _____ QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

- COIL
- AGS 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start 7/20/11 Leak Check _____ Test End 7/20/11 Leak Check _____
(Date/Time :) 12:37 Pass/Fail Pass (Date/Time) 14:02 Pass/Fail Pass

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average _____

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____



Keep Dry

For Analysis contact us:

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Impregnated Activated Carbon - Refer to MSDS

Deactivated glass and glass wool



Sorbent Trap Chain of Custody

R-5
R-6 SUR # 3

Plant/Source: D.B. Wilson Big Rivers Test Location: 12-2 duct #3 Inlet

Boiler ID: _____ Trap ID: OL 94335
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) _____
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 185 mm 240 mm
 AGS 185 mm 300 mm
 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start 7/20/11 Leak Check Pass/Fail Pass Test End 7/20/11 Leak Check Pass/Fail Pass
(Date/Time) 12:37 (Date/Time) 14:02

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
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Chain of Custody

Relinquished by Tech.:	_____	Date:	_____
Received by:	_____	Date:	_____
Relinquished by:	_____	Date:	_____
Received for Laboratory by:	_____	Date:	_____

REVISED JUN 2011

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Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool



Sorbent Trap Chain of Custody

Plant/Source: D.B. Wilson Test Location: R-6 SCR #6
R-3 Unit #3 Fails

Boiler ID: _____ Trap ID: OL 94461
Trap A B (Circle One)

Unspiked Spiked At: _____ QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
 185 mm 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start 7/20/11 Leak Check _____ Test End 7/20/11 Leak Check _____
(Date/Time) 14:48 Pass/Fail Pass (Date/Time) 16:18 Pass/Fail Pass

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average _____

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry
For Analysis contact us:
Ohio Lumex Co., Inc. 9263 Ravenna Road Unit A-3, Twinsburg, OH 44087 USA
Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611
Impregnated Activated Carbon – Refer to MSDS
Deactivated glass and glass wool



Sorbent Trap Chain of Custody

R-6 SCR #6

Plant/Source: D.B. Wilson Big Rivers Test Location: R-6 Unit #7 Inlet

Boiler ID: _____ Trap ID: OL 94332
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start 7/20/11 Leak Check _____ Test End 7/20/11 Leak Check _____
(Date/Time :) 14:48 Pass/Fail Pass (Date/Time) 16:18 Pass/Fail Pass

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
---------------	--	--	--	--	--	--	--

Chain of Custody

Relinquished by Tech.: _____ Date: _____

Received by: _____ Date: _____

Relinquished by: _____ Date: _____

Received for Laboratory by: _____ Date: _____

Keep Dry
 For Analysis contact us:
 Ohio Lumex Co., Inc. 9263 Ravenna Road Unit A-3, Twinsburg, OH 44087 USA
 Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611

Impregnated Activated Carbon – Refer to MSDS
 Deactivated glass and glass wool





Sorbent Trap Chain of Custody

R-4 SCR#4

Plant/Source: D.B. Wilson Big Rivers Test Location: Foot Unit #4 Inlet

Boiler ID: _____ Trap ID: OL 94369
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Tracable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start 7/20/11 Leak Check _____ Test End 7/20/11 Leak Check _____
(Date/Time) 9:28 Pass/Fail Pass (Date/Time) 10:58 Pass/Fail Pass

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
---------------	--	--	--	--	--	--	--

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

For Analysis contact us:

Ohio Lumex Co., Inc. 9263 Ravenna Road Unit A-3, Twinsburg, OH 44087 USA
Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611

Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool

Best Before June 2013



Sorbent Trap Chain of Custody

R-5 SUR #4

Plant/Source: P.B. Wilson Big Rivers Test Location: 2nd Unit Inlet

Boiler ID: _____ Trap ID: OL 94500
Trap A B (Circle One)

Unspiked Spiked At: _____ QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start 7/20/11 Leak Check _____ Test End 7/20/11 Leak Check _____
(Date/Time) 12:37 Pass/Fail Pass (Date/Time) 14:02 Pass/Fail Pass

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average _____

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry

For Analysis contact us:

Ohio Lumex Co., Inc. 9263 Ravenna Road Unit A-3, Twinsburg, OH 44087 USA

Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611

Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool





Sorbent Trap Chain of Custody

~~R-4~~ R-5 SLR # 4

Plant/Source: D.B. Wilson Big Rivers Test Location: ~~12-2 Unit 4~~ Inlet

Boiler ID: _____ Trap ID: OL 94375
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS
- 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start 7/20/11 Leak Check Pass Test End 7/20/11 Leak Check Pass
(Date/Time) 12:37 Pass/Fail Pass (Date/Time) 14:02 Pass/Fail Pass

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average							
---------------	--	--	--	--	--	--	--

Chain of Custody

Relinquished by Tech.: _____	Date: _____
Received by: _____	Date: _____
Relinquished by: _____	Date: _____
Received for Laboratory by: _____	Date: _____

Keep Dry
For Analysis contact us:
Ohio Lumex Co., Inc. 9263 Ravenna Road Unit A-3, Twinsburg, OH 44087 USA
Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611

Impregnated Activated Carbon - Refer to MSDS
Deactivated glass and glass wool

Best Before June 2013



Sorbent Trap Chain of Custody

R-6 SCR #4

Plant/Source: D.B. Wilson Big Rivers Test Location: TC-3 Unit 2 Inlet

Boiler ID: _____ Trap ID: OL 94462
Trap A B (Circle One)

Unspiked Spiked At: _____
Certified Accuracy ± 10%, Tracable to NIST

QA/QC Signature (Trap Maker) [Signature]

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) _____

COIL 240 mm
 AGS 300 mm
 185 mm 450 mm

Sampled By: _____ Type of Trap: Speciation

Test Start 7/20/11 Leak Check _____ Test End 7/20/11 Leak Check _____
(Date/Time) 14:48 Pass/Fail Pass (Date/Time) 16:18 Pass/Fail Pass

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled

Total/Average _____

Chain of Custody

Relinquished by Tech.:	_____	Date:	_____
Received by:	_____	Date:	_____
Relinquished by:	_____	Date:	_____
Received for Laboratory by:	_____	Date:	_____

Keep Dry
 For Analysis contact us:
 Ohio Lumex Co., Inc. 9263 Ravenna Road Unit A-3, Twinsburg, OH 44087 USA
 Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611
 Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool





Sorbent Trap Chain of Custody

R-6 SCR #4

Plant/Source: D.B. Wilson Big Rivers Test Location: 12-3 dust #4 Inlet

Boiler ID: _____ Trap ID: OL 94276
Trap A B (Circle One)

Unspiked Spiked At: 175 ng QA/QC Signature (Trap Maker) [Signature]
Certified Accuracy ± 10%, Traceable to NIST

Estimated Hg in Section 1: _____ ng QA/QC Signature (Spiker) [Signature]

- COIL
- AGS 185 mm
- 240 mm
- 300 mm
- 450 mm

Sampled By: _____ Type of Trap: 30B

Test Start 7/20/11 Leak Check _____ Test End 7/20/11 Leak Check _____
(Date/Time) 14:48 Pass/Fail Pass (Date/Time) 16:18 Pass/Fail Pass

Date	Time	Duct Temp (°F or °C)	Sorbent Trap Temp (°F or °C)	Flow Rate (cc/min)	Dry Gas Meter Liters Initial	Dry Gas Meter Liters Final	Total Volume Pulled
Total/Average							

Chain of Custody

Relinquished by Tech.: _____ Date: _____

Received by: _____ Date: _____

Relinquished by: _____ Date: _____

Received for Laboratory by: _____ Date: _____

Keep Dry
 For Analysis contact us:
 Ohio Lumex Co., Inc. 9263 Ravenna Road Unit A-3, Twinsburg, OH 44087 USA
 Phone 330-405-0837 Fax 330-405-0847 US Toll Free: 888-876-2611
 Impregnated Activated Carbon - Refer to MSDS
 Deactivated glass and glass wool

Best Before: June 2013



G and C COAL ANALYSIS LAB., INC.

1341 HOFFMAN HOLLOW RD.
SUMMERSVILLE, PA 15864
(814) 849-2559
FAX (814) 849-8878

RECEIVED FROM:

AIRTECH ENVIROMENTAL
601A COUNTRY CLUB DRIVE

BENSONVILLE, IL

60106

893905

LAB NO.

07/07/11

SAMPLED

08/05/11

RECEIVED

08/26/11

REPORTED

SAMPLE MARKED:

PROJECT #3648
SAMPLE ID:0010
BIG RIVERS ELECTRIC
COAL SAMPLE
WILSON - RUN *X 4*
CHLORINE 168 MG/KG DRY (USGS BULLETIN 1823)
FLUORINE 65 MG/KG DRY (ASTM 3761-96)

M26+29

ANALYSIS REPORT

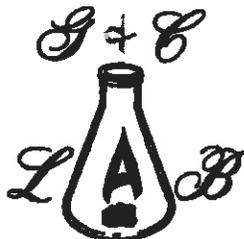
	AS RECEIVED	DRY BASIS
% Moisture.....	11.81	
% Ash	9.49	10.76
% Sulfur.....	2.84	3.22
B.T.U.....	11,337	12,855
BTU (Moisture-ash free).....		14,405
% Volatile Matter.....	33.47	37.95
% Fixed Carbon.....	45.23	51.29

2.51 Lbs. Sul./mil. BTU
8.37 Lbs. Ash./mil. BTU

THE ABOVE ANALYTICAL RESULTS WERE
OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY

[Signature]
G&C COAL ANALYSIS LAB., INC.



G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road

Summerville, Pa 15864

814-849-2559

Fax: 814-849-8878

Received From:

G&C Lab#: 893905

AIRTECH ENVIROMENTAL
601A COUNTRY CLUB DRIVE

Date Sampled: 07/07/11

Date Received: 08/05/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:
PROJECT #3648
BIG RIVERS ELECTRIC
COAL SAMPLE
WILSON - RUN 1

SAMPLE ID:0010

Procedure used following ASTM Method D-5373-02

ULTIMATE ANALYSIS

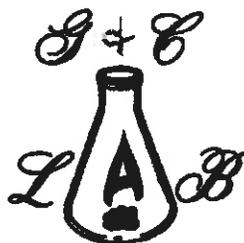
	As Received	Dry Basis
% CARBON	64.25	72.85
% HYDROGEN	4.38	4.97
% NITROGEN	1.38	1.56
% Oxygen	7.50	8.37
(by Difference)		
% Ash	9.49	10.76
% Sulfur	2.84	3.22
% Total Moisture	11.81	

**Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____



G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road
Summerville, Pa 15864
814-849-2559
Fax: 814-849-8878

Received From:

G&C Lab#: 893905

AIRTECH ENVIROMENTAL
601A COUNTRY CLUB DRIVE

Date Sampled: 07/07/11

Date Received: 08/05/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

SAMPLE ID:0010

PROJECT #3648

BIG RIVERS ELECTRIC

COAL SAMPLE

WILSON - RUN 1

CHLORINE 168 MG/KG DRY (USGS BULLETIN 1823)

FLUORINE 65 MG/KG DRY (ASTM 3761-96)

% Total Moisture 11.81

% Ash Dry 10.76

% Ash As Received 9.49

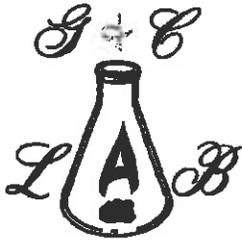
	OF ASH MG/KG	COAL (DRY) MG/KG	COAL (AS REC) MG/KG
Antimony	0.26	0.03	0.02
Arsenic	22.04	2.37	2.09
Beryllium	1.28	0.14	0.12
Cadmium	0.23	0.02	0.02
Chromium	16.84	1.81	1.60
Cobalt	10.06	1.08	0.95
Lead	31.20	3.36	2.96
Manganese	26.95	2.90	2.56
Nickel	32.05	3.45	3.04

Procedure followed using EPA-SW-846, ASTM Method 3030b, 6010b.

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____



G and C COAL ANALYSIS LAB., INC.

1341 HOFFMAN HOLLOW RD.
 SUMMERVILLE, PA 15864
 (814) 849-2559
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RECEIVED FROM:

AIRTECH ENVIROMENTAL
 601A COUNTRY CLUB DRIVE

BENSONVILLE, IL

60106

893894

LAB NO. 07/20/11
 SAMPLED 08/05/11
 RECEIVED 08/26/11
 REPORTED

SAMPLE MARKED:

PROJECT #:3648
 SAMPLE ID:0011
 BIG RIVERS ELECTRIC
 COAL SAMPLE
 WILSON -RUN 25
 FLUORINE 62 MG/KG DRY (ASTM 3761-96)

ANALYSIS REPORT

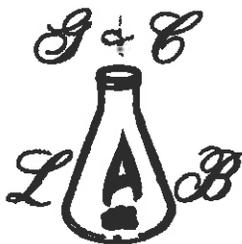
	AS RECEIVED	DRY BASIS
% Moisture.....	11.47	
% Ash	9.69	10.94
% Sulfur.....	3.07	3.47
B.T.U.....	11,309	12,774
BTU (Moisture-ash free).....		14,343
% Volatile Matter.....	36.83	41.60
% Fixed Carbon.....	42.01	47.46

2.71 Lbs. Sul./mil. BTU
 8.57 Lbs. Ash./mil. BTU

G&C COAL ANALYSIS LAB., INC.

THE ABOVE ANALYTICAL RESULTS WERE
 OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY


G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road

Summerville, Pa 15864

814-849-2559

Fax: 814-849-8878

Received From:

G&C Lab#: 893894

 AIRTECH ENVIROMENTAL
 601A COUNTRY CLUB DRIVE

Date Sampled: 07/20/11

Date Received: 08/05/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

PROJECT #:3648

SAMPLE ID:0011

BIG RIVERS ELECTRIC

COAL SAMPLE

WILSON -RUN 2

FLUORINE 62 MG/KG DRY (ASTM 3761-96)

% Total Moisture 11.47

% Ash Dry 10.94

% Ash As Received 9.69

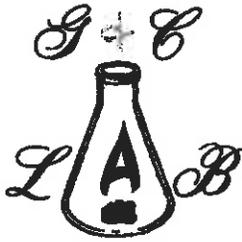
	OF ASH MG/KG	COAL (DRY) MG/KG	COAL (AS REC) MG/KG
Antimony	0.39	0.04	0.04
Arsenic	22.76	2.49	2.21
Beryllium	2.33	0.25	0.23
Cadmium	0.36	0.04	0.03
Chromium	30.18	3.30	2.92
Cobalt	14.21	1.55	1.38
Lead	78.64	8.60	7.62
Manganese	37.28	4.08	3.61
Nickel	42.66	4.67	4.13

Procedure followed using EPA-SW-846, ASTM Method 3030b,6010b.

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____



G and C COAL ANALYSIS LAB., INC.

1341 HOFFMAN HOLLOW RD.
 SUMMERSVILLE, PA 15864
 (814) 849-2559
 FAX (814) 849-8878

893907

RECEIVED FROM:

AIRTECH ENVIROMENTAL
 601A COUNTRY CLUB DRIVE

LAB NO. 07/20/11

SAMPLED 08/05/11

RECEIVED

REPORTED 08/26/11

BENSONVILLE, IL

60106

SAMPLE MARKED:

PROJECT #3648
 SAMPLE ID:0012
 BIG RIVERS ELECTRIC
 COAL SAMPLE
 WILSON - RUN *76*
 CHLORINE 140 MG/KG DRY (USGS BULLETIN 1823)
 FLUORINE 55 MG/KG DRY (ASTM 3761-96)

ANALYSIS REPORT

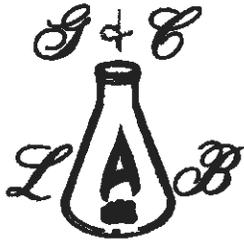
	AS RECEIVED	DRY BASIS
% Moisture.....	12.20	
% Ash	8.87	10.10
% Sulfur.....	3.06	3.49
B.T.U.....	11,418	13,004
BTU (Moisture-ash free).....		14,465
% Volatile Matter.....	33.68	38.36
% Fixed Carbon.....	45.25	51.54

2.68 Lbs. Sul./mil. BTU
 7.77 Lbs. Ash./mil. BTU

THE ABOVE ANALYTICAL RESULTS WERE
 OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY

G&C COAL ANALYSIS LAB., INC.



G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road
Summerville, Pa 15864
814-849-2559
Fax: 814-849-8878

Received From:

G&C Lab#: 893907

AIRTECH ENVIROMENTAL
601A COUNTRY CLUB DRIVE

Date Sampled: 07/20/11

Date Received: 08/05/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:
PROJECT #3648
BIG RIVERS ELECTRIC
COAL SAMPLE
WILSON - RUN 3

SAMPLE ID:0012

Procedure used following ASTM Method D-5373-02

ULTIMATE ANALYSIS

As Received Dry Basis

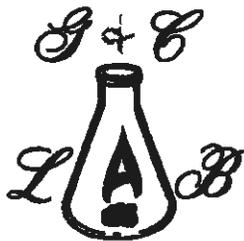
	As Received	Dry Basis
% CARBON	64.39	73.34
% HYDROGEN	4.42	5.03
% NITROGEN	1.32	1.50
% Oxygen	7.39	8.27
(by Difference)		
% Ash	8.87	10.10
% Sulfur	3.06	3.49
% Total Moisture	12.20	

**Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY



G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road
Summerville, Pa 15864
814-849-2559
Fax: 814-849-8878

Received From:

G&C Lab#: 893907

AIRTECH ENVIROMENTAL
601A COUNTRY CLUB DRIVE

Date Sampled: 07/20/11

Date Received: 08/05/11

BENSONVILLE, IL

60106

Date Reported: 08/26/11

Sample Marked:

PROJECT #3648

SAMPLE ID:0012

BIG RIVERS ELECTRIC

COAL SAMPLE

WILSON - RUN 3

CHLORINE 140 MG/KG DRY (USGS BULLETIN 1823)

FLUORINE 55 MG/KG DRY (ASTM 3761-96)

% Total Moisture 12.20

% Ash Dry 10.10

% Ash As Received 8.87

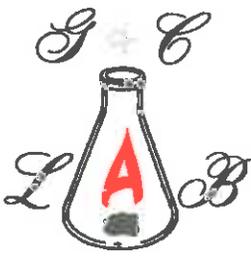
	OF ASH MG/KG	COAL (DRY) MG/KG	COAL (AS REC) MG/KG
Antimony	0.91	0.09	0.08
Arsenic	7.76	0.78	0.69
Beryllium	2.72	0.27	0.24
Cadmium	0.21	0.02	0.02
Chromium	16.77	1.69	1.49
Cobalt	9.99	1.01	0.89
Lead	31.35	3.17	2.78
Manganese	21.72	2.19	1.93
Nickel	30.92	3.12	2.74

Procedure followed using EPA-SW-846, ASTM Method 3030b, 6010b.

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____



G and C COAL ANALYSIS LAB., INC.

30B
5/8 200

1341 HOFFMAN HOLLOW RD.
SUMMERSVILLE, PA 15864
(814) 849-2559
FAX (814) 849-8878

RECEIVED FROM:

Airtech Enviromental
601A Country Club Drive

Bensonville, IL

60106

893908

LAB NO.

SAMPLED 07/19/11

RECEIVED 08/05/11

REPORTED 08/12/11

SAMPLE MARKED:

PROJECT #3648
SAMPLE ID:0007
BIG RIVERS ELECTRIC
COAL SAMPLE
WILSON- RUN *xy*

MERCURY 0.098 MG/KG DRY OR PPM DRY (ASTM 6722)

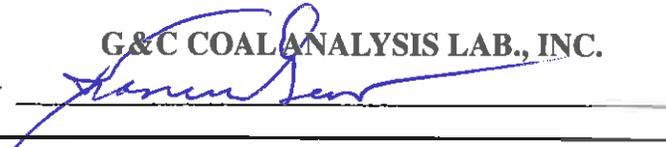
ANALYSIS REPORT

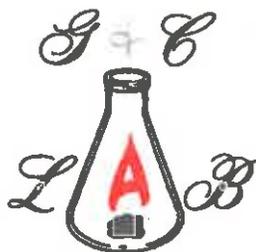
	AS RECEIVED	DRY BASIS
% Moisture.....	10.40	
% Ash	7.72	8.62
% Sulfur.....	3.71	4.14
B.T.U.....	11,858	13,234
BTU (Moisture-ash free).....		14,482
% Volatile Matter.....	28.26	31.54
% Fixed Carbon.....	53.62	59.84

3.13 Lbs. Sul./mil. BTU
6.51 Lbs. Ash./mil. BTU

G&C COAL ANALYSIS LAB., INC.

THE ABOVE ANALYTICAL RESULTS WERE
OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY 



G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road

Summerville, Pa 15864

814-849-2559

Fax: 814-849-8878

Received From:

G&C Lab#: 893908

Airtech Enviromental
601A Country Club Drive

Date Sampled: 07/19/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:
PROJECT #3648
BIG RIVERS ELECTRIC
COAL SAMPLE
WILSON- RUN 1

SAMPLE ID:0007

Procedure used following ASTM Method D-5373-02

ULTIMATE ANALYSIS

As Received Dry Basis

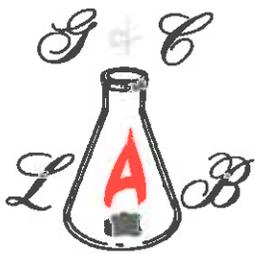
% CARBON	67.11	74.90
% HYDROGEN	4.18	4.66
% NITROGEN	1.37	1.53
% Oxygen	7.16	7.88
(by Difference)		
% Ash	7.72	8.62
% Sulfur	3.71	4.14
% Total Moisture	10.40	

**Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____



G and C COAL ANALYSIS LAB., INC.

1341 HOFFMAN HOLLOW RD.
SUMMERSVILLE, PA 15864
(814) 849-2559
FAX (814) 849-8878

RECEIVED FROM:

Airtech Enviromental
601A Country Club Drive

Bensonville, IL

60106

893895

LAB NO.

SAMPLED 07/19/11

RECEIVED 08/05/11

REPORTED 08/12/11

SAMPLE MARKED:

PROJECT #3648
SAMPLE ID:0008
BIG RIVERS ELECTRIC
COAL SAMPLE
WILSON - RUN 75

MERCURY 0.098 MG/KG DRY OR PPM DRY (ASTM 6722)

ANALYSIS REPORT

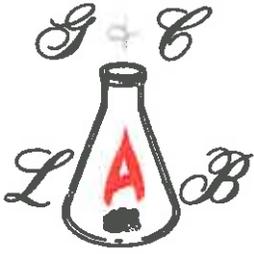
	AS RECEIVED	DRY BASIS
% Moisture.....	11.37	
% Ash	8.48	9.57
% Sulfur.....	3.24	3.66
B.T.U.....	11,582	13,068
BTU (Moisture-ash free).....		14,451
% Volatile Matter.....	31.73	35.80
% Fixed Carbon.....	48.42	54.63

2.80 Lbs. Sul./mil. BTU
7.32 Lbs. Ash./mil. BTU

THE ABOVE ANALYTICAL RESULTS WERE
OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY

G&C COAL ANALYSIS LAB., INC.



G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road

Summerville, Pa 15864

814-849-2559

Fax: 814-849-8878

Received From:

G&C Lab#: 893895

Airtech Enviromental
601A Country Club Drive

Date Sampled: 07/19/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:
PROJECT #3648
BIG RIVERS ELECTRIC
COAL SAMPLE
WILSON - RUN 2

SAMPLE ID:0008

Procedure used following ASTM Method D-5373-02

	ULTIMATE ANALYSIS	
	As Received	Dry Basis
	-----	-----
% CARBON	65.37	73.76
% HYDROGEN	4.36	4.92
% NITROGEN	1.39	1.57
% Oxygen	7.44	8.25
(by Difference)		
% Ash	8.48	9.57
% Sulfur	3.24	3.66
% Total Moisture	11.37	

**Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY



G and C COAL ANALYSIS LAB., INC.

1341 HOFFMAN HOLLOW RD.
SUMMERSVILLE, PA 15864
(814) 849-2559
FAX (814) 849-8878

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Airtech Enviromental
601A Country Club Drive

Bensonville, IL

60106

893901

LAB NO.

SAMPLED 07/19/11

RECEIVED 08/05/11

REPORTED 08/12/11

SAMPLE MARKED:

PROJECT #3648
SAMPLE ID:0009
BIG RIVERS ELECTRIC
COAL SAMPLE
WILSON - RUN *76*

MERCURY 0.076 MG/KG DRY OR PPM DRY (ASTM 6722)

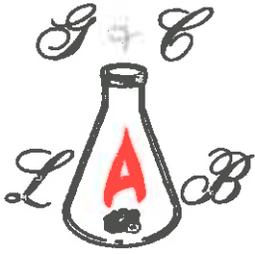
ANALYSIS REPORT

	AS RECEIVED	DRY BASIS
% Moisture.....	11.32	
% Ash	8.24	9.29
% Sulfur.....	3.38	3.81
B.T.U.....	11,612	13,094
BTU (Moisture-ash free).....		14,435
% Volatile Matter.....	32.41	36.55
% Fixed Carbon.....	48.03	54.16
2.91 Lbs. Sul./mil. BTU		
7.10 Lbs. Ash./mil. BTU		

THE ABOVE ANALYTICAL RESULTS WERE
OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY

G&C COAL ANALYSIS LAB., INC.



G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road

Summerville, Pa 15864

814-849-2559

Fax: 814-849-8878

Received From:

G&C Lab#: 893901

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601A Country Club Drive

Date Sampled: 07/19/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:
PROJECT #3648
BIG RIVERS ELECTRIC
COAL SAMPLE
WILSON - RUN 3

SAMPLE ID:0009

Procedure used following ASTM Method D-5373-02

ULTIMATE ANALYSIS

As Received Dry Basis

	As Received	Dry Basis
% CARBON	65.56	73.93
% HYDROGEN	4.11	4.63
% NITROGEN	1.34	1.51
% Oxygen	7.70	8.56
(by Difference)		
% Ash	8.24	9.29
% Sulfur	3.38	3.81
% Total Moisture	11.32	

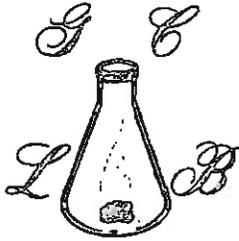
**Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____

SCR
30B



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601A Country Club Drive

Bensonville, IL

60106

893898

LAB NO.

SAMPLED 07/25/11

RECEIVED 08/05/11

REPORTED 08/12/11

SAMPLE MARKED:

PROJECT #3648
SAMPLE ID:0013
BIG RIVERS ELECTRIC
PETCOKE BLEND SAMPLE
WILSON - RUN *X 4*

MERCURY 0.063 MG/KG DRY OR PPM DRY (ASTM 6722)

ANALYSIS REPORT

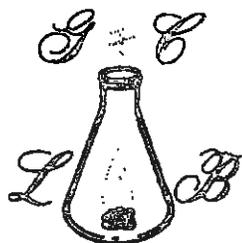
	AS RECEIVED	DRY BASIS
% Moisture.....	9.91	
% Ash	7.93	8.80
% Sulfur.....	3.30	3.66
B.T.U.....	11,956	13,271
BTU (Moisture-ash free).....		14,552
% Volatile Matter.....	29.86	33.15
% Fixed Carbon.....	52.30	58.05

2.76 Lbs. Sul./mil. BTU
6.63 Lbs. Ash./mil. BTU

G&C COAL ANALYSIS LAB., INC.

THE ABOVE ANALYTICAL RESULTS WERE
OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY *[Signature]*


G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road

Summerville, Pa 15864

814-849-2559

Fax: 814-849-8878

Received From:

G&C Lab#: 893898

Airtech Enviromental
601A Country Club Drive

Date Sampled: 07/25/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:
PROJECT #3648
BIG RIVERS ELECTRIC
PETCOKE BLEND SAMPLE
WILSON - RUN 1

SAMPLE ID:0013

Procedure used following ASTM Method D-5373-02

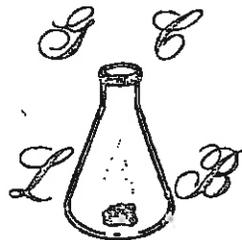
	ULTIMATE ANALYSIS	
	As Received	Dry Basis
	-----	-----
% CARBON	67.65	75.09
% HYDROGEN	4.24	4.71
% NITROGEN	1.40	1.55
% Oxygen	7.22	7.92
(by Difference)		
% Ash	7.93	8.80
% Sulfur	3.30	3.66
% Total Moisture	9.91	

**Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____



G and C COAL ANALYSIS LAB., INC.

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SUMMERVILLE, PA 15864
(814) 849-2559
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Bensonville, IL

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LAB NO. 893904
SAMPLED 07/25/11
RECEIVED 08/05/11
REPORTED 08/12/11

SAMPLE MARKED:

PROJECT #3648
SAMPLE ID:0014
BIG RIVERS ELECTRIC
PETCOKE BLEND SAMPLE
WILLSON - RUN 25

MERCURY 0.089 MG/KG DRY OR PPM DRY (ASTM 6722)

ANALYSIS REPORT

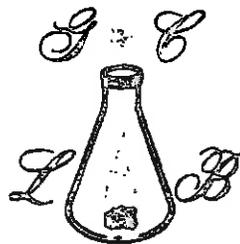
	AS RECEIVED	DRY BASIS
% Moisture.....	10.47	
% Ash	8.04	8.98
% Sulfur.....	3.56	3.98
B.T.U.....	11,815	13,197
BTU (Moisture-ash free).....		14,499
% Volatile Matter.....	27.33	30.53
% Fixed Carbon.....	54.16	60.49

3.01 Lbs. Sul./mil. BTU
6.80 Lbs. Ash./mil. BTU

G&C COAL ANALYSIS LAB., INC.

THE ABOVE ANALYTICAL RESULTS WERE
OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY *[Signature]*



G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road

Summerville, Pa 15864

814-849-2559

Fax: 814-849-8878

Received From:

G&C Lab#: 893904

Airtech Enviromental
601A Country Club Drive

Date Sampled: 07/25/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:

PROJECT #3648

SAMPLE ID:0014

BIG RIVERS ELECTRIC

PETCOKE BLEND SAMPLE

WIILSON - RUN 2

Procedure used following ASTM Method D-5373-02

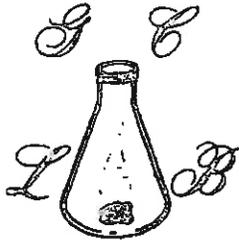
	ULTIMATE ANALYSIS	
	As Received	Dry Basis
% CARBON	66.95	74.78
% HYDROGEN	4.13	4.61
% NITROGEN	1.36	1.52
% Oxygen	7.14	7.86
(by Difference)		
% Ash	8.04	8.98
% Sulfur	3.56	3.98
% Total Moisture	10.47	

**Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____



G and C COAL ANALYSIS LAB., INC.

1341 HOFFMAN HOLLOW RD.
 SUMMERTVILLE, PA 15864
 (814) 849-2559
 FAX (814) 849-8878

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Bensonville, IL

60106

893906

LAB NO.

SAMPLED 07/25/11

RECEIVED 08/05/11

REPORTED 08/12/11

SAMPLE MARKED:

PROJECT #3648
 SAMPLE ID:0015
 BIG RIVERS ELECTRIC
 PETCOKEBLEND SAMPLE
 WILSON - RUN *36*

MERCURY 0.112 MG/KG DRY OR PPM DRY (ASTM 6722)

ANALYSIS REPORT

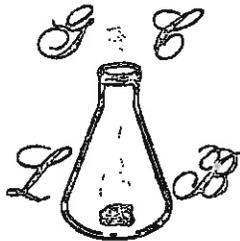
	AS RECEIVED	DRY BASIS
% Moisture.....	11.26	
% Ash	8.92	10.05
% Sulfur.....	3.44	3.88
B.T.U.....	11,582	13,052
BTU (Moisture-ash free).....		14,510
% Volatile Matter.....	30.06	33.87
% Fixed Carbon.....	49.76	56.08

2.97 Lbs. Sul./mil. BTU
 7.70 Lbs. Ash./mil. BTU

G&C COAL ANALYSIS LAB., INC.

THE ABOVE ANALYTICAL RESULTS WERE
 OBTAINED FOLLOWING ASTM PROCEDURES.

APPROVED BY *[Signature]*



G and C Coal Analysis Lab., Inc.

1341 Hoffman Hollow Road

Summerville, Pa 15864

814-849-2559

Fax: 814-849-8878

Received From:

G&C Lab#: 893906

Airtech Enviromental
601A Country Club Drive

Date Sampled: 07/25/11

Date Received: 08/05/11

Bensonville, IL

60106

Date Reported: 08/12/11

Sample Marked:
PROJECT #3648
BIG RIVERS ELECTRIC
PETCOKEBLEND SAMPLE
WILSON - RUN 3

SAMPLE ID:0015

Procedure used following ASTM Method D-5373-02

ULTIMATE ANALYSIS

	As Received	Dry Basis
% CARBON	65.31	73.60
% HYDROGEN	4.13	4.65
% NITROGEN	1.34	1.51
% Oxygen	7.25	8.04
(by Difference)		
% Ash	8.92	10.05
% Sulfur	3.44	3.88
% Total Moisture	11.26	

**Hydrogen and Oxygen do not include the Hydrogen and Oxygen from the Moisture

The above analytical results were obtained following ASTM procedures.

G & C COAL ANALYSIS LAB., INC.

APPROVED BY _____

BIG RIVERS ELECTRIC CORP. CHAIN OF CUSTODY RECORD

No. _____

Sampling Location: Wilson - pool only

Plant ID. Sample Number	Date Time	Central Lab ID. Sample Number	Station Description	Sampling Method	Sample Size	Type of Preservation	Analysis Requested
007	7-19-11 0830		HAHS Testing A30B 4/202 Cum one				
008	7-19-11 1130		M30B MS/202 Cum two				
009	7-19-11 1500		M30B MS/202 Cum three				
010	7-20-11 1035		VIN one		M30 + M39		
011	7-20-11 1445		VIN two				
012	7-20-11 1650		VIN three				
Samplers (Signatures)							
Relinquished By (Signature)		Date		Time		Received By (Signature)	
<i>[Signature]</i>		7-28-11		0900			
Relinquished By (Signature)		Date		Time		Received By (Signature)	
Relinquished By (Signature)		Date		Time		Received By (Signature)	
Relinquished By (Signature)		Date		Time		Received By (Signature)	

White Copy - Central Lab
 Yellow Copy - Plant (Final Copy)
 Pink Copy - Plant Env. Contact
 Gold Copy - Plant Lab

BIG RIVERS ELECTRIC CORP. CHAIN OF CUSTODY RECORD

No. _____

Sampling Location: Wilson

Plant ID. Sample Number	Date Time	Central Lab ID. Sample Number	Station Description	Sampling Method	Sample Size	Type of Preservation	Analysis Requested	
013	7-25-11 0930		HARS - Demonstration Inlet 30B run one					
014	7-25-11 1130		Inlet 30B run two					
015	7-25-11 1330		Inlet 30B run three					
016	7-27-11		HARS - blend Inlet 30B run one					
017	7-27-11		" run two					
018	7-27-11		" run three					
Samplers (Signatures)								
Relinquished By (Signature)			Date	Time	Received By (Signature)		Date	Time
			7-28-11	0900				
Relinquished By (Signature)			Date	Time	Received By (Signature)		Date	Time
Relinquished By (Signature)			Date	Time	Received By (Signature)		Date	Time
Relinquished By (Signature)			Date	Time	Received By (Signature)		Date	Time

White Copy - Central Lab
 Yellow Copy - Plant (Final Copy)
 Pink Copy - Plant Env. Contact
 Gold Copy - Plant Lab

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody



Project Number	3648	Location	Stack	Page	1	of	1	
Client	Big Rivers	Date	7/22/2011	Analysis Requested				Notes
Plant	Wilson Station	Completed By	Michael Hess	Number of Containers				
ID No.	Run No.	Date	Sample Description	Metallic HAPs				
29-R4-FIL	4	7/22/2011	Quartz Filter	X	1			
29-R5-FIL	5	7/22/2011	Quartz Filter	X	1			
29-R6-FIL	6	7/22/2011	Quartz Filter	X	1			
29-R4-HNO	4	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	2			
29-R5-HNO	5	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	2			
29-R6-HNO	6	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	2			
29-R4-5%/10%	4	7/22/2011	Imp Catch and Rinses	X	1			
29-R5-5%/10%	5	7/22/2011	Imp Catch and Rinses	X	1			
29-R6-5%/10%	6	7/22/2011	Imp Catch and Rinses	X	1			
Relinquished By (signature)	<i>Michael Hess</i>	Relinquished By (signature)	<i>David Bell</i>	Carrier				
(printed)	Michael Hess	(printed)	DAVID DEVPRIES	Laboratory				
Date/Time	7/22/2011 0:00	Date/Time	7-26-11 3:24	Contact				
Accepted By (signature)	<i>David Bell Jr.</i>	Accepted By (signature)	<i>Polares Bradshaw</i>	Address				
(printed)	DAVID DEVPRIES	(printed)	Polares Bradshaw	Phone				
Date/Time		Date/Time	7/26/11 1524	Fax				



Airtech Environmental Services Inc.
601A Country Club Drive
Bensenville, IL 60106
Phone: (630) 860-4740, Fax: (630) 860 4745

AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

COPY

Project Number		3648		Location		ESP 4	
Client		Big Rivers		Date		7/22/2011	
Plant		Wilson Station		Completed By		Michael Hess	
ID No.	Run No.	Date	Sample Description	Metallic HAPs	Analysis Requested	Page	1 of 1
29-R4-FIL	4	7/22/2011	Teflon Filter	X		1	1
29-R5-FIL	5	7/22/2011	Teflon Filter	X		1	1
29-R6-FIL	6	7/22/2011	Teflon Filter	X		1	1
29-R4-HNO	4	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X		1	1
29-R5-HNO	5	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X		1	1
29-R6-HNO	6	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X		1	1
29-R4-5%/10%	4	7/22/2011	Imp Catch and Rinses	X		1	1
29-R5-5%/10%	5	7/22/2011	Imp Catch and Rinses	X		1	1
29-R6-5%/10%	6	7/22/2011	Imp Catch and Rinses	X		1	1
Relinquished By (signature)		<i>Michael Hess</i>		Relinquished By (signature)		<i>David DeVries</i>	
(printed)		Michael Hess		(printed)		DAVID DEVRIES	
Date/Time		7/22/2011 0:00		Date/Time		7-26-11 3:24	
Accepted By (signature)		<i>David DeVries</i>		Accepted By (signature)		<i>Palores Brashers</i>	
(printed)		DAVID DEVRIES		(printed)		Palores Brashers	
Date/Time		7-25-11		Date/Time		7/26/11 15:24	
Carrier				Carrier			
Laboratory				Laboratory			
Contact				Contact			
Address				Address			
Phone				Phone			
Fax				Fax			
Date/Time				Date/Time			



AIRTECH
Environmental
Services Inc

Airtech Environmental Services Inc.
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Bensenville, IL 60106
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AIRTECH ENVIRONMENTAL SERVICES INC.
Chain of Custody

COPY

Project Number		3648		Location		ESP 3		Page		1 of 1	
Client		Big Rivers		Date		7/22/2011		Analysis Requested			
Plant		Wilson Station		Completed By		Michael Hess		Number of Containers			
ID No.	Run No.	Date	Sample Description	Metallic HAPs	Number of Containers	Notes					
29-R4-FIL	4	7/22/2011	Teflon Filter	X	1						
29-R5-FIL	5	7/22/2011	Teflon Filter	X	1						
29-R6-FIL	6	7/22/2011	Teflon Filter	X	1						
29-R4-HNO	4	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	1						
29-R5-HNO	5	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	1						
29-R6-HNO	6	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X	1						
29-R4-5%/10%	4	7/22/2011	Imp Catch and Rinses	X	1						
29-R5-5%/10%	5	7/22/2011	Imp Catch and Rinses	X	1						
29-R6-5%/10%	6	7/22/2011	Imp Catch and Rinses	X	1						
Relinquished By (signature)		<i>Michael Hess</i>		Relinquished By (signature)		<i>David DeVries</i>					
(printed)		Michael Hess		(printed)		DAVID DEVRIES					
Date/Time		7/22/2011 0:00		Date/Time		7-26-11 3:29					
Accepted By (signature)		<i>David DeVries</i>		Accepted By (signature)		<i>David DeVries</i>					
(printed)		DAVID DEVRIES		(printed)		David DeVries					
Date/Time		7-25-11		Date/Time		7/26/11 1524					
Carrier Laboratory Contact Address				Carrier Laboratory Contact Address							
Phone Fax				Phone Fax							
Date/Time				Date/Time							



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Bensenville, IL 60108
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Chain of Custody

COPY

Project Number		3648		Location		ESP 2		Page		1 of 1	
Client		Big Rivers		Date		7/22/2011		Analysis Requested			
Plant		Wilson Station		Completed By		Michael Hess		Number of Containers			
ID No.	Run No.	Date	Sample Description	Metallic HAPs	Carrier	Laboratory	Contact	Address	Phone	Fax	Date/Time
29-R4-FIL	4	7/22/2011	Teflon Filter	X							
29-R5-FIL	5	7/22/2011	Teflon Filter	X							
29-R6-FIL	6	7/22/2011	Teflon Filter	X							
29-R4-HNO	4	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X							
29-R5-HNO	5	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X							
29-R6-HNO	6	7/22/2011	Front Half 0.1 N HNO ₃ Rinse	X							
29-R4-5%/10%	4	7/22/2011	Imp Catch and Rinses	X							
29-R5-5%/10%	5	7/22/2011	Imp Catch and Rinses	X							
29-R6-5%/10%	6	7/22/2011	Imp Catch and Rinses	X							
Relinquished By (signature)		<i>Michael Hess</i>		Relinquished By (signature)		<i>David Devries</i>		Carrier			
(printed)		Michael Hess		(printed)		DAVID DEVRIES		Laboratory			
Date/Time		7/22/2011 0:00		Date/Time		7-26-11 3:24		Contact			
(signature)		<i>David Devries</i>		(signature)		<i>David Bradshaw</i>		Address			
(printed)		DAVID DEVRIES		(printed)		David Bradshaw		Phone			
Date/Time		7-25-11		Date/Time		7/26/11 1524		Fax			



