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Level IV Data Package

MWH Group 207230

Method: 200.7

Sample No.:

2706120332

2706120335

EPA 200.7/6010B QC Check List

Analyst WRN Analysis Date 6/13/07 Reviewer/Date 26 Jun 07

Instrument PerKin Elmer Optima 4300DV

☒ All sample analyzed within 6 month holding time

☒ All sample raw concentration below the high standard or linear
anged samples marked for dilution and rerun

Initial and closing QC

☒ ICV within +/- 5%
☒ Linearity check +/- 10%
☒ ICSAB +/- 20%
☒ 1 PPM check +/- 10%
☒ MRL +/- 50%

Middle, closing and batch QC

☒ FilterCheck < 1/2 MRL
☒ MBLANK < 1/2 MRL
☒ LCS +/- 15%
☒ MS/MSD +/- 30% (200.7) +/- 25% (6010B)
☒ CCV/MCV/ECV +/- 10%
☒ ICB/CCB/ECB < 1/2 MRL
☒ CCB ran after the CCV

General QC

☒ RPD between MS/MSD is within +/- 20%
☒ RPD between LCS/LCSD is within +/- 20%
☒ Internal standards +/- 20%
☒ All pH of the samples are < 2

☒ No more than 20 samples per batch

☒ MS is run at frequency of 1 every 10 samples and MSD is
run at frequency of 1 every 20 samples

☒ QIR needed for failed QC

☒ Special Det Code noted on the cover sheet *see from page*

☒ R value for multi point calibration is > 0.995

☒ Proper MRL check ran for special low MRL samples *Fe-As*

Reagent and Standards used for
Optima 4300 DV
Updated 05/17/07

Int: WRB

Date: 6/13/07

Method 200.7/6010

ICP SUMMARY SHEET

File ID: 070613
Date Started: 6/13/07
Analyst ID: WBH

SAMPLE ID

Wash	(9:03)	FILTERCHECK	(9:54)	2706120525	(10:13)
2706120526	(10:25)	2706120466	(10:28)	2706120450	(10:39)
2706120459	(10:44)	2706120523	(10:48)	2706120524	(10:52)
2706120459	(10:56)	2706120466	(11:00)	2706120450	(11:05)
2706120634	(11:09)	2706120621	(11:34)	2706120623	(11:39)
2706120629	(11:43)	2706120631	(11:47)	2706120610	(11:52)
2706120633	(11:56)	2706120615	(12:01)	2706120635	(12:05)
2706120636	(12:09)	D706120634	(12:31)	D706120621	(12:43)
D706120623	(12:48)	D706120629	(12:52)	D706120631	(12:57)
D706120610	(13:01)	D706120633	(13:21)	D706120615	(13:25)
D706120635	(13:30)	D706120636	(13:34)	D706120630_5	(13:46)
D706120632_5	(13:50)	D706110334	(13:53)	DN706110337_	(13:57)
DM706110337_	(14:11)	D706120336	(14:15)	2706120336_	(14:19)
2706120329_	(14:23)	2706120317	(14:27)	2706120335_2	(14:32)
WASH	(14:39)	2706120001	(15:09)	2706120005	(15:21)
Wash	(15:33)				

COMMENT:

Fe-DISS, Fe-LOW
Ca-DISS, K-DISS, Mg-DISS, Na-DISS
* Due to spiking error. Ls/LSD, MSD/SD for
Bt1 & Bt2 were rerun at the end.
For Ca, K, Mg, Na sequence from SOP not followed due to spiking error, 6/13/07
but no specific method requirement violated 6.26.07

Analyst: WBH

Approved By: in

BATCH NUMBER for 070613

Sam Joly
6/13/02

Test Parameter:

SCA YR AG AL AS B_ BA BE CA CD CO CR CU FE K MG MN MO NA NI

Batch ID: 2706120525

2706120525	2706120526	2706120466
2706120450	2706120459	2706120523
2706120524	2706120459	2706120466
2706120450	2706120634	2706120621
2706120623	2706120629	2706120631
2706120610	2706120633	2706120615
2706120635	2706120636	

Batch ID: D706120634

2706120336	2706120329	2706120317
2706120335_2X		

Batch ID: 2706120001

2706120001	2706120005
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Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
ICV	6/13/07	8:49	1	10.103	10.1 ✓	95-105	101%
Linearity Check	6/13/07	8:52	1	0.0019	.0019		
ICSA	6/13/07	8:56	1	-0.0005	ND	80-120	
ICSAB	6/13/07	8:59	1	.24797	.248	80-120	99.1%
Wash	6/13/07	9:03	1	0.0002	0.0002		
QC-25 1ppm	6/13/07	9:09	1	1.0284	1.0		
CCV	6/13/07	9:14	1	5.0160	5.02	90-110	100%
ICB	6/13/07	9:20	1	0.0002	0.0002		
MRL	6/13/07	9:51	1	0.0108	.0108	50-150	108%
FILTERCHECK	6/13/07	9:54	1	0.0001	0.0000		
MRL/2	6/13/07	9:58	1	0.0056	.0056		
MBLANK	6/13/07	10:02	1	0.0002	0.0002		
LCS	6/13/07	10:06	1	1.0664	1.07	85-115	106%
LCSD	6/13/07	10:09	1	1.0751	1.08	85-115	107%
2706120525	6/13/07	10:13	1	0.0001	0.0001		
2706120525MS	6/13/07	10:17	1	1.0133	1.01	[1.013]	101%
2706120525MSD	6/13/07	10:21	1	1.0487	1.05	[1.049]	104%
2706120525T	6/13/07	10:21	1		1.00	70 - 130	
2706120526	6/13/07	10:25	1	0.0057	.0057		
2706120466	6/13/07	10:28	1	0.0033	.0033		
CCV	6/13/07	10:33	1	5.0272	5.03	90-110	100%
CCB	6/13/07	10:36	1	0.0003	0.0003		
2706120450	6/13/07	10:39	1	0.0038	.0038		
2706120459	6/13/07	10:44	1	0.0035	.0035		
2706120523	6/13/07	10:48	1	0.0027	.0027		
2706120524	6/13/07	10:52	1	0.0001	0.0001		
2706120459	6/13/07	10:56	1	0.0034	.0034		
2706120466	6/13/07	11:00	1	0.0036	.0036		
2706120450	6/13/07	11:05	1	0.0033	.0033		
2706120634	6/13/07	11:09	1	-0.0001	ND		
2706120634MS	6/13/07	11:13	1	1.0350	1.04	[1.035]	103%
2706120634MSD	6/13/07	11:17	1	1.0531	1.05	[1.053]	105%
2706120634T	6/13/07	11:17	1		1.00	70 - 130	
CCV	6/13/07	11:21	1	5.1224	5.12	90-110	102%
CCB	6/13/07	11:24	1	0.0005	0.0005		
MCV	6/13/07	11:31	1	2.5894	2.59	90-110	103%
2706120621	6/13/07	11:34	1	0.0006	0.0005		
2706120623	6/13/07	11:39	1	0.0029	.0029		
2706120629	6/13/07	11:43	1	-0.0002	ND		
2706120631	6/13/07	11:47	1	-0.0000	ND		
2706120610	6/13/07	11:52	1	0.0000	0		
2706120633	6/13/07	11:56	1	0.0004	0.0004		
2706120615	6/13/07	12:01	1	-0.0000	ND		
2706120635	6/13/07	12:05	1	-0.0000	ND		
2706120636	6/13/07	12:09	1	0.0001	0.0000		
MBLANK	6/13/07	12:14	1	0.0003	0.0002		

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
CCV	6/13/07	12:17	1	5.1624	5.16	90-110	103%
CCB	6/13/07	12:21	1	0.0006	0.0006		
LCS	6/13/07	12:24	1	1.0429	1.04	85-115	104%
LCSD	6/13/07	12:28	1	1.0563	1.06	85-115	105%
D706120634	6/13/07	12:31	1	-0.0003	ND		
D706120634MS	6/13/07	12:36	1	1.0713	1.07	[1.071]	107%
D706120634MSD	6/13/07	12:40	1	1.0556	1.06	[1.056]	105%
D706120634T	6/13/07	12:40	1		1.00	70 - 130	
D706120621	6/13/07	12:43	1	-0.0000	ND		
D706120623	6/13/07	12:48	1	0.0003	0.0003		
D706120629	6/13/07	12:52	1	-0.0002	ND		
D706120631	6/13/07	12:57	1	-0.0004	ND		
D706120610	6/13/07	13:01	1	0.0001	0.0001		
CCV	6/13/07	13:06	1	5.1187	5.12	90-110	102%
CCB	6/13/07	13:11	1	0.0002	0.0001		
MCV	6/13/07	13:17	1	2.6077	2.61	90-110	104%
D706120633	6/13/07	13:21	1	-0.0003	ND		
D706120615	6/13/07	13:25	1	-0.0004	ND		
D706120635	6/13/07	13:30	1	-0.0004	ND		
D706120636	6/13/07	13:34	1	-0.0003	ND		
D706120636MS	6/13/07	13:38	1	1.0500	1.05	[1.050]	105%
D706120636MSD	6/13/07	13:42	1	1.0493	1.05	[1.049]	104%
D706120636T	6/13/07	13:42	1		1.00	70 - 130	
D706120630_5X	6/13/07	13:46	5	0.0002	0.0001		
D706120632_5X	6/13/07	13:50	5	0.0004	0.0003		
D706110334	6/13/07	13:53	1	0.0009	0.0008		
DN706110337_50X	6/13/07	13:57	50	0.0034	.0034		
CCV	6/13/07	14:01	1	5.1117	5.11	90-110	102%
CCB	6/13/07	14:07	1	0.0001	0.0001		
DM706110337_10X	6/13/07	14:11	10	-0.0053	ND		
D706120336	6/13/07	14:15	1	-0.0003	ND		
2706120336	6/13/07	14:19	1	0.0001	0.0001		
2706120329	6/13/07	14:23	1	0.0001	0.0001		
2706120317	6/13/07	14:27	1	0.0110	.011		
2706120335_2X	6/13/07	14:32	2	0.0537	.054		
WASH	6/13/07	14:39	1	0.0005	0.0005		
MBLANK	6/13/07	14:43	1	-0.0011	ND		
LCS	6/13/07	14:47	1	1.0483	1.05	85-115	104%
CCV	6/13/07	14:50	1	5.0616	5.06	90-110	101%
CCB	6/13/07	14:56	1	0.0004	0.0003		
MCV	6/13/07	15:02	1	2.6142	2.61	90-110	104%
LCSD	6/13/07	15:06	1	1.0736	1.07	85-115	107%
2706120001	6/13/07	15:09	1	0.0001	0.0000		
2706120001MS	6/13/07	15:14	1	1.0580	1.06	[1.058]	105%
2706120001MSD	6/13/07	15:18	1	1.0474	1.05	[1.047]	104%
2706120001T	6/13/07	15:18	1		1.00	70 - 130	
2706120005	6/13/07	15:21	1	0.0001	0.0000		
ICSA	6/13/07	15:25	1	-0.0007	ND	80-120	
ICSAB	6/13/07	15:29	1	.25523	.255	80-120	102%

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
Wash	6/13/07	15:33	1	0.0001	0.0001		
QC-25 1ppm	6/13/07	15:39	1	-0.0005	ND		
ECV	6/13/07	15:42	1	5.0825	5.08	90-110	101%
ECB	6/13/07	15:51	1	0.0001	0.0000		
MRL	6/13/07	15:54	1	0.0106	.0106	50-150	106%
CCV	6/13/07	16:22	1	5.1625	5.16	90-110	103%
CCB	6/13/07	16:25	1	0.0001	0.0001		
LCS B1	6/13/07	16:29	1	1.0504	1.05	85-115	105%
LCSD B1	6/13/07	16:31	1	1.0623	1.06	85-115	106%
LCS B2	6/13/07	16:33	1	1.0376	1.04✓	85-115	103%
LCSD B2	6/13/07	16:36	1	1.0279	1.03✓	85-115	102%
2706120525MS	6/13/07	16:49	1	1.0692	1.07	[1.069]	106%
2706120525MSD	6/13/07	16:53	1	1.0648	1.06	[1.065]	106%
2706120525T	6/13/07	16:53	1		1.00	70 - 130	
2706120634MS	6/13/07	16:56	1	1.0167	1.02	[1.017]	101%
2706120634MSD	6/13/07	16:58	1	1.0613	1.06	[1.061]	106%
2706120634T	6/13/07	16:58	1		1.00	70 - 130	
D706120634MS	6/13/07	17:04	1	1.0282	1.03	✓ [1.028]	102%
D706120634MSD	6/13/07	17:06	1	1.0243	1.02	✓ [1.024]	102%
D706120634T	6/13/07	17:06	1		1.00	70 - 130	
CCB	6/13/07	17:10	1	0.0004	0.0003		
CCV	6/13/07	17:14	1	5.2363	5.24	90-110	104%
D706120636MS	6/13/07	17:18	1	1.0204	1.02	✓ [1.020]	102%
D706120636MSD	6/13/07	17:21	1	1.0238	1.02	✓ [1.024]	102%
D706120636T	6/13/07	17:21	1		1.00	70 - 130	
CCB	6/13/07	17:25	1	0.0003	0.0002		
CCV	6/13/07	17:32	1	5.1446	5.14	90-110	102%

Octon B#1 & 2

6/13/07

Sample ID	Time	SCA	YR	AG	AL	AS	B	BA	BE	CA	CD	CO
ICV	8:49	N/A	N/A	2.02/2	9.90/10	10.2/10	5.07	10.1/10	4.05/4	101/100	4.97/5	10.1
Linearity Check	8:52	N/A	N/A	-0.0287	-0.0213	-0.0977	0.0126	0.0013	-0.0004	287.5	0.0004	0.0023
ICSA	8:56	N/A	N/A	-0.030	252/250	-0.234	0.076	0.002	-0.000	255/250	0.002	0.001
ICSAB	8:59	N/A	N/A	0.008	250/250	-0.227	0.068	0.260/.25	0.252/.25	253/250	0.502/.5	0.242/.25
Wash	9:03	N/A	N/A	0.0007	-0.0136	0.0027	0.0107	-0.000	-0.000	-0.001	0.0001	0.0000
QC-25 ppm	9:09	N/A	N/A	0.9641	1.005	1.012	0.9398	1.077	1.002	1.068	0.9988	1.076
CCV	9:14	N/A	N/A	0.933/1	4.92/5	4.92/5	2.46	5.12/5	2.07/2	51.2/50	2.50/2.5	5.10
ICB	9:20	N/A	N/A	0.0003	-0.0149	0.0100	0.0162	-0.001	-0.000	-0.001	0.0002	0.0001
MRL	9:51	N/A	N/A	0.011/.01	0.053/.05	0.101/.1	0.055	0.022/.02	0.001/.001	1.06/1	0.006/.005	0.056/.05
FILTERCHECK	9:54	N/A	N/A	0.0001	-0.0148	0.0028	0.0039	-0.002	-0.001	-0.003	0.0001	-0.002
MRL/2	9:58	N/A	N/A	0.005/.01	0.027/.05	0.052/.1	0.031	0.011/.02	0.000(.001)	0.543/1	0.003/.005	0.028/.05
MBLANK	10:02	N/A	N/A	0.0003	-0.0006	0.0036	0.0059	-0.001	-0.001	0.0935	0.0002	-0.0003
LCS	10:06	N/A	N/A	0.499/.5	2.07/2	1.08/1	0.495	1.12/1	0.053/.05	-0.002	0.219/.2	1.14/1
LCSD	10:09	N/A	N/A	0.509/.5	2.13/2	1.08/1	0.500	1.13/1	0.053/.05	0.019(50)	0.220/.2	1.16(1)
2706120525	10:13	N/A	N/A	0.0005	0.0096	-0.124	0.1543	0.0547	-0.001	31.50	0.0001	-0.000
2706120525MS	10:17	N/A	N/A	0.4817	1.992	1.069	0.6331	1.103	0.0526	30.68	0.2075	1.073
2706120525MSD	10:21	N/A	N/A	0.4987	2.054	1.109	0.6577	1.138	0.0544	31.87	0.2140	1.112
2706120526	10:25	N/A	N/A	0.0001	0.0056	-0.0123	0.1202	0.0386	-0.002	42.25	-0.001	-0.001
2706120466	10:28	N/A	N/A	-0.0004	-0.0096	-0.0301	0.1245	0.0693	-0.002	91.22	-0.001	-0.003
CCV	10:33	N/A	N/A	0.932/1	4.97/5	4.89/5	2.45	5.15/5	2.09/2	51.2/50	2.51/2.5	5.12
CCB	10:36	N/A	N/A	0.0005	-0.0088	0.0183	0.0129	-0.001	-0.000	-0.008	0.0002	-0.000
2706120450	10:39	N/A	N/A	0.0003	-0.0139	-0.0205	0.1221	0.0688	-0.002	88.37	-0.004	-0.005
2706120459	10:44	N/A	N/A	0.0002	-0.0126	-0.0250	0.1190	0.0682	-0.002	87.96	-0.002	-0.007
2706120523	10:48	N/A	N/A	0.0001	-0.0038	-0.0133	0.0911	0.0455	-0.001	36.77	-0.001	-0.001
2706120524	10:52	N/A	N/A	0.0001	0.0127	-0.0099	0.1544	0.0556	-0.001	32.22	-0.002	-0.002
2706120459	10:56	N/A	N/A	0.0002	-0.0036	-0.0247	0.1173	0.0678	-0.002	89.38	-0.004	-0.006
2706120466	11:00	N/A	N/A	-0.0003	-0.0005	-0.0252	0.1252	0.0705	-0.003	92.26	-0.002	-0.006
2706120450	11:05	N/A	N/A	-0.0002	-0.0013	-0.0206	0.1187	0.0683	-0.001	90.30	-0.003	-0.004
2706120634	11:09	N/A	N/A	-0.0001	0.0346	-0.0224	0.2056	0.0559	-0.003	75.24	-0.001	-0.003
2706120634MS	11:13	N/A	N/A	0.4719	2.076	1.132	0.7017	1.116	0.0545	71.36	0.2127	1.104
2706120634MSD	11:17	N/A	N/A	0.4880	2.123	1.144	0.7109	1.134	0.0552	72.98	0.2159	1.104
CCV	11:21	N/A	N/A	0.947/1	5.10/5	5.01/5	2.51	5.25/5	2.13/2	52.2/50	2.56/2.5	5.21
CCB	11:24	N/A	N/A	0.0002	-0.0049	0.0184	0.0147	-0.001	-0.001	-0.014	0.0002	-0.002
MCV	11:31	N/A	N/A	0.481/.5	2.60/2.5	2.51/2.5	1.26	2.68/2.5	1.08/1	26.4/25	1.29/1.25	2.67
2706120621	11:34	N/A	N/A	0.0006	0.0218	-0.0123	0.1774	0.0536	-0.002	39.05	-0.000	-0.004
2706120623	11:39	N/A	N/A	0.0000	0.0987	-0.0038	0.2659	0.4253	-0.004	198.7	-0.007	-0.004
2706120629	11:43	N/A	N/A	0.0003	0.0327	-0.0149	0.1913	0.0259	-0.001	32.81	-0.000	-0.000
2706120631	11:47	N/A	N/A	-0.0004	-0.0013	-0.0346	0.2889	0.1789	-0.005	269.1	-0.004	-0.005
2706120610	11:52	N/A	N/A	0.0006	0.0624	-0.0452	1.063	0.1566	-0.007	301.7	-0.003	-0.010
2706120633	11:56	N/A	N/A	0.0001	0.0237	-0.0185	0.1932	0.0540	-0.002	56.98	-0.001	-0.007
2706120615	12:01	N/A	N/A	0.0003	0.0038	-0.0162	0.1963	0.0526	-0.002	30.00	-0.000	-0.002
2706120635	12:05	N/A	N/A	0.0001	-0.0110	-0.0121	0.5755	0.0138	-0.002	21.48	-0.001	-0.003
2706120636	12:09	N/A	N/A	0.0002	0.0772	-0.0299	0.2749	0.0316	-0.002	47.26	0.0002	-0.003
MBLANK	12:14	N/A	N/A	0.0002	-0.0272	0.0031	0.0105	0.0000	-0.001	0.0003	0.0001	-0.002
CCV	12:17	N/A	N/A	0.952/1	5.15/5	5.05/5	2.53	5.29/5	2.15/2	52.6/50	2.55/2.5	5.26
CCB	12:21	N/A	N/A	0.0004	0.0048	0.0194	0.0161	-0.001	-0.001	-0.001	0.0002	-0.002
LCS	12:24	N/A	N/A	0.480/.5	2.08/2	1.08/1	0.495	1.10/1	0.052/.05	0.023(50)	0.217/.2	1.12/1
LCSD	12:28	N/A	N/A	0.487/.5	2.10/2	1.10/1	0.508	1.11/1	0.053/.05	0.005(50)	0.217/.2	1.14/1
D706120634	12:31	N/A	N/A	0.0004	-0.0128	-0.0207	0.2145	0.0533	-0.003	73.21	-0.000	-0.000

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D706120634MS	12:36	N/A	N/A	0.4981	2.113	1.194	0.7410	1.151	0.0565	74.26	0.2205	1.137
D706120634MSD	12:40	N/A	N/A	0.4841	2.039	1.154	0.7297	1.137	0.0558	72.00	0.2149	1.107
D706120621	12:43	N/A	N/A	0.0001	-0.001	-0.162	0.1964	0.0530	-0.0002	39.43	-0.0001	-0.0006
D706120623	12:48	N/A	N/A	0.0000	-0.0053	-0.101	0.2864	0.4289	-0.0005	199.9	-0.0005	-0.0005
D706120629	12:52	N/A	N/A	-0.0000	-0.0006	-0.162	0.2079	0.0264	-0.0001	32.56	-0.0003	-0.0002
D706120631	12:57	N/A	N/A	-0.0001	-0.0000	-0.332	0.2918	0.1712	-0.0004	260.8	-0.0004	-0.0004
D706120610	13:01	N/A	N/A	-0.0002	-0.0068	-0.495	1.078	0.1565	-0.0006	298.8	-0.0006	-0.0009
CCV	13:06	N/A	N/A	0.947/1	5.15/5	5.10/5	2.53	5.25/5	2.14/2	52.3/50	2.57/2.5	5.24
CCB	13:11	N/A	N/A	0.0001	-0.0191	0.0087	0.0159	-0.0000	0.0000	0.0018	0.0002	0.0002
MCV	13:17	N/A	N/A	0.484/.5	2.56/2.5	2.60/2.5	1.30	2.69/2.5	1.08/1	26.5/25	1.30/1.25	2.69
D706120633	13:21	N/A	N/A	0.0000	-0.0001	-0.106	0.2006	0.0533	-0.0001	56.66	-0.0003	0.0000
D706120615	13:25	N/A	N/A	0.0003	-0.0105	-0.089	0.1997	0.0508	-0.0001	31.28	-0.0002	-0.0000
D706120635	13:30	N/A	N/A	0.0006	-0.0039	-0.087	0.5790	0.0136	-0.0001	21.81	-0.0001	-0.0003
D706120636	13:34	N/A	N/A	0.0003	-0.0068	-0.308	0.2936	0.0318	-0.0002	47.64	0.0000	-0.0004
D706120636MS	13:38	N/A	N/A	0.4787	2.061	1.143	0.8074	1.109	0.0557	46.98	0.2141	1.103
D706120636MSD	13:42	N/A	N/A	0.4789	2.110	1.162	0.8089	1.113	0.0557	47.39	0.2170	1.118
D706120630_5X	13:46	N/A	N/A	0.0011	-0.1031	0.0126	0.3401	0.0582	-0.0004	35.55	-0.0003	0.0001
D706120630_5X	13:50	N/A	N/A	0.0007	-0.0691	-0.082	0.6042	0.0467	-0.0006	28.67	0.0005	-0.0008
D706120632_5X	13:53	N/A	N/A	0.0005	0.0064	-0.124	0.1030	0.0398	-0.0001	29.39	-0.0001	0.0001
D706110334	13:57	N/A	N/A	0.0127	-0.7441	-0.7278	4.737	0.2094	-0.0100	513.0	-0.0035	0.0035
DN706110337_50X	14:01	N/A	N/A	0.954/1	5.09/5	5.15/5	2.54	5.26/5	2.14/2	52.1/50	2.56/2.5	5.26
CCV	14:07	N/A	N/A	0.0003	-0.0189	0.0095	0.0150	-0.0001	0.0000	0.0010	0.0001	0.0001
CCB	14:11	N/A	N/A	-0.0001	-0.0848	-0.2936	3.971	0.2024	-0.0029	471.9	-0.0032	-0.0028
DM706110337_10X	14:15	N/A	N/A	0.0003	-0.138	-0.0202	0.0607	0.0828	-0.0002	36.68	0.0001	-0.0002
D706120336	14:19	N/A	N/A	-0.0000	-0.0067	-0.141	0.0606	0.0842	-0.0002	35.83	-0.0002	-0.0001
2706120336	14:23	N/A	N/A	-0.0001	-0.0054	-0.191	0.1625	0.1801	-0.0002	84.10	-0.0004	-0.0002
2706120329	14:27	N/A	N/A	0.0005	-0.169	-0.194	0.1987	0.0873	-0.0002	99.36	-0.0002	0.0003
2706120317	14:32	N/A	N/A	0.0004	-0.0018	0.0020	4.087	0.0277	-0.0010	505.6	-0.0003	0.0053
2706120335_2X	14:39	N/A	N/A	0.0003	-0.0059	0.0015	0.0145	-0.0001	-0.0000	0.0013	0.0000	-0.0000
WASH	14:43	N/A	N/A	0.0008	-0.0068	0.0023	0.0042	0.0001	0.0007	0.0466	0.0000	0.0005
MBLANK	14:47	N/A	N/A	0.485/.5	2.10/2	1.12/1	0.529	1.07/1	0.055/.05	52.9/50	0.213/.2	1.09/1
LCS	14:50	N/A	N/A	0.940/1	5.15/5	5.09/5	2.52	5.21/5	2.12/2	52.4/50	2.54/2.5	5.21
CCV	14:56	N/A	N/A	0.0003	-0.0149	0.0055	0.0138	-0.0001	-0.0000	0.0016	0.0001	0.0001
CCB	15:02	N/A	N/A	0.486/.5	2.57/2.5	2.63/2.5	1.30	2.71/2.5	1.10(1)	26.7/25	1.31/1.25	2.71
MCV	15:06	N/A	N/A	0.498/.5	2.13/2	1.16(1)	0.546	1.10/1	0.056/.05	53.6/50	0.219/.2	1.12/1
LCSD	15:09	N/A	N/A	0.0003	-0.0041	-0.105	0.0684	0.2134	-0.0001	85.00	-0.0003	-0.0000
2706120001	15:14	N/A	N/A	0.4965	2.123	1.170	0.5863	1.289	0.0557	134.5	0.2174	1.095
2706120001MS	15:18	N/A	N/A	0.4925	2.120	1.158	0.5823	1.276	0.0553	133.6	0.2149	1.083
2706120001MSD	15:21	N/A	N/A	0.0004	-0.0177	0.0043	0.0546	0.0009	-0.0000	0.3000	0.0000	0.0002
2706120005	15:25	N/A	N/A	-0.029	266/250	-0.230	0.078	0.002	-0.000	265/250	0.002	0.002
ICSA	15:29	N/A	N/A	0.009	258/250	-0.227	0.074	0.268/.25	0.261/.25	256/250	0.515/.5	0.251/.25
ICSBAB	15:33	N/A	N/A	0.0003	-0.0063	0.0039	0.0117	-0.0001	-0.0000	0.0011	0.0000	-0.0001
Wash	15:39	N/A	N/A	0.0027	0.0659	0.0035	0.0164	0.0002	0.0007	0.1046	0.0005	0.0002
QC-25 ppm	15:42	N/A	N/A	0.959/1	5.18/5	5.10/5	2.53	5.21/5	2.14/2	52.3/50	2.55/2.5	5.20
ECV	15:51	N/A	N/A	0.0088	-0.0055	0.0055	0.0133	-0.0001	-0.0000	0.0018	0.0001	-0.0001
ECB	15:54	N/A	N/A	0.011/.01	0.045/.05	0.106/.1	0.062	0.022/.02	0.001/.001	1.07/1	0.006/.005	0.055/.05
MRL	16:22	N/A	N/A	0.954/1	5.28/5	5.15/5	2.53	5.29/5	2.17/2	52.7/50	2.58/2.5	5.27
CCV	16:25	N/A	N/A	0.0008	-0.0047	0.0221	0.0167	-0.0000	-0.0000	0.0026	0.0001	0.0001
CCB	16:29	N/A	N/A	0.490/.5	2.14/2	1.13/1	0.517	1.08/1	0.055/.05	53.1/50	0.215/.2	1.10/1
LCS_B1	16:31	N/A	N/A	0.495/.5	2.13/2	1.14/1	0.526	1.08/1	0.056/.05	53.6/50	0.216/.2	1.10/1

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LCS_B2	16:33	N/A	N/A	0.482/.5	1.93/2	1.10/1	0.517	1.06/1	0.054/.05	47.7/50	0.211/.2	1.08/1
LCSD_B2	16:36	N/A	N/A	0.474/.5	2.06/2	1.10/1	0.510	1.05/1	0.054/.05	51.8/50	0.210/.2	1.07/1
2706120525MS	16:49	N/A	N/A	0.5156	2.175	1.162	0.6860	1.145	0.0564	85.82	0.2160	1.102
2706120525MSD	16:53	N/A	N/A	0.5078	2.177	1.157	0.6910	1.138	0.0561	85.14	0.2153	1.095
2706120634MS	16:56	N/A	N/A	0.4651	2.160	1.128	0.7082	1.088	0.0537	124.5	0.2085	1.058
2706120634MSD	16:58	N/A	N/A	0.4874	2.178	1.179	0.7369	1.139	0.0561	124.2	0.2186	1.108
D706120634MS	17:04	N/A	N/A	0.4750	2.041	1.135	0.7118	1.100	0.0542	121.3	0.2091	1.063
D706120634MSD	17:06	N/A	N/A	0.4748	2.055	1.136	0.7167	1.097	0.0541	121.1	0.2092	1.060
CCB	17:10	N/A	N/A	0.0012	-.0138	0.0046	0.0179	-.0000	-.0000	0.0025	0.0000	0.0001
CCV	17:14	N/A	N/A	0.966/1	5.25/5	5.31/5	2.59	5.38/5	2.20/2	52.2/50	2.63/2.5	5.37
D706120636MS	17:18	N/A	N/A	0.4750	2.094	1.135	0.7965	1.069	0.0541	96.53	0.2080	1.056
D706120636MSD	17:21	N/A	N/A	0.4767	2.060	1.148	0.8035	1.074	0.0544	96.23	0.2098	1.066
CCB	17:25	N/A	N/A	0.0056	-.0116	0.0135	0.0229	-.0001	-.0000	0.0019	0.0001	0.0001
CCV	17:32	N/A	N/A	0.952/1	5.27/5	5.26/5	2.59	5.29/5	2.16/2	52.2/50	2.58/2.5	5.28

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ICV	8:49	10.1/10	10.1/10	10.2/10	102/100	102/100	10.1/10	10.1/10	101/100	10.1/10	10.2/10	9.96/10
Linearity Check	8:52	0.0019	-0.0132	97.77	298.4	185.2	0.0025	0.0002	296.2	-0.0006	-0.0019	0.0105
ICSA	8:56	0.001	-0.014	102/100	0.250	244/250	0.002	-0.002	0.100	-0.001	-0.039	0.010
ICSAB	8:59	0.248/.25	0.249/.25	100/100	0.136	241/250	0.263/.25	-0.002	0.043	0.469/.5	0.467/.5	0.002
Wash	9:03	0.0002	0.0001	0.0062	0.0159	0.0038	-0.0004	0.0001	0.0189	-0.0005	0.0008	-0.0006
QC-25 ppm	9:09	1.028	1.027	1.057	9.788	1.113	1.075	0.9954	1.084	1.078	1.104	0.9739
CCV	9:14	5.02/5	5.09/5	5.17/5	49.0/50	51.6/50	5.16/5	5.04/5	50.4/50	5.14/5	5.20/5	4.86/5
ICB	9:20	0.0002	0.0002	0.0026	0.0374	0.0015	-0.0002	0.0006	0.0083	-0.0003	0.0015	0.0050
MRL	9:51	0.011/.01	0.011/.01	0.022/.02	1.08/1	0.111/.1	0.002/.002	0.021/.02	1.04/1	0.022/.02	0.024/.02	0.041/.05
FILTERCHECK	9:54	0.0001	0.0005	-0.0010	0.0313	0.0009	-0.0006	-0.0000	0.0036	-0.0002	0.0002	-0.0014
MRL/2	9:58	0.006/.01	0.006/.01	0.009(.02)	0.570/1	0.058/.1	0.001(.002)	0.010/.02	0.515/1	0.011/.02	0.010/.02	0.020(.05)
MBLANK	10:02	0.0002	0.0003	0.0002	0.1127	0.0298	-0.0003	0.0003	0.2387	-0.0004	-0.0001	-0.0004
LCS	10:06	1.07/1	1.11/1	5.36/5	0.037(20)	0.001(20)	0.569/.5	1.03/1	0.001(50)	0.581(.5)	1.23(1)	0.488/.5
LCSD	10:09	1.08/1	1.11/1	5.47/5	0.052(20)	0.005(20)	0.573/.5	1.03/1	0.021(50)	0.581(.5)	1.23(1)	0.489/.5
2706120525	10:13	0.0001	0.0048	0.0373	3.031	14.99	0.0046	0.0045	69.95	0.0006	-0.0012	-0.0013
2706120525MS	10:17	1.013	1.022	5.211	2.852	14.48	0.5425	1.014	68.16	0.5361	1.119	0.4879
2706120525MSD	10:21	1.049	1.057	5.377	2.951	14.96	0.5606	1.050	70.63	0.5540	1.158	0.5078
2706120526	10:25	0.0057	0.0145	-0.0009	1.857	12.69	-0.0004	0.0093	41.71	-0.0003	-0.0016	-0.0016
2706120466	10:28	0.0033	0.0012	-0.0067	1.883	28.99	-0.006	0.0075	35.48	-0.0006	-0.0027	0.0016
CCV	10:33	5.03/5	5.12/5	5.13/5	48.7/50	51.2/50	5.18/5	5.06/5	49.6/50	5.17/5	5.24/5	4.82/5
CCB	10:36	0.0003	0.0006	-0.0004	0.1233	0.0017	-0.0001	0.0012	0.0028	-0.0001	0.0019	0.0060
2706120450	10:39	0.0038	0.0083	-0.0022	1.807	28.09	-0.0005	0.0078	33.57	-0.0001	-0.0029	0.0031
2706120459	10:44	0.0035	0.0040	-0.0051	1.790	27.97	-0.0006	0.0067	33.13	-0.0003	-0.0024	0.0022
2706120523	10:48	0.0027	0.0055	0.0240	2.040	10.81	0.0037	0.0098	41.34	-0.0003	-0.0004	0.0007
2706120524	10:52	0.0001	0.0025	-0.0007	3.058	15.17	0.0044	0.0031	69.82	0.0005	-0.0029	0.0000
2706120459	10:56	0.0034	0.0035	-0.0067	1.846	28.37	-0.0006	0.0069	33.90	-0.0003	-0.0033	-0.0019
2706120466	11:00	0.0036	0.0013	-0.0051	1.888	29.06	-0.0007	0.0076	36.20	-0.0006	-0.0027	0.0024
2706120450	11:05	0.0033	0.0012	-0.0048	1.828	33.96	-0.0006	0.0071	33.96	-0.0006	-0.0028	0.0020
2706120634	11:09	-0.0001	0.0071	0.5646	4.384	24.36	0.1489	0.0047	209.0	-0.0000	-0.0020	0.0014
2706120634MS	11:13	1.035	1.080	5.888	4.157	23.08	0.6855	1.035	196.6	0.5436	1.142	0.5053
2706120634MSD	11:17	1.053	1.091	6.008	4.216	23.65	0.6955	1.054	203.0	0.5506	1.155	0.5083
CCV	11:21	5.12/5	5.20/5	5.26/5	49.1/50	51.4/50	5.28/5	5.15/5	50.0/50	5.27/5	5.34/5	4.94/5
CCB	11:24	0.0005	0.0006	-0.0011	0.0608	0.0013	-0.0003	0.0012	0.0284	-0.0003	-0.0003	0.0061
MCV	11:31	2.59/2.5	2.65/2.5	2.65/2.5	24.7/25	26.4/25	2.72/2.5	2.60/2.5	25.2/25	2.69/2.5	2.72/2.5	2.49/2.5
2706120621	11:34	0.0006	0.0029	0.0492	3.157	17.39	0.0257	0.0049	55.69	-0.0002	-0.0003	0.0031
2706120623	11:39	0.0029	0.0079	0.0821	60.69	12.16	0.0031	0.0233	879.7	0.0004	-0.0011	0.0026
2706120629	11:43	-0.0002	0.0017	0.0276	4.539	16.96	0.0129	0.0031	83.89	0.0001	-0.0006	0.0005
2706120631	11:47	-0.0000	0.0011	0.8358	11.89	66.41	0.3223	0.0051	534.7	-0.0005	-0.0060	0.0042
2706120610	11:52	0.0004	0.0015	0.9255	51.64	267.0	2.305	0.0035	\$2222.6	-0.0010	-0.0111	0.0126
2706120633	11:56	0.0000	0.0024	0.1269	3.515	16.16	0.1450	0.0059	99.53	-0.0005	-0.0014	-0.0011
2706120615	12:01	-0.0000	0.0007	0.0036	2.753	14.83	0.0422	0.0033	52.71	-0.0002	-0.0020	-0.0003
2706120635	12:05	-0.0000	0.0009	0.1174	4.437	12.27	0.0128	0.0025	57.22	-0.0002	-0.0015	-0.0011
2706120636	12:09	0.0001	0.0028	0.0570	8.585	38.99	0.0609	0.0024	179.9	0.0003	-0.0004	-0.0011
MBLANK	12:14	0.0003	0.0002	-0.0036	0.1276	-0.0009	-0.0006	0.0001	0.2971	-0.0004	0.0003	-0.0001
CCV	12:17	5.16/5	5.27/5	5.26/5	49.1/50	51.3/50	5.32/5	5.13/5	49.7/50	5.33/5	5.34/5	4.94/5
CCB	12:21	0.0006	0.0006	0.0015	0.0891	0.0026	-0.0004	0.0014	0.0991	-0.0004	-0.0015	0.0059
LCS	12:24	1.04/1	1.09/1	5.19/5	0.120(20)	0.006(20)	0.559/.5	1.02/1	0.112(50)	0.578(.5)	1.22(1)	0.485/.5
LCSD	12:28	1.06/1	1.10/1	5.29/5	0.021(20)	0.001(20)	0.565/.5	1.02/1	0.096(50)	0.578(.5)	1.23(1)	0.489/.5
D706120634	12:31	-0.0003	0.0040	0.0362	4.271	23.14	0.1430	0.0062	203.8	0.0005	-0.0016	0.0006

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D706120634MS	12:36	1.071	1.105	5.540	4.352	23.63	0.7068	1.083	204.6	0.5682	1.189	0.5244
D706120634MSD	12:40	1.056	1.092	5.341	4.197	22.92	0.6976	1.055	199.2	0.5527	1.158	0.5082
D706120621	12:43	0.0000	0.0052	-0.0021	3.152	16.97	0.0224	0.0053	55.47	0.0001	-0.0030	-0.0004
D706120623	12:48	0.0003	0.0048	-0.0009	60.61	11.87	0.0012	0.0238	865.7	0.0006	-0.0035	0.0031
D706120629	12:52	-0.0002	0.0021	0.0021	4.463	16.56	0.0132	0.0040	82.73	0.0002	-0.0012	0.0004
D706120631	12:57	-0.0004	0.0032	-0.0035	11.49	63.41	0.3131	0.0043	518.1	-0.0005	-0.0077	0.0018
D706120610	13:01	0.0001	0.0045	-0.0167	52.00	261.2	2.313	0.0044	82263.1	-0.0010	-0.0093	0.0070
CCV	13:06	5.12/5	5.24/5	5.18/5	49.6/50	50.7/50	5.29/5	5.15/5	51.4/50	5.29/5	5.37/5	5.00/5
CCB	13:11	0.0002	0.0003	0.0016	0.0584	0.0029	-0.0004	0.0010	0.4375	0.0000	0.0001	0.0021
MCV	13:17	2.61/2.5	2.64/2.5	2.60/2.5	24.7/25	25.9/25	2.69/2.5	2.61/2.5	25.5/25	2.73/2.5	2.75(2.5)	2.53/2.5
D706120633	13:21	-0.0003	0.0035	0.0392	3.204	15.52	0.1417	0.0067	97.83	0.0003	-0.0003	0.0015
D706120615	13:25	-0.0004	0.0019	0.0038	2.727	15.06	0.0399	0.0040	53.42	0.0000	-0.0019	-0.0023
D706120635	13:30	-0.0004	0.0016	0.0483	4.462	12.27	0.0124	0.0031	57.53	0.0004	-0.0027	-0.0037
D706120636	13:34	-0.0003	0.0014	-0.0003	38.51	37.94	0.0601	0.0023	181.3	-0.0001	-0.0027	-0.0009
D706120636MS	13:38	1.050	1.108	5.190	8.502	37.94	0.6132	1.049	180.0	0.5421	1.145	0.5222
D706120636MSD	13:42	1.049	1.110	5.365	8.714	38.31	0.6154	1.061	181.2	0.5495	1.160	0.5260
D706120630_5X	13:46	0.0002	0.0040	0.0040	4.564	15.00	0.0363	0.0112	231.8	0.0003	-0.0057	-0.0082
D706120632_5X	13:50	0.0004	0.0053	0.1321	14.03	18.50	0.0593	0.0051	239.8	0.0002	0.0048	-0.0087
D706110334_5X	13:53	0.0009	0.0014	0.0232	7.154	8.708	0.1085	0.0013	34.23	0.0028	-0.0008	-0.0003
DN706110337_50X	13:57	0.0034	0.0229	1.898	324.6	1278.0	1.044	0.0185	89933.0	-0.0087	-0.1244	-0.1310
CCV	14:01	5.11/5	5.26/5	5.11/5	49.0/50	49.7/50	5.30/5	5.13/5	49.7/50	5.31/5	5.38/5	4.99/5
CCB	14:07	0.0001	0.0002	0.0018	0.0821	0.0012	-0.0005	0.0007	0.0970	-0.0001	-0.0013	0.0033
DN706110337_10X	14:11	-0.0053	0.0094	1.837	321.6	1137.4	1.008	0.0105	89069.7	-0.0017	-0.0030	0.0282
D706120336	14:15	-0.0003	0.0026	0.0203	7.623	16.01	0.0716	0.0078	49.53	-0.0001	-0.0013	0.0012
2706120336	14:19	0.0001	0.0005	0.0337	7.287	15.63	0.0736	0.0075	47.76	-0.0002	-0.0008	-0.0023
2706120329	14:23	0.0001	0.0009	0.0280	5.588	30.57	0.0007	0.0066	102.1	0.0006	-0.0016	-0.0013
2706120317	14:27	0.0110	0.0008	-0.0013	4.203	26.64	0.0012	0.0076	53.67	0.0002	-0.0053	-0.0027
2706120335_2X	14:32	0.0537	0.0038	0.1778	33.01	225.0	1.070	0.0971	1469.4	0.0124	-0.0115	0.0107
WASH	14:39	0.0005	0.0002	0.0020	0.0899	0.0018	-0.0005	0.0005	0.2533	0.0000	-0.0005	-0.0020
MBLANK	14:43	-0.0011	-0.0017	0.0005	0.1361	0.0003	-0.0006	0.0003	0.3802	0.0007	-0.0023	-0.0013
LCS	14:47	1.05/1	1.07/1	5.18/5	20.0/20	20.4/20	0.548/5	1.04/1	50.2/50	0.544/5	1.16(1)	0.492/5
CCV	14:50	5.06/5	5.21/5	5.16/5	48.7/50	49.4/50	5.26/5	5.09/5	48.9/50	5.25/5	5.31/5	4.97/5
CCB	14:56	0.0004	0.0002	0.0012	0.0395	0.0003	-0.0005	0.0009	0.0304	-0.0002	-0.0000	0.0013
MCV	15:02	2.61/2.5	2.70/2.5	2.60/2.5	24.3/25	25.5/25	2.75/2.5	2.64/2.5	24.7/25	2.75/2.5	2.79(2.5)	2.56/2.5
LCS	15:06	1.07/1	1.09/1	5.25/5	20.0/20	20.6/20	0.560/5	1.07/1	50.4/50	0.558/5	1.20(1)	0.510/5
2706120001	15:09	0.0001	0.0092	0.0077	2.005	12.05	0.0030	0.0028	39.33	0.0001	-0.0018	0.0006
2706120001MS	15:14	1.058	1.084	5.262	22.09	31.88	0.5591	1.070	87.68	0.5439	1.172	0.5172
2706120001MSD	15:18	1.047	1.073	5.293	22.27	31.96	0.5536	1.061	87.17	0.5384	1.160	0.5104
2706120005	15:21	0.0001	0.0004	0.0032	0.3227	0.0523	-0.0005	0.0012	2.472	0.0004	0.0002	-0.0034
ICSA	15:25	-0.001	-0.015	101/100	0.133	235/250	0.002	-0.002	0.153	-0.001	-0.042	0.0005
ICSA	15:29	0.255/.25	0.256/.25	99.3/100	0.139	227/250	0.269/.25	-0.003	0.112	0.490/.5	0.486/.5	0.007
Wash	15:33	0.0001	0.0002	0.0027	0.0862	0.0016	-0.0005	0.0003	0.0546	-0.0000	0.0002	-0.0024
QC-25 ppm	15:39	-0.0005	-0.0012	0.0011	0.9218	0.0063	-0.0005	0.0012	0.0298	0.0001	0.0027	-0.0015
ECV	15:42	5.08/5	5.25/5	5.12/5	48.5/50	49.4/50	5.26/5	5.14/5	48.4/50	5.25/5	5.33/5	4.97/5
ECB	15:51	0.0001	0.0004	0.0016	0.0690	0.0017	-0.0004	0.0007	0.0681	-0.0000	0.0004	-0.0007
MRL	15:54	0.011/.01	0.011/.01	0.022/.02	1.04/1	0.106/.1	0.002/.002	0.020/.02	1.07/1	0.022/.02	0.024/.02	0.044/.05
CCV	16:22	5.16/5	5.29/5	5.13/5	49.3/50	49.9/50	5.34/5	5.21/5	49.1/50	5.34/5	5.42/5	5.03/5
CCB	16:25	0.0001	0.0003	0.0046	0.0863	0.0017	-0.0003	0.0018	0.0588	0.0003	0.0007	0.0077
LCS B1	16:29	1.05/1	1.07/1	5.17/5	19.9/20	20.4/20	0.549/.5	1.06/1	49.6/50	0.548/.5	1.18(1)	0.499/.5
LCS	16:31	1.06/1	1.08/1	5.22/5	20.0/20	20.5/20	0.553/.5	1.07/1	50.1/50	0.552/.5	1.19(1)	0.501/.5

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LCS_B2	16:33	1.04/1	1.05/1	4.72/5	18.2/20	18.6/20	0.541/.5	1.04/1	44.5/50	0.539/.5	1.16(1)	0.498/.5
LCSD_B2	16:36	1.03/1	1.04/1	5.07/5	19.4/20	19.8/20	0.538/.5	1.04/1	48.6/50	0.536/.5	1.15/1	0.491/.5
2706120525MS	16:49	1.069	1.084	5.394	23.27	34.98	0.5669	1.070	116.7	0.5492	1.164	0.5229
2706120525MSD	16:53	1.065	1.075	5.409	23.48	35.06	0.5638	1.069	116.3	0.5457	1.158	0.5216
2706120634MS	16:56	1.017	1.061	5.838	24.40	42.41	0.6680	1.026	240.1	0.5268	1.108	0.5010
2706120634MSD	16:58	1.061	1.109	5.845	24.56	42.40	0.6998	1.079	242.5	0.5494	1.158	0.5294
D706120634MS	17:04	1.028	1.067	5.140	24.09	41.45	0.6739	1.027	236.8	0.5278	1.114	0.5037
D706120634MSD	17:06	1.024	1.068	5.124	24.17	41.28	0.6733	1.031	237.7	0.5268	1.114	0.5055
CCB	17:10	0.0004	0.0004	0.0036	0.1668	0.0019	-0.0004	0.0029	0.1299	0.0001	0.0000	0.0043
CCV	17:14	5.24/5	5.38/5	5.13/5	49.1/50	49.4/50	5.43/5	5.29/5	48.5/50	5.43/5	5.51(5)	5.13/5
D706120636MS	17:18	1.020	1.082	5.153	28.59	55.41	0.5913	1.018	217.9	0.5202	1.112	0.5014
D706120636MSD	17:21	1.024	1.089	5.086	28.49	55.25	0.5940	1.035	218.3	0.5241	1.124	0.5083
CCB	17:25	0.0003	0.0006	0.0030	0.0835	0.0017	-0.0004	0.0027	0.1275	0.0002	0.0009	0.0102
CCV	17:32	5.14/5	5.32/5	5.15/5	49.5/50	49.4/50	5.34/5	5.20/5	49.1/50	5.34/5	5.41/5	5.05/5

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ICV	8:49	10.1/10	10.2/10	10.2/10	10.1/10	10.2/10	4.05/4
Linearity Check	8:52	0.0019	-.0846	0.0009	0.0184	0.0055	-.0004
ICSA	8:56	-.015	-.077	0.001	0.015	N/A	-.000
ICSAB	8:59	-.014	-.079	0.254/.25	0.531/.5	N/A	0.252/.25
Wash	9:03	-.0030	0.0010	0.0001	0.0000	0.0005	-.0000
QC-25 ppm	9:09	0.9839	1.115	0.9986	1.044	0.9994	1.001
CCV	9:14	5.12/5	5.32/5	5.06/5	5.13/5	5.02/5	2.07/2
ICB	9:20	-.0023	0.0018	0.0001	0.0001	0.0009	-.0000
MRL	9:51	0.103/.1	0.120/.1	0.002/.002	0.021/.02	0.051/.05	0.001/.001
FILTERCHECK	9:54	-.0047	-.0025	0.0000	-.0015	0.0004	-.0001
MRL/2	9:58	0.048(.1)	0.060/.1	0.001/.002	0.010/.02	0.025(.05)	0.000(.001)
MBLANK	10:02	-.0027	-.0009	0.0003	-.0007	-.0010	-.0001
LCS	10:06	1.14/1	1.27(1)	1.02/1	1.15/1	2.05/2	0.053/.05
LCSD	10:09	1.13/1	1.27(1)	1.03/1	1.16(1)	2.07/2	0.053/.05
2706120525	10:13	-.0097	-.0055	0.0038	0.9679	0.0218	-.0001
2706120525MS	10:17	1.107	1.135	1.019	2.051	1.993	0.0525
2706120525MSD	10:21	1.147	1.171	1.055	2.128	2.070	0.0543
2706120526	10:25	-.0044	-.0074	0.0071	0.1348	0.0074	-.0002
2706120466	10:28	-.0176	-.0212	0.0047	0.0101	0.0054	-.0002
CCV	10:33	5.11/5	5.32/5	5.08/5	5.16/5	4.92/5	2.09/2
CCB	10:36	-.0044	0.0003	0.0003	-.0005	0.0001	-.0000
2706120450	10:39	-.0243	-.0192	0.0047	0.0256	0.0039	-.0002
2706120459	10:44	-.0167	-.0185	0.0046	0.0351	0.0026	-.0002
2706120523	10:48	-.0091	-.0085	0.0077	0.2762	0.0111	-.0001
2706120524	10:52	-.0230	-.0065	0.0038	1.012	0.0229	-.0001
2706120459	10:56	-.0145	-.0230	0.0043	0.0370	0.0017	-.0002
2706120466	11:00	-.0162	-.0227	0.0045	0.0072	0.0057	-.0003
2706120450	11:05	-.0166	-.0222	0.0044	0.0046	0.0019	-.0001
2706120634	11:09	-.0117	-.0176	0.0007	0.0436	0.0314	-.0002
2706120634MS	11:13	1.173	1.119	1.047	1.220	2.019	0.0544
2706120634MSD	11:17	1.183	1.130	1.066	1.236	2.060	0.0551
CCV	11:21	5.27/5	5.45/5	5.16/5	5.26/5	4.99/5	2.13/2
CCB	11:24	-.0006	0.0018	-.0001	-.0009	0.0014	-.0001
MCV	11:31	2.63/2.5	2.80(2.5)	2.60/2.5	2.69/2.5	2.52/2.5	1.08/1
2706120621	11:34	-.0064	-.0055	0.0007	0.0267	0.0317	-.0002
2706120623	11:39	-.0158	-.0527	0.0037	0.0068	0.1001	-.0004
2706120629	11:43	-.0077	-.0037	0.0008	0.0136	0.0287	-.0001
2706120631	11:47	-.0246	-.0802	0.0011	0.0260	0.0047	-.0005
2706120610	11:52	-.0391	-.0955	0.0018	0.0061	0.0666	-.0007
2706120633	11:56	-.0114	-.0114	0.0006	0.0370	0.0259	-.0002
2706120615	12:01	-.0125	-.0053	0.0006	0.0035	0.0016	-.0002
2706120635	12:05	-.0056	-.0014	0.0004	0.0038	0.0009	-.0002
2706120636	12:09	0.0545	-.0085	0.0010	0.0225	0.0809	-.0002
MBLANK	12:14	-.0028	-.0019	0.0000	-.0014	-.0013	-.0001
CCV	12:17	5.26/5	5.44/5	5.20/5	5.32/5	5.01/5	2.15/2
CCB	12:21	-.0050	0.0002	0.0004	-.0007	0.0005	-.0001
LCS	12:24	1.13/1	1.26(1)	1.00/1	1.13/1	1.97/2	0.052/.05
LCSD	12:28	1.15(1)	1.27(1)	1.02/1	1.14/1	1.98/2	0.053/.05
D706120634	12:31	-.0226	-.0155	0.0006	0.0045	0.0000	-.0003

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D706120634MS	12:36	1.226	1.159	1.081	1.209	2.036	0.0563
D706120634MSD	12:40	1.192	1.129	1.066	1.188	1.989	0.0556
D706120621	12:43	-0.195	-0.083	0.0007	-0.006	0.0014	-0.0002
D706120623	12:48	-0.223	-0.049	0.0034	-0.017	0.0038	-0.0005
D706120629	12:52	-0.156	-0.048	0.0008	-0.015	0.0004	-0.0001
D706120631	12:57	-0.294	-0.076	0.0010	0.0109	0.0025	-0.0004
D706120610	13:01	-0.505	-0.078	0.0016	0.0014	0.0007	-0.0006
CCV	13:06	5.38/5	5.47/5	5.17/5	5.30/5	4.95/5	2.14/2
CCB	13:11	-0.043	-0.008	-0.001	-0.009	-0.006	0.0000
MCV	13:17	2.74/2.5	2.81(2.5)	2.61/2.5	2.73/2.5	2.50/2.5	1.08/1
D706120633	13:21	-0.160	-0.088	0.0005	0.0009	0.0029	-0.0001
D706120615	13:25	-0.139	-0.041	0.0004	0.0015	0.0007	-0.0001
D706120635	13:30	-0.127	-0.042	0.0004	-0.004	-0.001	-0.0001
D706120636	13:34	0.0456	-0.0102	0.0009	-0.030	0.0021	-0.0002
D706120636MS	13:38	1.170	1.136	1.063	1.172	2.027	0.0556
D706120636MSD	13:42	1.186	1.150	1.062	1.175	2.028	0.0555
D706120630_5X	13:46	0.0022	-0.061	0.0031	-0.092	0.0005	-0.0004
D706120632_5X	13:50	-0.292	-0.058	0.0042	0.0265	-0.009	-0.0006
D706110334	13:53	-0.115	-0.043	0.0033	0.0027	0.0211	-0.0001
DN706110337_50X	13:57	-0.528	-0.1528	0.0154	-0.092	-0.0376	-0.0100
CCV	14:01	5.40/5	5.45/5	5.17/5	5.32/5	4.95/5	2.14/2
CCB	14:07	-0.054	0.0005	0.0001	-0.009	0.0004	0.0000
DM706110337_10X	14:11	-0.3232	-0.1375	0.0104	-0.0169	-0.0098	-0.0029
D706120636	14:15	-0.0094	-0.0056	0.0036	0.0109	0.0022	-0.0001
D706120336	14:19	-0.173	-0.067	0.0036	0.0082	0.0031	-0.0002
D706120329	14:23	-0.230	-0.191	0.0024	0.0054	0.0016	-0.0002
D706120317	14:27	-0.077	-0.223	0.0062	-0.029	0.0029	-0.0002
D706120335_2X	14:32	-0.399	-0.1585	0.0540	0.0022	0.0030	-0.0010
WASH	14:39	-0.065	0.0005	-0.000	-0.010	-0.009	-0.000
MBLANK	14:43	-0.036	0.0027	-0.005	-0.013	-0.009	0.0007
LCS	14:47	1.18(1)	1.17(1)	1.06/1	1.68(1)	2.00/2	0.055/.05
CCV	14:50	5.35/5	5.39/5	5.12/5	5.26/5	4.89/5	2.12/2
CCB	14:56	-0.062	0.0003	0.0003	-0.009	-0.012	-0.000
MCV	15:02	2.76(2.5)	2.85(2.5)	2.62/2.5	2.74/2.5	2.46/2.5	1.10/1
LCSD	15:06	1.21(1)	1.20(1)	1.08/1	1.72(1)	2.02/2	0.056/.05
D706120001	15:09	-0.200	-0.176	0.0021	0.0282	0.0097	-0.0001
D706120001MS	15:14	1.205	1.147	1.070	1.184	1.997	0.0556
D706120001MSD	15:18	1.187	1.133	1.061	1.175	1.968	0.0552
D706120005	15:21	-0.045	0.0016	-0.002	0.0068	0.0000	-0.000
ICSA	15:25	-0.28	-0.087	0.000	0.016	N/A	-0.000
ICSRB	15:29	-0.20	-0.080	0.257/.25	0.553/.5	N/A	0.261/.25
Wash	15:33	-0.073	-0.006	-0.002	-0.007	-0.002	-0.000
QC-25 1ppm	15:39	-0.043	0.0016	0.0000	-0.008	-0.006	0.0007
ECV	15:42	5.39/5	5.41/5	5.15/5	5.25/5	4.90/5	2.14/2
ECB	15:51	-0.007	-0.004	-0.000	-0.009	-0.000	-0.000
MRL	15:54	0.108/.1	0.123/.1	0.002/.002	0.021/.02	0.048/.05	0.001/.001
CCV	16:22	5.39/5	5.48/5	5.22/5	5.33/5	4.87/5	2.17/2
CCB	16:25	-0.043	0.0020	0.0001	-0.006	-0.004	-0.000
LCS_B1	16:29	1.19(1)	1.19(1)	1.06/1	1.14/1	1.96/2	0.055/.05
LCSD_B1	16:31	1.20(1)	1.19(1)	1.07/1	1.15(1)	1.97/2	0.056/.05

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Sample ID	Time	SE	TL	V	ZN	ALX	BEX
LCS_B2	16:33	1.15(1)	1.16(1)	1.04/1	1.13/1	1.92/2	0.054/.05
LCSD_B2	16:36	1.14/1	1.16(1)	1.04/1	1.12/1	1.92/2	0.054/.05
2706120525MS	16:49	1.205	1.148	1.081	2.123	2.008	0.0562
2706120525MSD	16:53	1.198	1.143	1.078	2.127	1.991	0.0559
2706120634MS	16:56	1.168	1.056	1.031	1.209	1.943	0.0536
2706120634MSD	16:58	1.239	1.110	1.075	1.264	2.038	0.0560
D706120634MS	17:04	1.173	1.076	1.039	1.150	1.925	0.0541
D706120634MSD	17:06	1.188	1.075	1.036	1.154	1.919	0.0540
CCB	17:10	-.0057	-.0005	0.0004	-.0004	-.0001	-.0000
CCV	17:14	5.53(5)	5.59(5)	5.29/5	5.44/5	4.95/5	2.20/2
D706120636MS	17:18	1.148	1.087	1.032	1.129	1.912	0.0540
D706120636MSD	17:21	1.168	1.096	1.038	1.140	1.925	0.0542
CCB	17:25	0.0015	-.0003	-.0001	-.0006	0.0013	-.0000
CCV	17:32	5.48/5	5.50/5	5.21/5	5.35/5	4.86/5	2.16/2

Nebulizer Parameters: Hg ReAlign

Analyte	Back Pressure	Flow
All	259.0 kPa	0.66 L/min

6/13/2007 07:52:54 Hg ReAlign... Actual peak offset (nm): 0.003
 Drift (nm): -0.000 Slit adjustment: 0

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	295341.1
-1.6	15.0	428403.8
-1.2	15.0	589427.6
-0.8	15.0	759477.7
-0.4	15.0	894879.8
0.0	15.0	973743.9
0.4	15.0	947830.4
0.8	15.0	863393.1
1.2	15.0	727353.4
1.6	15.0	562412.7
2.0	15.0	415684.1
0.0	10.0	8185.2
0.0	10.5	29344.1
0.0	11.0	52158.8
0.0	11.5	82200.2
0.0	12.0	131370.8
0.0	12.5	284328.1
0.0	13.0	400839.7
0.0	13.5	544521.4
0.0	14.0	690096.8
0.0	14.5	932411.0
0.0	15.0	977524.9
0.0	15.5	913239.1
0.0	16.0	806716.8
0.0	16.5	509887.3
0.0	17.0	365403.3
0.0	17.5	254466.0
0.0	18.0	174752.5
0.0	18.5	110715.3
0.0	19.0	24336.4
0.0	19.5	10308.2
0.0	20.0	5302.6
-0.8	15.0	771526.8
-0.4	15.0	892604.8
0.0	15.0	965885.7
0.4	15.0	966499.1
0.8	15.0	866594.1
0.4	13.0	414991.1
0.4	13.5	539071.7
0.4	14.0	693385.0
0.4	14.5	919190.9
0.4	15.0	959054.4
0.4	15.5	920643.9
0.4	16.0	784442.7
0.4	16.5	506943.7
0.4	17.0	371988.0

6/13/2007 07:57:45 aligned for analyte Mn 257.610

X viewing position set to 0.4 mm having Peak intensity 959054.4 for Axial viewing
 Y viewing position set to 15.0 mm having Peak intensity 959054.4 for Axial viewing

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	432175.1
-1.6	15.0	585207.8
-1.2	15.0	758915.4
-0.8	15.0	912882.1
-0.4	15.0	966883.9

0.0	15.0	963481.3
0.4	15.0	876788.5
0.8	15.0	727896.7
1.2	15.0	565160.2
1.6	15.0	423721.1
2.0	15.0	290989.5
-0.4	10.0	7915.9
-0.4	10.5	29388.2
-0.4	11.0	51546.2
-0.4	11.5	81352.3
-0.4	12.0	129322.7
-0.4	12.5	284089.5
-0.4	13.0	399883.1
-0.4	13.5	543233.3
-0.4	14.0	688139.9
-0.4	14.5	929737.3
-0.4	15.0	974807.1
-0.4	15.5	935620.1
-0.4	16.0	811144.1
-0.4	16.5	509996.5
-0.4	17.0	374078.3
-0.4	17.5	251384.9
-0.4	18.0	174601.9
-0.4	18.5	110122.7
-0.4	19.0	24302.1
-0.4	19.5	10411.1
-0.4	20.0	5386.0
-1.2	15.0	765606.3
-0.8	15.0	889191.8
-0.4	15.0	968548.5
0.0	15.0	959204.7
0.4	15.0	862112.2
-0.4	13.0	409006.4
-0.4	13.5	532064.2
-0.4	14.0	682735.1
-0.4	14.5	933816.0
-0.4	15.0	970871.3
-0.4	15.5	922596.4
-0.4	16.0	795799.2
-0.4	16.5	508468.4
-0.4	17.0	369453.0

6/13/2007 07:59:34 aligned for analyte Mn 257.610

X viewing position set to -0.4 mm having Peak intensity 970871.3 for Axial viewing

Y viewing position set to 15.0 mm having Peak intensity 970871.3 for Axial viewing

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	189049.6
-1.6	15.0	287620.2
-1.2	15.0	394298.4
-0.8	15.0	510014.8
-0.4	15.0	600294.4
0.0	15.0	649347.4
0.4	15.0	653334.0
0.8	15.0	584951.1
1.2	15.0	490306.7
1.6	15.0	377955.4
2.0	15.0	277345.5
0.4	10.0	5586.4
0.4	10.5	20524.6
0.4	11.0	35772.0
0.4	11.5	56366.3
0.4	12.0	90748.9
0.4	12.5	193152.2
0.4	13.0	269505.9
0.4	13.5	363501.3
0.4	14.0	459112.5
0.4	14.5	616114.1
0.4	15.0	634907.4

0.4	15.5	602310.2
0.4	16.0	527094.7
0.4	16.5	337140.6
0.4	17.0	242771.7
0.4	17.5	166416.4
0.4	18.0	114290.3
0.4	18.5	72250.9
0.4	19.0	17070.3
0.4	19.5	7300.3
0.4	20.0	3401.5
-0.4	15.0	564856.9
0.0	15.0	603032.8
0.4	15.0	598990.1
0.8	15.0	536489.8
1.2	15.0	448914.8
0.0	13.0	253245.0
0.0	13.5	333033.2
0.0	14.0	426324.7
0.0	14.5	577302.5
0.0	15.0	598526.6
0.0	15.5	561854.9
0.0	16.0	481737.1
0.0	16.5	319327.0
0.0	17.0	230180.2

6/13/2007 08:14:47 aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 598526.6 for Axial viewing

Y viewing position set to 15.0 mm having Peak intensity 598526.6 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	981.7
-6.5	15.0	987.9
-6.0	15.0	959.0
-5.5	15.0	882.5
-5.0	15.0	890.1
-4.5	15.0	1060.8
-4.0	15.0	1455.8
-3.5	15.0	2247.2
-3.0	15.0	3849.8
-2.5	15.0	6820.6
-2.0	15.0	11030.3
-1.5	15.0	19473.5
-1.0	15.0	29192.2
-0.5	15.0	45045.5
0.0	15.0	48001.9
0.5	15.0	42879.6
1.0	15.0	36459.1
1.5	15.0	32246.3
2.0	15.0	27420.7
2.5	15.0	21362.8
3.0	15.0	14730.5
3.5	15.0	8379.3
4.0	15.0	4449.0
4.5	15.0	4276.0
5.0	15.0	3165.9
5.5	15.0	2211.9
6.0	15.0	1521.4
6.5	15.0	1134.8
7.0	15.0	908.8

6/13/2007 08:19:59 aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 48001.9 for Radial viewing

=====
Analysis Begun

Start Time: 6/13/2007 08:41:53

Plasma On Time: 6/13/2007 06:56:17

Logged In Analyst: Owner

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N2121801 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Owner\Sample Information\070613.sif

Batch ID: 070613

Results Data Set: 070613

Results Library: C:\pe\Owner\Results\Results.mdb

=====
Method Loaded

Method Name: 2007_060831

Method Last Saved: 1/18/2007 13:30:10

IEC File: IEC060831.iec

MSF File:

Method Description: 200.7_060831

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Al	Lin, Calc Int	Peak Area	Radial	Yr	Yes
As	Lin, Calc Int	Peak Area	Axial	Sca	Yes
B	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Ba	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Be	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Ca	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Cd	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Co	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Cr	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Cu	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Fe	Lin, Calc Int	Peak Area	Radial	Yr	Yes
K	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Mg	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Mn	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Mo	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Na	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Ni	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Pb	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Sb	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Se	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Tl	Lin, Calc Int	Peak Area	Axial	Sca	Yes
V	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Zn	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Sca	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Yr	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Alx	Lin, Calc Int	Peak Area	Axial	Sca	No
Bex	Lin, Calc Int	Peak Area	Axial	Sca	No

Sequence No.: 1

Autosampler Location: 0

Sample ID: Calib Blank 1

Date Collected: 6/13/2007 08:41:53

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	259.0 kPa	0.65 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sca	420148.9	4176.26	0.99%	100 %
Yr	199726.8	79.67	0.04%	100 %
Ag†	309.3	135.53	43.82%	[0.00] mg/L
Al†	53.9	22.09	41.01%	[0.00] mg/L
As†	-5.4	0.74	13.74%	[0.00] mg/L
B_†	364.9	4.52	1.24%	[0.00] mg/L

Bat	-62.0	0.46	0.74%	[0.00]	mg/L
Be†	-4538.8	97.60	2.15%	[0.00]	mg/L
Cat	452.0	10.84	2.40%	[0.00]	mg/L
Cd†	39.2	0.68	1.73%	[0.00]	mg/L
Cot	-75.3	1.05	1.40%	[0.00]	mg/L
Crt	301.1	1.25	0.41%	[0.00]	mg/L
Cut	2009.9	106.00	5.27%	[0.00]	mg/L
Fet	-28.8	1.60	5.56%	[0.00]	mg/L
K†	96.2	31.39	32.65%	[0.00]	mg/L
Mg†	-11.5	1.53	13.35%	[0.00]	mg/L
Mn†	315.3	1.63	0.52%	[0.00]	mg/L
Mo†	9.4	3.14	33.54%	[0.00]	mg/L
Na†	-1118.6	17.87	1.60%	[0.00]	mg/L
Nit	-64.3	8.86	13.78%	[0.00]	mg/L
Pbt	-34.0	2.46	7.23%	[0.00]	mg/L
Sbt	9.7	0.85	8.76%	[0.00]	mg/L
Se†	-0.0	4.21	>999.9%	[0.00]	mg/L
Tlt	-21.9	1.79	8.16%	[0.00]	mg/L
V†	194.1	26.61	13.71%	[0.00]	mg/L
Zn†	103.3	0.54	0.53%	[0.00]	mg/L
Alx†	288.5	25.31	8.77%	[0.00]	ug/L
Bext	-4538.8	97.60	2.15%	[0.00]	ug/L

Sequence No.: 2
 Sample ID: Standard 2
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 15
 Date Collected: 6/13/2007 08:45:38
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: Standard 2

Analyte	Back Pressure	Flow
All	260.0 kPa	0.65 L/min

Mean Data: Standard 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc. Units	Calib
Sca	382129.4	720.99	0.19%	91.0	%
Yr	187837.2	377.74	0.20%	94.0	%
Ag†	527577.6	818.43	0.16%	[2]	mg/L
Al†	34448.6	164.75	0.48%	[10]	mg/L
As†	19390.8	71.33	0.37%	[10]	mg/L
B_†	160097.6	153.31	0.10%	[5.02]	mg/L
Ba†	698352.4	179.29	0.03%	[10]	mg/L
Be†	11788503.3	33620.17	0.29%	[4.01]	mg/L
Ca†	726265.5	1351.86	0.19%	[100]	mg/L
Cd†	128150.6	283.28	0.22%	[5.01]	mg/L
Co†	251483.4	222.98	0.09%	[10]	mg/L
Cr†	773479.3	262.97	0.03%	[9.97]	mg/L
Cu†	3483213.8	2497.04	0.07%	[10]	mg/L
Fe†	12225.9	7.02	0.06%	[9.98]	mg/L
K†	119116.7	15.01	0.01%	[100]	mg/L
Mg†	404025.7	465.17	0.12%	[100]	mg/L
Mn†	5602605.4	956.92	0.02%	[10]	mg/L
Mo†	117141.8	157.84	0.13%	[9.98]	mg/L
Na†	311248.7	1162.27	0.37%	[100]	mg/L
Ni†	221834.3	148.59	0.07%	[10]	mg/L
Pb†	47277.6	9.93	0.02%	[10]	mg/L
Sb†	18965.8	99.33	0.52%	[10]	mg/L
Se†	12658.4	98.33	0.78%	[10]	mg/L
Tl†	27081.3	60.61	0.22%	[10]	mg/L
V†	1623252.3	1702.29	0.10%	[10]	mg/L
Zn†	467704.1	200.78	0.04%	[10]	mg/L
Alx†	903482.1	5284.96	0.58%	[10000]	ug/L
Bex†	11788503.3	33620.17	0.29%	[4010]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag	1	Lin, Calc Int	0.0	263800	0.00000	1.000000	
Al	1	Lin, Calc Int	0.0	3445	0.00000	1.000000	
As	1	Lin, Calc Int	0.0	1939	0.00000	1.000000	
B_	1	Lin, Calc Int	0.0	31890	0.00000	1.000000	
Ba	1	Lin, Calc Int	0.0	69840	0.00000	1.000000	
Be	1	Lin, Calc Int	0.0	2940000	0.00000	1.000000	
Ca	1	Lin, Calc Int	0.0	7263	0.00000	1.000000	
Cd	1	Lin, Calc Int	0.0	25580	0.00000	1.000000	
Co	1	Lin, Calc Int	0.0	25150	0.00000	1.000000	
Cr	1	Lin, Calc Int	0.0	77580	0.00000	1.000000	
Cu	1	Lin, Calc Int	0.0	348300	0.00000	1.000000	
Fe	1	Lin, Calc Int	0.0	1225	0.00000	1.000000	
K	1	Lin, Calc Int	0.0	1191	0.00000	1.000000	
Mg	1	Lin, Calc Int	-0.0	4040	0.00000	1.000000	
Mn	1	Lin, Calc Int	0.0	560300	0.00000	1.000000	
Mo	1	Lin, Calc Int	0.0	11740	0.00000	1.000000	
Na	1	Lin, Calc Int	0.0	3112	0.00000	1.000000	
Ni	1	Lin, Calc Int	0.0	22180	0.00000	1.000000	
Pb	1	Lin, Calc Int	0.0	4728	0.00000	1.000000	
Sb	1	Lin, Calc Int	0.0	1897	0.00000	1.000000	
Se	1	Lin, Calc Int	0.0	1266	0.00000	1.000000	

Tl	1	Lin, Calc Int	0.0	2708	0.00000	1.000000
V	1	Lin, Calc Int	0.0	162300	0.00000	1.000000
Zn	1	Lin, Calc Int	0.0	46770	0.00000	1.000000
Alx	1	Lin, Calc Int	0.0	90.35	0.00000	1.000000
Bex	1	Lin, Calc Int	0.0	2940	0.00000	1.000000

Sequence No.: 3
 Sample ID: ICV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 15
 Date Collected: 6/13/2007 08:49:02
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte Back Pressure Flow
 All 259.0 kPa 0.65 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	377025.8	89.7 %		0.03			0.04%
Yr	183841.4	92.0 %		0.96			1.04%
Ag†	533449.9	2.02 mg/L		0.007	2.02 mg/L	0.007	0.33%
	QC value within limits for Ag	Recovery = 101.11%					
Al†	35586.6	9.90 mg/L		0.012	9.90 mg/L	0.012	0.13%
	QC value within limits for Al	Recovery = 98.96%					
As†	19668.1	10.2 mg/L		0.03	10.2 mg/L	0.03	0.28%
	QC value within limits for As	Recovery = 101.75%					
B_†	162229.1	5.07 mg/L		0.005	5.07 mg/L	0.005	0.11%
	QC value within limits for B_	Recovery = 101.30%					
Ba†	707912.5	10.1 mg/L		0.04	10.1 mg/L	0.04	0.36%
	QC value within limits for Ba	Recovery = 101.43%					
Be†	11902537.0	4.05 mg/L		0.010	4.05 mg/L	0.010	0.26%
	QC value within limits for Be	Recovery = 101.25%					
Ca†	737037.3	101 mg/L		0.5	101 mg/L	0.5	0.47%
	QC value within limits for Ca	Recovery = 101.48%					
Cd†	129723.2	4.97 mg/L		0.015	4.97 mg/L	0.015	0.30%
	QC value within limits for Cd	Recovery = 99.48%					
Co†	254863.7	10.1 mg/L		0.02	10.1 mg/L	0.02	0.22%
	QC value within limits for Co	Recovery = 101.34%					
Cr†	783869.3	10.1 mg/L		0.01	10.1 mg/L	0.01	0.12%
	QC value within limits for Cr	Recovery = 101.04%					
Cu†	3533603.1	10.1 mg/L		0.06	10.1 mg/L	0.06	0.56%
	QC value within limits for Cu	Recovery = 101.49%					
Fe†	12495.3	10.2 mg/L		0.05	10.2 mg/L	0.05	0.48%
	QC value within limits for Fe	Recovery = 102.05%					
K†	120940.0	102 mg/L		0.6	102 mg/L	0.6	0.61%
	QC value within limits for K	Recovery = 101.53%					
Mg†	410647.3	102 mg/L		0.5	102 mg/L	0.5	0.47%
	QC value within limits for Mg	Recovery = 101.65%					
Mn†	5676652.6	10.1 mg/L		0.03	10.1 mg/L	0.03	0.33%
	QC value within limits for Mn	Recovery = 101.32%					
Mo†	118940.0	10.1 mg/L		0.03	10.1 mg/L	0.03	0.31%
	QC value within limits for Mo	Recovery = 101.33%					
Na†	315895.6	101 mg/L		1.0	101 mg/L	1.0	0.95%
	QC value within limits for Na	Recovery = 101.49%					
Ni†	224454.1	10.1 mg/L		0.01	10.1 mg/L	0.01	0.14%
	QC value within limits for Ni	Recovery = 101.15%					
Pb†	48039.5	10.2 mg/L		0.02	10.2 mg/L	0.02	0.24%
	QC value within limits for Pb	Recovery = 101.61%					
Sb†	19256.5	9.96 mg/L		0.020	9.96 mg/L	0.020	0.20%
	QC value within limits for Sb	Recovery = 99.58%					
Se†	12772.8	10.1 mg/L		0.01	10.1 mg/L	0.01	0.06%
	QC value within limits for Se	Recovery = 101.14%					
Tl†	27532.4	10.2 mg/L		0.02	10.2 mg/L	0.02	0.24%
	QC value within limits for Tl	Recovery = 101.51%					
V†	1645806.9	10.2 mg/L		0.02	10.2 mg/L	0.02	0.21%
	QC value within limits for V	Recovery = 101.90%					
Zn†	473675.9	10.1 mg/L		0.02	10.1 mg/L	0.02	0.22%
	QC value within limits for Zn	Recovery = 100.66%					
Alx†	917332.4	10200 ug/L		68.5	10.2 mg/L	0.07	0.67%
	QC value within limits for Alx	Recovery = 101.53%					
Bex†	11902537.0	4050 ug/L		10.4	4.05 mg/L	0.010	0.26%
	QC value within limits for Bex	Recovery = 101.22%					

All analyte(s) passed QC.

Sequence No.: 4

Sample ID: Linearity Check

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 9

Date Collected: 6/13/2007 08:52:24

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: Linearity Check

Analyte	Back Pressure	Flow
All	259.0 kPa	0.65 L/min

Mean Data: Linearity Check

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	365651.9	87.0 %		0.09			0.10%
Yr	182000.3	91.1 %		0.63			0.69%
Ag†	-7578.7	-0.0287 mg/L		0.00051	-0.0287 mg/L	0.00051	1.78%
	QC value within limits for Ag	Recovery = Not calculated					
Al†	-73.2	-0.0213 mg/L		0.01199	-0.0213 mg/L	0.01199	56.40%
	QC value within limits for Al	Recovery = Not calculated					
As†	-189.4	-0.0977 mg/L		0.00011	-0.0977 mg/L	0.00011	0.11%
	QC value within limits for As	Recovery = Not calculated					
B_†	401.0	0.0126 mg/L		0.00242	0.0126 mg/L	0.00242	19.23%
	QC value within limits for B_	Recovery = Not calculated					
Ba†	90.7	0.00130 mg/L		0.000113	0.00130 mg/L	0.000113	8.70%
	QC value within limits for Ba	Recovery = Not calculated					
Be†	-1070.9	-0.00036 mg/L		0.000004	-0.00036 mg/L	0.000004	1.16%
	QC value within limits for Be	Recovery = Not calculated					
Ca†	2088257.3	288 mg/L		1.8	288 mg/L	1.8	0.64%
	QC value within limits for Ca	Recovery = 95.84%					
Cd†	-23.7	0.00041 mg/L		0.000063	0.00041 mg/L	0.000063	15.46%
	QC value within limits for Cd	Recovery = Not calculated					
Co†	56.7	0.00225 mg/L		0.000277	0.00225 mg/L	0.000277	12.31%
	QC value within limits for Co	Recovery = Not calculated					
Cr†	148.9	0.00192 mg/L		0.000035	0.00192 mg/L	0.000035	1.82%
	QC value within limits for Cr	Recovery = Not calculated					
Cu†	-4604.0	-0.0132 mg/L		0.00014	-0.0132 mg/L	0.00014	1.04%
	QC value within limits for Cu	Recovery = Not calculated					
Fe†	119776.2	97.8 mg/L		0.07	97.8 mg/L	0.07	0.07%
	QC value within limits for Fe	Recovery = 97.77%					
K†	355415.3	298 mg/L		1.7	298 mg/L	1.7	0.56%
	QC value within limits for K	Recovery = 99.46%					
Mg†	747885.7	185 mg/L		0.5	185 mg/L	0.5	0.25%
	QC value within limits for Mg	Recovery = Not calculated					
Mn†	1416.6	0.00253 mg/L		0.000009	0.00253 mg/L	0.000009	0.34%
	QC value within limits for Mn	Recovery = Not calculated					
Mo†	2.6	0.00022 mg/L		0.000502	0.00022 mg/L	0.000502	225.45%
	QC value within limits for Mo	Recovery = Not calculated					
Na†	921855.1	296 mg/L		1.1	296 mg/L	1.1	0.39%
	QC value within limits for Na	Recovery = 98.73%					
Ni†	-13.2	-0.00060 mg/L		0.000003	-0.00060 mg/L	0.000003	0.55%
	QC value within limits for Ni	Recovery = Not calculated					
Pb†	-9.1	-0.00193 mg/L		0.001829	-0.00193 mg/L	0.001829	94.79%
	QC value within limits for Pb	Recovery = Not calculated					
Sb†	20.0	0.0105 mg/L		0.00044	0.0105 mg/L	0.00044	4.15%
	QC value within limits for Sb	Recovery = Not calculated					
Se†	-289.2	0.00190 mg/L		0.011614	0.00190 mg/L	0.011614	610.97%
	QC value within limits for Se	Recovery = Not calculated					
Tl†	52.2	-0.0846 mg/L		0.00039	-0.0846 mg/L	0.00039	0.46%
	QC value within limits for Tl	Recovery = Not calculated					
V†	-432.8	0.00095 mg/L		0.000025	0.00095 mg/L	0.000025	2.64%
	QC value within limits for V	Recovery = Not calculated					
Zn†	858.9	0.0184 mg/L		0.00025	0.0184 mg/L	0.00025	1.37%
	QC value within limits for Zn	Recovery = Not calculated					
Alx†	495.3	5.48 ug/L		1.665	0.00548 mg/L	0.001665	30.38%
	QC value within limits for Alx	Recovery = Not calculated					
Bex†	-1070.9	-0.364 ug/L		0.0042	-0.00036 mg/L	0.000004	1.16%
	QC value within limits for Bex	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 5

Sample ID: ICSA

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 10

Date Collected: 6/13/2007 08:56:10

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	258.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	365792.8	87.1 %		0.08			0.10%
Yr	179943.5	90.1 %		0.11			0.12%
Ag†	-7998.2	-0.0303 mg/L		0.00012	-0.0303 mg/L	0.00012	0.39%
QC value within limits for Ag		Recovery = Not calculated					
Al†	869617.5	252 mg/L		0.1	252 mg/L	0.1	0.05%
QC value within limits for Al		Recovery = 100.98%					
As†	-453.3	-0.234 mg/L		0.0034	-0.234 mg/L	0.0034	1.46%
QC value within limits for As		Recovery = Not calculated					
B_†	2425.4	0.0760 mg/L		0.00078	0.0760 mg/L	0.00078	1.02%
QC value within limits for B_		Recovery = Not calculated					
Ba†	148.3	0.00212 mg/L		0.000036	0.00212 mg/L	0.000036	1.68%
QC value within limits for Ba		Recovery = Not calculated					
Be†	-1120.5	-0.00038 mg/L		0.000026	-0.00038 mg/L	0.000026	6.83%
QC value within limits for Be		Recovery = Not calculated					
Ca†	1850413.7	255 mg/L		0.8	255 mg/L	0.8	0.33%
QC value within limits for Ca		Recovery = 101.91%					
Cd†	-38.5	0.00168 mg/L		0.000192	0.00168 mg/L	0.000192	11.45%
QC value within limits for Cd		Recovery = Not calculated					
Co†	23.0	0.00091 mg/L		0.000164	0.00091 mg/L	0.000164	17.94%
QC value within limits for Co		Recovery = Not calculated					
Cr†	-41.4	-0.00053 mg/L		0.000129	-0.00053 mg/L	0.000129	24.22%
QC value within limits for Cr		Recovery = Not calculated					
Cu†	-4865.6	-0.0140 mg/L		0.00030	-0.0140 mg/L	0.00030	2.18%
QC value within limits for Cu		Recovery = Not calculated					
Fe†	124507.7	102 mg/L		0.2	102 mg/L	0.2	0.19%
QC value within limits for Fe		Recovery = 101.64%					
K†	297.5	0.250 mg/L		0.0296	0.250 mg/L	0.0296	11.86%
QC value within limits for K		Recovery = Not calculated					
Mg†	985011.7	244 mg/L		0.6	244 mg/L	0.6	0.26%
QC value within limits for Mg		Recovery = 97.57%					
Mn†	1093.1	0.00195 mg/L		0.000066	0.00195 mg/L	0.000066	3.36%
QC value within limits for Mn		Recovery = Not calculated					
Mo†	-22.2	-0.00189 mg/L		0.000192	-0.00189 mg/L	0.000192	10.14%
QC value within limits for Mo		Recovery = Not calculated					
Na†	310.4	0.0997 mg/L		0.00913	0.0997 mg/L	0.00913	9.15%
QC value within limits for Na		Recovery = Not calculated					
Ni†	-29.1	-0.00132 mg/L		0.000276	-0.00132 mg/L	0.000276	20.98%
QC value within limits for Ni		Recovery = Not calculated					
Pb†	-186.2	-0.0394 mg/L		0.00047	-0.0394 mg/L	0.00047	1.20%
QC value within limits for Pb		Recovery = Not calculated					
Sb†	19.6	0.0104 mg/L		0.00449	0.0104 mg/L	0.00449	43.34%
QC value within limits for Sb		Recovery = Not calculated					
Se†	-322.0	-0.0149 mg/L		0.00314	-0.0149 mg/L	0.00314	21.05%
QC value within limits for Se		Recovery = Not calculated					
Tl†	40.2	-0.0772 mg/L		0.00386	-0.0772 mg/L	0.00386	5.00%
QC value within limits for Tl		Recovery = Not calculated					
V†	-495.5	0.00069 mg/L		0.000113	0.00069 mg/L	0.000113	16.43%
QC value within limits for V		Recovery = Not calculated					
Zn†	702.1	0.0150 mg/L		0.00016	0.0150 mg/L	0.00016	1.05%
QC value within limits for Zn		Recovery = Not calculated					
Alx†	Saturated2						
Unable to evaluate QC.							
Bex†	-1120.5	-0.381 ug/L		0.0260	-0.00038 mg/L	0.000026	6.83%
QC value within limits for Bex		Recovery = Not calculated					

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 6
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 11
 Date Collected: 6/13/2007 08:59:55
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	259.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected		Calib Units	Std.Dev.	Sample		Std.Dev.	RSD
	Intensity	Conc.			Conc.	Units		
Sca	371251.9	88.4 %		0.88				1.00%
Yr	182506.2	91.4 %		1.13				1.24%
Ag†	2013.7	0.00763 mg/L		0.000629	0.00763 mg/L		0.000629	8.24%
	QC value less than the lower limit for Ag Recovery = 1.53%							
Al†	861246.5	250 mg/L		4.4	250 mg/L		4.4	1.75%
	QC value within limits for Al Recovery = 100.00%							
As†	-442.5	-0.227 mg/L		0.0041	-0.227 mg/L		0.0041	1.80%
	QC value less than the lower limit for As Recovery = Not calculated							
B_†	2190.1	0.0682 mg/L		0.00015	0.0682 mg/L		0.00015	0.21%
	QC value greater than the upper limit for B Recovery = Not calculated							
Ba†	18114.8	0.260 mg/L		0.0016	0.260 mg/L		0.0016	0.63%
	QC value within limits for Ba Recovery = 103.81%							
Be†	741080.0	0.252 mg/L		0.0011	0.252 mg/L		0.0011	0.44%
	QC value within limits for Be Recovery = 100.85%							
Ca†	1836870.5	253 mg/L		3.8	253 mg/L		3.8	1.52%
	QC value within limits for Ca Recovery = 101.17%							
Cd†	12733.7	0.502 mg/L		0.0031	0.502 mg/L		0.0031	0.62%
	QC value within limits for Cd Recovery = 100.38%							
Co†	6086.9	0.242 mg/L		0.0022	0.242 mg/L		0.0022	0.91%
	QC value within limits for Co Recovery = 96.82%							
Cr†	19238.1	0.248 mg/L		0.0014	0.248 mg/L		0.0014	0.55%
	QC value within limits for Cr Recovery = 99.19%							
Cu†	86694.8	0.249 mg/L		0.0013	0.249 mg/L		0.0013	0.54%
	QC value within limits for Cu Recovery = 99.64%							
Fe†	122628.4	100 mg/L		0.1	100 mg/L		0.1	0.14%
	QC value within limits for Fe Recovery = 100.10%							
K†	161.4	0.136 mg/L		0.0035	0.136 mg/L		0.0035	2.59%
	QC value within limits for K Recovery = Not calculated							
Mg†	974882.7	241 mg/L		4.0	241 mg/L		4.0	1.66%
	QC value within limits for Mg Recovery = 96.57%							
Mn†	147153.9	0.263 mg/L		0.0019	0.263 mg/L		0.0019	0.73%
	QC value within limits for Mn Recovery = 105.06%							
Mo†	-23.2	-0.00198 mg/L		0.000061	-0.00198 mg/L		0.000061	3.09%
	QC value within limits for Mo Recovery = Not calculated							
Na†	135.2	0.0434 mg/L		0.01273	0.0434 mg/L		0.01273	29.30%
	QC value within limits for Na Recovery = Not calculated							
Ni†	10405.9	0.469 mg/L		0.0019	0.469 mg/L		0.0019	0.40%
	QC value within limits for Ni Recovery = 93.82%							
Pb†	2207.3	0.467 mg/L		0.0029	0.467 mg/L		0.0029	0.61%
	QC value within limits for Pb Recovery = 93.38%							
Sb†	13.1	0.00236 mg/L		0.002276	0.00236 mg/L		0.002276	96.27%
	QC value within limits for Sb Recovery = Not calculated							
Se†	-316.7	-0.0143 mg/L		0.00339	-0.0143 mg/L		0.00339	23.64%
	QC value within limits for Se Recovery = Not calculated							
Tl†	30.3	-0.0787 mg/L		0.00201	-0.0787 mg/L		0.00201	2.55%
	QC value less than the lower limit for Tl Recovery = Not calculated							
V†	40368.4	0.254 mg/L		0.0018	0.254 mg/L		0.0018	0.72%
	QC value within limits for V Recovery = 101.41%							
Zn†	24970.1	0.531 mg/L		0.0030	0.531 mg/L		0.0030	0.56%
	QC value within limits for Zn Recovery = 106.21%							
Alx†	Saturated2							
	Unable to evaluate QC.							
Bex†	741080.0	252 ug/L		1.1	0.252 mg/L		0.0011	0.44%
	QC value within limits for Bex Recovery = 100.83%							

QC Failed. Continue with analysis.

Sequence No.: 7
 Sample ID: Wash
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/13/2007 09:03:41
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: Wash

Analyte Back Pressure Flow
 All 259.0 kPa 0.65 L/min

Mean Data: Wash

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	406943.7	96.9 %		0.42			0.43%
Yr	196814.2	98.5 %		1.60			1.62%
Ag†	172.4	0.00065 mg/L		0.000543	0.00065 mg/L	0.000543	83.01%
	QC value within limits for Ag	Recovery = Not calculated					
Al†	-46.8	-0.0136 mg/L		0.00758	-0.0136 mg/L	0.00758	55.70%
	QC value within limits for Al	Recovery = Not calculated					
As†	5.2	0.00271 mg/L		0.001706	0.00271 mg/L	0.001706	63.07%
	QC value within limits for As	Recovery = Not calculated					
B_†	340.4	0.0107 mg/L		0.00012	0.0107 mg/L	0.00012	1.14%
	QC value within limits for B_	Recovery = Not calculated					
Ba†	-1.9	-0.00003 mg/L		0.000071	-0.00003 mg/L	0.000071	255.36%
	QC value within limits for Ba	Recovery = Not calculated					
Be†	-91.3	-0.00003 mg/L		0.000001	-0.00003 mg/L	0.000001	4.02%
	QC value within limits for Be	Recovery = Not calculated					
Ca†	-0.5	-0.00007 mg/L		0.000668	-0.00007 mg/L	0.000668	993.27%
	QC value within limits for Ca	Recovery = Not calculated					
Cd†	2.8	0.00007 mg/L		0.000102	0.00007 mg/L	0.000102	138.15%
	QC value within limits for Cd	Recovery = Not calculated					
Co†	0.1	0.00001 mg/L		0.000277	0.00001 mg/L	0.000277	>999.9%
	QC value within limits for Co	Recovery = Not calculated					
Cr†	16.2	0.00021 mg/L		0.000063	0.00021 mg/L	0.000063	30.03%
	QC value within limits for Cr	Recovery = Not calculated					
Cu†	47.7	0.00014 mg/L		0.000039	0.00014 mg/L	0.000039	28.40%
	QC value within limits for Cu	Recovery = Not calculated					
Fe†	7.6	0.00624 mg/L		0.000120	0.00624 mg/L	0.000120	1.92%
	QC value within limits for Fe	Recovery = Not calculated					
K†	19.0	0.0159 mg/L		0.02711	0.0159 mg/L	0.02711	170.38%
	QC value within limits for K	Recovery = Not calculated					
Mg†	15.2	0.00376 mg/L		0.000368	0.00376 mg/L	0.000368	9.79%
	QC value within limits for Mg	Recovery = Not calculated					
Mn†	-209.2	-0.00037 mg/L		0.000037	-0.00037 mg/L	0.000037	9.83%
	QC value within limits for Mn	Recovery = Not calculated					
Mo†	0.6	0.00005 mg/L		0.000038	0.00005 mg/L	0.000038	72.57%
	QC value within limits for Mo	Recovery = Not calculated					
Na†	58.8	0.0189 mg/L		0.00524	0.0189 mg/L	0.00524	27.75%
	QC value within limits for Na	Recovery = Not calculated					
Ni†	-10.2	-0.00046 mg/L		0.000034	-0.00046 mg/L	0.000034	7.28%
	QC value within limits for Ni	Recovery = Not calculated					
Pb†	3.9	0.00082 mg/L		0.000353	0.00082 mg/L	0.000353	43.25%
	QC value within limits for Pb	Recovery = Not calculated					
Sb†	-1.2	-0.00063 mg/L		0.001961	-0.00063 mg/L	0.001961	312.07%
	QC value within limits for Sb	Recovery = Not calculated					
Se†	-3.8	-0.00297 mg/L		0.001948	-0.00297 mg/L	0.001948	65.60%
	QC value within limits for Se	Recovery = Not calculated					
Tl†	2.7	0.00098 mg/L		0.000820	0.00098 mg/L	0.000820	83.30%
	QC value within limits for Tl	Recovery = Not calculated					
V†	14.3	0.00009 mg/L		0.000105	0.00009 mg/L	0.000105	117.56%
	QC value within limits for V	Recovery = Not calculated					
Zn†	0.0	0.00000 mg/L		0.000134	0.00000 mg/L	0.000134	>999.9%
	QC value within limits for Zn	Recovery = Not calculated					
Alx†	49.4	0.547 ug/L		0.6463	0.00055 mg/L	0.000646	118.17%
	QC value within limits for Alx	Recovery = Not calculated					
Bex†	-91.3	-0.0311 ug/L		0.00126	-0.00003 mg/L	0.000001	4.06%
	QC value within limits for Bex	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 8
 Sample ID: QC-25 lppm
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 12
 Date Collected: 6/13/2007 09:07:06
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: QC-25 lppm

Analyte Back Pressure Flow
 All 259.0 kPa 0.65 L/min

Mean Data: QC-25 lppm

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	413735.1	98.5 %	0.59			0.60%
Yr	196031.3	98.1 %	0.92			0.94%
Ag†	256951.3	0.974 mg/L	0.0041	0.974 mg/L	0.0041	0.42%
	QC value within limits for Ag	Recovery = 97.41%				
Al†	3604.7	1.00 mg/L	0.013	1.00 mg/L	0.013	1.32%
	QC value within limits for Al	Recovery = 100.40%				
As†	1949.4	1.01 mg/L	0.004	1.01 mg/L	0.004	0.37%
	QC value within limits for As	Recovery = 100.84%				
B_†	29774.2	0.931 mg/L	0.0053	0.931 mg/L	0.0053	0.57%
	QC value within limits for B_	Recovery = 93.13%				
Ba†	74894.4	1.07 mg/L	0.006	1.07 mg/L	0.006	0.55%
	QC value within limits for Ba	Recovery = 107.30%				
Be†	2950056.0	1.00 mg/L	0.001	1.00 mg/L	0.001	0.11%
	QC value within limits for Be	Recovery = 100.36%				
Ca†	7726.5	1.06 mg/L	0.011	1.06 mg/L	0.011	1.03%
	QC value within limits for Ca	Recovery = 106.39%				
Cd†	25720.2	0.996 mg/L	0.0037	0.996 mg/L	0.0037	0.38%
	QC value within limits for Cd	Recovery = 99.61%				
Co†	26965.8	1.07 mg/L	0.003	1.07 mg/L	0.003	0.26%
	QC value within limits for Co	Recovery = 107.23%				
Cr†	79407.2	1.02 mg/L	0.005	1.02 mg/L	0.005	0.49%
	QC value within limits for Cr	Recovery = 102.35%				
Cu†	357071.8	1.03 mg/L	0.000	1.03 mg/L	0.000	0.04%
	QC value within limits for Cu	Recovery = 102.56%				
Fe†	1287.0	1.05 mg/L	0.015	1.05 mg/L	0.015	1.40%
	QC value within limits for Fe	Recovery = 105.10%				
K†	11685.8	9.81 mg/L	0.111	9.81 mg/L	0.111	1.13%
	QC value within limits for K	Recovery = 98.10%				
Mg†	4476.6	1.11 mg/L	0.013	1.11 mg/L	0.013	1.14%
	QC value greater than the upper limit for Mg	Recovery = 110.93%				
Mn†	602806.2	1.08 mg/L	0.002	1.08 mg/L	0.002	0.15%
	QC value within limits for Mn	Recovery = 107.59%				
Mo†	11600.9	0.988 mg/L	0.0046	0.988 mg/L	0.0046	0.47%
	QC value within limits for Mo	Recovery = 98.84%				
Na†	3397.8	1.09 mg/L	0.020	1.09 mg/L	0.020	1.83%
	QC value within limits for Na	Recovery = 109.17%				
Ni†	23849.5	1.07 mg/L	0.001	1.07 mg/L	0.001	0.13%
	QC value within limits for Ni	Recovery = 107.48%				
Pb†	5197.3	1.10 mg/L	0.004	1.10 mg/L	0.004	0.40%
	QC value within limits for Pb	Recovery = 109.93%				
Sb†	1877.1	0.970 mg/L	0.0026	0.970 mg/L	0.0026	0.27%
	QC value within limits for Sb	Recovery = 96.99%				
Se†	1235.7	0.979 mg/L	0.0022	0.979 mg/L	0.0022	0.22%
	QC value within limits for Se	Recovery = 97.87%				
Tl†	2993.6	1.11 mg/L	0.006	1.11 mg/L	0.006	0.55%
	QC value greater than the upper limit for Tl	Recovery = 110.73%				
V†	160234.9	0.992 mg/L	0.0044	0.992 mg/L	0.0044	0.45%
	QC value within limits for V	Recovery = 99.23%				
Zn†	48918.4	1.04 mg/L	0.004	1.04 mg/L	0.004	0.37%
	QC value within limits for Zn	Recovery = 103.94%				
Alx†	89810.2	994 ug/L	1.4	0.994 mg/L	0.0014	0.14%
	QC value within limits for Alx	Recovery = 99.40%				
Bex†	2950056.0	1000 ug/L	1.1	1.00 mg/L	0.001	0.11%
	QC value within limits for Bex	Recovery = 100.35%				

QC Failed. Retry.

Sequence No.: 9

Sample ID: QC-25 1ppm

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 12

Date Collected: 6/13/2007 09:09:58

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte

Back Pressure

Flow

All

259.0 kPa

0.65 L/min

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	409677.4	97.5 %		0.86			0.88%
Yr	194461.4	97.4 %		0.37			0.38%
Ag†	254327.6	0.964 mg/L		0.0149	0.964 mg/L	0.0149	1.54%
QC value within limits for Ag		Recovery = 96.41%					
Al†	3608.8	1.00 mg/L		0.009	1.00 mg/L	0.009	0.93%
QC value within limits for Al		Recovery = 100.49%					
As†	1956.0	1.01 mg/L		0.009	1.01 mg/L	0.009	0.90%
QC value within limits for As		Recovery = 101.19%					
B_†	30044.7	0.940 mg/L		0.0104	0.940 mg/L	0.0104	1.10%
QC value within limits for B_		Recovery = 93.98%					
Ba†	75187.4	1.08 mg/L		0.014	1.08 mg/L	0.014	1.34%
QC value within limits for Ba		Recovery = 107.72%					
Be†	2944091.2	1.00 mg/L		0.004	1.00 mg/L	0.004	0.44%
QC value within limits for Be		Recovery = 100.16%					
Ca†	7759.4	1.07 mg/L		0.005	1.07 mg/L	0.005	0.46%
QC value within limits for Ca		Recovery = 106.84%					
Cd†	25788.7	0.999 mg/L		0.0128	0.999 mg/L	0.0128	1.29%
QC value within limits for Cd		Recovery = 99.88%					
Co†	27054.6	1.08 mg/L		0.014	1.08 mg/L	0.014	1.33%
QC value within limits for Co		Recovery = 107.58%					
Cr†	79786.3	1.03 mg/L		0.010	1.03 mg/L	0.010	0.96%
QC value within limits for Cr		Recovery = 102.84%					
Cu†	357471.5	1.03 mg/L		0.003	1.03 mg/L	0.003	0.25%
QC value within limits for Cu		Recovery = 102.67%					
Fe†	1294.6	1.06 mg/L		0.008	1.06 mg/L	0.008	0.77%
QC value within limits for Fe		Recovery = 105.73%					
K†	11658.8	9.79 mg/L		0.077	9.79 mg/L	0.077	0.79%
QC value within limits for K		Recovery = 97.88%					
Mg†	4490.7	1.11 mg/L		0.004	1.11 mg/L	0.004	0.33%
QC value greater than the upper limit for Mg		Recovery = 111.28%					
Mn†	602143.4	1.07 mg/L		0.003	1.07 mg/L	0.003	0.24%
QC value within limits for Mn		Recovery = 107.48%					
Mo†	11683.6	0.995 mg/L		0.0081	0.995 mg/L	0.0081	0.81%
QC value within limits for Mo		Recovery = 99.54%					
Na†	3373.6	1.08 mg/L		0.001	1.08 mg/L	0.001	0.07%
QC value within limits for Na		Recovery = 108.39%					
Ni†	23920.5	1.08 mg/L		0.013	1.08 mg/L	0.013	1.19%
QC value within limits for Ni		Recovery = 107.79%					
Pb†	5219.8	1.10 mg/L		0.006	1.10 mg/L	0.006	0.57%
QC value greater than the upper limit for Pb		Recovery = 110.41%					
Sb†	1884.7	0.974 mg/L		0.0037	0.974 mg/L	0.0037	0.38%
QC value within limits for Sb		Recovery = 97.39%					
Se†	1242.3	0.984 mg/L		0.0005	0.984 mg/L	0.0005	0.05%
QC value within limits for Se		Recovery = 98.39%					
Tl†	3014.4	1.11 mg/L		0.008	1.11 mg/L	0.008	0.71%
QC value greater than the upper limit for Tl		Recovery = 111.50%					
V†	161248.7	0.999 mg/L		0.0091	0.999 mg/L	0.0091	0.91%
QC value within limits for V		Recovery = 99.86%					
Zn†	49154.8	1.04 mg/L		0.011	1.04 mg/L	0.011	1.07%
QC value within limits for Zn		Recovery = 104.44%					
Alx†	90297.3	999 ug/L		7.4	0.999 mg/L	0.0074	0.74%
QC value within limits for Alx		Recovery = 99.94%					
Bex†	2944091.2	1000 ug/L		4.4	1.00 mg/L	0.004	0.44%

QC value within limits for Bex Recovery = 100.15%
QC Failed. Continue with analysis.

Sequence No.: 10
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 6/13/2007 09:14:18
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte Back Pressure Flow
 All 259.0 kPa 0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	387542.1	92.2 %		0.26			0.29%
Yr	190565.0	95.4 %		0.56			0.59%
Ag†	246192.1	0.933 mg/L		0.0005	0.933 mg/L	0.0005	0.06%
QC value within limits for Ag		Recovery = 93.33%					
Al†	17705.4	4.92 mg/L		0.071	4.92 mg/L	0.071	1.45%
QC value within limits for Al		Recovery = 98.47%					
As†	9512.3	4.92 mg/L		0.007	4.92 mg/L	0.007	0.14%
QC value within limits for As		Recovery = 98.43%					
B_†	78944.5	2.46 mg/L		0.001	2.46 mg/L	0.001	0.02%
QC value within limits for B_		Recovery = 98.58%					
Ba†	357234.6	5.12 mg/L		0.005	5.12 mg/L	0.005	0.10%
QC value within limits for Ba		Recovery = 102.37%					
Be†	6074928.5	2.07 mg/L		0.003	2.07 mg/L	0.003	0.14%
QC value within limits for Be		Recovery = 103.35%					
Ca†	371641.5	51.2 mg/L		0.13	51.2 mg/L	0.13	0.25%
QC value within limits for Ca		Recovery = 102.34%					
Cd†	65148.4	2.50 mg/L		0.002	2.50 mg/L	0.002	0.06%
QC value within limits for Cd		Recovery = 100.02%					
Co†	128297.2	5.10 mg/L		0.007	5.10 mg/L	0.007	0.14%
QC value within limits for Co		Recovery = 102.03%					
Cr†	389152.0	5.02 mg/L		0.003	5.02 mg/L	0.003	0.06%
QC value within limits for Cr		Recovery = 100.32%					
Cu†	1771614.4	5.09 mg/L		0.007	5.09 mg/L	0.007	0.14%
QC value within limits for Cu		Recovery = 101.77%					
Fe†	6327.6	5.17 mg/L		0.080	5.17 mg/L	0.080	1.55%
QC value within limits for Fe		Recovery = 103.35%					
K†	58399.7	49.0 mg/L		0.21	49.0 mg/L	0.21	0.42%
QC value within limits for K		Recovery = 98.05%					
Mg†	208512.9	51.6 mg/L		0.10	51.6 mg/L	0.10	0.20%
QC value within limits for Mg		Recovery = 103.23%					
Mn†	2890751.5	5.16 mg/L		0.000	5.16 mg/L	0.000	0.00%
QC value within limits for Mn		Recovery = 103.19%					
Mo†	59103.3	5.04 mg/L		0.006	5.04 mg/L	0.006	0.12%
QC value within limits for Mo		Recovery = 100.71%					
Na†	156736.0	50.4 mg/L		0.09	50.4 mg/L	0.09	0.18%
QC value within limits for Na		Recovery = 100.71%					
Ni†	113960.3	5.14 mg/L		0.008	5.14 mg/L	0.008	0.16%
QC value within limits for Ni		Recovery = 102.71%					
Pb†	24588.5	5.20 mg/L		0.004	5.20 mg/L	0.004	0.07%
QC value within limits for Pb		Recovery = 104.02%					
Sb†	9392.1	4.86 mg/L		0.013	4.86 mg/L	0.013	0.26%
QC value within limits for Sb		Recovery = 97.10%					
Se†	6460.1	5.12 mg/L		0.022	5.12 mg/L	0.022	0.42%
QC value within limits for Se		Recovery = 102.31%					
Tl†	14435.8	5.32 mg/L		0.005	5.32 mg/L	0.005	0.10%
QC value within limits for Tl		Recovery = 106.46%					
V†	817645.3	5.06 mg/L		0.003	5.06 mg/L	0.003	0.06%
QC value within limits for V		Recovery = 101.25%					
Zn†	241447.3	5.13 mg/L		0.006	5.13 mg/L	0.006	0.12%
QC value within limits for Zn		Recovery = 102.62%					
Alx†	453129.0	5020 ug/L		21.0	5.02 mg/L	0.021	0.42%
QC value within limits for Alx		Recovery = 100.31%					
Bex†	6074928.5	2070 ug/L		3.0	2.07 mg/L	0.003	0.14%
QC value within limits for Bex		Recovery = 103.32%					

All analyte(s) passed QC.

Sequence No.: 11
 Sample ID: ICB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/13/2007 09:17:34
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	259.0 kPa	0.65 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	404484.2	96.3 %	0.81			0.84%
Yr	197391.8	98.8 %	0.82			0.83%
Ag†	119.5	0.00045 mg/L	0.000031	0.00045 mg/L	0.000031	6.79%
QC value within limits for Ag		Recovery = Not calculated				
Al†	-58.0	-0.0169 mg/L	0.00662	-0.0169 mg/L	0.00662	39.18%
QC value within limits for Al		Recovery = Not calculated				
As†	30.8	0.0159 mg/L	0.00013	0.0159 mg/L	0.00013	0.84%
QC value within limits for As		Recovery = Not calculated				
B_†	690.6	0.0217 mg/L	0.00081	0.0217 mg/L	0.00081	3.72%
QC value greater than the upper limit for B		Recovery = Not calculated				
Ba†	1.5	0.00002 mg/L	0.000005	0.00002 mg/L	0.000005	22.27%
QC value within limits for Ba		Recovery = Not calculated				
Be†	-5.4	0.00000 mg/L	0.000013	0.00000 mg/L	0.000013	720.67%
QC value within limits for Be		Recovery = Not calculated				
Ca†	-0.9	-0.00013 mg/L	0.000071	-0.00013 mg/L	0.000071	55.97%
QC value within limits for Ca		Recovery = Not calculated				
Cd†	10.7	0.00020 mg/L	0.000007	0.00020 mg/L	0.000007	3.33%
QC value within limits for Cd		Recovery = Not calculated				
Co†	-6.7	-0.00027 mg/L	0.000151	-0.00027 mg/L	0.000151	56.96%
QC value within limits for Co		Recovery = Not calculated				
Cr†	6.9	0.00009 mg/L	0.000143	0.00009 mg/L	0.000143	161.86%
QC value within limits for Cr		Recovery = Not calculated				
Cu†	129.5	0.00037 mg/L	0.000150	0.00037 mg/L	0.000150	40.44%
QC value within limits for Cu		Recovery = Not calculated				
Fe†	3.1	0.00257 mg/L	0.000720	0.00257 mg/L	0.000720	28.02%
QC value within limits for Fe		Recovery = Not calculated				
K†	140.0	0.118 mg/L	0.0134	0.118 mg/L	0.0134	11.39%
QC value within limits for K		Recovery = Not calculated				
Mg†	5.2	0.00130 mg/L	0.001929	0.00130 mg/L	0.001929	148.91%
QC value within limits for Mg		Recovery = Not calculated				
Mn†	-125.6	-0.00022 mg/L	0.000019	-0.00022 mg/L	0.000019	8.28%
QC value within limits for Mn		Recovery = Not calculated				
Mo†	12.9	0.00110 mg/L	0.000176	0.00110 mg/L	0.000176	15.96%
QC value within limits for Mo		Recovery = Not calculated				
Na†	17.8	0.00572 mg/L	0.011732	0.00572 mg/L	0.011732	205.04%
QC value within limits for Na		Recovery = Not calculated				
Ni†	-6.3	-0.00028 mg/L	0.000344	-0.00028 mg/L	0.000344	121.97%
QC value within limits for Ni		Recovery = Not calculated				
Pb†	6.4	0.00135 mg/L	0.001144	0.00135 mg/L	0.001144	84.74%
QC value within limits for Pb		Recovery = Not calculated				
Sb†	16.7	0.00881 mg/L	0.001985	0.00881 mg/L	0.001985	22.54%
QC value within limits for Sb		Recovery = Not calculated				
Se†	4.4	0.00352 mg/L	0.005715	0.00352 mg/L	0.005715	162.49%
QC value within limits for Se		Recovery = Not calculated				
Tl†	3.7	0.00135 mg/L	0.002980	0.00135 mg/L	0.002980	221.13%
QC value within limits for Tl		Recovery = Not calculated				
V†	14.0	0.00009 mg/L	0.000280	0.00009 mg/L	0.000280	320.36%
QC value within limits for V		Recovery = Not calculated				
Zn†	2.1	0.00005 mg/L	0.000042	0.00005 mg/L	0.000042	90.45%
QC value within limits for Zn		Recovery = Not calculated				
Alx†	37.0	0.409 ug/L	0.4309	0.00041 mg/L	0.000431	105.34%
QC value within limits for Alx		Recovery = Not calculated				
Bex†	-5.4	-0.00185 ug/L	0.013291	0.00000 mg/L	0.000013	717.33%
QC value within limits for Bex		Recovery = Not calculated				

QC Failed. Retry.

Sequence No.: 12
 Sample ID: ICB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/13/2007 09:20:09
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte Back Pressure Flow
 All 259.0 kPa 0.65 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	407048.5	96.9 %		0.30			0.31%
Yr	196752.7	98.5 %		0.20			0.21%
Ag†	83.1	0.00031 mg/L		0.000113	0.00031 mg/L	0.000113	36.03%
	QC value within limits for Ag	Recovery = Not calculated					
Al†	-51.1	-0.0149 mg/L		0.01227	-0.0149 mg/L	0.01227	82.60%
	QC value within limits for Al	Recovery = Not calculated					
As†	19.4	0.00999 mg/L		0.001000	0.00999 mg/L	0.001000	10.01%
	QC value within limits for As	Recovery = Not calculated					
B_†	515.9	0.0162 mg/L		0.00004	0.0162 mg/L	0.00004	0.27%
	QC value within limits for B_	Recovery = Not calculated					
Ba†	-5.3	-0.00008 mg/L		0.000011	-0.00008 mg/L	0.000011	14.29%
	QC value within limits for Ba	Recovery = Not calculated					
Be†	-108.5	-0.00004 mg/L		0.000009	-0.00004 mg/L	0.000009	24.32%
	QC value within limits for Be	Recovery = Not calculated					
Ca†	-8.1	-0.00112 mg/L		0.000618	-0.00112 mg/L	0.000618	55.27%
	QC value within limits for Ca	Recovery = Not calculated					
Cd†	9.8	0.00025 mg/L		0.000062	0.00025 mg/L	0.000062	25.14%
	QC value within limits for Cd	Recovery = Not calculated					
Co†	1.6	0.00006 mg/L		0.000004	0.00006 mg/L	0.000004	5.94%
	QC value within limits for Co	Recovery = Not calculated					
Cr†	16.6	0.00021 mg/L		0.000042	0.00021 mg/L	0.000042	19.50%
	QC value within limits for Cr	Recovery = Not calculated					
Cu†	64.2	0.00018 mg/L		0.000004	0.00018 mg/L	0.000004	2.17%
	QC value within limits for Cu	Recovery = Not calculated					
Fe†	3.2	0.00263 mg/L		0.001731	0.00263 mg/L	0.001731	65.83%
	QC value within limits for Fe	Recovery = Not calculated					
K†	44.5	0.0374 mg/L		0.00848	0.0374 mg/L	0.00848	22.66%
	QC value within limits for K	Recovery = Not calculated					
Mg†	6.0	0.00150 mg/L		0.000445	0.00150 mg/L	0.000445	29.76%
	QC value within limits for Mg	Recovery = Not calculated					
Mn†	-124.4	-0.00022 mg/L		0.000011	-0.00022 mg/L	0.000011	5.14%
	QC value within limits for Mn	Recovery = Not calculated					
Mo†	7.2	0.00061 mg/L		0.000042	0.00061 mg/L	0.000042	6.86%
	QC value within limits for Mo	Recovery = Not calculated					
Na†	25.8	0.00829 mg/L		0.006483	0.00829 mg/L	0.006483	78.21%
	QC value within limits for Na	Recovery = Not calculated					
Ni†	-6.6	-0.00030 mg/L		0.000090	-0.00030 mg/L	0.000090	30.41%
	QC value within limits for Ni	Recovery = Not calculated					
Pb†	6.9	0.00147 mg/L		0.000738	0.00147 mg/L	0.000738	50.27%
	QC value within limits for Pb	Recovery = Not calculated					
Sb†	9.5	0.00502 mg/L		0.000429	0.00502 mg/L	0.000429	8.56%
	QC value within limits for Sb	Recovery = Not calculated					
Se†	-2.9	-0.00229 mg/L		0.006370	-0.00229 mg/L	0.006370	278.51%
	QC value within limits for Se	Recovery = Not calculated					
Tl†	4.9	0.00179 mg/L		0.001546	0.00179 mg/L	0.001546	86.41%
	QC value within limits for Tl	Recovery = Not calculated					
V†	11.6	0.00007 mg/L		0.000410	0.00007 mg/L	0.000410	564.31%
	QC value within limits for V	Recovery = Not calculated					
Zn†	5.5	0.00012 mg/L		0.000007	0.00012 mg/L	0.000007	5.90%
	QC value within limits for Zn	Recovery = Not calculated					
Alx†	77.1	0.853 ug/L		1.0551	0.00085 mg/L	0.001055	123.70%
	QC value within limits for Alx	Recovery = Not calculated					
Bex†	-108.5	-0.0369 ug/L		0.00898	-0.00004 mg/L	0.000009	24.34%

QC value within limits for Bex Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 13
 Sample ID: MRL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 20
 Date Collected: 6/13/2007 09:23:35
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte Back Pressure Flow
 All 259.0 kPa 0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	373742.2	89.0 %	1.11			1.24%
Yr	187267.5	93.8 %	1.10			1.17%
Ag†	10.8	0.00004 mg/L	0.000124	0.00004 mg/L	0.000124	303.79%
	QC value less than the lower limit for Ag Recovery = 0.41%					
Al†	-44.4	-0.0130 mg/L	0.01342	-0.0130 mg/L	0.01342	103.59%
	QC value less than the lower limit for Al Recovery = -25.90%					
As†	-37.3	-0.0193 mg/L	0.00165	-0.0193 mg/L	0.00165	8.59%
	QC value less than the lower limit for As Recovery = -19.25%					
B_†	489.8	0.0154 mg/L	0.00049	0.0154 mg/L	0.00049	3.19%
	QC value less than the lower limit for B_ Recovery = 30.72%					
Ba†	-4.1	-0.00006 mg/L	0.000152	-0.00006 mg/L	0.000152	261.02%
	QC value less than the lower limit for Ba Recovery = -0.29%					
Be†	-670.9	-0.00023 mg/L	0.000023	-0.00023 mg/L	0.000023	9.91%
	QC value less than the lower limit for Be Recovery = -22.83%					
Ca†	730574.4	101 mg/L	0.7	101 mg/L	0.7	0.67%
	QC value greater than the upper limit for Ca Recovery = 10059.33%					
Cd†	-18.8	-0.00048 mg/L	0.000305	-0.00048 mg/L	0.000305	64.16%
	QC value less than the lower limit for Cd Recovery = -9.52%					
Co†	-16.7	-0.00066 mg/L	0.000079	-0.00066 mg/L	0.000079	11.90%
	QC value less than the lower limit for Co Recovery = -1.32%					
Cr†	-23.8	-0.00031 mg/L	0.000207	-0.00031 mg/L	0.000207	67.61%
	QC value less than the lower limit for Cr Recovery = -3.07%					
Cu†	327.9	0.00094 mg/L	0.000228	0.00094 mg/L	0.000228	24.22%
	QC value less than the lower limit for Cu Recovery = 9.40%					
Fe†	-2.6	-0.00212 mg/L	0.002357	-0.00212 mg/L	0.002357	111.41%
	QC value less than the lower limit for Fe Recovery = -10.58%					
K†	47272.2	39.7 mg/L	0.34	39.7 mg/L	0.34	0.87%
	QC value greater than the upper limit for K Recovery = 3968.56%					
Mg†	165921.5	41.1 mg/L	0.31	41.1 mg/L	0.31	0.76%
	QC value greater than the upper limit for Mg Recovery = 41067.06%					
Mn†	136.5	0.00024 mg/L	0.000028	0.00024 mg/L	0.000028	11.59%
	QC value less than the lower limit for Mn Recovery = 12.18%					
Mo†	19.0	0.00162 mg/L	0.000081	0.00162 mg/L	0.000081	5.02%
	QC value less than the lower limit for Mo Recovery = 8.10%					
Na†	311249.7	100 mg/L	1.0	100 mg/L	1.0	0.97%
	QC value greater than the upper limit for Na Recovery = 10000.03%					
Ni†	-11.4	-0.00052 mg/L	0.000110	-0.00052 mg/L	0.000110	21.15%
	QC value less than the lower limit for Ni Recovery = -2.59%					
Pb†	-9.0	-0.00191 mg/L	0.000053	-0.00191 mg/L	0.000053	2.80%
	QC value less than the lower limit for Pb Recovery = -9.54%					
Sb†	5.4	0.00285 mg/L	0.002693	0.00285 mg/L	0.002693	94.39%
	QC value less than the lower limit for Sb Recovery = 5.71%					
Se†	-29.0	-0.0229 mg/L	0.00870	-0.0229 mg/L	0.00870	37.92%
	QC value less than the lower limit for Se Recovery = -22.94%					
Tl†	28.6	-0.0258 mg/L	0.00209	-0.0258 mg/L	0.00209	8.12%
	QC value less than the lower limit for Tl Recovery = -25.76%					
V†	115.0	0.00071 mg/L	0.000028	0.00071 mg/L	0.000028	3.92%
	QC value less than the lower limit for V Recovery = 35.38%					
Zn†	-98.6	-0.00211 mg/L	0.000158	-0.00211 mg/L	0.000158	7.49%
	QC value less than the lower limit for Zn Recovery = -10.53%					
Alx†	86.2	0.954 ug/L	0.5327	0.00095 mg/L	0.000533	55.82%
	QC value less than the lower limit for Alx Recovery = 1.91%					
Bex†	-670.9	-0.228 ug/L	0.0227	-0.00023 mg/L	0.000023	9.93%
	QC value less than the lower limit for Bex Recovery = -22.82%					

QC Failed. Retry.

Sequence No.: 14

Sample ID: MRL

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 20

Date Collected: 6/13/2007 09:26:20

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte	Back Pressure	Flow
All	259.0 kPa	0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	370417.2	88.2 %	0.61			0.70%
Yr	182191.9	91.2 %	0.34			0.37%
Ag†	-2.4	-0.00001 mg/L	0.000276	-0.00001 mg/L	0.000276	>999.9%
	QC value less than the lower limit for Ag Recovery = -0.09%					
Al†	-79.8	-0.0232 mg/L	0.00422	-0.0232 mg/L	0.00422	18.19%
	QC value less than the lower limit for Al Recovery = -46.41%					
As†	-42.7	-0.0220 mg/L	0.00123	-0.0220 mg/L	0.00123	5.60%
	QC value less than the lower limit for As Recovery = -22.02%					
B_†	461.6	0.0145 mg/L	0.00001	0.0145 mg/L	0.00001	0.07%
	QC value less than the lower limit for B_ Recovery = 28.95%					
Ba†	-8.7	-0.00012 mg/L	0.000039	-0.00012 mg/L	0.000039	31.48%
	QC value less than the lower limit for Ba Recovery = -0.62%					
Be†	-697.0	-0.00024 mg/L	0.000005	-0.00024 mg/L	0.000005	2.15%
	QC value less than the lower limit for Be Recovery = -23.71%					
Ca†	736120.3	101 mg/L	0.4	101 mg/L	0.4	0.43%
	QC value greater than the upper limit for Ca Recovery = 10135.69%					
Cd†	-14.9	-0.00028 mg/L	0.000175	-0.00028 mg/L	0.000175	62.17%
	QC value less than the lower limit for Cd Recovery = -5.64%					
Co†	-7.6	-0.00030 mg/L	0.000220	-0.00030 mg/L	0.000220	72.76%
	QC value less than the lower limit for Co Recovery = -0.60%					
Cr†	-6.7	-0.00009 mg/L	0.000300	-0.00009 mg/L	0.000300	346.96%
	QC value less than the lower limit for Cr Recovery = -0.86%					
Cu†	334.8	0.00096 mg/L	0.000109	0.00096 mg/L	0.000109	11.32%
	QC value less than the lower limit for Cu Recovery = 9.61%					
Fe†	-3.9	-0.00322 mg/L	0.000111	-0.00322 mg/L	0.000111	3.44%
	QC value less than the lower limit for Fe Recovery = -16.08%					
K†	48382.0	40.6 mg/L	0.34	40.6 mg/L	0.34	0.84%
	QC value greater than the upper limit for K Recovery = 4061.73%					
Mg†	167835.1	41.5 mg/L	0.19	41.5 mg/L	0.19	0.45%
	QC value greater than the upper limit for Mg Recovery = 41540.69%					
Mn†	123.1	0.00022 mg/L	0.000006	0.00022 mg/L	0.000006	2.58%
	QC value less than the lower limit for Mn Recovery = 10.98%					
Mo†	11.6	0.00099 mg/L	0.000283	0.00099 mg/L	0.000283	28.61%
	QC value less than the lower limit for Mo Recovery = 4.95%					
Na†	319586.5	103 mg/L	0.9	103 mg/L	0.9	0.86%
	QC value greater than the upper limit for Na Recovery = 10267.88%					
Ni†	-17.1	-0.00078 mg/L	0.000076	-0.00078 mg/L	0.000076	9.81%
	QC value less than the lower limit for Ni Recovery = -3.88%					
Pb†	-15.9	-0.00336 mg/L	0.002234	-0.00336 mg/L	0.002234	66.51%
	QC value less than the lower limit for Pb Recovery = -16.79%					
Sb†	7.5	0.00393 mg/L	0.000394	0.00393 mg/L	0.000394	10.04%
	QC value less than the lower limit for Sb Recovery = 7.85%					
Se†	-36.7	-0.0290 mg/L	0.00808	-0.0290 mg/L	0.00808	27.87%
	QC value less than the lower limit for Se Recovery = -29.00%					
Tl†	33.5	-0.0242 mg/L	0.00183	-0.0242 mg/L	0.00183	7.56%
	QC value less than the lower limit for Tl Recovery = -24.24%					
V†	128.7	0.00079 mg/L	0.000038	0.00079 mg/L	0.000038	4.80%
	QC value less than the lower limit for V Recovery = 39.64%					
Zn†	-101.1	-0.00216 mg/L	0.000211	-0.00216 mg/L	0.000211	9.79%
	QC value less than the lower limit for Zn Recovery = -10.78%					
Alx†	135.0	1.49 ug/L	0.700	0.00149 mg/L	0.000700	46.83%
	QC value less than the lower limit for Alx Recovery = 2.99%					
Bex†	-697.0	-0.237 ug/L	0.0051	-0.00024 mg/L	0.000005	2.13%

QC value less than the lower limit for Bex Recovery = -23.71%
QC Failed. Continue with analysis.

User canceled analysis.

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Analysis Begun

Start Time: 6/13/2007 09:31:40

Plasma On Time: 6/13/2007 06:56:17

Logged In Analyst: Owner

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N2121801 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Owner\Sample Information\070613.sif

Batch ID: 070613

Results Data Set: 070613

Results Library: C:\pe\Owner\Results\Results.mdb

Sequence No.: 14

Autosampler Location: 20

Sample ID: MRL

Date Collected: 6/13/2007 09:31:40

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte	Back Pressure	Flow
All	260.0 kPa	0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	369945.9	88.1 %	0.10			0.12%
Yr	182839.1	91.5 %	0.68			0.74%
Ag†	104.5	0.00040 mg/L	0.000045	0.00040 mg/L	0.000045	11.44%
	QC value less than the lower limit for Ag Recovery = 3.96%					
Al†	-75.9	-0.0221 mg/L	0.01180	-0.0221 mg/L	0.01180	53.45%
	QC value less than the lower limit for Al Recovery = -44.14%					
As†	-43.9	-0.0226 mg/L	0.00358	-0.0226 mg/L	0.00358	15.79%
	QC value less than the lower limit for As Recovery = -22.64%					
B_†	393.6	0.0123 mg/L	0.00012	0.0123 mg/L	0.00012	0.99%
	QC value less than the lower limit for B_ Recovery = 24.69%					
Ba†	-9.3	-0.00013 mg/L	0.000005	-0.00013 mg/L	0.000005	3.54%
	QC value less than the lower limit for Ba Recovery = -0.67%					
Be†	-742.7	-0.00025 mg/L	0.000015	-0.00025 mg/L	0.000015	5.89%
	QC value less than the lower limit for Be Recovery = -25.27%					
Ca†	742461.4	102 mg/L	0.5	102 mg/L	0.5	0.51%
	QC value greater than the upper limit for Ca Recovery = 10223.00%					
Cd†	-14.3	-0.00025 mg/L	0.000053	-0.00025 mg/L	0.000053	20.82%
	QC value less than the lower limit for Cd Recovery = -5.09%					
Co†	-9.9	-0.00039 mg/L	0.000166	-0.00039 mg/L	0.000166	42.37%
	QC value less than the lower limit for Co Recovery = -0.78%					
Cr†	-12.5	-0.00016 mg/L	0.000145	-0.00016 mg/L	0.000145	89.95%
	QC value less than the lower limit for Cr Recovery = -1.61%					
Cu†	297.7	0.00085 mg/L	0.000101	0.00085 mg/L	0.000101	11.81%
	QC value less than the lower limit for Cu Recovery = 8.54%					
Fe†	-5.2	-0.00427 mg/L	0.001409	-0.00427 mg/L	0.001409	33.02%
	QC value less than the lower limit for Fe Recovery = -21.33%					
K†	48321.3	40.6 mg/L	0.25	40.6 mg/L	0.25	0.62%
	QC value greater than the upper limit for K Recovery = 4056.63%					
Mg†	168867.8	41.8 mg/L	0.27	41.8 mg/L	0.27	0.65%
	QC value greater than the upper limit for Mg Recovery = 41796.31%					
Mn†	117.5	0.00021 mg/L	0.000007	0.00021 mg/L	0.000007	3.54%
	QC value less than the lower limit for Mn Recovery = 10.48%					
Mo†	14.3	0.00122 mg/L	0.000410	0.00122 mg/L	0.000410	33.64%
	QC value less than the lower limit for Mo Recovery = 6.10%					
Na†	318555.3	102 mg/L	1.1	102 mg/L	1.1	1.09%
	QC value greater than the upper limit for Na Recovery = 10234.75%					
Ni†	-12.5	-0.00057 mg/L	0.000239	-0.00057 mg/L	0.000239	41.94%
	QC value less than the lower limit for Ni Recovery = -2.85%					
Pb†	-7.5	-0.00159 mg/L	0.000915	-0.00159 mg/L	0.000915	57.40%
	QC value less than the lower limit for Pb Recovery = -7.97%					
Sb†	3.4	0.00179 mg/L	0.000482	0.00179 mg/L	0.000482	26.93%

	QC value less than the lower limit for Sb Recovery = 3.58%					
Se†	-30.2	-0.0239 mg/L	0.00515	-0.0239 mg/L	0.00515	21.56%
	QC value less than the lower limit for Se Recovery = -23.89%					
Tl†	30.6	-0.0256 mg/L	0.00074	-0.0256 mg/L	0.00074	2.87%
	QC value less than the lower limit for Tl Recovery = -25.62%					
V†	127.2	0.00078 mg/L	0.000021	0.00078 mg/L	0.000021	2.69%
	QC value less than the lower limit for V Recovery = 39.15%					
Zn†	-97.1	-0.00207 mg/L	0.000216	-0.00207 mg/L	0.000216	10.43%
	QC value less than the lower limit for Zn Recovery = -10.36%					
Alx†	83.3	0.922 ug/L	0.7166	0.00092 mg/L	0.000717	77.71%
	QC value less than the lower limit for Alx Recovery = 1.84%					
Bex†	-742.7	-0.253 ug/L	0.0149	-0.00025 mg/L	0.000015	5.88%
	QC value less than the lower limit for Bex Recovery = -25.26%					
QC Failed. Continue with analysis.						

User canceled analysis.

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Analysis Begun

Start Time: 6/13/2007 09:51:21

Plasma On Time: 6/13/2007 06:56:17

Logged In Analyst: Owner

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N2121801 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Owner\Sample Information\070613.sif

Batch ID: 070613

Results Data Set: 070613

Results Library: C:\pe\Owner\Results\Results.mdb

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Sequence No.: 14

Autosampler Location: 20

Sample ID: MRL

Date Collected: 6/13/2007 09:51:21

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte	Back Pressure	Flow
All	260.0 kPa	0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	392330.5	93.4 %		1.08			1.16%
Yr	190967.7	95.6 %		0.67			0.71%
Ag†	2948.6	0.0112 mg/L		0.00036	0.0112 mg/L	0.00036	3.18%
	QC value within limits for Ag	Recovery = 111.78%					
Al†	185.0	0.0528 mg/L		0.00111	0.0528 mg/L	0.00111	2.09%
	QC value within limits for Al	Recovery = 105.66%					
As†	195.0	0.101 mg/L		0.0007	0.101 mg/L	0.0007	0.65%
	QC value within limits for As	Recovery = 100.58%					
B_†	1765.3	0.0552 mg/L		0.00171	0.0552 mg/L	0.00171	3.09%
	QC value within limits for B_	Recovery = 110.47%					
Ba†	1515.7	0.0217 mg/L		0.00020	0.0217 mg/L	0.00020	0.92%
	QC value within limits for Ba	Recovery = 108.53%					
Be†	2972.5	0.00101 mg/L		0.000030	0.00101 mg/L	0.000030	2.92%
	QC value within limits for Be	Recovery = 101.26%					
Ca†	7702.5	1.06 mg/L		0.009	1.06 mg/L	0.009	0.88%
	QC value within limits for Ca	Recovery = 106.06%					
Cd†	172.0	0.00558 mg/L		0.000076	0.00558 mg/L	0.000076	1.37%
	QC value within limits for Cd	Recovery = 111.53%					
Co†	1396.4	0.0555 mg/L		0.00034	0.0555 mg/L	0.00034	0.62%
	QC value within limits for Co	Recovery = 111.05%					
Cr†	838.1	0.0108 mg/L		0.00002	0.0108 mg/L	0.00002	0.19%
	QC value within limits for Cr	Recovery = 108.03%					
Cu†	3842.6	0.0111 mg/L		0.00013	0.0111 mg/L	0.00013	1.18%
	QC value within limits for Cu	Recovery = 110.69%					
Fe†	26.4	0.0216 mg/L		0.00176	0.0216 mg/L	0.00176	8.15%
	QC value within limits for Fe	Recovery = 107.77%					
K†	1280.8	1.08 mg/L		0.017	1.08 mg/L	0.017	1.57%
	QC value within limits for K	Recovery = 107.53%					
Mg†	449.1	0.111 mg/L		0.0015	0.111 mg/L	0.0015	1.34%
	QC value within limits for Mg	Recovery = 111.18%					
Mn†	959.3	0.00171 mg/L		0.000050	0.00171 mg/L	0.000050	2.93%
	QC value within limits for Mn	Recovery = 85.62%					
Mo†	240.7	0.0205 mg/L		0.00038	0.0205 mg/L	0.00038	1.83%
	QC value within limits for Mo	Recovery = 102.52%					
Na†	3247.6	1.04 mg/L		0.002	1.04 mg/L	0.002	0.20%
	QC value within limits for Na	Recovery = 104.34%					
Ni†	491.8	0.0221 mg/L		0.00008	0.0221 mg/L	0.00008	0.37%
	QC value within limits for Ni	Recovery = 110.66%					
Pb†	111.9	0.0237 mg/L		0.00034	0.0237 mg/L	0.00034	1.42%
	QC value within limits for Pb	Recovery = 118.32%					
Sb†	77.4	0.0406 mg/L		0.00085	0.0406 mg/L	0.00085	2.09%

Sequence No.: 15
 Sample ID: FILTERCHECK
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 16
 Date Collected: 6/13/2007 09:54:59
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: FILTERCHECK

Analyte Back Pressure Flow
 All 260.0 kPa 0.65 L/min

Mean Data: FILTERCHECK

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	384727.2	91.6 %	0.27			0.29%
Yr	186916.8	93.6 %	0.29			0.31%
Ag†	35.1	0.00013 mg/L	0.000127	0.00013 mg/L	0.000127	95.73%
Al†	-51.0	-0.0148 mg/L	0.00307	-0.0148 mg/L	0.00307	20.70%
As†	5.4	0.00281 mg/L	0.001942	0.00281 mg/L	0.001942	69.14%
B†	125.2	0.00393 mg/L	0.000122	0.00393 mg/L	0.000122	3.10%
Ba†	-11.2	-0.00016 mg/L	0.000023	-0.00016 mg/L	0.000023	14.44%
Be†	-400.6	-0.00014 mg/L	0.000047	-0.00014 mg/L	0.000047	34.30%
Cd†	-16.7	-0.00230 mg/L	0.000825	-0.00230 mg/L	0.000825	35.81%
Cd†	2.7	0.00007 mg/L	0.000056	0.00007 mg/L	0.000056	84.57%
Co†	-4.8	-0.00019 mg/L	0.000245	-0.00019 mg/L	0.000245	127.04%
Cr†	5.1	0.00007 mg/L	0.000306	0.00007 mg/L	0.000306	464.08%
Cu†	191.3	0.00055 mg/L	0.000048	0.00055 mg/L	0.000048	8.72%
Fe†	-1.2	-0.00099 mg/L	0.000652	-0.00099 mg/L	0.000652	65.93%
K†	37.2	0.0313 mg/L	0.05551	0.0313 mg/L	0.05551	177.58%
Mg†	3.5	0.00087 mg/L	0.001198	0.00087 mg/L	0.001198	137.83%
Mn†	-337.4	-0.00060 mg/L	0.000010	-0.00060 mg/L	0.000010	1.62%
Mo†	-0.4	-0.00003 mg/L	0.000701	-0.00003 mg/L	0.000701	>999.9%
Na†	11.3	0.00364 mg/L	0.011457	0.00364 mg/L	0.011457	314.93%
Ni†	-4.7	-0.00021 mg/L	0.000046	-0.00021 mg/L	0.000046	21.85%
Pb†	1.2	0.00024 mg/L	0.000252	0.00024 mg/L	0.000252	103.34%
Sb†	-2.6	-0.00140 mg/L	0.001285	-0.00140 mg/L	0.001285	92.11%
Se†	-6.0	-0.00474 mg/L	0.001104	-0.00474 mg/L	0.001104	23.28%
Tl†	-6.7	-0.00246 mg/L	0.003308	-0.00246 mg/L	0.003308	134.35%
V†	1.5	0.00001 mg/L	0.000323	0.00001 mg/L	0.000323	>999.9%
Zn†	-72.1	-0.00154 mg/L	0.000177	-0.00154 mg/L	0.000177	11.53%
Alx†	40.6	0.449 ug/L	0.2339	0.00045 mg/L	0.000234	52.08%
Bex†	-400.6	-0.136 ug/L	0.0467	-0.00014 mg/L	0.000047	34.26%

QC value within limits for Sb	Recovery = 81.12%				
Se†	130.0	0.103 mg/L	0.0031	0.103 mg/L	0.0031 3.00%
QC value within limits for Se	Recovery = 102.72%				
Tl†	326.5	0.120 mg/L	0.0034	0.120 mg/L	0.0034 2.87%
QC value within limits for Tl	Recovery = 120.00%				
V†	369.0	0.00233 mg/L	0.000050	0.00233 mg/L	0.000050 2.15%
QC value within limits for V	Recovery = 116.59%				
Zn†	976.6	0.0207 mg/L	0.00046	0.0207 mg/L	0.00046 2.21%
QC value within limits for Zn	Recovery = 103.74%				
Alx†	4582.4	50.7 ug/L	0.85	0.0507 mg/L	0.00085 1.68%
QC value within limits for Alx	Recovery = 101.44%				
Bex†	2972.5	1.01 ug/L	0.030	0.00101 mg/L	0.000030 2.93%
QC value within limits for Bex	Recovery = 101.11%				
All analyte(s) passed QC.					

Sequence No.: 16
 Sample ID: MRL/2
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 22
 Date Collected: 6/13/2007 09:58:40
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MRL/2

Analyte Back Pressure Flow
 All 260.0 kPa 0.65 L/min

Mean Data: MRL/2

Analyte	Mean Corrected		Calib	Std.Dev.	Sample		RSD
	Intensity	Conc. Units			Conc. Units	Std.Dev.	
Sca	387494.7	92.2 %		0.54			0.59%
Yr	188406.7	94.3 %		0.89			0.94%
Ag+	1366.7	0.00518 mg/L		0.000165	0.00518 mg/L	0.000165	3.18%
Al+	94.9	0.0271 mg/L		0.01116	0.0271 mg/L	0.01116	41.15%
As+	101.1	0.0522 mg/L		0.00169	0.0522 mg/L	0.00169	3.23%
B+	993.3	0.0311 mg/L		0.00038	0.0311 mg/L	0.00038	1.22%
Ba+	761.0	0.0109 mg/L		0.00008	0.0109 mg/L	0.00008	0.69%
Be+	1367.4	0.00047 mg/L		0.000011	0.00047 mg/L	0.000011	2.30%
Ca+	3943.0	0.543 mg/L		0.0069	0.543 mg/L	0.0069	1.27%
Cd+	82.5	0.00263 mg/L		0.000036	0.00263 mg/L	0.000036	1.36%
Co+	695.3	0.0276 mg/L		0.00028	0.0276 mg/L	0.00028	1.03%
Cr+	435.8	0.00562 mg/L		0.000106	0.00562 mg/L	0.000106	1.88%
Cu+	1930.5	0.00556 mg/L		0.000062	0.00556 mg/L	0.000062	1.11%
Fe+	11.6	0.00950 mg/L		0.001480	0.00950 mg/L	0.001480	15.58%
K+	678.8	0.570 mg/L		0.0221	0.570 mg/L	0.0221	3.88%
Mg+	232.7	0.0576 mg/L		0.00025	0.0576 mg/L	0.00025	0.44%
Mn+	320.4	0.00057 mg/L		0.000013	0.00057 mg/L	0.000013	2.29%
Mo+	123.1	0.0105 mg/L		0.00024	0.0105 mg/L	0.00024	2.32%
Na+	1602.6	0.515 mg/L		0.0127	0.515 mg/L	0.0127	2.46%
Ni+	238.2	0.0107 mg/L		0.00013	0.0107 mg/L	0.00013	1.25%
Pb+	48.3	0.0102 mg/L		0.00092	0.0102 mg/L	0.00092	9.03%
Sb+	38.7	0.0203 mg/L		0.00152	0.0203 mg/L	0.00152	7.50%
Se+	61.1	0.0483 mg/L		0.00365	0.0483 mg/L	0.00365	7.56%
Tl+	163.3	0.0600 mg/L		0.00133	0.0600 mg/L	0.00133	2.21%
V+	198.7	0.00125 mg/L		0.000194	0.00125 mg/L	0.000194	15.46%
Zn+	471.5	0.0100 mg/L		0.00008	0.0100 mg/L	0.00008	0.83%
Alx+	2223.5	24.6 ug/L		1.17	0.0246 mg/L	0.00117	4.76%
Bex+	1367.4	0.465 ug/L		0.0107	0.00047 mg/L	0.000011	2.31%

Sequence No.: 50
 Sample ID: MBLANK
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 65
 Date Collected: 6/13/2007 12:14:10
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MBLANK

Analyte Back Pressure Flow
 All 293.0 kPa 0.65 L/min

Mean Data: MBLANK

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	386390.6	92.0 %		1.52			1.66%
Yr	197543.2	98.9 %		0.36			0.36%
Ag†	62.4	0.00024 mg/L		0.000029	0.00024 mg/L	0.000029	12.17%
Al†	-93.7	-0.0272 mg/L		0.00689	-0.0272 mg/L	0.00689	25.33%
As†	6.0	0.00308 mg/L		0.000531	0.00308 mg/L	0.000531	17.23%
B†	335.7	0.0105 mg/L		0.00065	0.0105 mg/L	0.00065	6.14%
Ba†	0.5	0.00001 mg/L		0.000283	0.00001 mg/L	0.000283	>999.9%
Be†	-351.7	-0.00012 mg/L		0.000010	-0.00012 mg/L	0.000010	8.73%
Ca†	2.4	0.00033 mg/L		0.002199	0.00033 mg/L	0.002199	674.42%
Cd†	4.7	0.00014 mg/L		0.000246	0.00014 mg/L	0.000246	174.40%
Co†	-5.9	-0.00024 mg/L		0.000259	-0.00024 mg/L	0.000259	109.70%
Cr†	20.2	0.00026 mg/L		0.000078	0.00026 mg/L	0.000078	29.89%
Cu†	78.8	0.00023 mg/L		0.000086	0.00023 mg/L	0.000086	37.90%
Fe†	-4.4	-0.00363 mg/L		0.002218	-0.00363 mg/L	0.002218	61.19%
K†	152.0	0.128 mg/L		0.0111	0.128 mg/L	0.0111	8.74%
Mg†	3.6	0.00089 mg/L		0.000346	0.00089 mg/L	0.000346	38.69%
Mn†	-326.2	-0.00058 mg/L		0.000006	-0.00058 mg/L	0.000006	1.00%
Mo†	1.3	0.00011 mg/L		0.000485	0.00011 mg/L	0.000485	449.25%
Na†	924.7	0.297 mg/L		0.0186	0.297 mg/L	0.0186	6.26%
Ni†	-8.6	-0.00039 mg/L		0.000194	-0.00039 mg/L	0.000194	50.20%
Pb†	1.5	0.00031 mg/L		0.001303	0.00031 mg/L	0.001303	422.12%
Sb†	-4.0	-0.00213 mg/L		0.001748	-0.00213 mg/L	0.001748	81.92%
Se†	-3.5	-0.00277 mg/L		0.006634	-0.00277 mg/L	0.006634	239.51%
Tl†	-5.0	-0.00186 mg/L		0.000301	-0.00186 mg/L	0.000301	16.19%
V†	4.0	0.00003 mg/L		0.000074	0.00003 mg/L	0.000074	286.92%
Zn†	-67.6	-0.00144 mg/L		0.000016	-0.00144 mg/L	0.000016	1.08%
Alx†	-121.8	-1.35 ug/L		0.056	-0.00135 mg/L	0.000056	4.16%
Bex†	-351.7	-0.120 ug/L		0.0105	-0.00012 mg/L	0.000010	8.74%

Sequence No.: 51
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 6/13/2007 12:17:49
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	292.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	379733.9	90.4 %	0.29			0.32%
Yr	196010.5	98.1 %	0.77			0.79%
Ag†	251040.5	0.952 mg/L	0.0007	0.952 mg/L	0.0007	0.07%
	QC value within limits for Ag	Recovery = 95.17%				
Al†	18491.0	5.15 mg/L	0.039	5.15 mg/L	0.039	0.75%
	QC value within limits for Al	Recovery = 102.95%				
As†	9767.2	5.05 mg/L	0.027	5.05 mg/L	0.027	0.53%
	QC value within limits for As	Recovery = 101.07%				
B_†	81184.7	2.53 mg/L	0.006	2.53 mg/L	0.006	0.22%
	QC value within limits for B_	Recovery = 101.38%				
Ba†	369042.1	5.29 mg/L	0.002	5.29 mg/L	0.002	0.03%
	QC value within limits for Ba	Recovery = 105.75%				
Be†	6323680.3	2.15 mg/L	0.016	2.15 mg/L	0.016	0.76%
	QC value within limits for Be	Recovery = 107.58%				
Ca†	381695.4	52.6 mg/L	0.21	52.6 mg/L	0.21	0.39%
	QC value within limits for Ca	Recovery = 105.11%				
Cd†	66506.7	2.55 mg/L	0.001	2.55 mg/L	0.001	0.03%
	QC value within limits for Cd	Recovery = 102.10%				
Co†	132335.4	5.26 mg/L	0.007	5.26 mg/L	0.007	0.13%
	QC value within limits for Co	Recovery = 105.24%				
Cr†	400510.1	5.16 mg/L	0.005	5.16 mg/L	0.005	0.10%
	QC value within limits for Cr	Recovery = 103.25%				
Cu†	1833155.5	5.27 mg/L	0.006	5.27 mg/L	0.006	0.11%
	QC value within limits for Cu	Recovery = 105.30%				
Fe†	6444.6	5.26 mg/L	0.007	5.26 mg/L	0.007	0.13%
	QC value within limits for Fe	Recovery = 105.26%				
K†	58503.7	49.1 mg/L	0.21	49.1 mg/L	0.21	0.42%
	QC value within limits for K	Recovery = 98.23%				
Mg†	207342.0	51.3 mg/L	0.14	51.3 mg/L	0.14	0.27%
	QC value within limits for Mg	Recovery = 102.65%				
Mn†	2982869.5	5.32 mg/L	0.002	5.32 mg/L	0.002	0.04%
	QC value within limits for Mn	Recovery = 106.48%				
Mo†	60217.5	5.13 mg/L	0.022	5.13 mg/L	0.022	0.43%
	QC value within limits for Mo	Recovery = 102.61%				
Na†	154706.1	49.7 mg/L	0.16	49.7 mg/L	0.16	0.32%
	QC value within limits for Na	Recovery = 99.41%				
Ni†	118215.9	5.33 mg/L	0.003	5.33 mg/L	0.003	0.05%
	QC value within limits for Ni	Recovery = 106.55%				
Pb†	25265.4	5.34 mg/L	0.020	5.34 mg/L	0.020	0.38%
	QC value within limits for Pb	Recovery = 106.88%				
Sb†	9562.5	4.94 mg/L	0.003	4.94 mg/L	0.003	0.05%
	QC value within limits for Sb	Recovery = 98.84%				
Se†	6638.5	5.26 mg/L	0.027	5.26 mg/L	0.027	0.51%
	QC value within limits for Se	Recovery = 105.14%				
Tl†	14749.7	5.44 mg/L	0.000	5.44 mg/L	0.000	0.00%
	QC value within limits for Tl	Recovery = 108.78%				
V†	840663.6	5.20 mg/L	0.001	5.20 mg/L	0.001	0.03%
	QC value within limits for V	Recovery = 104.10%				
Zn†	250370.2	5.32 mg/L	0.002	5.32 mg/L	0.002	0.04%
	QC value within limits for Zn	Recovery = 106.42%				
Alx†	452290.4	5010 ug/L	26.0	5.01 mg/L	0.026	0.52%
	QC value within limits for Alx	Recovery = 100.12%				
Bex†	6323680.3	2150 ug/L	16.4	2.15 mg/L	0.016	0.76%
	QC value within limits for Bex	Recovery = 107.55%				

All analyte(s) passed QC.

Sequence No.: 52
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/13/2007 12:21:07
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte Back Pressure Flow
 All 292.0 kPa 0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	389392.4	92.7 %		0.18			0.19%
Yr	205385.7	103 %		1.1			1.12%
Ag†	102.7	0.00039 mg/L		0.000051	0.00039 mg/L	0.000051	12.97%
QC value within limits for Ag		Recovery = Not calculated					
Al†	-50.9	-0.0148 mg/L		0.00961	-0.0148 mg/L	0.00961	64.74%
QC value within limits for Al		Recovery = Not calculated					
As†	37.7	0.0194 mg/L		0.00353	0.0194 mg/L	0.00353	18.20%
QC value within limits for As		Recovery = Not calculated					
B_†	515.0	0.0161 mg/L		0.00038	0.0161 mg/L	0.00038	2.32%
QC value within limits for B_		Recovery = Not calculated					
Ba†	-6.7	-0.00010 mg/L		0.000100	-0.00010 mg/L	0.000100	104.67%
QC value within limits for Ba		Recovery = Not calculated					
Be†	-191.7	-0.00007 mg/L		0.000007	-0.00007 mg/L	0.000007	10.82%
QC value within limits for Be		Recovery = Not calculated					
Ca†	-7.5	-0.00103 mg/L		0.000396	-0.00103 mg/L	0.000396	38.57%
QC value within limits for Ca		Recovery = Not calculated					
Cd†	12.5	0.00022 mg/L		0.000118	0.00022 mg/L	0.000118	52.41%
QC value within limits for Cd		Recovery = Not calculated					
Co†	-4.6	-0.00018 mg/L		0.000263	-0.00018 mg/L	0.000263	143.47%
QC value within limits for Co		Recovery = Not calculated					
Cr†	48.4	0.00062 mg/L		0.000007	0.00062 mg/L	0.000007	1.18%
QC value within limits for Cr		Recovery = Not calculated					
Cu†	205.2	0.00059 mg/L		0.000123	0.00059 mg/L	0.000123	20.88%
QC value within limits for Cu		Recovery = Not calculated					
Fe†	1.9	0.00154 mg/L		0.000431	0.00154 mg/L	0.000431	28.00%
QC value within limits for Fe		Recovery = Not calculated					
K†	106.1	0.0891 mg/L		0.04324	0.0891 mg/L	0.04324	48.53%
QC value within limits for K		Recovery = Not calculated					
Mg†	10.4	0.00258 mg/L		0.000699	0.00258 mg/L	0.000699	27.10%
QC value within limits for Mg		Recovery = Not calculated					
Mn†	-196.7	-0.00035 mg/L		0.000015	-0.00035 mg/L	0.000015	4.37%
QC value within limits for Mn		Recovery = Not calculated					
Mo†	16.6	0.00141 mg/L		0.000007	0.00141 mg/L	0.000007	0.53%
QC value within limits for Mo		Recovery = Not calculated					
Na†	308.4	0.0991 mg/L		0.01931	0.0991 mg/L	0.01931	19.48%
QC value within limits for Na		Recovery = Not calculated					
Ni†	-8.4	-0.00038 mg/L		0.000340	-0.00038 mg/L	0.000340	89.61%
QC value within limits for Ni		Recovery = Not calculated					
Pb†	-7.3	-0.00155 mg/L		0.000168	-0.00155 mg/L	0.000168	10.88%
QC value within limits for Pb		Recovery = Not calculated					
Sb†	11.2	0.00587 mg/L		0.000039	0.00587 mg/L	0.000039	0.67%
QC value within limits for Sb		Recovery = Not calculated					
Se†	-6.4	-0.00502 mg/L		0.002707	-0.00502 mg/L	0.002707	53.93%
QC value within limits for Se		Recovery = Not calculated					
Tl†	0.5	0.00016 mg/L		0.001197	0.00016 mg/L	0.001197	735.22%
QC value within limits for Tl		Recovery = Not calculated					
V†	58.1	0.00036 mg/L		0.000132	0.00036 mg/L	0.000132	36.52%
QC value within limits for V		Recovery = Not calculated					
Zn†	-34.7	-0.00074 mg/L		0.000115	-0.00074 mg/L	0.000115	15.60%
QC value within limits for Zn		Recovery = Not calculated					
Alx†	48.7	0.539 ug/L		0.9741	0.00054 mg/L	0.000974	180.66%
QC value within limits for Alx		Recovery = Not calculated					
Bex†	-191.7	-0.0652 ug/L		0.00705	-0.00007 mg/L	0.000007	10.80%
QC value within limits for Bex		Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 55
 Sample ID: D706120634
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 68
 Date Collected: 6/13/2007 12:31:57
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: D706120634

Analyte Back Pressure Flow
 All 290.0 kPa 0.65 L/min

Mean Data: D706120634

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	393550.7	93.7 %		0.04			0.05%
Yr	217045.7	109 %		2.7			2.50%
Ag+	93.5	0.00035 mg/L		0.000071	0.00035 mg/L	0.000071	19.96%
Al+	-43.2	-0.0128 mg/L		0.00711	-0.0128 mg/L	0.00711	55.53%
As+	-40.2	-0.0207 mg/L		0.00171	-0.0207 mg/L	0.00171	8.25%
B ₊	6840.8	0.214 mg/L		0.0016	0.214 mg/L	0.0016	0.74%
Ba+	3720.8	0.0533 mg/L		0.00029	0.0533 mg/L	0.00029	0.54%
Be+	-749.3	-0.00025 mg/L		0.000040	-0.00025 mg/L	0.000040	15.73%
Ca+	531723.5	73.2 mg/L		0.53	73.2 mg/L	0.53	0.73%
Cd+	-7.6	-0.00001 mg/L		0.000051	-0.00001 mg/L	0.000051	365.79%
Co+	-0.1	0.00000 mg/L		0.000004	0.00000 mg/L	0.000004	100.76%
Cr+	-20.9	-0.00027 mg/L		0.000033	-0.00027 mg/L	0.000033	12.43%
Cu+	1402.5	0.00402 mg/L		0.000229	0.00402 mg/L	0.000229	5.70%
Fe+	44.3	0.0362 mg/L		0.00040	0.0362 mg/L	0.00040	1.12%
K+	5087.4	4.27 mg/L		0.014	4.27 mg/L	0.014	0.33%
Mg+	93493.7	23.1 mg/L		0.01	23.1 mg/L	0.01	0.02%
Mn+	80131.9	0.143 mg/L		0.0005	0.143 mg/L	0.0005	0.35%
Mo+	72.6	0.00618 mg/L		0.000225	0.00618 mg/L	0.000225	3.64%
Na+	634406.1	204 mg/L		0.7	204 mg/L	0.7	0.35%
Ni+	10.5	0.00047 mg/L		0.000361	0.00047 mg/L	0.000361	76.72%
Pb+	-7.6	-0.00160 mg/L		0.000971	-0.00160 mg/L	0.000971	60.68%
Sb+	1.1	0.00057 mg/L		0.000047	0.00057 mg/L	0.000047	8.30%
Se+	-28.7	-0.0226 mg/L		0.00001	-0.0226 mg/L	0.00001	0.04%
Tl+	28.1	-0.0155 mg/L		0.00644	-0.0155 mg/L	0.00644	41.65%
V+	98.1	0.00061 mg/L		0.000006	0.00061 mg/L	0.000006	1.01%
Zn+	209.6	0.00448 mg/L		0.000394	0.00448 mg/L	0.000394	8.80%
Alx+	3.4	0.0382 ug/L		0.50956	0.00004 mg/L	0.000510	>999.9%
Bex+	-749.3	-0.255 ug/L		0.0401	-0.00025 mg/L	0.000040	15.73%

Sequence No.: 63
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 6/13/2007 13:06:02
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	296.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	394111.6	93.8 %	0.15			0.16%
Yr	207004.5	104 %	0.8			0.77%
Ag†	249713.0	0.947 mg/L	0.0005	0.947 mg/L	0.0005	0.05%
	QC value within limits for Ag	Recovery = 94.66%				
Al†	18516.8	5.15 mg/L	0.084	5.15 mg/L	0.084	1.63%
	QC value within limits for Al	Recovery = 103.09%				
As†	9866.9	5.10 mg/L	0.040	5.10 mg/L	0.040	0.79%
	QC value within limits for As	Recovery = 102.10%				
B_†	80962.5	2.53 mg/L	0.004	2.53 mg/L	0.004	0.15%
	QC value within limits for B_	Recovery = 101.10%				
Ba†	366299.3	5.25 mg/L	0.010	5.25 mg/L	0.010	0.19%
	QC value within limits for Ba	Recovery = 104.96%				
Be†	6299622.6	2.14 mg/L	0.005	2.14 mg/L	0.005	0.26%
	QC value within limits for Be	Recovery = 107.17%				
Ca†	379572.0	52.3 mg/L	0.23	52.3 mg/L	0.23	0.44%
	QC value within limits for Ca	Recovery = 104.53%				
Cd†	66929.9	2.57 mg/L	0.016	2.57 mg/L	0.016	0.61%
	QC value within limits for Cd	Recovery = 102.73%				
Co†	131733.2	5.24 mg/L	0.015	5.24 mg/L	0.015	0.29%
	QC value within limits for Co	Recovery = 104.76%				
Cr†	397115.5	5.12 mg/L	0.001	5.12 mg/L	0.001	0.03%
	QC value within limits for Cr	Recovery = 102.37%				
Cu†	1824604.7	5.24 mg/L	0.011	5.24 mg/L	0.011	0.21%
	QC value within limits for Cu	Recovery = 104.81%				
Fe†	6341.6	5.18 mg/L	0.081	5.18 mg/L	0.081	1.57%
	QC value within limits for Fe	Recovery = 103.58%				
K†	59126.4	49.6 mg/L	0.24	49.6 mg/L	0.24	0.48%
	QC value within limits for K	Recovery = 99.27%				
Mg†	204684.7	50.7 mg/L	0.09	50.7 mg/L	0.09	0.18%
	QC value within limits for Mg	Recovery = 101.34%				
Mn†	2964492.8	5.29 mg/L	0.014	5.29 mg/L	0.014	0.27%
	QC value within limits for Mn	Recovery = 105.83%				
Mo†	60392.3	5.15 mg/L	0.037	5.15 mg/L	0.037	0.72%
	QC value within limits for Mo	Recovery = 102.90%				
Na†	159837.4	51.4 mg/L	0.19	51.4 mg/L	0.19	0.36%
	QC value within limits for Na	Recovery = 102.71%				
Ni†	117460.1	5.29 mg/L	0.009	5.29 mg/L	0.009	0.18%
	QC value within limits for Ni	Recovery = 105.86%				
Pb†	25408.7	5.37 mg/L	0.029	5.37 mg/L	0.029	0.55%
	QC value within limits for Pb	Recovery = 107.49%				
Sb†	9667.1	5.00 mg/L	0.016	5.00 mg/L	0.016	0.31%
	QC value within limits for Sb	Recovery = 99.96%				
Se†	6792.6	5.38 mg/L	0.054	5.38 mg/L	0.054	1.00%
	QC value within limits for Se	Recovery = 107.57%				
Tl†	14833.5	5.47 mg/L	0.037	5.47 mg/L	0.037	0.67%
	QC value within limits for Tl	Recovery = 109.40%				
V†	835026.3	5.17 mg/L	0.001	5.17 mg/L	0.001	0.03%
	QC value within limits for V	Recovery = 103.40%				
Zn†	249306.8	5.30 mg/L	0.004	5.30 mg/L	0.004	0.08%
	QC value within limits for Zn	Recovery = 105.97%				
Alx†	447594.5	4950 ug/L	2.6	4.95 mg/L	0.003	0.05%
	QC value within limits for Alx	Recovery = 99.08%				
Bex†	6299622.6	2140 ug/L	5.5	2.14 mg/L	0.005	0.26%
	QC value within limits for Bex	Recovery = 107.14%				

All analyte(s) passed QC.

Sequence No.: 64
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/13/2007 13:09:21
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte Back Pressure Flow
 All 293.0 kPa 0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	418020.3	99.5 %		0.32			0.32%
Yr	218156.0	109 %		0.3			0.25%
Ag†	94.1	0.00036 mg/L		0.000193	0.00036 mg/L	0.000193	54.15%
	QC value within limits for Ag	Recovery = Not calculated					
Al†	-33.7	-0.00984 mg/L		0.000091	-0.00984 mg/L	0.000091	0.92%
	QC value within limits for Al	Recovery = Not calculated					
As†	33.2	0.0171 mg/L		0.00203	0.0171 mg/L	0.00203	11.85%
	QC value within limits for As	Recovery = Not calculated					
B_†	735.6	0.0231 mg/L		0.00070	0.0231 mg/L	0.00070	3.05%
	QC value greater than the upper limit for B	Recovery = Not calculated					
Ba†	1.5	0.00002 mg/L		0.000017	0.00002 mg/L	0.000017	82.90%
	QC value within limits for Ba	Recovery = Not calculated					
Be†	16.1	0.00001 mg/L		0.000012	0.00001 mg/L	0.000012	212.90%
	QC value within limits for Be	Recovery = Not calculated					
Ca†	11.8	0.00163 mg/L		0.001415	0.00163 mg/L	0.001415	86.79%
	QC value within limits for Ca	Recovery = Not calculated					
Cd†	6.1	0.00001 mg/L		0.000005	0.00001 mg/L	0.000005	78.98%
	QC value within limits for Cd	Recovery = Not calculated					
Co†	-3.6	-0.00014 mg/L		0.000259	-0.00014 mg/L	0.000259	178.69%
	QC value within limits for Co	Recovery = Not calculated					
Cr†	39.4	0.00051 mg/L		0.000088	0.00051 mg/L	0.000088	17.32%
	QC value within limits for Cr	Recovery = Not calculated					
Cu†	52.5	0.00015 mg/L		0.000080	0.00015 mg/L	0.000080	53.29%
	QC value within limits for Cu	Recovery = Not calculated					
Fe†	3.2	0.00258 mg/L		0.000749	0.00258 mg/L	0.000749	29.09%
	QC value within limits for Fe	Recovery = Not calculated					
K†	199.9	0.168 mg/L		0.0376	0.168 mg/L	0.0376	22.37%
	QC value within limits for K	Recovery = Not calculated					
Mg†	6.4	0.00159 mg/L		0.000796	0.00159 mg/L	0.000796	50.09%
	QC value within limits for Mg	Recovery = Not calculated					
Mn†	-212.1	-0.00038 mg/L		0.000007	-0.00038 mg/L	0.000007	1.80%
	QC value within limits for Mn	Recovery = Not calculated					
Mo†	17.6	0.00150 mg/L		0.000341	0.00150 mg/L	0.000341	22.71%
	QC value within limits for Mo	Recovery = Not calculated					
Na†	2066.6	0.664 mg/L		0.0275	0.664 mg/L	0.0275	4.14%
	QC value greater than the upper limit for Na	Recovery = Not calculated					
Ni†	-6.4	-0.00029 mg/L		0.000022	-0.00029 mg/L	0.000022	7.75%
	QC value within limits for Ni	Recovery = Not calculated					
Pb†	2.4	0.00051 mg/L		0.001052	0.00051 mg/L	0.001052	206.38%
	QC value within limits for Pb	Recovery = Not calculated					
Sb†	11.4	0.00598 mg/L		0.003027	0.00598 mg/L	0.003027	50.66%
	QC value within limits for Sb	Recovery = Not calculated					
Se†	-5.4	-0.00426 mg/L		0.004715	-0.00426 mg/L	0.004715	110.65%
	QC value within limits for Se	Recovery = Not calculated					
Tl†	-0.6	-0.00021 mg/L		0.000751	-0.00021 mg/L	0.000751	357.29%
	QC value within limits for Tl	Recovery = Not calculated					
V†	54.6	0.00034 mg/L		0.000612	0.00034 mg/L	0.000612	180.49%
	QC value within limits for V	Recovery = Not calculated					
Zn†	-38.7	-0.00083 mg/L		0.000005	-0.00083 mg/L	0.000005	0.65%
	QC value within limits for Zn	Recovery = Not calculated					
Alx†	74.5	0.825 ug/L		1.6101	0.00082 mg/L	0.001610	195.26%
	QC value within limits for Alx	Recovery = Not calculated					
Bex†	16.1	0.00549 ug/L		0.011816	0.00001 mg/L	0.000012	215.39%
	QC value within limits for Bex	Recovery = Not calculated					

QC Failed. Retry.

Sequence No.: 65
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/13/2007 13:11:56
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte Back Pressure Flow
 All 291.0 kPa 0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	423105.7	101 %		0.5			0.46%
Yr	228095.7	114 %		0.9			0.79%
Ag†	34.9	0.00013 mg/L		0.000102	0.00013 mg/L	0.000102	77.36%
QC value within limits for Ag		Recovery = Not calculated					
Al†	-65.6	-0.0191 mg/L		0.00446	-0.0191 mg/L	0.00446	23.34%
QC value within limits for Al		Recovery = Not calculated					
As†	16.9	0.00870 mg/L		0.002765	0.00870 mg/L	0.002765	31.77%
QC value within limits for As		Recovery = Not calculated					
B_†	506.2	0.0159 mg/L		0.00021	0.0159 mg/L	0.00021	1.30%
QC value within limits for B_		Recovery = Not calculated					
Ba†	-3.5	-0.00005 mg/L		0.000014	-0.00005 mg/L	0.000014	27.34%
QC value within limits for Ba		Recovery = Not calculated					
Be†	54.1	0.00002 mg/L		0.000020	0.00002 mg/L	0.000020	108.75%
QC value within limits for Be		Recovery = Not calculated					
Ca†	12.9	0.00178 mg/L		0.000497	0.00178 mg/L	0.000497	27.90%
QC value within limits for Ca		Recovery = Not calculated					
Cd†	7.4	0.00017 mg/L		0.000098	0.00017 mg/L	0.000098	57.23%
QC value within limits for Cd		Recovery = Not calculated					
Co†	4.7	0.00019 mg/L		0.000353	0.00019 mg/L	0.000353	187.43%
QC value within limits for Co		Recovery = Not calculated					
Cr†	13.0	0.00017 mg/L		0.000057	0.00017 mg/L	0.000057	34.06%
QC value within limits for Cr		Recovery = Not calculated					
Cu†	121.3	0.00035 mg/L		0.000111	0.00035 mg/L	0.000111	31.89%
QC value within limits for Cu		Recovery = Not calculated					
Fe†	1.9	0.00155 mg/L		0.002605	0.00155 mg/L	0.002605	168.01%
QC value within limits for Fe		Recovery = Not calculated					
K†	69.6	0.0584 mg/L		0.06685	0.0584 mg/L	0.06685	114.45%
QC value within limits for K		Recovery = Not calculated					
Mg†	11.9	0.00294 mg/L		0.000005	0.00294 mg/L	0.000005	0.17%
QC value within limits for Mg		Recovery = Not calculated					
Mn†	-241.7	-0.00043 mg/L		0.000010	-0.00043 mg/L	0.000010	2.40%
QC value within limits for Mn		Recovery = Not calculated					
Mo†	12.1	0.00103 mg/L		0.000090	0.00103 mg/L	0.000090	8.74%
QC value within limits for Mo		Recovery = Not calculated					
Na†	1361.6	0.437 mg/L		0.0173	0.437 mg/L	0.0173	3.95%
QC value within limits for Na		Recovery = Not calculated					
Ni†	0.7	0.00003 mg/L		0.000056	0.00003 mg/L	0.000056	183.71%
QC value within limits for Ni		Recovery = Not calculated					
Pb†	0.2	0.00005 mg/L		0.000002	0.00005 mg/L	0.000002	3.74%
QC value within limits for Pb		Recovery = Not calculated					
Sb†	4.1	0.00213 mg/L		0.002456	0.00213 mg/L	0.002456	115.09%
QC value within limits for Sb		Recovery = Not calculated					
Se†	-5.4	-0.00430 mg/L		0.001672	-0.00430 mg/L	0.001672	38.90%
QC value within limits for Se		Recovery = Not calculated					
Tl†	-2.2	-0.00083 mg/L		0.001700	-0.00083 mg/L	0.001700	204.71%
QC value within limits for Tl		Recovery = Not calculated					
V†	-21.2	-0.00013 mg/L		0.000064	-0.00013 mg/L	0.000064	49.51%
QC value within limits for V		Recovery = Not calculated					
Zn†	-43.8	-0.00094 mg/L		0.000108	-0.00094 mg/L	0.000108	11.51%
QC value within limits for Zn		Recovery = Not calculated					
Alx†	-53.1	-0.587 ug/L		0.0778	-0.00059 mg/L	0.000078	13.25%
QC value within limits for Alx		Recovery = Not calculated					
Bex†	54.1	0.0184 ug/L		0.02002	0.00002 mg/L	0.000020	108.87%

QC value within limits for Bex Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 66
 Sample ID: MCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 6/13/2007 13:15:21
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MCV

Analyte	Back Pressure	Flow
All	291.0 kPa	0.65 L/min

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	417371.7	99.3 %	0.36			0.36%
Yr	220455.1	110 %	0.9			0.85%
Ag†	127139.1	0.482 mg/L	0.0006	0.482 mg/L	0.0006	0.12%
QC value within limits for Ag		Recovery = 96.39%				
Al†	9333.3	2.60 mg/L	0.037	2.60 mg/L	0.037	1.42%
QC value within limits for Al		Recovery = 103.92%				
As†	4988.3	2.58 mg/L	0.002	2.58 mg/L	0.002	0.08%
QC value within limits for As		Recovery = 103.23%				
B_†	40992.7	1.28 mg/L	0.001	1.28 mg/L	0.001	0.05%
QC value within limits for B_		Recovery = 102.37%				
Ba†	187164.3	2.68 mg/L	0.001	2.68 mg/L	0.001	0.04%
QC value within limits for Ba		Recovery = 107.26%				
Be†	3169326.6	1.08 mg/L	0.001	1.08 mg/L	0.001	0.09%
QC value within limits for Be		Recovery = 107.84%				
Ca†	193698.7	26.7 mg/L	0.03	26.7 mg/L	0.03	0.10%
QC value within limits for Ca		Recovery = 106.68%				
Cd†	33755.4	1.30 mg/L	0.000	1.30 mg/L	0.000	0.03%
QC value within limits for Cd		Recovery = 103.63%				
Co†	67542.2	2.69 mg/L	0.001	2.69 mg/L	0.001	0.02%
QC value within limits for Co		Recovery = 107.43%				
Cr†	200961.6	2.59 mg/L	0.003	2.59 mg/L	0.003	0.11%
QC value within limits for Cr		Recovery = 103.61%				
Cu†	920581.8	2.64 mg/L	0.000	2.64 mg/L	0.000	0.01%
QC value within limits for Cu		Recovery = 105.76%				
Fe†	3226.9	2.64 mg/L	0.016	2.64 mg/L	0.016	0.61%
QC value within limits for Fe		Recovery = 105.41%				
K†	29567.9	24.8 mg/L	0.47	24.8 mg/L	0.47	1.90%
QC value within limits for K		Recovery = 99.29%				
Mg†	104945.0	26.0 mg/L	0.11	26.0 mg/L	0.11	0.42%
QC value within limits for Mg		Recovery = 103.91%				
Mn†	1509798.3	2.69 mg/L	0.010	2.69 mg/L	0.010	0.37%
QC value within limits for Mn		Recovery = 107.79%				
Mo†	30480.2	2.60 mg/L	0.001	2.60 mg/L	0.001	0.05%
QC value within limits for Mo		Recovery = 103.87%				
Na†	79720.7	25.6 mg/L	0.12	25.6 mg/L	0.12	0.46%
QC value within limits for Na		Recovery = 102.45%				
Ni†	60420.5	2.72 mg/L	0.005	2.72 mg/L	0.005	0.18%
QC value within limits for Ni		Recovery = 108.91%				
Pb†	12994.2	2.75 mg/L	0.002	2.75 mg/L	0.002	0.09%
QC value within limits for Pb		Recovery = 109.94%				
Sb†	4874.4	2.52 mg/L	0.003	2.52 mg/L	0.003	0.11%
QC value within limits for Sb		Recovery = 100.80%				
Se†	3444.4	2.73 mg/L	0.010	2.73 mg/L	0.010	0.36%
QC value within limits for Se		Recovery = 109.09%				
Tl†	7602.7	2.80 mg/L	0.000	2.80 mg/L	0.000	0.02%
QC value greater than the upper limit for Tl		Recovery = 112.14%				
V†	420118.4	2.60 mg/L	0.004	2.60 mg/L	0.004	0.14%
QC value within limits for V		Recovery = 104.05%				
Zn†	127916.5	2.72 mg/L	0.003	2.72 mg/L	0.003	0.11%
QC value within limits for Zn		Recovery = 108.74%				
Alx†	224486.0	2480 ug/L	0.4	2.48 mg/L	0.000	0.01%
QC value within limits for Alx		Recovery = 99.39%				
Bex†	3169326.6	1080 ug/L	0.9	1.08 mg/L	0.001	0.09%
QC value within limits for Bex		Recovery = 107.81%				

QC Failed. Retry.

Sequence No.: 67
 Sample ID: MCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 6/13/2007 13:17:37
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MCV

Analyte	Back Pressure	Flow
All	291.0 kPa	0.65 L/min

Mean Data: MCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	419494.8	99.8 %		1.06			1.07%
Yr	222149.3	111 %		0.1			0.08%
Ag†	127656.2	0.484 mg/L		0.0003	0.484 mg/L	0.0003	0.06%
	QC value within limits for Ag	Recovery = 96.79%					
Al†	9216.3	2.56 mg/L		0.051	2.56 mg/L	0.051	1.99%
	QC value within limits for Al	Recovery = 102.55%					
As†	5034.6	2.60 mg/L		0.020	2.60 mg/L	0.020	0.77%
	QC value within limits for As	Recovery = 104.19%					
B_†	41676.1	1.30 mg/L		0.003	1.30 mg/L	0.003	0.21%
	QC value within limits for B_	Recovery = 104.08%					
Ba†	187555.5	2.69 mg/L		0.003	2.69 mg/L	0.003	0.11%
	QC value within limits for Ba	Recovery = 107.49%					
Be†	3166203.9	1.08 mg/L		0.000	1.08 mg/L	0.000	0.00%
	QC value within limits for Be	Recovery = 107.73%					
Ca†	192477.6	26.5 mg/L		0.02	26.5 mg/L	0.02	0.09%
	QC value within limits for Ca	Recovery = 106.01%					
Cd†	33889.1	1.30 mg/L		0.013	1.30 mg/L	0.013	1.00%
	QC value within limits for Cd	Recovery = 104.03%					
Co†	67722.9	2.69 mg/L		0.002	2.69 mg/L	0.002	0.08%
	QC value within limits for Co	Recovery = 107.72%					
Cr†	202312.5	2.61 mg/L		0.001	2.61 mg/L	0.001	0.04%
	QC value within limits for Cr	Recovery = 104.31%					
Cu†	919164.6	2.64 mg/L		0.008	2.64 mg/L	0.008	0.29%
	QC value within limits for Cu	Recovery = 105.60%					
Fe†	3179.6	2.60 mg/L		0.035	2.60 mg/L	0.035	1.36%
	QC value within limits for Fe	Recovery = 103.87%					
K†	29423.2	24.7 mg/L		0.24	24.7 mg/L	0.24	0.96%
	QC value within limits for K	Recovery = 98.80%					
Mg†	104552.8	25.9 mg/L		0.02	25.9 mg/L	0.02	0.08%
	QC value within limits for Mg	Recovery = 103.52%					
Mn†	1509808.1	2.69 mg/L		0.000	2.69 mg/L	0.000	0.01%
	QC value within limits for Mn	Recovery = 107.79%					
Mo†	30589.2	2.61 mg/L		0.023	2.61 mg/L	0.023	0.88%
	QC value within limits for Mo	Recovery = 104.24%					
Na†	79295.6	25.5 mg/L		0.27	25.5 mg/L	0.27	1.04%
	QC value within limits for Na	Recovery = 101.91%					
Ni†	60690.2	2.73 mg/L		0.004	2.73 mg/L	0.004	0.15%
	QC value within limits for Ni	Recovery = 109.40%					
Pb†	13021.9	2.75 mg/L		0.028	2.75 mg/L	0.028	1.02%
	QC value greater than the upper limit for Pb	Recovery = 110.17%					
Sb†	4898.5	2.53 mg/L		0.028	2.53 mg/L	0.028	1.11%
	QC value within limits for Sb	Recovery = 101.29%					
Se†	3458.6	2.74 mg/L		0.028	2.74 mg/L	0.028	1.02%
	QC value within limits for Se	Recovery = 109.54%					
Tl†	7628.2	2.81 mg/L		0.024	2.81 mg/L	0.024	0.87%
	QC value greater than the upper limit for Tl	Recovery = 112.52%					
V†	422032.5	2.61 mg/L		0.001	2.61 mg/L	0.001	0.06%
	QC value within limits for V	Recovery = 104.52%					
Zn†	128264.5	2.73 mg/L		0.004	2.73 mg/L	0.004	0.14%
	QC value within limits for Zn	Recovery = 109.03%					
Alx†	225843.5	2500 ug/L		7.0	2.50 mg/L	0.007	0.28%
	QC value within limits for Alx	Recovery = 99.99%					
Bex†	3166203.9	1080 ug/L		0.0	1.08 mg/L	0.000	0.00%

QC value within limits for Bex Recovery = 107.70%
QC Failed. Continue with analysis.

Sequence No.: 71
 Sample ID: D706120636
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 79
 Date Collected: 6/13/2007 13:34:26
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: D706120636

Analyte Back Pressure Flow
 All 296.0 kPa 0.65 L/min

Mean Data: D706120636

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	391109.0	93.1	%	0.67			0.71%
Yr	213069.4	107	%	0.8			0.74%
Ag†	86.5	0.00033	mg/L	0.000269	0.00033 mg/L	0.000269	82.18%
Al†	-23.2	-0.00682	mg/L	0.000480	-0.00682 mg/L	0.000480	7.04%
As†	-59.8	-0.0308	mg/L	0.00180	-0.0308 mg/L	0.00180	5.82%
B†	9364.9	0.294	mg/L	0.0032	0.294 mg/L	0.0032	1.08%
Ba†	2221.0	0.0318	mg/L	0.00020	0.0318 mg/L	0.00020	0.62%
Be†	-624.2	-0.00021	mg/L	0.000006	-0.00021 mg/L	0.000006	2.93%
Ca†	345966.3	47.6	mg/L	0.06	47.6 mg/L	0.06	0.13%
Cd†	-10.0	0.00003	mg/L	0.000156	0.00003 mg/L	0.000156	610.87%
Co†	-9.4	-0.00037	mg/L	0.000021	-0.00037 mg/L	0.000021	5.70%
Cr†	-20.0	-0.00026	mg/L	0.000096	-0.00026 mg/L	0.000096	37.28%
Cu†	481.5	0.00138	mg/L	0.000000	0.00138 mg/L	0.000000	0.01%
Fe†	-0.3	-0.00027	mg/L	0.000406	-0.00027 mg/L	0.000406	152.62%
K†	10196.0	8.56	mg/L	0.064	8.56 mg/L	0.064	0.75%
Mg†	155590.7	38.5	mg/L	0.14	38.5 mg/L	0.14	0.35%
Mn†	33665.2	0.0601	mg/L	0.00023	0.0601 mg/L	0.00023	0.38%
Mo†	27.3	0.00233	mg/L	0.000316	0.00233 mg/L	0.000316	13.57%
Na†	564400.2	181	mg/L	1.0	181 mg/L	1.0	0.55%
Ni†	-1.7	-0.00008	mg/L	0.000828	-0.00008 mg/L	0.000828	>999.9%
Pb†	-12.6	-0.00266	mg/L	0.000218	-0.00266 mg/L	0.000218	8.19%
Sb†	-1.8	-0.00094	mg/L	0.000530	-0.00094 mg/L	0.000530	56.43%
Se†	57.7	0.0456	mg/L	0.00327	0.0456 mg/L	0.00327	7.18%
Tl†	18.3	-0.0102	mg/L	0.00064	-0.0102 mg/L	0.00064	6.30%
V†	148.7	0.00092	mg/L	0.000041	0.00092 mg/L	0.000041	4.46%
Zn†	-139.9	-0.00299	mg/L	0.000030	-0.00299 mg/L	0.000030	0.99%
Alx†	194.0	2.15	ug/L	1.096	0.00215 mg/L	0.001096	51.01%
Bex†	-624.2	-0.212	ug/L	0.0062	-0.00021 mg/L	0.000006	2.93%

Sequence No.: 78

Sample ID: CCV

Analyst:

Initial Sample Wt:

Dilution:

Autosampler Location: 4

Date Collected: 6/13/2007 14:01:54

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	294.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	404532.7	96.3 %	0.82			0.85%
Yr	218117.7	109 %	0.5			0.46%
Ag†	251626.8	0.954 mg/L	0.0015	0.954 mg/L	0.0015	0.16%
QC value within limits for Ag		Recovery = 95.39%				
Al†	18303.0	5.09 mg/L	0.005	5.09 mg/L	0.005	0.10%
QC value within limits for Al		Recovery = 101.86%				
As†	9952.0	5.15 mg/L	0.107	5.15 mg/L	0.107	2.09%
QC value within limits for As		Recovery = 102.97%				
B_†	81468.3	2.54 mg/L	0.004	2.54 mg/L	0.004	0.17%
QC value within limits for B_		Recovery = 101.73%				
Ba†	366977.1	5.26 mg/L	0.006	5.26 mg/L	0.006	0.11%
QC value within limits for Ba		Recovery = 105.16%				
Be†	6282087.9	2.14 mg/L	0.020	2.14 mg/L	0.020	0.92%
QC value within limits for Be		Recovery = 106.88%				
Ca†	378129.1	52.1 mg/L	0.22	52.1 mg/L	0.22	0.43%
QC value within limits for Ca		Recovery = 104.13%				
Cd†	66628.2	2.56 mg/L	0.041	2.56 mg/L	0.041	1.61%
QC value within limits for Cd		Recovery = 102.24%				
Co†	132345.4	5.26 mg/L	0.005	5.26 mg/L	0.005	0.10%
QC value within limits for Co		Recovery = 105.25%				
Cr†	396574.3	5.11 mg/L	0.003	5.11 mg/L	0.003	0.06%
QC value within limits for Cr		Recovery = 102.24%				
Cu†	1833067.3	5.26 mg/L	0.007	5.26 mg/L	0.007	0.14%
QC value within limits for Cu		Recovery = 105.30%				
Fe†	6261.6	5.11 mg/L	0.025	5.11 mg/L	0.025	0.50%
QC value within limits for Fe		Recovery = 102.27%				
K†	58391.4	49.0 mg/L	0.48	49.0 mg/L	0.48	0.98%
QC value within limits for K		Recovery = 98.04%				
Mg†	200844.7	49.7 mg/L	0.22	49.7 mg/L	0.22	0.43%
QC value within limits for Mg		Recovery = 99.43%				
Mn†	2971993.0	5.30 mg/L	0.007	5.30 mg/L	0.007	0.13%
QC value within limits for Mn		Recovery = 106.09%				
Mo†	60249.1	5.13 mg/L	0.079	5.13 mg/L	0.079	1.55%
QC value within limits for Mo		Recovery = 102.66%				
Na†	154706.5	49.7 mg/L	0.51	49.7 mg/L	0.51	1.03%
QC value within limits for Na		Recovery = 99.41%				
Ni†	117747.9	5.31 mg/L	0.003	5.31 mg/L	0.003	0.06%
QC value within limits for Ni		Recovery = 106.12%				
Pb†	25425.2	5.38 mg/L	0.076	5.38 mg/L	0.076	1.42%
QC value within limits for Pb		Recovery = 107.56%				
Sb†	9649.9	4.99 mg/L	0.101	4.99 mg/L	0.101	2.03%
QC value within limits for Sb		Recovery = 99.78%				
Se†	6823.1	5.40 mg/L	0.076	5.40 mg/L	0.076	1.41%
QC value within limits for Se		Recovery = 108.04%				
Tl†	14778.7	5.45 mg/L	0.074	5.45 mg/L	0.074	1.35%
QC value within limits for Tl		Recovery = 108.99%				
V†	834527.1	5.17 mg/L	0.002	5.17 mg/L	0.002	0.03%
QC value within limits for V		Recovery = 103.34%				
Zn†	250314.8	5.32 mg/L	0.005	5.32 mg/L	0.005	0.09%
QC value within limits for Zn		Recovery = 106.40%				
Alx†	447289.5	4950 ug/L	4.2	4.95 mg/L	0.004	0.09%
QC value within limits for Alx		Recovery = 99.01%				
Bex†	6282087.9	2140 ug/L	19.6	2.14 mg/L	0.020	0.92%
QC value within limits for Bex		Recovery = 106.85%				

All analyte(s) passed QC.

Sequence No.: 79
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/13/2007 14:05:13
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	294.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	424952.6	101 %		0.2			0.23%
Yr	230249.0	115 %		1.4			1.20%
Ag†	157.9	0.00060 mg/L		0.000013	0.00060 mg/L	0.000013	2.24%
QC value within limits for Ag		Recovery = Not calculated					
Al†	-70.5	-0.0205 mg/L		0.00014	-0.0205 mg/L	0.00014	0.69%
QC value within limits for Al		Recovery = Not calculated					
As†	32.8	0.0169 mg/L		0.00414	0.0169 mg/L	0.00414	24.42%
QC value within limits for As		Recovery = Not calculated					
B_†	648.0	0.0203 mg/L		0.00108	0.0203 mg/L	0.00108	5.30%
QC value greater than the upper limit for B		Recovery = Not calculated					
Ba†	-0.4	-0.00001 mg/L		0.000024	-0.00001 mg/L	0.000024	435.08%
QC value within limits for Ba		Recovery = Not calculated					
Be†	58.1	0.00002 mg/L		0.000028	0.00002 mg/L	0.000028	140.34%
QC value within limits for Be		Recovery = Not calculated					
Ca†	11.6	0.00159 mg/L		0.000030	0.00159 mg/L	0.000030	1.90%
QC value within limits for Ca		Recovery = Not calculated					
Cd†	9.7	0.00015 mg/L		0.000360	0.00015 mg/L	0.000360	241.04%
QC value within limits for Cd		Recovery = Not calculated					
Co†	5.3	0.00021 mg/L		0.000228	0.00021 mg/L	0.000228	108.67%
QC value within limits for Co		Recovery = Not calculated					
Cr†	27.1	0.00035 mg/L		0.000110	0.00035 mg/L	0.000110	31.56%
QC value within limits for Cr		Recovery = Not calculated					
Cu†	128.7	0.00037 mg/L		0.000156	0.00037 mg/L	0.000156	42.18%
QC value within limits for Cu		Recovery = Not calculated					
Fe†	1.4	0.00112 mg/L		0.001326	0.00112 mg/L	0.001326	118.78%
QC value within limits for Fe		Recovery = Not calculated					
K†	102.8	0.0863 mg/L		0.07439	0.0863 mg/L	0.07439	86.22%
QC value within limits for K		Recovery = Not calculated					
Mg†	6.1	0.00151 mg/L		0.000206	0.00151 mg/L	0.000206	13.66%
QC value within limits for Mg		Recovery = Not calculated					
Mn†	-232.2	-0.00041 mg/L		0.000002	-0.00041 mg/L	0.000002	0.60%
QC value within limits for Mn		Recovery = Not calculated					
Mo†	14.5	0.00123 mg/L		0.000493	0.00123 mg/L	0.000493	39.98%
QC value within limits for Mo		Recovery = Not calculated					
Na†	329.7	0.106 mg/L		0.0135	0.106 mg/L	0.0135	12.78%
QC value within limits for Na		Recovery = Not calculated					
Ni†	-0.2	-0.00001 mg/L		0.000358	-0.00001 mg/L	0.000358	>999.9%
QC value within limits for Ni		Recovery = Not calculated					
Pb†	2.7	0.00058 mg/L		0.000409	0.00058 mg/L	0.000409	70.35%
QC value within limits for Pb		Recovery = Not calculated					
Sb†	11.8	0.00621 mg/L		0.001326	0.00621 mg/L	0.001326	21.34%
QC value within limits for Sb		Recovery = Not calculated					
Se†	-7.8	-0.00613 mg/L		0.002659	-0.00613 mg/L	0.002659	43.35%
QC value within limits for Se		Recovery = Not calculated					
Tl†	4.4	0.00162 mg/L		0.000096	0.00162 mg/L	0.000096	5.89%
QC value within limits for Tl		Recovery = Not calculated					
V†	13.1	0.00008 mg/L		0.000343	0.00008 mg/L	0.000343	414.10%
QC value within limits for V		Recovery = Not calculated					
Zn†	-43.8	-0.00094 mg/L		0.000093	-0.00094 mg/L	0.000093	9.98%
QC value within limits for Zn		Recovery = Not calculated					
Alx†	215.4	2.38 ug/L		2.600	0.00238 mg/L	0.002600	109.04%
QC value within limits for Alx		Recovery = Not calculated					
Bex†	58.1	0.0198 ug/L		0.02783	0.00002 mg/L	0.000028	140.71%
QC value within limits for Bex		Recovery = Not calculated					

QC Failed. Retry.

Sequence No.: 80
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/13/2007 14:07:52
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte Back Pressure Flow
 All 294.0 kPa 0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	426217.2	101 %	0.3			0.27%
Yr	227953.5	114 %	1.5			1.34%
Ag†	78.0	0.00030 mg/L	0.000462	0.00030 mg/L	0.000462	156.31%
	QC value within limits for Ag	Recovery = Not calculated				
Al†	-65.1	-0.0189 mg/L	0.00479	-0.0189 mg/L	0.00479	25.29%
	QC value within limits for Al	Recovery = Not calculated				
As†	18.4	0.00951 mg/L	0.001087	0.00951 mg/L	0.001087	11.43%
	QC value within limits for As	Recovery = Not calculated				
B_†	477.8	0.0150 mg/L	0.00060	0.0150 mg/L	0.00060	3.98%
	QC value within limits for B_	Recovery = Not calculated				
Ba†	-5.5	-0.00008 mg/L	0.000028	-0.00008 mg/L	0.000028	35.88%
	QC value within limits for Ba	Recovery = Not calculated				
Be†	61.6	0.00002 mg/L	0.000011	0.00002 mg/L	0.000011	53.31%
	QC value within limits for Be	Recovery = Not calculated				
Ca†	7.2	0.00099 mg/L	0.000070	0.00099 mg/L	0.000070	7.04%
	QC value within limits for Ca	Recovery = Not calculated				
Cd†	5.8	0.00010 mg/L	0.000159	0.00010 mg/L	0.000159	159.35%
	QC value within limits for Cd	Recovery = Not calculated				
Co†	2.3	0.00009 mg/L	0.000034	0.00009 mg/L	0.000034	36.94%
	QC value within limits for Co	Recovery = Not calculated				
Cr†	9.9	0.00013 mg/L	0.000036	0.00013 mg/L	0.000036	28.62%
	QC value within limits for Cr	Recovery = Not calculated				
Cu†	87.0	0.00025 mg/L	0.000022	0.00025 mg/L	0.000022	8.90%
	QC value within limits for Cu	Recovery = Not calculated				
Fe†	2.2	0.00179 mg/L	0.000359	0.00179 mg/L	0.000359	20.07%
	QC value within limits for Fe	Recovery = Not calculated				
K†	97.7	0.0821 mg/L	0.01858	0.0821 mg/L	0.01858	22.64%
	QC value within limits for K	Recovery = Not calculated				
Mg†	4.9	0.00123 mg/L	0.000151	0.00123 mg/L	0.000151	12.30%
	QC value within limits for Mg	Recovery = Not calculated				
Mn†	-257.9	-0.00046 mg/L	0.000003	-0.00046 mg/L	0.000003	0.74%
	QC value within limits for Mn	Recovery = Not calculated				
Mo†	7.7	0.00066 mg/L	0.000252	0.00066 mg/L	0.000252	38.49%
	QC value within limits for Mo	Recovery = Not calculated				
Na†	302.1	0.0970 mg/L	0.00873	0.0970 mg/L	0.00873	9.00%
	QC value within limits for Na	Recovery = Not calculated				
Ni†	-2.1	-0.00010 mg/L	0.000216	-0.00010 mg/L	0.000216	224.20%
	QC value within limits for Ni	Recovery = Not calculated				
Pb†	-6.1	-0.00130 mg/L	0.001684	-0.00130 mg/L	0.001684	129.87%
	QC value within limits for Pb	Recovery = Not calculated				
Sb†	6.3	0.00332 mg/L	0.002751	0.00332 mg/L	0.002751	82.74%
	QC value within limits for Sb	Recovery = Not calculated				
Se†	-6.8	-0.00539 mg/L	0.002436	-0.00539 mg/L	0.002436	45.16%
	QC value within limits for Se	Recovery = Not calculated				
Tl†	1.5	0.00054 mg/L	0.000209	0.00054 mg/L	0.000209	38.98%
	QC value within limits for Tl	Recovery = Not calculated				
V†	18.3	0.00011 mg/L	0.000232	0.00011 mg/L	0.000232	204.56%
	QC value within limits for V	Recovery = Not calculated				
Zn†	-43.4	-0.00093 mg/L	0.000018	-0.00093 mg/L	0.000018	1.94%
	QC value within limits for Zn	Recovery = Not calculated				
Alx†	31.7	0.351 ug/L	0.0221	0.00035 mg/L	0.000022	6.30%
	QC value within limits for Alx	Recovery = Not calculated				
Bex†	61.6	0.0210 ug/L	0.01119	0.00002 mg/L	0.000011	53.39%

QC value within limits for Bex Recovery = Not calculated
All analyte(s) passed QC.

Sequence No.: 86
 Sample ID: 2706120335_2X
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 91
 Date Collected: 6/13/2007 14:32:04
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: 2706120335_2X

Analyte Back Pressure Flow
 All 293.0 kPa 0.65 L/min

Mean Data: 2706120335_2X

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	353476.6	84.1 %		1.86			2.22%
Yr	214058.0	107 %		2.8			2.63%
Ag+	56.1	0.00021 mg/L		0.000253	0.00043 mg/L	0.000507	119.21%
Al+	4.1	-0.00089 mg/L		0.003021	-0.00178 mg/L	0.006042	339.86%
As+	1.8	0.00101 mg/L		0.003452	0.00202 mg/L	0.006905	342.63%
B+	65170.1	2.04 mg/L		0.001	4.09 mg/L	0.001	0.03%
Ba+	967.7	0.0139 mg/L		0.00016	0.0277 mg/L	0.00032	1.16%
Be+	-1502.3	-0.00051 mg/L		0.000009	-0.00102 mg/L	0.000017	1.69%
Ca+	1836145.6	253 mg/L		1.1	506 mg/L	2.3	0.45%
Cd+	-4.4	-0.00017 mg/L		0.000041	-0.00035 mg/L	0.000082	23.46%
Co+	66.4	0.00264 mg/L		0.000343	0.00528 mg/L	0.000687	13.02%
Cr+	2081.4	0.0268 mg/L		0.00043	0.0537 mg/L	0.00086	1.60%
Cu+	671.2	0.00191 mg/L		0.000215	0.00382 mg/L	0.000431	11.28%
Fe+	108.9	0.0889 mg/L		0.00530	0.178 mg/L	0.0106	5.96%
K+	19659.8	16.5 mg/L		0.04	33.0 mg/L	0.07	0.22%
Mg+	454518.5	112 mg/L		1.0	225 mg/L	1.9	0.87%
Mn+	299860.3	0.535 mg/L		0.0004	1.07 mg/L	0.001	0.07%
Mo+	569.7	0.0485 mg/L		0.00116	0.0971 mg/L	0.00231	2.38%
Na+	2286811.1	735 mg/L		4.1	1470 mg/L	8.2	0.56%
Ni+	137.1	0.00618 mg/L		0.000474	0.0124 mg/L	0.00095	7.68%
Pb+	-27.1	-0.00573 mg/L		0.000340	-0.0115 mg/L	0.00068	5.93%
Sb+	11.1	0.00534 mg/L		0.002640	0.0107 mg/L	0.00528	49.49%
Se+	-25.5	-0.0200 mg/L		0.00433	-0.0399 mg/L	0.00865	21.66%
Tl+	26.6	-0.0792 mg/L		0.00035	-0.158 mg/L	0.0007	0.44%
V+	4357.4	0.0270 mg/L		0.00054	0.0540 mg/L	0.00108	2.00%
Zn+	52.5	0.00108 mg/L		0.000359	0.00217 mg/L	0.000717	33.08%
Alx+	135.9	1.50 ug/L		1.553	0.00301 mg/L	0.003106	103.25%
Bex+	-1502.3	-0.511 ug/L		0.0087	-0.00102 mg/L	0.000017	1.69%

Sequence No.: 87
 Sample ID: WASH
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 0
 Date Collected: 6/13/2007 14:36:30
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: WASH

Analyte Back Pressure Flow
 All 298.0 kPa 0.65 L/min

Mean Data: WASH

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	440887.6	105 %		0.9				0.82%
Yr	241303.4	121 %		1.1				0.88%
Ag†	14.7	0.00006	mg/L	0.000038	0.00006	mg/L	0.000038	68.69%
Al†	-26.7	-0.00775	mg/L	0.010744	-0.00775	mg/L	0.010744	138.59%
As†	4.1	0.00213	mg/L	0.001412	0.00213	mg/L	0.001412	66.37%
B ₁ †	607.9	0.0191	mg/L	0.00059	0.0191	mg/L	0.00059	3.08%
Ba†	3.2	0.00005	mg/L	0.000109	0.00005	mg/L	0.000109	237.79%
Be†	-34.5	-0.00001	mg/L	0.000017	-0.00001	mg/L	0.000017	146.68%
Ca†	19.5	0.00268	mg/L	0.000090	0.00268	mg/L	0.000090	3.36%
Cd†	1.5	0.00003	mg/L	0.000157	0.00003	mg/L	0.000157	506.40%
Co†	2.6	0.00011	mg/L	0.000152	0.00011	mg/L	0.000152	144.46%
Cr†	58.9	0.00076	mg/L	0.000012	0.00076	mg/L	0.000012	1.63%
Cu†	53.1	0.00015	mg/L	0.000062	0.00015	mg/L	0.000062	40.50%
Fe†	4.3	0.00349	mg/L	0.001542	0.00349	mg/L	0.001542	44.18%
K†	119.1	0.1000	mg/L	0.03335	0.1000	mg/L	0.03335	33.36%
Mg†	9.7	0.00241	mg/L	0.001428	0.00241	mg/L	0.001428	59.31%
Mn†	-271.0	-0.00048	mg/L	0.000010	-0.00048	mg/L	0.000010	2.13%
Mo†	3.0	0.00026	mg/L	0.000033	0.00026	mg/L	0.000033	12.83%
Na†	1099.0	0.353	mg/L	0.0219	0.353	mg/L	0.0219	6.21%
Ni†	-2.2	-0.00010	mg/L	0.000286	-0.00010	mg/L	0.000286	295.34%
Pb†	3.8	0.00080	mg/L	0.000295	0.00080	mg/L	0.000295	36.83%
Sb†	-1.7	-0.00093	mg/L	0.003344	-0.00093	mg/L	0.003344	361.30%
Se†	-12.6	-0.00997	mg/L	0.001753	-0.00997	mg/L	0.001753	17.59%
Tl†	-2.7	-0.00101	mg/L	0.000643	-0.00101	mg/L	0.000643	63.75%
V†	3.6	0.00003	mg/L	0.000252	0.00003	mg/L	0.000252	979.62%
Zn†	-42.4	-0.00091	mg/L	0.000038	-0.00091	mg/L	0.000038	4.19%
Alx†	33.0	0.366	ug/L	0.5516	0.00037	mg/L	0.000552	150.88%
Bext	-34.5	-0.0117	ug/L	0.01703	-0.00001	mg/L	0.000017	145.33%

Sequence No.: 88
 Sample ID: WASH
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 0
 Date Collected: 6/13/2007 14:39:57
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: WASH

Analyte Back Pressure Flow
 All 298.0 kPa 0.65 L/min

Mean Data: WASH

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	423118.0	101 %		0.4				0.44%
Yr	231285.8	116 %		1.2				1.00%
Ag†	70.3	0.00027	mg/L	0.000383	0.00027	mg/L	0.000383	143.95%
Al†	-20.1	-0.00585	mg/L	0.005424	-0.00585	mg/L	0.005424	92.64%
As†	3.0	0.00155	mg/L	0.001201	0.00155	mg/L	0.001201	77.64%
B ₁ †	463.2	0.0145	mg/L	0.00018	0.0145	mg/L	0.00018	1.27%
Ba†	-7.0	-0.00010	mg/L	0.000128	-0.00010	mg/L	0.000128	127.90%
Be†	-113.6	-0.00004	mg/L	0.000008	-0.00004	mg/L	0.000008	21.74%
Ca†	9.4	0.00130	mg/L	0.001865	0.00130	mg/L	0.001865	143.93%

Cdt	1.2	0.00002 mg/L	0.000200	0.00002 mg/L	0.000200	809.78%
Cot	-0.5	-0.00002 mg/L	0.000079	-0.00002 mg/L	0.000079	441.28%
Crt	39.3	0.00051 mg/L	0.000216	0.00051 mg/L	0.000216	42.69%
Cuf	58.9	0.00017 mg/L	0.000192	0.00017 mg/L	0.000192	113.84%
Fet	2.5	0.00202 mg/L	0.000479	0.00202 mg/L	0.000479	23.69%
Kt	107.1	0.0899 mg/L	0.04892	0.0899 mg/L	0.04892	54.43%
Mgt	7.2	0.00178 mg/L	0.000955	0.00178 mg/L	0.000955	53.64%
Mnt	-281.0	-0.00050 mg/L	0.000007	-0.00050 mg/L	0.000007	1.34%
Mot	5.5	0.00047 mg/L	0.000148	0.00047 mg/L	0.000148	31.63%
Nat	788.3	0.253 mg/L	0.0013	0.253 mg/L	0.0013	0.53%
Nit	0.7	0.00003 mg/L	0.000338	0.00003 mg/L	0.000338	>999.9%
Pbt	-2.2	-0.00047 mg/L	0.000972	-0.00047 mg/L	0.000972	208.54%
Sbt	-3.7	-0.00198 mg/L	0.000789	-0.00198 mg/L	0.000789	39.77%
Set	-8.2	-0.00649 mg/L	0.001153	-0.00649 mg/L	0.001153	17.76%
Tlt	1.2	0.00045 mg/L	0.003206	0.00045 mg/L	0.003206	705.58%
Vt	-3.3	-0.00002 mg/L	0.000215	-0.00002 mg/L	0.000215	>999.9%
Znt	-46.1	-0.00099 mg/L	0.000096	-0.00099 mg/L	0.000096	9.77%
Alxt	-81.9	-0.907 ug/L	0.2798	-0.00091 mg/L	0.000280	30.85%
Bext	-113.6	-0.0386 ug/L	0.00841	-0.00004 mg/L	0.000008	21.77%

Sequence No.: 101
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 6/13/2007 15:25:28
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	295.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	379478.0	90.3 %	0.20			0.22%
Yr	213313.2	107 %	0.3			0.29%
Ag†	-7687.2	-0.0291 mg/L	0.00025	-0.0291 mg/L	0.00025	0.84%
QC value within limits for Ag		Recovery = Not calculated				
Al†	917633.6	266 mg/L	2.0	266 mg/L	2.0	0.74%
QC value within limits for Al		Recovery = 106.55%				
As†	-446.2	-0.230 mg/L	0.0008	-0.230 mg/L	0.0008	0.33%
QC value within limits for As		Recovery = Not calculated				
B_†	2487.6	0.0780 mg/L	0.00139	0.0780 mg/L	0.00139	1.78%
QC value within limits for B_		Recovery = Not calculated				
Ba†	139.7	0.00200 mg/L	0.000194	0.00200 mg/L	0.000194	9.70%
QC value within limits for Ba		Recovery = Not calculated				
Be†	-1153.7	-0.00039 mg/L	0.000001	-0.00039 mg/L	0.000001	0.17%
QC value within limits for Be		Recovery = Not calculated				
Ca†	1923786.3	265 mg/L	2.5	265 mg/L	2.5	0.94%
QC value within limits for Ca		Recovery = 105.95%				
Cd†	-31.9	0.00189 mg/L	0.000200	0.00189 mg/L	0.000200	10.60%
QC value within limits for Cd		Recovery = Not calculated				
Co†	39.1	0.00155 mg/L	0.000182	0.00155 mg/L	0.000182	11.74%
QC value within limits for Co		Recovery = Not calculated				
Cr†	-52.7	-0.00068 mg/L	0.000089	-0.00068 mg/L	0.000089	13.12%
QC value within limits for Cr		Recovery = Not calculated				
Cu†	-5084.7	-0.0146 mg/L	0.00001	-0.0146 mg/L	0.00001	0.06%
QC value within limits for Cu		Recovery = Not calculated				
Fe†	123889.5	101 mg/L	0.3	101 mg/L	0.3	0.29%
QC value within limits for Fe		Recovery = 101.13%				
K†	158.9	0.133 mg/L	0.0310	0.133 mg/L	0.0310	23.22%
QC value within limits for K		Recovery = Not calculated				
Mg†	948559.0	235 mg/L	2.3	235 mg/L	2.3	0.98%
QC value within limits for Mg		Recovery = 93.96%				
Mn†	1225.6	0.00219 mg/L	0.000025	0.00219 mg/L	0.000025	1.14%
QC value within limits for Mn		Recovery = Not calculated				
Mo†	-22.9	-0.00195 mg/L	0.000056	-0.00195 mg/L	0.000056	2.88%
QC value within limits for Mo		Recovery = Not calculated				
Na†	476.1	0.153 mg/L	0.0366	0.153 mg/L	0.0366	23.96%
QC value within limits for Na		Recovery = Not calculated				
Ni†	-24.1	-0.00109 mg/L	0.000160	-0.00109 mg/L	0.000160	14.67%
QC value within limits for Ni		Recovery = Not calculated				
Pb†	-196.4	-0.0415 mg/L	0.00064	-0.0415 mg/L	0.00064	1.55%
QC value within limits for Pb		Recovery = Not calculated				
Sb†	8.8	0.00464 mg/L	0.000697	0.00464 mg/L	0.000697	15.03%
QC value within limits for Sb		Recovery = Not calculated				
Se†	-337.1	-0.0280 mg/L	0.00442	-0.0280 mg/L	0.00442	15.79%
QC value within limits for Se		Recovery = Not calculated				
Tl†	24.0	-0.0868 mg/L	0.00062	-0.0868 mg/L	0.00062	0.71%
QC value within limits for Tl		Recovery = Not calculated				
V†	-601.2	0.00002 mg/L	0.000140	0.00002 mg/L	0.000140	744.13%
QC value within limits for V		Recovery = Not calculated				
Zn†	761.7	0.0163 mg/L	0.00005	0.0163 mg/L	0.00005	0.31%
QC value within limits for Zn		Recovery = Not calculated				
Alx†	Saturated2					
Unable to evaluate QC.						
Bex†	-1153.7	-0.392 ug/L	0.0007	-0.00039 mg/L	0.000001	0.17%
QC value within limits for Bex		Recovery = Not calculated				

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 102
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 11
 Date Collected: 6/13/2007 15:29:16
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	295.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	382353.6	91.0 %		0.37			0.41%
Yr	220213.0	110 %		0.5			0.47%
Ag†	2362.6	0.00896 mg/L		0.000248	0.00896 mg/L	0.000248	2.77%
	QC value less than the lower limit for Ag Recovery = 1.79%						
Al†	887459.3	258 mg/L		2.2	258 mg/L	2.2	0.84%
	QC value within limits for Al Recovery = 103.05%						
As†	-442.0	-0.227 mg/L		0.0035	-0.227 mg/L	0.0035	1.56%
	QC value less than the lower limit for As Recovery = Not calculated						
B_†	2371.4	0.0738 mg/L		0.00025	0.0738 mg/L	0.00025	0.34%
	QC value greater than the upper limit for B_ Recovery = Not calculated						
Ba†	18721.4	0.268 mg/L		0.0009	0.268 mg/L	0.0009	0.35%
	QC value within limits for Ba Recovery = 107.29%						
Be†	766821.6	0.261 mg/L		0.0015	0.261 mg/L	0.0015	0.57%
	QC value within limits for Be Recovery = 104.35%						
Ca†	1859556.2	256 mg/L		3.1	256 mg/L	3.1	1.21%
	QC value within limits for Ca Recovery = 102.42%						
Cd†	13064.2	0.515 mg/L		0.0024	0.515 mg/L	0.0024	0.46%
	QC value within limits for Cd Recovery = 102.97%						
Co†	6304.4	0.251 mg/L		0.0015	0.251 mg/L	0.0015	0.59%
	QC value within limits for Co Recovery = 100.28%						
Cr†	19801.4	0.255 mg/L		0.0014	0.255 mg/L	0.0014	0.55%
	QC value within limits for Cr Recovery = 102.09%						
Cu†	89045.1	0.256 mg/L		0.0006	0.256 mg/L	0.0006	0.23%
	QC value within limits for Cu Recovery = 102.34%						
Fe†	121631.0	99.3 mg/L		0.39	99.3 mg/L	0.39	0.39%
	QC value within limits for Fe Recovery = 99.29%						
K†	166.0	0.139 mg/L		0.0269	0.139 mg/L	0.0269	19.28%
	QC value within limits for K Recovery = Not calculated						
Mg†	917985.6	227 mg/L		2.3	227 mg/L	2.3	0.99%
	QC value within limits for Mg Recovery = 90.93%						
Mn†	150517.3	0.269 mg/L		0.0009	0.269 mg/L	0.0009	0.32%
	QC value within limits for Mn Recovery = 107.46%						
Mo†	-32.2	-0.00274 mg/L		0.000059	-0.00274 mg/L	0.000059	2.16%
	QC value within limits for Mo Recovery = Not calculated						
Na†	347.8	0.112 mg/L		0.0078	0.112 mg/L	0.0078	6.98%
	QC value within limits for Na Recovery = Not calculated						
Ni†	10866.6	0.490 mg/L		0.0027	0.490 mg/L	0.0027	0.55%
	QC value within limits for Ni Recovery = 97.97%						
Pb†	2296.7	0.486 mg/L		0.0021	0.486 mg/L	0.0021	0.43%
	QC value within limits for Pb Recovery = 97.16%						
Sb†	22.3	0.00710 mg/L		0.000673	0.00710 mg/L	0.000673	9.48%
	QC value within limits for Sb Recovery = Not calculated						
Se†	-321.2	-0.0198 mg/L		0.00512	-0.0198 mg/L	0.00512	25.89%
	QC value within limits for Se Recovery = Not calculated						
Tl†	29.9	-0.0800 mg/L		0.00429	-0.0800 mg/L	0.00429	5.36%
	QC value less than the lower limit for Tl Recovery = Not calculated						
V†	40868.6	0.257 mg/L		0.0002	0.257 mg/L	0.0002	0.10%
	QC value within limits for V Recovery = 102.64%						
Zn†	26024.3	0.553 mg/L		0.0024	0.553 mg/L	0.0024	0.44%
	QC value within limits for Zn Recovery = 110.69%						
Alx†	Saturated2						
	Unable to evaluate QC.						
Bex†	766821.6	261 ug/L		1.5	0.261 mg/L	0.0015	0.57%
	QC value within limits for Bex Recovery = 104.34%						

QC Failed. Continue with analysis.

Sequence No.: 103
 Sample ID: Wash
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/13/2007 15:33:01
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: Wash

Analyte Back Pressure Flow
 All 295.0 kPa 0.65 L/min

Mean Data: Wash

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	422033.3	100 %		0.6			0.57%
Yr	232691.3	117 %		0.7			0.63%
Ag†	72.4	0.00027 mg/L		0.000215	0.00027 mg/L	0.000215	78.30%
QC value within limits for Ag		Recovery = Not calculated					
Al†	-21.8	-0.00633 mg/L		0.010595	-0.00633 mg/L	0.010595	167.45%
QC value within limits for Al		Recovery = Not calculated					
As†	7.5	0.00389 mg/L		0.001731	0.00389 mg/L	0.001731	44.55%
QC value within limits for As		Recovery = Not calculated					
B_†	373.5	0.0117 mg/L		0.00013	0.0117 mg/L	0.00013	1.08%
QC value within limits for B_		Recovery = Not calculated					
Ba†	-6.0	-0.00009 mg/L		0.000036	-0.00009 mg/L	0.000036	41.38%
QC value within limits for Ba		Recovery = Not calculated					
Be†	-127.9	-0.00004 mg/L		0.000012	-0.00004 mg/L	0.000012	27.18%
QC value within limits for Be		Recovery = Not calculated					
Ca†	8.2	0.00113 mg/L		0.000735	0.00113 mg/L	0.000735	65.27%
QC value within limits for Ca		Recovery = Not calculated					
Cd†	2.5	0.00005 mg/L		0.000035	0.00005 mg/L	0.000035	78.66%
QC value within limits for Cd		Recovery = Not calculated					
Co†	-2.6	-0.00010 mg/L		0.000074	-0.00010 mg/L	0.000074	71.55%
QC value within limits for Co		Recovery = Not calculated					
Cr†	9.0	0.00012 mg/L		0.000059	0.00012 mg/L	0.000059	50.43%
QC value within limits for Cr		Recovery = Not calculated					
Cu†	65.8	0.00019 mg/L		0.000238	0.00019 mg/L	0.000238	126.30%
QC value within limits for Cu		Recovery = Not calculated					
Fe†	3.3	0.00271 mg/L		0.000961	0.00271 mg/L	0.000961	35.53%
QC value within limits for Fe		Recovery = Not calculated					
K†	102.7	0.0862 mg/L		0.00791	0.0862 mg/L	0.00791	9.18%
QC value within limits for K		Recovery = Not calculated					
Mg†	6.6	0.00163 mg/L		0.001249	0.00163 mg/L	0.001249	76.69%
QC value within limits for Mg		Recovery = Not calculated					
Mn†	-273.1	-0.00049 mg/L		0.000016	-0.00049 mg/L	0.000016	3.28%
QC value within limits for Mn		Recovery = Not calculated					
Mo†	3.2	0.00027 mg/L		0.000334	0.00027 mg/L	0.000334	122.92%
QC value within limits for Mo		Recovery = Not calculated					
Na†	169.8	0.0546 mg/L		0.02396	0.0546 mg/L	0.02396	43.92%
QC value within limits for Na		Recovery = Not calculated					
Ni†	-0.9	-0.00004 mg/L		0.000067	-0.00004 mg/L	0.000067	170.12%
QC value within limits for Ni		Recovery = Not calculated					
Pb†	0.8	0.00017 mg/L		0.000119	0.00017 mg/L	0.000119	69.66%
QC value within limits for Pb		Recovery = Not calculated					
Sb†	-4.6	-0.00242 mg/L		0.000270	-0.00242 mg/L	0.000270	11.19%
QC value within limits for Sb		Recovery = Not calculated					
Se†	-9.2	-0.00729 mg/L		0.002019	-0.00729 mg/L	0.002019	27.67%
QC value within limits for Se		Recovery = Not calculated					
Tl†	-1.7	-0.00062 mg/L		0.001690	-0.00062 mg/L	0.001690	273.38%
QC value within limits for Tl		Recovery = Not calculated					
V†	-33.6	-0.00021 mg/L		0.000273	-0.00021 mg/L	0.000273	132.53%
QC value within limits for V		Recovery = Not calculated					
Zn†	-34.2	-0.00073 mg/L		0.000111	-0.00073 mg/L	0.000111	15.25%
QC value within limits for Zn		Recovery = Not calculated					
Alx†	-15.7	-0.174 ug/L		0.7998	-0.00017 mg/L	0.000800	459.06%
QC value within limits for Alx		Recovery = Not calculated					
Bex†	-127.9	-0.0435 ug/L		0.01182	-0.00004 mg/L	0.000012	27.16%
QC value within limits for Bex		Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 104
 Sample ID: QC-25 lppm
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 12
 Date Collected: 6/13/2007 15:36:27
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: QC-25 lppm

Analyte Back Pressure Flow
 All 295.0 kPa 0.65 L/min

Mean Data: QC-25 lppm

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	424508.5	101 %	0.4			0.43%
Yr	236453.3	118 %	0.6			0.53%
Ag†	58577.7	0.222 mg/L	0.0529	0.222 mg/L	0.0529	23.81%
QC value less than the lower limit for Ag Recovery = 22.21%						
Al†	3752.6	1.05 mg/L	0.009	1.05 mg/L	0.009	0.85%
QC value within limits for Al Recovery = 104.53%						
As†	2039.5	1.06 mg/L	0.003	1.06 mg/L	0.003	0.24%
QC value within limits for As Recovery = 105.51%						
B_†	31275.8	0.978 mg/L	0.0026	0.978 mg/L	0.0026	0.27%
QC value within limits for B_ Recovery = 97.83%						
Ba†	77873.3	1.12 mg/L	0.003	1.12 mg/L	0.003	0.27%
QC value greater than the upper limit for Ba Recovery = 111.57%						
Be†	3079021.4	1.05 mg/L	0.003	1.05 mg/L	0.003	0.27%
QC value within limits for Be Recovery = 104.75%						
Ca†	7946.8	1.09 mg/L	0.003	1.09 mg/L	0.003	0.31%
QC value within limits for Ca Recovery = 109.42%						
Cd†	26566.3	1.03 mg/L	0.003	1.03 mg/L	0.003	0.26%
QC value within limits for Cd Recovery = 102.87%						
Co†	27960.5	1.11 mg/L	0.001	1.11 mg/L	0.001	0.09%
QC value greater than the upper limit for Co Recovery = 111.18%						
Cr†	82416.9	1.06 mg/L	0.000	1.06 mg/L	0.000	0.03%
QC value within limits for Cr Recovery = 106.23%						
Cu†	370825.8	1.07 mg/L	0.000	1.07 mg/L	0.000	0.00%
QC value within limits for Cu Recovery = 106.51%						
Fe†	1270.8	1.04 mg/L	0.002	1.04 mg/L	0.002	0.22%
QC value within limits for Fe Recovery = 103.78%						
K†	11548.7	9.70 mg/L	0.027	9.70 mg/L	0.027	0.28%
QC value within limits for K Recovery = 96.95%						
Mg†	4268.6	1.06 mg/L	0.004	1.06 mg/L	0.004	0.40%
QC value within limits for Mg Recovery = 105.78%						
Mn†	622497.6	1.11 mg/L	0.002	1.11 mg/L	0.002	0.17%
QC value greater than the upper limit for Mn Recovery = 111.11%						
Mo†	12057.7	1.03 mg/L	0.006	1.03 mg/L	0.006	0.56%
QC value within limits for Mo Recovery = 102.73%						
Na†	3434.9	1.10 mg/L	0.000	1.10 mg/L	0.000	0.02%
QC value within limits for Na Recovery = 110.36%						
Ni†	24962.6	1.12 mg/L	0.002	1.12 mg/L	0.002	0.15%
QC value greater than the upper limit for Ni Recovery = 112.49%						
Pb†	5428.3	1.15 mg/L	0.008	1.15 mg/L	0.008	0.71%
QC value greater than the upper limit for Pb Recovery = 114.82%						
Sb†	1951.4	1.01 mg/L	0.000	1.01 mg/L	0.000	0.01%
QC value within limits for Sb Recovery = 100.84%						
Se†	1313.9	1.04 mg/L	0.004	1.04 mg/L	0.004	0.34%
QC value within limits for Se Recovery = 104.04%						
Tl†	3099.1	1.15 mg/L	0.006	1.15 mg/L	0.006	0.51%
QC value greater than the upper limit for Tl Recovery = 114.63%						
V†	166984.5	1.03 mg/L	0.000	1.03 mg/L	0.000	0.04%
QC value within limits for V Recovery = 103.41%						
Zn†	51280.7	1.09 mg/L	0.002	1.09 mg/L	0.002	0.20%
QC value within limits for Zn Recovery = 108.96%						
Alx†	87837.9	972 ug/L	10.0	0.972 mg/L	0.0100	1.02%
QC value within limits for Alx Recovery = 97.22%						
Bex†	3079021.4	1050 ug/L	2.9	1.05 mg/L	0.003	0.27%
QC value within limits for Bex Recovery = 104.74%						

QC Failed. Retry.

Sequence No.: 105
 Sample ID: QC-25 1ppm
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 12
 Date Collected: 6/13/2007 15:39:18
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte Back Pressure Flow
 All 295.0 kPa 0.65 L/min

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	368025.9	87.6 %		17.90			20.44%
Yr	129018.6	64.6 %		18.80			29.11%
Ag†	703.2	0.00267 mg/L		0.001642	0.00267 mg/L	0.001642	61.60%
	QC value less than the lower limit for Ag Recovery = 0.27%						
Al†	227.3	0.0659 mg/L		0.15333	0.0659 mg/L	0.15333	232.51%
	QC value less than the lower limit for Al Recovery = 6.59%						
As†	6.8	0.00350 mg/L		0.000787	0.00350 mg/L	0.000787	22.50%
	QC value less than the lower limit for As Recovery = 0.35%						
B_†	524.3	0.0164 mg/L		0.00525	0.0164 mg/L	0.00525	31.96%
	QC value less than the lower limit for B_ Recovery = 1.64%						
Ba†	10.8	0.00015 mg/L		0.000201	0.00015 mg/L	0.000201	129.73%
	QC value less than the lower limit for Ba Recovery = 0.02%						
Be†	2065.4	0.00070 mg/L		0.000087	0.00070 mg/L	0.000087	12.37%
	QC value less than the lower limit for Be Recovery = 0.07%						
Ca†	759.5	0.105 mg/L		0.0148	0.105 mg/L	0.0148	14.19%
	QC value less than the lower limit for Ca Recovery = 10.46%						
Cd†	13.1	0.00047 mg/L		0.000431	0.00047 mg/L	0.000431	92.67%
	QC value less than the lower limit for Cd Recovery = 0.05%						
Co†	5.2	0.00021 mg/L		0.000520	0.00021 mg/L	0.000520	250.05%
	QC value less than the lower limit for Co Recovery = 0.02%						
Cr†	-42.3	-0.00054 mg/L		0.000709	-0.00054 mg/L	0.000709	130.08%
	QC value less than the lower limit for Cr Recovery = -0.05%						
Cu†	-404.4	-0.00116 mg/L		0.000151	-0.00116 mg/L	0.000151	13.03%
	QC value less than the lower limit for Cu Recovery = -0.12%						
Fe†	1.3	0.00110 mg/L		0.015247	0.00110 mg/L	0.015247	>999.9%
	QC value less than the lower limit for Fe Recovery = 0.11%						
K†	1098.1	0.922 mg/L		0.9795	0.922 mg/L	0.9795	106.26%
	QC value less than the lower limit for K Recovery = 9.22%						
Mg†	25.4	0.00628 mg/L		0.009336	0.00628 mg/L	0.009336	148.56%
	QC value less than the lower limit for Mg Recovery = 0.63%						
Mn†	-264.2	-0.00047 mg/L		0.000016	-0.00047 mg/L	0.000016	3.33%
	QC value less than the lower limit for Mn Recovery = -0.05%						
Mo†	13.7	0.00117 mg/L		0.000464	0.00117 mg/L	0.000464	39.67%
	QC value less than the lower limit for Mo Recovery = 0.12%						
Na†	92.8	0.0298 mg/L		0.19926	0.0298 mg/L	0.19926	668.32%
	QC value less than the lower limit for Na Recovery = 2.98%						
Ni†	2.5	0.00011 mg/L		0.000343	0.00011 mg/L	0.000343	303.67%
	QC value less than the lower limit for Ni Recovery = 0.01%						
Pb†	12.6	0.00267 mg/L		0.001443	0.00267 mg/L	0.001443	54.13%
	QC value less than the lower limit for Pb Recovery = 0.27%						
Sb†	-2.8	-0.00148 mg/L		0.001191	-0.00148 mg/L	0.001191	80.54%
	QC value less than the lower limit for Sb Recovery = -0.15%						
Se†	-5.4	-0.00429 mg/L		0.001010	-0.00429 mg/L	0.001010	23.56%
	QC value less than the lower limit for Se Recovery = -0.43%						
Tl†	4.3	0.00156 mg/L		0.001775	0.00156 mg/L	0.001775	113.82%
	QC value less than the lower limit for Tl Recovery = 0.16%						
V†	1.6	0.00001 mg/L		0.000250	0.00001 mg/L	0.000250	>999.9%
	QC value less than the lower limit for V Recovery = 0.00%						
Zn†	-36.6	-0.00078 mg/L		0.000294	-0.00078 mg/L	0.000294	37.55%
	QC value less than the lower limit for Zn Recovery = -0.08%						
Alx†	-55.9	-0.619 ug/L		1.0666	-0.00062 mg/L	0.001067	172.45%
	QC value less than the lower limit for Alx Recovery = -0.06%						
Bex†	2065.4	0.703 ug/L		0.0870	0.00070 mg/L	0.000087	12.39%

QC value less than the lower limit for Bex Recovery = 0.07%
QC Failed. Continue with analysis.

Sequence No.: 106
 Sample ID: ECV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 6/13/2007 15:42:52
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ECV

Analyte	Back Pressure	Flow
All	294.0 kPa	0.65 L/min

Mean Data: ECV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	410091.2	97.6 %	0.20			0.21%
Yr	232428.0	116 %	0.3			0.30%
Ag†	252976.8	0.959 mg/L	0.0025	0.959 mg/L	0.0025	0.26%
	QC value within limits for Ag	Recovery = 95.90%				
Al†	18617.5	5.18 mg/L	0.023	5.18 mg/L	0.023	0.44%
	QC value within limits for Al	Recovery = 103.68%				
As†	9859.7	5.10 mg/L	0.038	5.10 mg/L	0.038	0.74%
	QC value within limits for As	Recovery = 102.02%				
B_†	80974.7	2.53 mg/L	0.008	2.53 mg/L	0.008	0.33%
	QC value within limits for B_	Recovery = 101.12%				
Ba†	363978.7	5.21 mg/L	0.021	5.21 mg/L	0.021	0.41%
	QC value within limits for Ba	Recovery = 104.30%				
Be†	6284873.4	2.14 mg/L	0.004	2.14 mg/L	0.004	0.21%
	QC value within limits for Be	Recovery = 106.92%				
Ca†	379732.0	52.3 mg/L	0.01	52.3 mg/L	0.01	0.02%
	QC value within limits for Ca	Recovery = 104.57%				
Cd†	66442.1	2.55 mg/L	0.003	2.55 mg/L	0.003	0.12%
	QC value within limits for Cd	Recovery = 101.97%				
Co†	130820.9	5.20 mg/L	0.009	5.20 mg/L	0.009	0.18%
	QC value within limits for Co	Recovery = 104.04%				
Cr†	394307.2	5.08 mg/L	0.009	5.08 mg/L	0.009	0.18%
	QC value within limits for Cr	Recovery = 101.65%				
Cu†	1826630.2	5.25 mg/L	0.025	5.25 mg/L	0.025	0.48%
	QC value within limits for Cu	Recovery = 104.93%				
Fe†	6263.7	5.12 mg/L	0.010	5.12 mg/L	0.010	0.19%
	QC value within limits for Fe	Recovery = 102.31%				
K†	57760.8	48.5 mg/L	0.05	48.5 mg/L	0.05	0.10%
	QC value within limits for K	Recovery = 96.98%				
Mg†	199557.3	49.4 mg/L	0.03	49.4 mg/L	0.03	0.06%
	QC value within limits for Mg	Recovery = 98.80%				
Mn†	2949708.8	5.26 mg/L	0.018	5.26 mg/L	0.018	0.34%
	QC value within limits for Mn	Recovery = 105.30%				
Mo†	60303.8	5.14 mg/L	0.017	5.14 mg/L	0.017	0.33%
	QC value within limits for Mo	Recovery = 102.75%				
Na†	150502.5	48.4 mg/L	0.12	48.4 mg/L	0.12	0.25%
	QC value within limits for Na	Recovery = 96.71%				
Ni†	116584.7	5.25 mg/L	0.006	5.25 mg/L	0.006	0.12%
	QC value within limits for Ni	Recovery = 105.08%				
Pb†	25186.7	5.33 mg/L	0.018	5.33 mg/L	0.018	0.35%
	QC value within limits for Pb	Recovery = 106.55%				
Sb†	9606.5	4.97 mg/L	0.019	4.97 mg/L	0.019	0.38%
	QC value within limits for Sb	Recovery = 99.34%				
Se†	6801.6	5.39 mg/L	0.035	5.39 mg/L	0.035	0.65%
	QC value within limits for Se	Recovery = 107.70%				
Tl†	14679.9	5.41 mg/L	0.002	5.41 mg/L	0.002	0.03%
	QC value within limits for Tl	Recovery = 108.26%				
V†	832524.8	5.15 mg/L	0.012	5.15 mg/L	0.012	0.23%
	QC value within limits for V	Recovery = 103.09%				
Zn†	246893.8	5.25 mg/L	0.014	5.25 mg/L	0.014	0.26%
	QC value within limits for Zn	Recovery = 104.94%				
Alx†	442475.3	4900 ug/L	29.6	4.90 mg/L	0.030	0.60%
	QC value within limits for Alx	Recovery = 97.95%				
Bex†	6284873.4	2140 ug/L	4.4	2.14 mg/L	0.004	0.21%
	QC value within limits for Bex	Recovery = 106.89%				

All analyte(s) passed QC.

Sequence No.: 107
 Sample ID: ECB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/13/2007 15:46:10
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ECB

Analyte Back Pressure Flow
 All 294.0 kPa 0.65 L/min

Mean Data: ECB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	427471.9	102 %		0.5			0.49%
Yr	237383.4	119 %		1.4			1.20%
Ag†	3336.4	0.0126 mg/L		0.00008	0.0126 mg/L	0.00008	0.62%
	QC value greater than the upper limit for Ag Recovery = Not calculated						
Al†	-31.5	-0.00921 mg/L		0.002390	-0.00921 mg/L	0.002390	25.95%
	QC value within limits for Al Recovery = Not calculated						
As†	26.7	0.0137 mg/L		0.00117	0.0137 mg/L	0.00117	8.52%
	QC value within limits for As Recovery = Not calculated						
B†	692.3	0.0217 mg/L		0.00106	0.0217 mg/L	0.00106	4.89%
	QC value greater than the upper limit for B Recovery = Not calculated						
Ba†	4.6	0.00007 mg/L		0.000021	0.00007 mg/L	0.000021	32.60%
	QC value within limits for Ba Recovery = Not calculated						
Be†	13.1	0.00000 mg/L		0.000047	0.00000 mg/L	0.000047	>999.9%
	QC value within limits for Be Recovery = Not calculated						
Ca†	16.9	0.00233 mg/L		0.000085	0.00233 mg/L	0.000085	3.66%
	QC value within limits for Ca Recovery = Not calculated						
Cd†	5.8	0.00004 mg/L		0.000093	0.00004 mg/L	0.000093	232.52%
	QC value within limits for Cd Recovery = Not calculated						
Co†	-0.9	-0.00003 mg/L		0.000097	-0.00003 mg/L	0.000097	285.56%
	QC value within limits for Co Recovery = Not calculated						
Cr†	-4.0	-0.00005 mg/L		0.000121	-0.00005 mg/L	0.000121	232.58%
	QC value within limits for Cr Recovery = Not calculated						
Cu†	107.7	0.00031 mg/L		0.000008	0.00031 mg/L	0.000008	2.63%
	QC value within limits for Cu Recovery = Not calculated						
Fe†	4.7	0.00380 mg/L		0.000076	0.00380 mg/L	0.000076	1.99%
	QC value within limits for Fe Recovery = Not calculated						
K†	72.4	0.0607 mg/L		0.03026	0.0607 mg/L	0.03026	49.82%
	QC value within limits for K Recovery = Not calculated						
Mg†	6.0	0.00149 mg/L		0.001153	0.00149 mg/L	0.001153	77.43%
	QC value within limits for Mg Recovery = Not calculated						
Mn†	-192.2	-0.00034 mg/L		0.000011	-0.00034 mg/L	0.000011	3.11%
	QC value within limits for Mn Recovery = Not calculated						
Mo†	15.7	0.00134 mg/L		0.000338	0.00134 mg/L	0.000338	25.21%
	QC value within limits for Mo Recovery = Not calculated						
Na†	250.8	0.0806 mg/L		0.00035	0.0806 mg/L	0.00035	0.43%
	QC value within limits for Na Recovery = Not calculated						
Ni†	1.1	0.00005 mg/L		0.000259	0.00005 mg/L	0.000259	519.93%
	QC value within limits for Ni Recovery = Not calculated						
Pb†	5.1	0.00108 mg/L		0.001427	0.00108 mg/L	0.001427	132.71%
	QC value within limits for Pb Recovery = Not calculated						
Sb†	5.7	0.00303 mg/L		0.002650	0.00303 mg/L	0.002650	87.50%
	QC value within limits for Sb Recovery = Not calculated						
Se†	-9.4	-0.00742 mg/L		0.000993	-0.00742 mg/L	0.000993	13.38%
	QC value within limits for Se Recovery = Not calculated						
Tl†	6.4	0.00234 mg/L		0.001306	0.00234 mg/L	0.001306	55.70%
	QC value within limits for Tl Recovery = Not calculated						
V†	5.8	0.00004 mg/L		0.000327	0.00004 mg/L	0.000327	906.49%
	QC value within limits for V Recovery = Not calculated						
Zn†	-31.0	-0.00066 mg/L		0.000108	-0.00066 mg/L	0.000108	16.30%
	QC value within limits for Zn Recovery = Not calculated						
Alx†	-38.5	-0.426 ug/L		0.1878	-0.00043 mg/L	0.000188	44.08%
	QC value within limits for Alx Recovery = Not calculated						
Bex†	13.1	0.00447 ug/L		0.046885	0.00000 mg/L	0.000047	>999.9%
	QC value within limits for Bex Recovery = Not calculated						

QC Failed. Retry.

Sequence No.: 108
 Sample ID: ECB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/13/2007 15:48:47
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ECB

Analyte Back Pressure Flow
 All 294.0 kPa 0.65 L/min

Mean Data: ECB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	425253.8	101 %	0.5			0.46%
Yr	234468.2	117 %	0.5			0.43%
Ag†	2806.4	0.0106 mg/L	0.00016	0.0106 mg/L	0.00016	1.54%
	QC value greater than the upper limit for Ag	Recovery = Not calculated				
Al†	-67.1	-0.0195 mg/L	0.00554	-0.0195 mg/L	0.00554	28.44%
	QC value within limits for Al	Recovery = Not calculated				
As†	15.4	0.00793 mg/L	0.000939	0.00793 mg/L	0.000939	11.85%
	QC value within limits for As	Recovery = Not calculated				
B_†	512.0	0.0161 mg/L	0.00020	0.0161 mg/L	0.00020	1.25%
	QC value within limits for B_	Recovery = Not calculated				
Ba†	0.4	0.00001 mg/L	0.000064	0.00001 mg/L	0.000064	>999.9%
	QC value within limits for Ba	Recovery = Not calculated				
Be†	-122.8	-0.00004 mg/L	0.000018	-0.00004 mg/L	0.000018	42.89%
	QC value within limits for Be	Recovery = Not calculated				
Ca†	18.2	0.00251 mg/L	0.000736	0.00251 mg/L	0.000736	29.38%
	QC value within limits for Ca	Recovery = Not calculated				
Cd†	6.5	0.00015 mg/L	0.000057	0.00015 mg/L	0.000057	39.20%
	QC value within limits for Cd	Recovery = Not calculated				
Co†	4.3	0.00017 mg/L	0.000005	0.00017 mg/L	0.000005	2.88%
	QC value within limits for Co	Recovery = Not calculated				
Cr†	9.5	0.00012 mg/L	0.000180	0.00012 mg/L	0.000180	147.52%
	QC value within limits for Cr	Recovery = Not calculated				
Cu†	73.1	0.00021 mg/L	0.000197	0.00021 mg/L	0.000197	93.93%
	QC value within limits for Cu	Recovery = Not calculated				
Fe†	1.5	0.00125 mg/L	0.000516	0.00125 mg/L	0.000516	41.30%
	QC value within limits for Fe	Recovery = Not calculated				
K†	105.2	0.0883 mg/L	0.02362	0.0883 mg/L	0.02362	26.74%
	QC value within limits for K	Recovery = Not calculated				
Mg†	5.9	0.00147 mg/L	0.000010	0.00147 mg/L	0.000010	0.66%
	QC value within limits for Mg	Recovery = Not calculated				
Mn†	-219.2	-0.00039 mg/L	0.000002	-0.00039 mg/L	0.000002	0.46%
	QC value within limits for Mn	Recovery = Not calculated				
Mo†	4.9	0.00042 mg/L	0.000103	0.00042 mg/L	0.000103	24.67%
	QC value within limits for Mo	Recovery = Not calculated				
Na†	148.8	0.0478 mg/L	0.01191	0.0478 mg/L	0.01191	24.92%
	QC value within limits for Na	Recovery = Not calculated				
Ni†	-1.4	-0.00006 mg/L	0.000260	-0.00006 mg/L	0.000260	405.57%
	QC value within limits for Ni	Recovery = Not calculated				
Pb†	4.3	0.00090 mg/L	0.000462	0.00090 mg/L	0.000462	51.36%
	QC value within limits for Pb	Recovery = Not calculated				
Sb†	2.4	0.00127 mg/L	0.000422	0.00127 mg/L	0.000422	33.32%
	QC value within limits for Sb	Recovery = Not calculated				
Se†	-9.1	-0.00721 mg/L	0.003078	-0.00721 mg/L	0.003078	42.72%
	QC value within limits for Se	Recovery = Not calculated				
Tl†	3.6	0.00134 mg/L	0.001171	0.00134 mg/L	0.001171	87.29%
	QC value within limits for Tl	Recovery = Not calculated				
V†	2.3	0.00002 mg/L	0.000373	0.00002 mg/L	0.000373	>999.9%
	QC value within limits for V	Recovery = Not calculated				
Zn†	-38.0	-0.00081 mg/L	0.000041	-0.00081 mg/L	0.000041	4.99%
	QC value within limits for Zn	Recovery = Not calculated				
Alx†	-91.7	-1.02 ug/L	0.018	-0.00102 mg/L	0.000018	1.73%
	QC value within limits for Alx	Recovery = Not calculated				
Bex†	-122.8	-0.0418 ug/L	0.01792	-0.00004 mg/L	0.000018	42.92%

QC value within limits for Bex Recovery = Not calculated
QC Failed. Retry.

Sequence No.: 109
Sample ID: ECB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 6/13/2007 15:51:22
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ECB

Analyte Back Pressure Flow
All 294.0 kPa 0.65 L/min

Mean Data: ECB

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	419684.4	99.9 %	1.27			1.27%
Yr	236757.7	119 %	0.4			0.34%
Ag†	2314.8	0.00878 mg/L	0.000164	0.00878 mg/L	0.000164	1.86%
	QC value greater than the upper limit for Ag Recovery = Not calculated					
Al†	-18.8	-0.00549 mg/L	0.014142	-0.00549 mg/L	0.014142	257.61%
	QC value within limits for Al Recovery = Not calculated					
As†	10.6	0.00547 mg/L	0.002145	0.00547 mg/L	0.002145	39.20%
	QC value within limits for As Recovery = Not calculated					
B_†	425.3	0.0133 mg/L	0.00089	0.0133 mg/L	0.00089	6.68%
	QC value within limits for B_ Recovery = Not calculated					
Ba†	-5.2	-0.00007 mg/L	0.000119	-0.00007 mg/L	0.000119	159.46%
	QC value within limits for Ba Recovery = Not calculated					
Be†	-95.6	-0.00003 mg/L	0.000005	-0.00003 mg/L	0.000005	16.04%
	QC value within limits for Be Recovery = Not calculated					
Ca†	13.1	0.00180 mg/L	0.000325	0.00180 mg/L	0.000325	18.02%
	QC value within limits for Ca Recovery = Not calculated					
Cd†	3.5	0.00006 mg/L	0.000083	0.00006 mg/L	0.000083	129.98%
	QC value within limits for Cd Recovery = Not calculated					
Co†	-3.7	-0.00015 mg/L	0.000290	-0.00015 mg/L	0.000290	194.78%
	QC value within limits for Co Recovery = Not calculated					
Cr†	4.9	0.00006 mg/L	0.000120	0.00006 mg/L	0.000120	188.80%
	QC value within limits for Cr Recovery = Not calculated					
Cu†	126.3	0.00036 mg/L	0.000172	0.00036 mg/L	0.000172	47.50%
	QC value within limits for Cu Recovery = Not calculated					
Fe†	1.9	0.00155 mg/L	0.001239	0.00155 mg/L	0.001239	79.73%
	QC value within limits for Fe Recovery = Not calculated					
K†	82.2	0.0690 mg/L	0.00438	0.0690 mg/L	0.00438	6.34%
	QC value within limits for K Recovery = Not calculated					
Mg†	6.9	0.00171 mg/L	0.001311	0.00171 mg/L	0.001311	76.71%
	QC value within limits for Mg Recovery = Not calculated					
Mn†	-225.6	-0.00040 mg/L	0.000005	-0.00040 mg/L	0.000005	1.19%
	QC value within limits for Mn Recovery = Not calculated					
Mo†	8.1	0.00069 mg/L	0.000523	0.00069 mg/L	0.000523	75.56%
	QC value within limits for Mo Recovery = Not calculated					
Na†	212.1	0.0681 mg/L	0.01109	0.0681 mg/L	0.01109	16.27%
	QC value within limits for Na Recovery = Not calculated					
Ni†	-0.8	-0.00004 mg/L	0.000026	-0.00004 mg/L	0.000026	69.90%
	QC value within limits for Ni Recovery = Not calculated					
Pb†	1.9	0.00040 mg/L	0.001041	0.00040 mg/L	0.001041	263.38%
	QC value within limits for Pb Recovery = Not calculated					
Sb†	-1.3	-0.00069 mg/L	0.000112	-0.00069 mg/L	0.000112	16.26%
	QC value within limits for Sb Recovery = Not calculated					
Se†	-0.9	-0.00072 mg/L	0.000454	-0.00072 mg/L	0.000454	63.14%
	QC value within limits for Se Recovery = Not calculated					
Tl†	-1.0	-0.00036 mg/L	0.001012	-0.00036 mg/L	0.001012	282.64%
	QC value within limits for Tl Recovery = Not calculated					
V†	-1.4	-0.00001 mg/L	0.000181	-0.00001 mg/L	0.000181	>999.9%
	QC value within limits for V Recovery = Not calculated					
Zn†	-41.6	-0.00089 mg/L	0.000013	-0.00089 mg/L	0.000013	1.47%
	QC value within limits for Zn Recovery = Not calculated					
Alx†	-4.0	-0.0441 ug/L	0.45042	-0.00004 mg/L	0.000450	>999.9%
	QC value within limits for Alx Recovery = Not calculated					

Bext	-95.6	-0.0325 ug/L	0.00523	-0.00003 mg/L	0.000005	16.10%
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QC value within limits for Bex Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 110
 Sample ID: MRL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 21
 Date Collected: 6/13/2007 15:54:47
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte	Back Pressure	Flow
All	294.0 kPa	0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	421902.8	100 %		0.0			0.05%
Yr	235958.8	118 %		0.3			0.27%
Ag†	2975.3	0.0113 mg/L		0.00029	0.0113 mg/L	0.00029	2.60%
	QC value within limits for Ag	Recovery = 112.79%					
Al†	157.7	0.0449 mg/L		0.00052	0.0449 mg/L	0.00052	1.15%
	QC value within limits for Al	Recovery = 89.82%					
As†	204.8	0.106 mg/L		0.0006	0.106 mg/L	0.0006	0.57%
	QC value within limits for As	Recovery = 105.63%					
B_†	1991.6	0.0623 mg/L		0.00037	0.0623 mg/L	0.00037	0.59%
	QC value within limits for B_	Recovery = 124.66%					
Ba†	1515.0	0.0217 mg/L		0.00017	0.0217 mg/L	0.00017	0.79%
	QC value within limits for Ba	Recovery = 108.48%					
Be†	3082.6	0.00105 mg/L		0.000010	0.00105 mg/L	0.000010	0.99%
	QC value within limits for Be	Recovery = 105.00%					
Ca†	7803.2	1.07 mg/L		0.012	1.07 mg/L	0.012	1.09%
	QC value within limits for Ca	Recovery = 107.44%					
Cd†	176.9	0.00570 mg/L		0.000109	0.00570 mg/L	0.000109	1.92%
	QC value within limits for Cd	Recovery = 113.97%					
Co†	1395.2	0.0555 mg/L		0.00035	0.0555 mg/L	0.00035	0.64%
	QC value within limits for Co	Recovery = 110.96%					
Cr†	826.1	0.0106 mg/L		0.00023	0.0106 mg/L	0.00023	2.20%
	QC value within limits for Cr	Recovery = 106.48%					
Cu†	3832.5	0.0110 mg/L		0.00009	0.0110 mg/L	0.00009	0.86%
	QC value within limits for Cu	Recovery = 110.40%					
Fe†	26.8	0.0219 mg/L		0.00252	0.0219 mg/L	0.00252	11.54%
	QC value within limits for Fe	Recovery = 109.38%					
K†	1243.0	1.04 mg/L		0.009	1.04 mg/L	0.009	0.90%
	QC value within limits for K	Recovery = 104.35%					
Mg†	427.6	0.106 mg/L		0.0001	0.106 mg/L	0.0001	0.08%
	QC value within limits for Mg	Recovery = 105.87%					
Mn†	966.0	0.00172 mg/L		0.000004	0.00172 mg/L	0.000004	0.24%
	QC value within limits for Mn	Recovery = 86.21%					
Mo†	240.0	0.0204 mg/L		0.00021	0.0204 mg/L	0.00021	1.02%
	QC value within limits for Mo	Recovery = 102.24%					
Na†	3315.7	1.07 mg/L		0.004	1.07 mg/L	0.004	0.33%
	QC value within limits for Na	Recovery = 106.53%					
Ni†	495.0	0.0223 mg/L		0.00012	0.0223 mg/L	0.00012	0.52%
	QC value within limits for Ni	Recovery = 111.38%					
Pb†	114.8	0.0243 mg/L		0.00052	0.0243 mg/L	0.00052	2.12%
	QC value within limits for Pb	Recovery = 121.46%					
Sb†	83.2	0.0436 mg/L		0.00016	0.0436 mg/L	0.00016	0.36%
	QC value within limits for Sb	Recovery = 87.28%					
Se†	137.1	0.108 mg/L		0.0015	0.108 mg/L	0.0015	1.35%
	QC value within limits for Se	Recovery = 108.32%					
Tl†	335.1	0.123 mg/L		0.0036	0.123 mg/L	0.0036	2.95%
	QC value within limits for Tl	Recovery = 123.16%					
V†	380.5	0.00240 mg/L		0.000017	0.00240 mg/L	0.000017	0.69%
	QC value within limits for V	Recovery = 120.10%					
Zn†	980.0	0.0208 mg/L		0.00011	0.0208 mg/L	0.00011	0.55%
	QC value within limits for Zn	Recovery = 104.09%					
Alx†	4329.6	47.9 ug/L		1.09	0.0479 mg/L	0.00109	2.27%
	QC value within limits for Alx	Recovery = 95.84%					
Bex†	3082.6	1.05 ug/L		0.010	0.00105 mg/L	0.000010	0.99%
	QC value within limits for Bex	Recovery = 104.86%					

All analyte(s) passed QC.

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Analysis Begun

Start Time: 6/13/2007 16:22:37

Plasma On Time: 6/13/2007 06:56:17

Logged In Analyst: Owner

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N2121801 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Owner\Sample Information\070613.sif

Batch ID: 070613

Results Data Set: 070613

Results Library: C:\pe\Owner\Results\Results.mdb

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Sequence No.: 113

Autosampler Location:

Sample ID: CCV

Date Collected: 6/13/2007 16:22:37

Analyst: Walter Hsieh

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution: 1X

Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	293.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	394584.6	93.9 %	0.10			0.11%
Yr	222225.5	111 %	1.5			1.36%
Ag+	251682.7	0.954 mg/L	0.0034	0.954 mg/L	0.0034	0.35%
Al+	18952.8	5.28 mg/L	0.041	5.28 mg/L	0.041	0.77%
As+	9962.1	5.15 mg/L	0.013	5.15 mg/L	0.013	0.24%
B+	81079.9	2.53 mg/L	0.011	2.53 mg/L	0.011	0.45%
Ba+	369358.5	5.29 mg/L	0.030	5.29 mg/L	0.030	0.57%
Be+	6380008.3	2.17 mg/L	0.004	2.17 mg/L	0.004	0.20%
Ca+	383075.9	52.7 mg/L	0.03	52.7 mg/L	0.03	0.06%
Cd+	67314.0	2.58 mg/L	0.003	2.58 mg/L	0.003	0.13%
Co+	132576.9	5.27 mg/L	0.019	5.27 mg/L	0.019	0.37%
Cr+	400515.1	5.16 mg/L	0.009	5.16 mg/L	0.009	0.17%
Cu+	1841586.0	5.29 mg/L	0.056	5.29 mg/L	0.056	1.05%
Fe+	6282.0	5.13 mg/L	0.071	5.13 mg/L	0.071	1.37%
K+	58681.9	49.3 mg/L	0.43	49.3 mg/L	0.43	0.87%
Mg+	201748.8	49.9 mg/L	0.03	49.9 mg/L	0.03	0.06%
Mn+	2991033.9	5.34 mg/L	0.031	5.34 mg/L	0.031	0.58%
Mo+	61147.8	5.21 mg/L	0.001	5.21 mg/L	0.001	0.02%
Na+	152764.3	49.1 mg/L	0.11	49.1 mg/L	0.11	0.22%
Ni+	118471.9	5.34 mg/L	0.015	5.34 mg/L	0.015	0.28%
Pb+	25609.5	5.42 mg/L	0.007	5.42 mg/L	0.007	0.12%
Sb+	9727.0	5.03 mg/L	0.024	5.03 mg/L	0.024	0.48%
Se+	6805.5	5.39 mg/L	0.021	5.39 mg/L	0.021	0.40%
Tl+	14853.9	5.48 mg/L	0.001	5.48 mg/L	0.001	0.02%
V+	843413.1	5.22 mg/L	0.014	5.22 mg/L	0.014	0.26%
Zn+	250685.5	5.33 mg/L	0.023	5.33 mg/L	0.023	0.43%
Alx+	440198.5	4870 ug/L	39.7	4.87 mg/L	0.040	0.81%
Bex+	6380008.3	2170 ug/L	4.3	2.17 mg/L	0.004	0.20%

Sequence No.: 114
 Sample ID: CCB
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location:
 Date Collected: 6/13/2007 16:25:44
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte Back Pressure Flow
 All 293.0 kPa 0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	416572.1	99.1 %	%	0.26			0.26%
Yr	228549.9	114 %	%	0.6			0.55%
Ag†	216.1	0.00082 mg/L	mg/L	0.000196	0.00082 mg/L	0.000196	23.93%
Al†	-16.0	-0.00471 mg/L	mg/L	0.002265	-0.00471 mg/L	0.002265	48.07%
As†	42.9	0.0221 mg/L	mg/L	0.00140	0.0221 mg/L	0.00140	6.33%
B†	531.3	0.0167 mg/L	mg/L	0.00053	0.0167 mg/L	0.00053	3.19%
Ba†	-0.0	0.00000 mg/L	mg/L	0.000027	0.00000 mg/L	0.000027	>999.9%
Be†	-38.8	-0.00001 mg/L	mg/L	0.000018	-0.00001 mg/L	0.000018	136.78%
Ca†	18.8	0.00258 mg/L	mg/L	0.000598	0.00258 mg/L	0.000598	23.15%
Cd†	10.6	0.00011 mg/L	mg/L	0.000145	0.00011 mg/L	0.000145	128.53%
Co†	1.6	0.00006 mg/L	mg/L	0.000130	0.00006 mg/L	0.000130	199.95%
Cr†	10.0	0.00013 mg/L	mg/L	0.000003	0.00013 mg/L	0.000003	2.19%
Cu†	105.2	0.00030 mg/L	mg/L	0.000248	0.00030 mg/L	0.000248	82.35%
Fe†	5.6	0.00459 mg/L	mg/L	0.002342	0.00459 mg/L	0.002342	51.01%
K†	102.8	0.0863 mg/L	mg/L	0.03130	0.0863 mg/L	0.03130	36.27%
Mg†	6.9	0.00171 mg/L	mg/L	0.000541	0.00171 mg/L	0.000541	31.58%
Mn†	-147.0	-0.00026 mg/L	mg/L	0.000020	-0.00026 mg/L	0.000020	7.62%
Mo†	21.6	0.00184 mg/L	mg/L	0.000125	0.00184 mg/L	0.000125	6.82%
Na†	182.9	0.0588 mg/L	mg/L	0.00309	0.0588 mg/L	0.00309	5.27%
Ni†	6.1	0.00027 mg/L	mg/L	0.000167	0.00027 mg/L	0.000167	61.48%
Pb†	3.5	0.00074 mg/L	mg/L	0.001532	0.00074 mg/L	0.001532	205.72%
Sb†	14.5	0.00766 mg/L	mg/L	0.000505	0.00766 mg/L	0.000505	6.60%
Se†	-5.5	-0.00434 mg/L	mg/L	0.000024	-0.00434 mg/L	0.000024	0.55%
Tl†	5.5	0.00200 mg/L	mg/L	0.000643	0.00200 mg/L	0.000643	32.05%
V†	15.3	0.00010 mg/L	mg/L	0.000010	0.00010 mg/L	0.000010	10.10%
Zn†	-26.1	-0.00056 mg/L	mg/L	0.000064	-0.00056 mg/L	0.000064	11.42%
Alx†	-36.8	-0.407 ug/L	ug/L	0.8678	-0.00041 mg/L	0.000868	213.06%
Bex†	-38.8	-0.0132 ug/L	ug/L	0.01803	-0.00001 mg/L	0.000018	136.61%

Sequence No.: 117
 Sample ID: LCS_B2
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location:
 Date Collected: 6/13/2007 16:33:58
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: LCS_B2

Analyte Back Pressure Flow
 All 294.0 kPa 0.65 L/min

Mean Data: LCS_B2

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	398264.0	94.8 %	0.03			0.03%
Yr	240101.4	120 %	9.3			7.72%
Ag†	127154.2	0.482 mg/L	0.0013	0.482 mg/L	0.0013	0.28%
Al†	6788.2	1.93 mg/L	0.199	1.93 mg/L	0.199	10.33%
As†	2133.6	1.10 mg/L	0.004	1.10 mg/L	0.004	0.36%
B_†	16549.8	0.517 mg/L	0.0039	0.517 mg/L	0.0039	0.75%
Ba†	74033.1	1.06 mg/L	0.001	1.06 mg/L	0.001	0.13%
Be†	159817.3	0.0545 mg/L	0.00006	0.0545 mg/L	0.00006	0.12%
Ca†	346214.1	47.7 mg/L	4.72	47.7 mg/L	4.72	9.90%
Cd†	5667.8	0.211 mg/L	0.0008	0.211 mg/L	0.0008	0.37%
Co†	27073.3	1.08 mg/L	0.001	1.08 mg/L	0.001	0.06%
Cr†	80501.8	1.04 mg/L	0.000	1.04 mg/L	0.000	0.02%
Cu†	365309.4	1.05 mg/L	0.007	1.05 mg/L	0.007	0.62%
Fe†	5777.8	4.72 mg/L	0.432	4.72 mg/L	0.432	9.16%
K†	21629.6	18.2 mg/L	1.49	18.2 mg/L	1.49	8.20%
Mg†	74950.4	18.6 mg/L	1.70	18.6 mg/L	1.70	9.15%
Mn†	303011.8	0.541 mg/L	0.0010	0.541 mg/L	0.0010	0.18%
Mo†	12260.5	1.04 mg/L	0.002	1.04 mg/L	0.002	0.20%
Na†	138473.5	44.5 mg/L	4.22	44.5 mg/L	4.22	9.48%
Ni†	11975.0	0.539 mg/L	0.0004	0.539 mg/L	0.0004	0.07%
Pb†	5470.2	1.16 mg/L	0.002	1.16 mg/L	0.002	0.15%
Sb†	983.0	0.498 mg/L	0.0005	0.498 mg/L	0.0005	0.11%
Se†	1445.9	1.15 mg/L	0.009	1.15 mg/L	0.009	0.78%
Tl†	3200.9	1.16 mg/L	0.000	1.16 mg/L	0.000	0.03%
V†	168702.9	1.04 mg/L	0.002	1.04 mg/L	0.002	0.21%
Zn†	52863.1	1.13 mg/L	0.002	1.13 mg/L	0.002	0.16%
Alx†	173214.8	1920 ug/L	7.1	1.92 mg/L	0.007	0.37%
Bex†	159817.3	54.4 ug/L	0.06	0.0544 mg/L	0.00006	0.12%

Sequence No.: 118
 Sample ID: LCSD_B2
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location:
 Date Collected: 6/13/2007 16:36:50
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: LCSD_B2

Analyte Back Pressure Flow
 All 294.0 kPa 0.65 L/min

Mean Data: LCSD_B2

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	399824.7	95.2 %		0.47			0.49%
Yr	223406.2	112 %		0.0			0.03%
Ag+	125129.6	0.474 mg/L		0.0021	0.474 mg/L	0.0021	0.45%
Al+	7238.4	2.06 mg/L		0.019	2.06 mg/L	0.019	0.91%
As+	2124.7	1.10 mg/L		0.010	1.10 mg/L	0.010	0.94%
B+	16330.9	0.510 mg/L		0.0038	0.510 mg/L	0.0038	0.75%
Ba+	73632.7	1.05 mg/L		0.004	1.05 mg/L	0.004	0.39%
Be+	158721.9	0.0541 mg/L		0.00014	0.0541 mg/L	0.00014	0.26%
Ca+	375968.6	51.8 mg/L		0.02	51.8 mg/L	0.02	0.04%
Cd+	5640.5	0.210 mg/L		0.0009	0.210 mg/L	0.0009	0.43%
Co+	26925.3	1.07 mg/L		0.007	1.07 mg/L	0.007	0.65%
Cr+	79748.7	1.03 mg/L		0.001	1.03 mg/L	0.001	0.14%
Cu+	362845.2	1.04 mg/L		0.004	1.04 mg/L	0.004	0.39%
Fe+	6215.5	5.07 mg/L		0.029	5.07 mg/L	0.029	0.57%
K+	23106.2	19.4 mg/L		0.03	19.4 mg/L	0.03	0.16%
Mg+	79856.0	19.8 mg/L		0.10	19.8 mg/L	0.10	0.51%
Mn+	301302.9	0.538 mg/L		0.0015	0.538 mg/L	0.0015	0.28%
Mo+	12155.6	1.04 mg/L		0.008	1.04 mg/L	0.008	0.74%
Na+	151217.5	48.6 mg/L		0.18	48.6 mg/L	0.18	0.36%
Ni+	11887.8	0.536 mg/L		0.0036	0.536 mg/L	0.0036	0.68%
Pb+	5420.4	1.15 mg/L		0.007	1.15 mg/L	0.007	0.64%
Sb+	969.1	0.491 mg/L		0.0002	0.491 mg/L	0.0002	0.04%
Se+	1430.9	1.14 mg/L		0.011	1.14 mg/L	0.011	0.98%
Tl+	3186.5	1.16 mg/L		0.004	1.16 mg/L	0.004	0.34%
V+	167333.9	1.04 mg/L		0.001	1.04 mg/L	0.001	0.06%
Zn+	52547.3	1.12 mg/L		0.000	1.12 mg/L	0.000	0.00%
Alx+	173211.3	1920 ug/L		5.2	1.92 mg/L	0.005	0.27%
Bex+	158721.9	54.0 ug/L		0.14	0.0540 mg/L	0.00014	0.26%

Sequence No.: 123

Sample ID: D705130634MS **2706120634 MS**

Analyst: Walter Hsieh

Initial Sample Wt:

Dilution: 1X

Autosampler Location:

Date Collected: 6/13/2007 17:04:47

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: D705130634MS

Analyte

Back Pressure

Flow

All

295.0 kPa

0.65 L/min

Mean Data: D705130634MS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	394697.7	93.9 %	0.66			0.70%
Yr	224104.5	112 %	0.4			0.31%
Ag+	125312.8	0.475 mg/L	0.0001	0.475 mg/L	0.0001	0.02%
Al+	7183.4	2.04 mg/L	0.022	2.04 mg/L	0.022	1.09%
As+	2193.9	1.13 mg/L	0.007	1.13 mg/L	0.007	0.58%
B+	22774.4	0.712 mg/L	0.0028	0.712 mg/L	0.0028	0.40%
Ba+	76792.7	1.10 mg/L	0.003	1.10 mg/L	0.003	0.27%
Be+	158972.8	0.0542 mg/L	0.00003	0.0542 mg/L	0.00003	0.05%
Ca+	881054.5	121 mg/L	0.2	121 mg/L	0.2	0.15%
Cd+	5635.3	0.209 mg/L	0.0007	0.209 mg/L	0.0007	0.32%
Co+	26733.4	1.06 mg/L	0.003	1.06 mg/L	0.003	0.32%
Cr+	79774.0	1.03 mg/L	0.001	1.03 mg/L	0.001	0.09%
Cu+	371644.3	1.07 mg/L	0.001	1.07 mg/L	0.001	0.14%
Fe+	6296.5	5.14 mg/L	0.051	5.14 mg/L	0.051	1.00%
K+	28697.0	24.1 mg/L	0.11	24.1 mg/L	0.11	0.47%
Mg+	167424.8	41.4 mg/L	0.04	41.4 mg/L	0.04	0.11%
Mn+	377540.5	0.674 mg/L	0.0007	0.674 mg/L	0.0007	0.11%
Mo+	12052.9	1.03 mg/L	0.005	1.03 mg/L	0.005	0.46%
Na+	737090.9	237 mg/L	0.8	237 mg/L	0.8	0.34%
Ni+	11715.4	0.528 mg/L	0.0015	0.528 mg/L	0.0015	0.28%
Pb+	5267.5	1.11 mg/L	0.000	1.11 mg/L	0.000	0.00%
Sb+	993.8	0.504 mg/L	0.0044	0.504 mg/L	0.0044	0.87%
Se+	1469.7	1.17 mg/L	0.008	1.17 mg/L	0.008	0.64%
Tl+	3031.2	1.08 mg/L	0.005	1.08 mg/L	0.005	0.46%
V+	167849.9	1.04 mg/L	0.001	1.04 mg/L	0.001	0.08%
Zn+	53946.6	1.15 mg/L	0.002	1.15 mg/L	0.002	0.16%
Alx+	173964.1	1930 ug/L	1.5	1.93 mg/L	0.001	0.08%
Bex+	158972.8	54.1 ug/L	0.03	0.0541 mg/L	0.00003	0.06%

Sequence No.: 124

Sample ID: D705130634MSD **2706120634 MSD**

Analyst: Walter Hsieh

Initial Sample Wt:

Dilution: 1X

Autosampler Location:

Date Collected: 6/13/2007 17:06:59

Data Type: Original

Initial Sample Vol:

Sample Prep Vol:

Nebulizer Parameters: D705130634MSD

Analyte	Back Pressure	Flow
All	296.0 kPa	0.65 L/min

Mean Data: D705130634MSD

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	397941.7	94.7 %	0.26			0.27%
Yr	226330.2	113 %	0.5			0.47%
Ag†	125238.4	0.475 mg/L	0.0007	0.475 mg/L	0.0007	0.16%
Al†	7230.3	2.05 mg/L	0.031	2.05 mg/L	0.031	1.53%
As†	2196.9	1.14 mg/L	0.001	1.14 mg/L	0.001	0.09%
B†	22928.8	0.717 mg/L	0.0026	0.717 mg/L	0.0026	0.36%
Ba†	76544.5	1.10 mg/L	0.003	1.10 mg/L	0.003	0.31%
Be†	158694.6	0.0541 mg/L	0.00006	0.0541 mg/L	0.00006	0.11%
Ca†	879512.3	121 mg/L	0.2	121 mg/L	0.2	0.13%
Cd†	5636.3	0.209 mg/L	0.0005	0.209 mg/L	0.0005	0.22%
Co†	26669.5	1.06 mg/L	0.002	1.06 mg/L	0.002	0.18%
Cr†	79470.2	1.02 mg/L	0.001	1.02 mg/L	0.001	0.05%
Cu†	371843.6	1.07 mg/L	0.003	1.07 mg/L	0.003	0.25%
Fe†	6276.2	5.12 mg/L	0.047	5.12 mg/L	0.047	0.91%
K†	28794.6	24.2 mg/L	0.24	24.2 mg/L	0.24	1.00%
Mg†	166762.3	41.3 mg/L	0.00	41.3 mg/L	0.00	0.00%
Mn†	377203.0	0.673 mg/L	0.0020	0.673 mg/L	0.0020	0.29%
Mo†	12105.7	1.03 mg/L	0.003	1.03 mg/L	0.003	0.30%
Na†	739740.9	238 mg/L	0.1	238 mg/L	0.1	0.06%
Ni†	11693.3	0.527 mg/L	0.0008	0.527 mg/L	0.0008	0.15%
Pb†	5266.7	1.11 mg/L	0.002	1.11 mg/L	0.002	0.15%
Sb†	997.1	0.506 mg/L	0.0029	0.506 mg/L	0.0029	0.57%
Se†	1488.2	1.19 mg/L	0.008	1.19 mg/L	0.008	0.66%
Tl†	3028.9	1.08 mg/L	0.006	1.08 mg/L	0.006	0.53%
V†	167230.5	1.04 mg/L	0.000	1.04 mg/L	0.000	0.03%
Zn†	54102.9	1.15 mg/L	0.000	1.15 mg/L	0.000	0.03%
Alx†	173410.8	1920 ug/L	7.4	1.92 mg/L	0.007	0.38%
Bex†	158694.6	54.0 ug/L	0.06	0.0540 mg/L	0.00006	0.11%

Sequence No.: 125
 Sample ID: CCB
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location:
 Date Collected: 6/13/2007 17:10:58
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte Back Pressure Flow
 All 296.0 kPa 0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	421501.8	100	%	0.8				0.75%
Yr	234564.0	117	%	0.4				0.30%
Ag+	322.9	0.00122	mg/L	0.000090	0.00122	mg/L	0.000090	7.39%
Al+	-47.0	-0.0138	mg/L	0.01346	-0.0138	mg/L	0.01346	97.87%
As+	8.8	0.00456	mg/L	0.000711	0.00456	mg/L	0.000711	15.59%
B+	570.7	0.0179	mg/L	0.00039	0.0179	mg/L	0.00039	2.21%
Ba+	-0.6	-0.00001	mg/L	0.000038	-0.00001	mg/L	0.000038	442.40%
Be+	-97.7	-0.00003	mg/L	0.000026	-0.00003	mg/L	0.000026	77.02%
Ca+	18.4	0.00254	mg/L	0.000035	0.00254	mg/L	0.000035	1.36%
Cd+	2.6	0.00004	mg/L	0.000000	0.00004	mg/L	0.000000	0.29%
Co+	3.0	0.00012	mg/L	0.000068	0.00012	mg/L	0.000068	56.26%
Cr+	27.7	0.00036	mg/L	0.000017	0.00036	mg/L	0.000017	4.89%
Cu+	127.0	0.00036	mg/L	0.000178	0.00036	mg/L	0.000178	48.83%
Fe+	4.4	0.00359	mg/L	0.001539	0.00359	mg/L	0.001539	42.87%
K+	198.7	0.167	mg/L	0.0279	0.167	mg/L	0.0279	16.72%
Mg+	7.5	0.00185	mg/L	0.000456	0.00185	mg/L	0.000456	24.63%
Mn+	-239.5	-0.00043	mg/L	0.000001	-0.00043	mg/L	0.000001	0.33%
Mo+	34.1	0.00290	mg/L	0.000074	0.00290	mg/L	0.000074	2.55%
Na+	404.2	0.130	mg/L	0.0268	0.130	mg/L	0.0268	20.65%
Ni+	2.6	0.00012	mg/L	0.000030	0.00012	mg/L	0.000030	24.86%
Pb+	0.2	0.00004	mg/L	0.001785	0.00004	mg/L	0.001785	>999.9%
Sb+	8.2	0.00433	mg/L	0.001836	0.00433	mg/L	0.001836	42.39%
Se+	-7.2	-0.00570	mg/L	0.003472	-0.00570	mg/L	0.003472	60.95%
Tl+	-1.3	-0.00050	mg/L	0.001354	-0.00050	mg/L	0.001354	270.48%
V+	67.3	0.00042	mg/L	0.000187	0.00042	mg/L	0.000187	44.87%
Zn+	-18.1	-0.00039	mg/L	0.000065	-0.00039	mg/L	0.000065	16.87%
Alx+	-13.4	-0.149	ug/L	0.8823	-0.00015	mg/L	0.000882	592.78%
Bex+	-97.7	-0.0332	ug/L	0.02555	-0.00003	mg/L	0.000026	76.91%

Sequence No.: 126
 Sample ID: CCV
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location:
 Date Collected: 6/13/2007 17:14:02
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	296.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected	Calib	Std.Dev.	Sample	Std.Dev.	RSD
	Intensity	Conc. Units		Conc. Units		
Sca	395660.5	94.2 %	0.02			0.02%
Yr	225674.1	113 %	1.0			0.91%
Ag+	254852.0	0.966 mg/L	0.0014	0.966 mg/L	0.0014	0.15%
Al+	18873.6	5.25 mg/L	0.016	5.25 mg/L	0.016	0.30%
As+	10255.0	5.31 mg/L	0.005	5.31 mg/L	0.005	0.09%
B+	83017.9	2.59 mg/L	0.005	2.59 mg/L	0.005	0.18%
Ba+	375535.9	5.38 mg/L	0.010	5.38 mg/L	0.010	0.18%
Be+	6462564.8	2.20 mg/L	0.004	2.20 mg/L	0.004	0.20%
Ca+	379057.1	52.2 mg/L	0.47	52.2 mg/L	0.47	0.90%
Cd+	68590.3	2.63 mg/L	0.001	2.63 mg/L	0.001	0.04%
Co+	135108.2	5.37 mg/L	0.001	5.37 mg/L	0.001	0.01%
Cr+	406242.7	5.24 mg/L	0.007	5.24 mg/L	0.007	0.14%
Cu+	1872655.0	5.38 mg/L	0.002	5.38 mg/L	0.002	0.04%
Fe+	6276.2	5.13 mg/L	0.009	5.13 mg/L	0.009	0.18%
K+	58459.2	49.1 mg/L	0.10	49.1 mg/L	0.10	0.21%
Mg+	199500.6	49.4 mg/L	0.47	49.4 mg/L	0.47	0.96%
Mn+	3039831.9	5.43 mg/L	0.005	5.43 mg/L	0.005	0.09%
Mo+	62036.7	5.29 mg/L	0.014	5.29 mg/L	0.014	0.26%
Na+	150891.5	48.5 mg/L	0.62	48.5 mg/L	0.62	1.27%
Ni+	120388.3	5.43 mg/L	0.007	5.43 mg/L	0.007	0.13%
Pb+	26073.1	5.51 mg/L	0.006	5.51 mg/L	0.006	0.12%
Sb+	9924.7	5.13 mg/L	0.008	5.13 mg/L	0.008	0.15%
Se+	6983.3	5.53 mg/L	0.010	5.53 mg/L	0.010	0.18%
Tl+	15150.8	5.59 mg/L	0.013	5.59 mg/L	0.013	0.22%
V+	854432.0	5.29 mg/L	0.010	5.29 mg/L	0.010	0.20%
Zn+	255797.4	5.44 mg/L	0.004	5.44 mg/L	0.004	0.07%
Alx+	446976.5	4950 ug/L	32.3	4.95 mg/L	0.032	0.65%
Bex+	6462564.8	2200 ug/L	4.5	2.20 mg/L	0.004	0.20%

Sequence No.: 127
 Sample ID: D706120636MS
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location:
 Date Collected: 6/13/2007 17:18:54
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: D706120636MS

Analyte Back Pressure Flow
 All 297.0 kPa 0.65 L/min

Mean Data: D706120636MS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	405823.9	96.6 %	0.41			0.43%
Yr	229405.8	115 %	0.2			0.18%
Ag†	125305.0	0.475 mg/L	0.0011	0.475 mg/L	0.0011	0.24%
Al†	7362.9	2.09 mg/L	0.036	2.09 mg/L	0.036	1.72%
As†	2194.6	1.14 mg/L	0.001	1.14 mg/L	0.001	0.05%
B†	25474.0	0.797 mg/L	0.0009	0.797 mg/L	0.0009	0.11%
Ba†	74621.1	1.07 mg/L	0.006	1.07 mg/L	0.006	0.57%
Be†	158777.2	0.0541 mg/L	0.00019	0.0541 mg/L	0.00019	0.35%
Ca†	701031.6	96.5 mg/L	0.51	96.5 mg/L	0.51	0.53%
Cd†	5606.3	0.208 mg/L	0.0005	0.208 mg/L	0.0005	0.22%
Co†	26550.8	1.06 mg/L	0.001	1.06 mg/L	0.001	0.10%
Cr†	79170.7	1.02 mg/L	0.003	1.02 mg/L	0.003	0.30%
Cu†	376649.6	1.08 mg/L	0.006	1.08 mg/L	0.006	0.56%
Fe†	6311.9	5.15 mg/L	0.040	5.15 mg/L	0.040	0.78%
K†	34060.3	28.6 mg/L	0.33	28.6 mg/L	0.33	1.15%
Mg†	223846.5	55.4 mg/L	0.40	55.4 mg/L	0.40	0.72%
Mn†	331276.1	0.591 mg/L	0.0024	0.591 mg/L	0.0024	0.40%
Mo†	11948.1	1.02 mg/L	0.001	1.02 mg/L	0.001	0.05%
Na†	678360.7	218 mg/L	3.7	218 mg/L	3.7	1.71%
Ni†	11548.6	0.520 mg/L	0.0009	0.520 mg/L	0.0009	0.18%
Pb†	5256.0	1.11 mg/L	0.003	1.11 mg/L	0.003	0.28%
Sb†	989.0	0.501 mg/L	0.0026	0.501 mg/L	0.0026	0.52%
Se†	1437.5	1.15 mg/L	0.005	1.15 mg/L	0.005	0.47%
Tl†	3037.4	1.09 mg/L	0.006	1.09 mg/L	0.006	0.53%
V†	166725.6	1.03 mg/L	0.004	1.03 mg/L	0.004	0.40%
Zn†	52935.7	1.13 mg/L	0.003	1.13 mg/L	0.003	0.28%
Alx†	172763.1	1910 ug/L	12.6	1.91 mg/L	0.013	0.66%
Bext	158777.2	54.0 ug/L	0.19	0.0540 mg/L	0.00019	0.35%

Sequence No.: 128
 Sample ID: D706120636MSD
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location:
 Date Collected: 6/13/2007 17:21:11
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: D706120636MSD

Analyte Back Pressure Flow
 All 297.0 kPa 0.65 L/min

Mean Data: D706120636MSD

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	399794.5	95.2 %	0.23			0.25%
Yr	229272.8	115 %	0.3			0.26%
Ag+	125741.2	0.477 mg/L	0.0005	0.477 mg/L	0.0005	0.10%
Al+	7250.2	2.06 mg/L	0.021	2.06 mg/L	0.021	1.01%
As+	2219.6	1.15 mg/L	0.003	1.15 mg/L	0.003	0.25%
B+	25698.2	0.804 mg/L	0.0021	0.804 mg/L	0.0021	0.26%
Ba+	74927.8	1.07 mg/L	0.000	1.07 mg/L	0.000	0.01%
Be+	159457.3	0.0544 mg/L	0.00004	0.0544 mg/L	0.00004	0.06%
Ca+	698912.6	96.2 mg/L	0.14	96.2 mg/L	0.14	0.15%
Cd+	5655.3	0.210 mg/L	0.0006	0.210 mg/L	0.0006	0.28%
Co+	26818.4	1.07 mg/L	0.000	1.07 mg/L	0.000	0.00%
Cr+	79433.7	1.02 mg/L	0.000	1.02 mg/L	0.000	0.02%
Cu+	379005.3	1.09 mg/L	0.006	1.09 mg/L	0.006	0.55%
Fe+	6229.7	5.09 mg/L	0.074	5.09 mg/L	0.074	1.45%
K+	33933.0	28.5 mg/L	0.29	28.5 mg/L	0.29	1.01%
Mg+	223188.8	55.2 mg/L	0.05	55.2 mg/L	0.05	0.09%
Mn+	332822.2	0.594 mg/L	0.0002	0.594 mg/L	0.0002	0.04%
Mo+	12147.8	1.03 mg/L	0.001	1.03 mg/L	0.001	0.05%
Na+	679318.3	218 mg/L	0.9	218 mg/L	0.9	0.42%
Ni+	11635.0	0.524 mg/L	0.0001	0.524 mg/L	0.0001	0.02%
Pb+	5315.5	1.12 mg/L	0.002	1.12 mg/L	0.002	0.14%
Sb+	1002.2	0.508 mg/L	0.0019	0.508 mg/L	0.0019	0.37%
Se+	1463.4	1.17 mg/L	0.006	1.17 mg/L	0.006	0.52%
Tl+	3061.6	1.10 mg/L	0.005	1.10 mg/L	0.005	0.43%
V+	167600.8	1.04 mg/L	0.001	1.04 mg/L	0.001	0.06%
Zn+	53454.0	1.14 mg/L	0.002	1.14 mg/L	0.002	0.20%
Alx+	173922.3	1930 ug/L	20.7	1.93 mg/L	0.021	1.08%
Bex+	159457.3	54.2 ug/L	0.04	0.0542 mg/L	0.00004	0.07%

Sequence No.: 129
 Sample ID: CCB
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location:
 Date Collected: 6/13/2007 17:25:20
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte Back Pressure Flow
 All 298.0 kPa 0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	423139.5	101 %		0.0			0.00%
Yr	236822.4	119 %		0.9			0.77%
Ag†	1484.5	0.00563 mg/L		0.000953	0.00563 mg/L	0.000953	16.93%
Al†	-39.4	-0.0116 mg/L		0.01067	-0.0116 mg/L	0.01067	92.25%
As†	26.2	0.0135 mg/L		0.00141	0.0135 mg/L	0.00141	10.44%
B†	729.5	0.0229 mg/L		0.00027	0.0229 mg/L	0.00027	1.17%
Ba†	-4.0	-0.00006 mg/L		0.000089	-0.00006 mg/L	0.000089	155.23%
Be†	-48.2	-0.00002 mg/L		0.000004	-0.00002 mg/L	0.000004	23.03%
Ca†	13.6	0.00187 mg/L		0.001421	0.00187 mg/L	0.001421	75.96%
Cd†	7.5	0.00011 mg/L		0.000181	0.00011 mg/L	0.000181	165.52%
Co†	3.6	0.00014 mg/L		0.000243	0.00014 mg/L	0.000243	167.88%
Cr†	21.6	0.00028 mg/L		0.000094	0.00028 mg/L	0.000094	33.61%
Cu†	208.7	0.00060 mg/L		0.000070	0.00060 mg/L	0.000070	11.77%
Fe†	3.7	0.00303 mg/L		0.002593	0.00303 mg/L	0.002593	85.69%
K†	99.5	0.0835 mg/L		0.01229	0.0835 mg/L	0.01229	14.71%
Mg†	6.7	0.00167 mg/L		0.000475	0.00167 mg/L	0.000475	28.39%
Mn†	-231.5	-0.00041 mg/L		0.000001	-0.00041 mg/L	0.000001	0.23%
Mo†	31.8	0.00271 mg/L		0.000166	0.00271 mg/L	0.000166	6.11%
Na†	396.7	0.127 mg/L		0.0171	0.127 mg/L	0.0171	13.42%
Ni†	3.7	0.00017 mg/L		0.000071	0.00017 mg/L	0.000071	43.22%
Pb†	4.1	0.00087 mg/L		0.001231	0.00087 mg/L	0.001231	141.57%
Sb†	19.3	0.0102 mg/L		0.00074	0.0102 mg/L	0.00074	7.27%
Se†	1.8	0.00146 mg/L		0.007830	0.00146 mg/L	0.007830	537.46%
Tl†	-0.9	-0.00035 mg/L		0.002781	-0.00035 mg/L	0.002781	803.15%
V†	-11.4	-0.00007 mg/L		0.000004	-0.00007 mg/L	0.000004	5.71%
Zn†	-28.6	-0.00061 mg/L		0.000015	-0.00061 mg/L	0.000015	2.50%
Alx†	114.1	1.26 ug/L		1.439	0.00126 mg/L	0.001439	113.90%
Bex†	-48.2	-0.0164 ug/L		0.00378	-0.00002 mg/L	0.000004	23.05%

Sequence No.: 130
 Sample ID: CCV
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location:
 Date Collected: 6/13/2007 17:30:05
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte Back Pressure Flow
 All 298.0 kPa 0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	407704.4	97.0 %	0.12			0.13%
Yr	240781.4	121 %	0.6			0.51%
Ag†	251732.5	0.954 mg/L	0.0035	0.954 mg/L	0.0035	0.37%
Al†	17640.2	4.90 mg/L	0.058	4.90 mg/L	0.058	1.19%
As†	10119.3	5.24 mg/L	0.005	5.24 mg/L	0.005	0.09%
B†	82496.1	2.58 mg/L	0.004	2.58 mg/L	0.004	0.15%
Ba†	369238.0	5.29 mg/L	0.011	5.29 mg/L	0.011	0.21%
Be†	6340887.3	2.16 mg/L	0.003	2.16 mg/L	0.003	0.16%
Ca†	359179.8	49.5 mg/L	0.54	49.5 mg/L	0.54	1.08%
Cd†	67307.7	2.58 mg/L	0.003	2.58 mg/L	0.003	0.11%
Co†	132981.0	5.29 mg/L	0.024	5.29 mg/L	0.024	0.45%
Cr†	400384.8	5.16 mg/L	0.018	5.16 mg/L	0.018	0.36%
Cu†	1846431.3	5.30 mg/L	0.002	5.30 mg/L	0.002	0.04%
Fe†	5890.3	4.81 mg/L	0.078	4.81 mg/L	0.078	1.62%
K†	54727.9	45.9 mg/L	0.53	45.9 mg/L	0.53	1.15%
Mg†	188748.5	46.7 mg/L	0.55	46.7 mg/L	0.55	1.17%
Mn†	2993273.5	5.34 mg/L	0.012	5.34 mg/L	0.012	0.23%
Mo†	60930.7	5.19 mg/L	0.009	5.19 mg/L	0.009	0.17%
Na†	143723.9	46.2 mg/L	0.77	46.2 mg/L	0.77	1.68%
Ni†	118879.3	5.36 mg/L	0.029	5.36 mg/L	0.029	0.55%
Pb†	25622.9	5.42 mg/L	0.013	5.42 mg/L	0.013	0.24%
Sb†	9752.1	5.04 mg/L	0.023	5.04 mg/L	0.023	0.45%
Se†	6913.8	5.47 mg/L	0.013	5.47 mg/L	0.013	0.24%
Tl†	14874.3	5.49 mg/L	0.016	5.49 mg/L	0.016	0.30%
V†	842765.1	5.22 mg/L	0.017	5.22 mg/L	0.017	0.32%
Zn†	252199.7	5.36 mg/L	0.020	5.36 mg/L	0.020	0.38%
Alx†	435814.1	4820 ug/L	30.3	4.82 mg/L	0.030	0.63%
Bex†	6340887.3	2160 ug/L	3.4	2.16 mg/L	0.003	0.16%

Sequence No.: 131
 Sample ID: CCV
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location:
 Date Collected: 6/13/2007 17:32:47
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte Back Pressure Flow
 All 298.0 kPa 0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	405777.7	96.6 %	0.13			0.13%
Yr	228224.5	114 %	0.2			0.19%
Ag+	251147.6	0.952 mg/L	0.0006	0.952 mg/L	0.0006	0.07%
Al+	18933.8	5.27 mg/L	0.053	5.27 mg/L	0.053	1.00%
As+	10176.0	5.26 mg/L	0.046	5.26 mg/L	0.046	0.88%
B+	82842.8	2.59 mg/L	0.000	2.59 mg/L	0.000	0.00%
Ba+	369460.7	5.29 mg/L	0.011	5.29 mg/L	0.011	0.21%
Be+	6345694.9	2.16 mg/L	0.013	2.16 mg/L	0.013	0.61%
Ca+	379001.4	52.2 mg/L	0.07	52.2 mg/L	0.07	0.14%
Cd+	67367.3	2.58 mg/L	0.015	2.58 mg/L	0.015	0.60%
Co+	132718.0	5.28 mg/L	0.005	5.28 mg/L	0.005	0.10%
Cr+	399123.8	5.14 mg/L	0.004	5.14 mg/L	0.004	0.07%
Cu+	1850748.9	5.32 mg/L	0.022	5.32 mg/L	0.022	0.42%
Fe+	6306.2	5.15 mg/L	0.013	5.15 mg/L	0.013	0.25%
K+	58974.6	49.5 mg/L	0.53	49.5 mg/L	0.53	1.07%
Mg+	199700.1	49.4 mg/L	0.04	49.4 mg/L	0.04	0.07%
Mn+	2991688.1	5.34 mg/L	0.007	5.34 mg/L	0.007	0.14%
Mo+	61010.4	5.20 mg/L	0.024	5.20 mg/L	0.024	0.46%
Na+	152759.8	49.1 mg/L	0.20	49.1 mg/L	0.20	0.40%
Ni+	118513.2	5.34 mg/L	0.002	5.34 mg/L	0.002	0.04%
Pb+	25600.0	5.41 mg/L	0.028	5.41 mg/L	0.028	0.51%
Sb+	9765.2	5.05 mg/L	0.028	5.05 mg/L	0.028	0.55%
Se+	6916.0	5.48 mg/L	0.039	5.48 mg/L	0.039	0.71%
Tl+	14907.2	5.50 mg/L	0.054	5.50 mg/L	0.054	0.98%
V+	841492.5	5.21 mg/L	0.007	5.21 mg/L	0.007	0.14%
Zn+	251597.2	5.35 mg/L	0.014	5.35 mg/L	0.014	0.27%
Alx+	439126.7	4860 ug/L	31.5	4.86 mg/L	0.031	0.65%
Bex+	6345694.9	2160 ug/L	13.2	2.16 mg/L	0.013	0.61%

Analytical Sequence

Method: 2007 060831

Seq.	Loc.	ID	Status
1	0	Calib Blank 1	Applied
2	15	Standard 2	Applied
3	15	ICV	QC Passed
4	9	Linearity Check	QC Passed
5	10	ICSA	QC Passed
6	11	ICSAB	QC Failed
7	0	Wash	QC Passed
8	12	QC-25 1ppm	QC Failed
9	12	QC-25 1ppm	QC Failed
10	4	CCV	QC Passed
11	0	ICB	QC Failed
12	0	ICB	QC Passed
13	20	MRL	QC Failed
14	20	MRL	QC Passed
15	16	FILTERCHECK	Analyzed
16	22	MRL/2	Analyzed
17	38	MBLANK	Analyzed
18	39	LCS	Analyzed
19	40	LCS D	Analyzed
20	41	2706120525	Analyzed
21	42	2706120525MS	Analyzed
22	43	2706120525MSD	Analyzed
23	44	2706120526	Analyzed
24	45	2706120466	Analyzed
25	4	CCV	QC Passed
26	0	CCB	QC Passed
27	46	2706120450	Analyzed
28	47	2706120459	Analyzed
29	48	2706120523	Analyzed
30	49	2706120524	Analyzed
31	50	2706120459	Analyzed
32	51	2706120466	Analyzed
33	52	2706120450	Analyzed
34	53	2706120634	Analyzed
35	54	2706120634MS	Analyzed
36	55	2706120634MSD	Analyzed
37	4	CCV	QC Passed
38	0	CCB	QC Passed
39	5	MCV	QC Failed
40	5	MCV	QC Failed
41	56	2706120621	Analyzed
42	57	2706120623	Analyzed
43	58	2706120629	Analyzed
44	59	2706120631	Analyzed
45	60	2706120610	Analyzed
46	61	2706120633	Analyzed
47	62	2706120615	Analyzed
48	63	2706120635	Analyzed
49	64	2706120636	Analyzed
50	65	MBLANK	Analyzed
51	4	CCV	QC Passed
52	0	CCB	QC Passed
53	66	LCS	Analyzed
54	67	LCS D	Analyzed
55	68	D706120634	Analyzed
56	69	D706120634MS	Analyzed
57	70	D706120634MSD	Analyzed
58	71	D706120621	Analyzed
59	72	D706120623	Analyzed
60	73	D706120629	Analyzed
61	74	D706120631	Analyzed
62	75	D706120610	Analyzed
63	4	CCV	QC Passed
64	0	CCB	QC Failed
65	0	CCB	QC Passed
66	5	MCV	QC Failed
67	5	MCV	QC Failed

68	76	D706120633	Analyzed
69	77	D706120615	Analyzed
70	78	D706120635	Analyzed
71	79	D706120636	Analyzed
72	80	D706120636MS	Analyzed
73	81	D706120636MSD	Analyzed
74	82	D706120630_5X	Analyzed
75	83	D706120632_5X	Analyzed
76	84	D706110334	Analyzed
77	85	DN706110337_50X	Analyzed
78	4	CCV	QC Passed
79	0	CCB	QC Failed
80	0	CCB	QC Passed
81	86	DM706110337_10X	Analyzed
82	87	D706120336	Analyzed
83	88	2706120336	Analyzed
84	89	2706120329	Analyzed
85	90	2706120317	Analyzed
86	91	2706120335_2X	Analyzed
87	0	WASH	Analyzed
88	0	WASH	Analyzed
89	92	MBLANK	Analyzed
90	93	LCS	Analyzed
91	4	CCV	QC Passed
92	0	CCB	QC Failed
93	0	CCB	QC Passed
94	5	MCV	QC Failed
95	5	MCV	QC Failed
96	94	LCSD	Analyzed
97	95	2706120001	Analyzed
98	96	2706120001MS	Analyzed
99	97	2706120001MSD	Analyzed
100	98	2706120005	Analyzed
101	10	ICSA	QC Passed
102	11	ICSAB	QC Failed
103	0	Wash	QC Passed
104	12	QC-25 1ppm	QC Failed
105	12	QC-25 1ppm	QC Failed
106	4	ECV	QC Passed
107	0	ECB	QC Failed
108	0	ECB	QC Failed
109	0	ECB	QC Failed
110	21	MRL	QC Passed

EPA 200.7/6010B QC Check List

Analyst WZM Analysis Date 2/19/07 Reviewer/Date W 26 Jun 07

Instrument PerKin Elmer Optima 4300DV

☒ All sample analyzed within 6 month holding time

☒ All sample raw concentration below the high standard or linear
anged samples marked for dilution and rerun

Initial and closing QC

☒ ICV within +/- 5%
☒ Linearity check +/- 10%
☒ ICSAB +/- 20%
☒ 1 PPM check +/- 10%
☒ MRL +/- 50%

Middle, closing and batch QC

☒ FilterCheck < 1/2 MRL
☒ MBLANK < 1/2 MRL
☒ LCS +/- 15%
☒ MS/MSD +/- 30% (200.7) +/- 25% (6010B)
☒ CCV/MCV/ECV +/- 10%
☒ ICB/CCB/ECB < 1/2 MRL
☒ CCB ran after the CCV

General QC

☒ RPD between MS/MSD is within +/- 20%
☒ RPD between LCS/LCSD is within +/- 20%
☒ Internal standards +/- 20%
☒ All pH of the samples are < 2

☒ No more than 20 samples per batch

☒ MS is run at frequency of 1 every 10 samples and MSD is
run at frequency of 1 every 20 samples

☒ QIR needed for failed QC

☒ Special Det Code noted on the cover sheet

☒ R value for multi point calibration is > 0.995

☒ Proper MRL check ran for special low MRL samples

Reagent and Standards used for
Optima 4300 DV
Updated 05/17/07

Int: WZM
Date: 6/19/07

Method 200.7/6010

ICP SUMMARY SHEET

File ID: 070619
Date Started: 6/19/07
Analyst ID: wbh

SAMPLE ID

Wash	(11:46)	FILTERCHECK	(12:05)	2706180241	(12:26)
2706180248	(12:37)	2706180247	(12:49)	2706180245	(12:53)
2706180246	(12:58)	2706180254	(13:02)	2706180256	(13:06)
2706180257	(13:11)	2706180249	(13:15)	2706180067	(13:19)
2706180062	(13:23)	2706180060	(13:47)	2706180036	(13:52)
2706180022	(13:55)	2706180258	(14:00)	2706180029	(14:04)
2706180058	(14:09)	2706120284	(14:32)	2706130119	(14:43)
2706120037	(14:55)	2706120038	(14:59)	2706120039	(15:04)
2706120040	(15:08)	2706120615	(15:24)	2706120621	(15:29)
2706120630	(15:33)	2706120632	(15:37)	2706120633	(15:42)
2706120634	(15:46)	2706120636	(15:51)	2706130120	(15:55)
2706130286	(15:59)	2706130408	(16:03)	2706120631_2	(16:15)
2706120623_2	(16:19)	2706120610_5	(16:24)	2706120332_2	(16:28)
Wash	(16:40)				

COMMENT:

Analyst: WBH

Approved By: Ln

BATCH NUMBER for 070619

Amey
2/6/19/02

Test Parameter:

SCA YR AG AL AS B_ BA BE CA CD CO CR CU FE K MG MN MO NA NI

Batch ID: 2706180241

2706180241	2706180248	2706180247
2706180245	2706180246	2706180254
2706180256	2706180257	2706180249
2706180067	2706180062	2706180060
2706180036	2706180022	2706180258
2706180029	2706180058	

Batch ID: 2706120284

2706120284	2706130119	2706120037
2706120038	2706120039	2706120040
2706120615	2706120621	2706120630
2706120632	2706120633	2706120634
2706120636	2706130120	2706130286
2706130408	2706120631_2X	2706120623_2X
2706120610_5X	2706120332_2X	

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
ICV	6/19/07	11:32	1	10.030	10 ✓	95-105	100%
Linearity Check	6/19/07	11:35	1	0.0019	.0019		
ICSA	6/19/07	11:39	1	-0.0007	ND	80-120	
ICSAB	6/19/07	11:43	1	.24616	.246	80-120	98.4%
Wash	6/19/07	11:46	1	0.0001	0.0000		
QC-25 lppm	6/19/07	11:50	1	1.0229	1.0		
CCV	6/19/07	11:54	1	5.0136	5.01	90-110	100%
ICB	6/19/07	11:58	1	-0.0003	ND		
MRL	6/19/07	12:02	1	.01053	.0105 ✓	50-150	105%
FILTERCHECK	6/19/07	12:05	1	-0.0002	ND		
MRL/2	6/19/07	12:09	1	0.0052	.0052		
MRL2007	6/19/07	12:12	1	0.0101	.0101 ✓		
MBLANK	6/19/07	12:16	1	0.0001	0.0000 ✓		
LCS	6/19/07	12:20	1	.98990	.99	85-115	98.9%
LCSD	6/19/07	12:23	1	.98144	.981	85-115	98.1%
2706180241	6/19/07	12:26	1	0.0025	.0025		
2706180241MS	6/19/07	12:30	1	.99829	.998	[0.996]	99.5%
2706180241MSD	6/19/07	12:34	1	1.0005	1.00	[0.998]	99.8%
2706180241T	6/19/07	12:34	1		1.00	70 - 130	
2706180248	6/19/07	12:37	1	0.0024	.0024		
CCV	6/19/07	12:42	1	5.0515	5.05	90-110	101%
CCB	6/19/07	12:46	1	0.0002	0.0001 ✓		
2706180247	6/19/07	12:49	1	0.0025	.0025		
2706180245	6/19/07	12:53	1	0.0024	.0024		
2706180246	6/19/07	12:58	1	0.0024	.0024		
2706180254	6/19/07	13:02	1	0.0024	.0024		
2706180256	6/19/07	13:06	1	0.0023	.0023		
2706180257	6/19/07	13:11	1	0.0026	.0026		
2706180249	6/19/07	13:15	1	0.0025	.0025		
2706180067	6/19/07	13:19	1	0.0006	0.0006		
2706180062	6/19/07	13:23	1	0.0003	0.0002		
2706180062MS	6/19/07	13:28	1	1.0032	1.00	[1.003]	100%
CCV	6/19/07	13:32	1	5.0669	5.07	90-110	101%
CCB	6/19/07	13:36	1	0.0002	0.0002 ✓		
MCV	6/19/07	13:39	1	2.5207	2.52	90-110	100%
2706180062MSD	6/19/07	13:44	1	1.0090	1.01	[1.009]	100%
2706180062T	6/19/07	13:44	1		1.00	70 - 130	
2706180060	6/19/07	13:47	1	0.0001	0.0000		
2706180036	6/19/07	13:52	1	0.0000	0.0000		
2706180022	6/19/07	13:55	1	0.0031	.0031		
2706180258	6/19/07	14:00	1	0.0024	.0024		
2706180029	6/19/07	14:04	1	0.0033	.0033		
2706180058	6/19/07	14:09	1	0.0636	.064		
MBLANK2007	6/19/07	14:13	1	0.0002	0.0001 ✓		
LCS	6/19/07	14:17	1	1.0307	1.03 ✓	85-115	103%
LCSD	6/19/07	14:20	1	1.0063	1.01 ✓	85-115	100%

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
CCV	6/19/07	14:24	1	5.0405	5.04	90-110	100%
CCB	6/19/07	14:28	1	0.0002	0.0002	✓	
2706120284	6/19/07	14:32	1	0.0007	0.0007		
2706120284MS	6/19/07	14:35	1	1.0207	1.02	✓ [1.021]	102%
2706120284MSD	6/19/07	14:39	1	1.0154	1.02	✓ [1.015]	101%
2706120284T	6/19/07	14:39	1		1.00	70 - 130	
2706130119	6/19/07	14:43	1	-0.0000	ND		
2706130119MS	6/19/07	14:47	1	1.0205	1.02	✓ [1.021]	102%
2706130119MSD	6/19/07	14:51	1	1.0114	1.01	✓ [1.011]	101%
2706130119T	6/19/07	14:51	1		1.00	70 - 130	
2706120037	6/19/07	14:55	1	0.0007	0.0007		
2706120038	6/19/07	14:59	1	0.0025	.0025		
2706120039	6/19/07	15:04	1	0.0018	.0018		
2706120040	6/19/07	15:08	1	0.0027	.0027		
CCV	6/19/07	15:12	1	5.0877	5.09	90-110	101%
CCB	6/19/07	15:16	1	0.0004	0.0004	✓	
MCV	6/19/07	15:20	1	2.5366	2.54	90-110	101%
2706120615	6/19/07	15:24	1	0.0002	0.0002		
2706120621	6/19/07	15:29	1	0.0008	0.0008		
2706120630	6/19/07	15:33	1	0.0044	.0044		
2706120632	6/19/07	15:37	1	0.0010	.001		
2706120633	6/19/07	15:42	1	0.0002	0.0002		
2706120634	6/19/07	15:46	1	0.0008	0.0007		
2706120636	6/19/07	15:51	1	0.0002	0.0001		
2706130120	6/19/07	15:55	1	-0.0001	ND		
2706130286	6/19/07	15:59	1	0.0010	0.0009		
2706130408	6/19/07	16:03	1	0.0005	0.0005		
CCV	6/19/07	16:07	1	5.0786	5.08	90-110	101%
CCB	6/19/07	16:11	1	0.0004	0.0003	✓	
2706120631_2X	6/19/07	16:15	2	0.0004	0.0004		
2706120623_2X	6/19/07	16:19	2	0.0053	.0053		
2706120610_5X	6/19/07	16:24	5	0.0007	0.0007		
2706120332_2X	6/19/07	16:28	2	0.0064	.0064	✓	
ICSA	6/19/07	16:33	1	-0.0004	ND	80-120	
ICSAB	6/19/07	16:37	1	.25209	.252	80-120	100%
Wash	6/19/07	16:40	1	0.0003	0.0002		
QC-25 1ppm	6/19/07	16:47	1	1.0681	1.1		
ECV	6/19/07	16:51	1	5.1462	5.15	90-110	102%
ECB	6/19/07	16:55	1	0.0004	0.0003	✓	
MRL	6/19/07	16:58	1	0.0107	.0107	50-150	106%

Landscape Summary

File ID: 070619

Date: 6/19/07

Analyst: wbh

Page: 1

Sample ID	Time	SCA	YR	AG	AL	AS	B	BA	BE	CA	CD	CO
ICV	11:32	N/A	N/A	2.01/2	9.82/10	10.0/10	5.04	10.1/10	4.05/4	100/100	4.93/5	10.1
Linearity Check	11:35	N/A	N/A	-0.277	0.0046	-0.0941	0.0184	0.0012	-0.0004	295.6	0.0005	0.0019
ICSA	11:39	N/A	N/A	-0.28	254/250	-0.227	0.077	0.002	-0.000	257/250	0.002	0.001
ICSAB	11:43	N/A	N/A	0.008	249/250	-0.233	0.072	0.257/.25	0.247/.25	251/250	0.497/.5	0.240/.25
Wash	11:46	N/A	N/A	0.0001	0.0012	0.0018	0.0092	0.0001	0.0000	-0.0006	0.0001	-0.0001
QC-25 ppm	11:50	N/A	N/A	0.9845	0.9995	0.9946	0.9357	1.059	0.9894	1.053	0.9900	1.064
CCV	11:54	N/A	N/A	0.990/1	4.88/5	4.81/5	2.44	5.05/5	2.03/2	50.9/50	2.47/2.5	5.06
ICB	11:58	N/A	N/A	0.0002	0.0117	0.0149	0.0172	0.0001	0.0001	0.0006	0.0001	0.0006
MRL	12:02	N/A	N/A	0.010/.01	0.052/.05	0.106/.1	0.060	0.021/.02	0.001/.001	1.04/1	0.005/.005	0.052/.05
FILTERCHECK	12:05	N/A	N/A	0.0000	0.0014	0.0027	0.0082	-0.0000	-0.0000	0.0392	-0.0001	-0.0001
MRL/2	12:09	N/A	N/A	0.005/.01	0.029/.05	0.051/.1	0.031	0.010/.02	0.001/.001	0.528/1	0.003/.005	0.025/.05
MRL/2007	12:12	N/A	N/A	0.010/.01	0.046/.05	0.098/.1	0.052	0.020/.02	0.001/.001	1.04/1	0.005/.005	0.053/.05
MBLANK	12:16	N/A	N/A	-0.0001	0.0085	0.0019	0.0042	0.0000	0.0000	0.0445	0.0001	-0.0000
ICS	12:20	N/A	N/A	0.485/.5	1.94/2	1.00/1	0.464	0.996/1	0.052/.05	49.1/50	0.195/.2	1.00/1
LCSD	12:23	N/A	N/A	0.483/.5	1.95/2	1.01/1	0.472	0.994/1	0.051/.05	48.8/50	0.196/.2	1.01/1
2706180241	12:26	N/A	N/A	-0.0000	-0.0124	-0.0173	0.1073	0.0424	-0.0001	69.67	-0.0003	0.0002
2706180241MS	12:30	N/A	N/A	0.4609	1.946	1.058	0.5917	1.054	0.0516	116.9	0.2035	1.010
2706180241MSD	12:34	N/A	N/A	0.4677	1.965	1.052	0.5921	1.058	0.0516	116.3	0.2035	1.010
2706180248	12:37	N/A	N/A	0.0001	0.0122	-0.0170	0.1099	0.0436	-0.0001	70.43	-0.0003	-0.0004
CCV	12:42	N/A	N/A	0.996/1	4.91/5	4.81/5	2.43	5.11/5	2.04/2	51.0/50	2.49/2.5	5.12
CCB	12:46	N/A	N/A	-0.0001	-0.0118	0.0154	0.0144	0.0000	-0.0000	-0.0006	0.0002	0.0000
2706180247	12:49	N/A	N/A	0.0003	0.0060	-0.0157	0.1134	0.0431	-0.0001	69.13	-0.0003	-0.0001
2706180245	12:53	N/A	N/A	-0.0000	0.0050	-0.0164	0.1097	0.0435	-0.0001	69.98	-0.0003	-0.0002
2706180246	12:58	N/A	N/A	0.0001	0.0149	-0.0151	0.1077	0.0431	-0.0001	69.89	-0.0003	-0.0001
2706180254	13:02	N/A	N/A	-0.0000	0.0001	-0.0190	0.1154	0.0446	-0.0001	70.90	-0.0001	-0.0002
2706180256	13:06	N/A	N/A	-0.0000	0.0034	-0.0187	0.1076	0.0438	-0.0001	70.54	-0.0002	-0.0000
2706180257	13:11	N/A	N/A	-0.0000	0.0031	-0.0168	0.0924	0.0451	-0.0001	70.79	-0.0004	0.0000
2706180249	13:15	N/A	N/A	-0.0002	-0.0000	-0.0178	0.1068	0.0438	-0.0001	71.08	-0.0004	-0.0002
2706180067	13:19	N/A	N/A	-0.0001	0.0104	-0.0203	0.2299	0.0578	-0.0002	81.80	-0.0004	0.0005
2706180062	13:23	N/A	N/A	-0.0002	0.0704	-0.0012	0.0025	0.0102	-0.0002	2.053	0.0002	0.0001
2706180062MS	13:28	N/A	N/A	0.4488	2.054	1.043	0.4832	1.036	0.0521	52.19	0.2063	1.036
CCV	13:32	N/A	N/A	1.00/1	5.01/5	4.83/5	2.43	5.16/5	2.08/2	51.1/50	2.51/2.5	5.15
CCB	13:36	N/A	N/A	-0.0002	0.0036	0.0169	0.0130	0.0001	0.0000	0.0012	0.0000	-0.0002
MCV	13:39	N/A	N/A	0.496/.5	2.48/2.5	2.40/2.5	1.21	2.58/2.5	1.02/1	25.5/25	1.24/1.25	2.58
2706180062MSD	13:44	N/A	N/A	0.4443	2.086	1.047	0.4964	1.037	0.0525	52.49	0.2069	1.040
2706180060	13:47	N/A	N/A	-0.0000	0.0215	0.0069	0.0916	0.0883	-0.0001	10.93	0.0004	-0.0004
2706180036	13:52	N/A	N/A	0.0001	0.0902	-0.0005	0.0064	0.0091	-0.0001	4.747	-0.0000	-0.0003
2706180022	13:55	N/A	N/A	0.0000	0.0107	-0.0299	0.1312	0.1115	-0.0002	109.8	-0.0002	-0.0003
2706180258	14:00	N/A	N/A	0.0000	0.0390	-0.0156	0.1062	0.0432	-0.0001	69.84	-0.0002	0.0000
2706180029	14:04	N/A	N/A	0.0001	-0.0007	-0.0256	0.0999	0.0602	-0.0002	122.9	-0.0004	-0.0004
2706180058	14:09	N/A	N/A	-0.0002	-0.0044	-0.0328	0.0878	0.0747	-0.0002	93.78	-0.0000	-0.0005
MBLANK2007	14:13	N/A	N/A	0.0001	0.0107	0.0023	-0.0012	0.0000	0.0000	0.0154	-0.0000	-0.0003
ICS	14:17	N/A	N/A	0.512/.5	2.06/2	1.04/1	0.485	1.04/1	0.054/.05	52.6/50	0.206/.2	1.06/1
LCSD	14:20	N/A	N/A	0.500/.5	2.04/2	1.03/1	0.477	1.02/1	0.053/.05	52.0/50	0.202/.2	1.04/1
CCV	14:24	N/A	N/A	0.997/1	5.06/5	4.78/5	2.43	5.12/5	2.02/2	50.9/50	2.50/2.5	5.12
CCB	14:28	N/A	N/A	0.0001	-0.0033	0.0140	0.0128	0.0001	0.0000	0.0415	0.0003	0.0000
2706120284	14:32	N/A	N/A	-0.0000	0.0776	-0.0006	0.0288	0.0432	-0.0001	24.49	-0.0002	-0.0001
2706120284MS	14:35	N/A	N/A	0.5075	2.102	1.075	0.5189	1.084	0.0535	75.78	0.2062	1.052
2706120284MSD	14:39	N/A	N/A	0.5052	2.098	1.058	0.5173	1.078	0.0533	76.22	0.2054	1.044

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2706130119	14:43	N/A	N/A	0.0003	0.0491	-0.0206	0.1647	0.0615	-0.0002	70.61	0.0000	-0.0002
2706130119MS	14:47	N/A	N/A	0.5133	2.060	1.076	0.6670	1.105	0.0533	119.6	0.0000	1.053
2706130119MSD	14:51	N/A	N/A	0.5080	2.047	1.074	0.6671	1.096	0.0529	119.8	0.2067	1.050
2706120037	14:55	N/A	N/A	-0.0001	0.6754	-0.0169	0.1051	0.0868	-0.0001	58.60	-0.0003	0.0002
2706120038	14:59	N/A	N/A	-0.0007	1.972	-0.0071	0.6477	0.1991	-0.0003	141.1	-0.0001	0.0001
2706120039	15:04	N/A	N/A	-0.0005	1.575	-0.0216	0.1980	0.1425	-0.0001	50.96	-0.0001	0.0007
2706120040	15:08	N/A	N/A	-0.0006	2.298	-0.0198	0.3629	0.1457	-0.0001	65.55	-0.0001	0.0008
CCV	15:12	N/A	N/A	1.00/1	5.07/5	4.90/5	2.44	5.19/5	2.09/2	51.0/50	2.52/2.5	5.17
CCB	15:16	N/A	N/A	0.0004	0.0092	0.0162	0.0142	-0.0000	0.0000	0.0032	0.0002	-0.0001
MCV	15:20	N/A	N/A	0.499/.5	2.55/2.5	2.42/2.5	1.21	2.62/2.5	1.03/1	25.5/25	1.25/1.25	2.61
2706120615	15:24	N/A	N/A	-0.0001	0.0036	0.0004	0.1989	0.0509	-0.0001	30.25	-0.0001	-0.0004
2706120621	15:29	N/A	N/A	0.0001	0.0427	-0.0069	0.1715	0.0527	-0.0001	40.55	0.0000	-0.0003
2706120630	15:33	N/A	N/A	-0.0007	1.524	-0.0094	0.2615	0.0655	-0.0001	35.44	-0.0001	0.0008
2706120632	15:37	N/A	N/A	0.0002	0.0112	-0.0113	0.5439	0.0462	-0.0002	28.76	-0.0000	-0.0003
2706120633	15:42	N/A	N/A	0.0001	0.0150	-0.0110	0.1925	0.0541	-0.0001	56.01	-0.0002	-0.0004
2706120634	15:46	N/A	N/A	0.0002	0.0687	-0.0139	0.1930	0.0521	-0.0002	68.94	-0.0000	0.0000
2706120636	15:51	N/A	N/A	0.0001	0.0142	-0.0227	0.2838	0.0319	-0.0002	47.26	-0.0000	-0.0002
2706130120	15:55	N/A	N/A	-0.0004	0.0414	-0.0287	0.1563	0.0396	-0.0001	55.57	-0.0001	-0.0003
2706130286	15:59	N/A	N/A	0.0002	0.1075	-0.0089	0.1465	0.0307	-0.0001	23.44	0.0001	-0.0000
2706130408	16:03	N/A	N/A	-0.0003	0.1069	-0.0101	0.3287	0.0086	-0.0000	34.64	-0.0002	0.0000
CCV	16:07	N/A	N/A	1.00/1	5.13/5	4.82/5	2.45	5.18/5	2.07/2	50.7/50	2.51/2.5	5.16
CCB	16:11	N/A	N/A	0.0001	-0.0067	0.0144	0.0139	-0.0000	0.0000	0.0007	0.0004	-0.0002
2706120631_2X	16:15	N/A	N/A	0.0002	0.0072	-0.0275	0.2784	0.1684	-0.0004	251.0	-0.0009	-0.0009
2706120623_2X	16:19	N/A	N/A	0.0004	0.0569	-0.0071	0.2589	0.4247	-0.0006	194.3	-0.0006	-0.0012
2706120610_5X	16:24	N/A	N/A	-0.0005	0.1530	-0.1324	1.019	0.1546	-0.0011	298.1	-0.0004	-0.0028
2706120332_2X	16:28	N/A	N/A	-0.0004	-0.0030	-0.0547	3.821	0.0314	-0.0009	480.8	-0.0006	0.0143
ICSA	16:33	N/A	N/A	-0.027	265/250	-0.223	0.075	0.002	-0.000	253/250	0.001	0.001
ICSB	16:37	N/A	N/A	0.009	260/250	-0.225	0.070	0.265/.25	0.256/.25	250/250	0.505/.5	0.245/.25
Wash	16:40	N/A	N/A	0.0002	-0.0035	0.0005	0.0044	-0.0000	-0.0000	-0.0005	0.0003	-0.0001
QC-25 1ppm	16:47	N/A	N/A	0.3439	1.083	1.016	0.9642	1.122	1.031	1.082	1.037	1.114
ECV	16:51	N/A	N/A	1.01/1	5.21/5	4.86/5	2.47	5.25/5	2.10/2	50.8/50	2.54/2.5	5.22
ECB	16:55	N/A	N/A	0.0026	0.0065	0.0170	0.0193	0.0000	-0.0000	-0.0013	0.0002	-0.0001
MRL	16:58	N/A	N/A	0.013/.01	0.051/.05	0.106/.1	0.059	0.021/.02	0.001/.001	1.01/1	0.005/.005	0.052/.05

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ICV	11:32	10.0/10	10.0/10	10.2/10	102/100	101/100	10.1/10	10.0/10	101/100	10.1/10	10.0/10	9.76/10
Linearity Check	11:35	0.0019	-0.0133	100.7	307.9	192.8	0.0022	-0.0013	305.9	-0.0005	-0.039	0.0120
ICSA	11:39	-0.001	-0.014	100/100	0.341	249/250	0.002	-0.002	0.106	-0.001	-0.039	0.009
ICSA	11:43	0.246/.25	0.242/.25	99.7/100	0.154	244/250	0.254/.25	-0.003	0.060	0.467/.5	0.457/.5	0.006
Wash	11:45	0.0001	-0.0000	0.0018	0.0662	0.0003	-0.0007	0.0001	0.0019	0.0002	0.0022	0.0019
QC-25 ppm	11:50	1.023	0.9970	1.048	9.788	1.087	1.047	0.9737	1.060	1.075	1.078	0.9559
CCV	11:54	5.01/5	4.93/5	5.17/5	49.0/50	51.4/50	5.04/5	4.94/5	50.1/50	5.11/5	5.08/5	4.68/5
ICB	11:58	-0.0003	-0.0004	0.0008	-0.0015	-0.0001	-0.0007	0.0004	0.0089	-0.0001	0.0012	0.0100
MRL	12:02	0.011/.01	0.010/.01	0.019/.02	0.933/1	0.106/.1	0.002/.002	0.020/.02	0.999/1	0.021/.02	0.023/.02	0.051/.05
FILTERCHECK	12:05	-0.0002	0.0002	0.0017	0.0100	-0.0013	-0.0010	-0.0001	-0.0160	-0.0001	0.0010	-0.0037
MRL/2	12:09	0.005/.01	0.005/.01	0.010/.02	0.493(1)	0.053/.1	0.000(.002)	0.010(.02)	0.486(1)	0.010(.02)	0.011/.02	0.027/.05
MRL2007	12:12	0.010/.01	0.010/.01	0.020/.02	0.926/1	0.107/.1	0.001/.002	0.019/.02	1.02/1	0.021/.02	0.022/.02	0.046/.05
MELANK	12:16	0.0001	-0.0001	-0.0016	0.0112	0.0005	-0.0006	-0.0002	-0.0266	-0.0005	0.0005	0.0035
LCS	12:20	0.990/1	0.988/1	5.05/5	19.1/20	20.0/20	0.506/.5	0.976/1	49.1/50	0.503/.5	1.05/1	0.451/.5
LCSD	12:23	0.981/1	0.986/1	5.08/5	19.3/20	20.1/20	0.504/.5	0.984/1	48.7/50	0.506/.5	1.05/1	0.454/.5
2706180241	12:26	0.0025	0.0188	-0.0036	2.929	11.26	-0.0011	0.0052	42.70	-0.0004	-0.0017	-0.0003
2706180241MS	12:30	0.9983	0.9930	5.128	22.55	31.33	0.5129	0.9946	91.12	0.4988	1.064	0.4831
2706180241MSD	12:34	1.001	0.9934	5.159	22.62	31.28	0.5144	0.9961	91.48	0.4986	1.067	0.4798
2706180248	12:37	0.0024	0.0130	-0.0016	2.927	11.27	-0.0010	0.0058	42.79	-0.0000	-0.0009	0.0034
CCV	12:42	5.05/5	4.98/5	5.12/5	49.5/50	51.3/50	5.09/5	5.01/5	50.3/50	5.16/5	5.13/5	4.69/5
CCB	12:46	0.0002	0.0000	-0.0008	0.0552	-0.0006	-0.0006	0.0004	-0.0019	-0.0002	0.0005	0.0082
2706180247	12:49	0.0025	0.0097	-0.0037	2.868	11.03	-0.0010	0.0055	42.30	-0.0004	-0.0008	0.0007
2706180245	12:53	0.0024	0.0070	-0.0052	2.902	11.20	-0.0010	0.0050	42.30	-0.0006	-0.0016	0.0016
2706180246	12:58	0.0024	0.0037	-0.0009	2.866	11.24	-0.0011	0.0053	42.20	-0.0003	-0.0008	0.0019
2706180254	13:02	0.0024	0.0031	-0.0038	2.940	11.33	-0.0005	0.0054	42.98	0.0004	-0.0018	-0.0000
2706180256	13:06	0.0023	0.0255	0.0063	2.916	11.29	-0.0007	0.0052	42.96	-0.0002	-0.0027	-0.0011
2706180257	13:11	0.0026	0.0132	-0.0058	2.900	11.32	-0.0008	0.0053	43.22	0.0002	-0.0013	0.0003
2706180249	13:15	0.0025	0.0155	-0.0002	2.936	11.20	-0.0009	0.0053	43.21	-0.0003	-0.0009	0.0015
2706180067	13:19	0.0006	0.0040	-0.0038	4.078	17.34	-0.0010	0.0026	72.76	0.0005	0.0029	0.0028
2706180062	13:23	0.0003	0.0007	0.2948	1.397	0.8956	0.0064	-0.0002	2.183	-0.0003	0.0000	-0.0008
2706180062MS	13:28	1.003	0.9788	5.317	20.89	21.27	0.5220	0.9967	52.13	0.5165	1.095	0.4691
CCV	13:32	5.07/5	5.03/5	5.15/5	49.6/50	51.4/50	5.13/5	5.05/5	50.2/50	5.19/5	5.17/5	4.72/5
CCB	13:36	0.0002	0.0002	0.0005	-0.0039	-0.0013	-0.0006	0.0008	-0.0102	-0.0002	0.0006	0.0088
MCV	13:39	2.52/2.5	2.49/2.5	2.56/2.5	24.3/25	25.7/25	2.57/2.5	2.50/2.5	24.9/25	2.61/2.5	2.60/2.5	2.39/2.5
2706180062MSD	13:44	1.009	0.9819	5.423	21.35	21.69	0.5241	1.001	52.43	0.5172	1.096	0.4738
2706180060	13:47	0.0001	0.0030	0.0042	2.620	4.707	0.0414	0.0072	104.7	-0.0003	-0.0004	-0.0002
2706180036	13:52	0.0000	0.0010	0.0617	1.318	0.8822	0.0005	0.0001	3.127	-0.0005	0.0001	-0.0010
2706180022	13:55	0.0031	0.0335	0.0543	3.891	44.92	-0.0007	0.0061	100.6	-0.0009	-0.0025	-0.0010
2706180258	14:00	0.0024	0.0093	-0.0026	2.914	11.20	-0.0011	0.0052	42.59	-0.0005	0.0001	0.0026
2706180029	14:04	0.0033	0.0028	0.0049	3.432	18.34	0.0014	0.0049	40.47	0.0024	-0.0017	0.0054
2706180058	14:09	0.0636	0.0173	-0.0031	2.285	32.67	-0.0011	0.0031	41.02	-0.0003	-0.0022	0.0019
MELANK2007	14:13	0.0002	0.0001	-0.0006	-0.0109	0.0003	-0.0006	0.0002	0.0637	-0.0002	-0.0008	0.0013
LCS	14:17	1.003/1	1.004/1	5.25/5	20.7/20	21.4/20	0.528/.5	1.03/1	52.3/50	0.528/.5	1.08/1	0.489/.5
LCSD	14:20	1.01/1	1.03/1	5.16/5	20.8/20	21.5/20	0.518/.5	1.01/1	51.7/50	0.517/.5	1.08/1	0.476/.5
CCV	14:24	5.04/5	5.00/5	5.16/5	49.5/50	51.2/50	5.09/5	5.01/5	50.0/50	5.15/5	5.11/5	4.68/5
CCB	14:28	0.0002	0.0004	-0.0018	0.0150	-0.0008	-0.0007	0.0006	0.0094	-0.0001	0.0013	0.0102
2706120284	14:32	0.0007	0.0033	0.1784	2.804	10.12	0.0254	0.0060	15.80	0.0009	-0.0015	0.0064
2706120284MS	14:35	1.021	1.038	5.371	23.48	31.15	0.5522	1.032	67.71	0.5231	1.101	0.4919
2706120284MSD	14:39	1.015	1.030	5.367	23.42	31.29	0.5499	1.026	67.72	0.5187	1.088	0.4905

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2706130119	14:43	- .0000	0.0016	0.0027	7.913	61.27	0.4163	0.0033	161.6	0.0001	- .0038	0.0048
2706130119MS	14:47	1.021	1.060	5.187	28.54	80.01	0.9352	1.032	207.6	0.5230	1.070	0.5025
2706130119MSD	14:51	1.011	1.050	5.120	28.39	80.58	0.9341	1.029	209.9	0.5209	1.070	0.5049
2706120037	14:55	0.0007	0.0017	0.6373	7.766	32.58	0.0618	0.0051	46.84	0.0010	- .0016	0.0045
2706120038	14:59	0.0025	0.0028	1.701	86.01	55.46	0.0709	0.0038	1053.1	0.0010	- .0039	0.0078
2706120039	15:04	0.0018	0.0029	1.654	15.46	43.26	0.1421	0.0049	209.3	0.0020	- .0003	0.0056
2706120040	15:08	0.0027	0.0039	2.376	39.13	50.82	0.1393	0.0059	618.3	0.0026	- .0015	0.0040
CCV	15:12	5.09/5	5.05/5	5.07/5	49.9/50	51.2/50	5.15/5	5.06/5	50.1/50	5.21/5	5.24/5	4.76/5
CCB	15:16	0.0004	0.0002	- .0029	0.0681	0.0000	- .0008	0.0009	0.1046	- .0002	- .0006	0.0108
MCV	15:20	2.54/2.5	2.52/2.5	2.56/2.5	24.6/25	25.8/25	2.50/2.5	2.52/2.5	25.0/25	2.63/2.5	2.63/2.5	2.39/2.5
2706120615	15:24	0.0002	0.0008	0.0014	2.696	15.08	0.0294	0.0039	53.16	0.0001	- .0015	0.0084
2706120621	15:29	0.0008	0.0024	0.0608	3.135	16.79	0.0076	0.0041	54.36	0.0000	- .0021	0.0030
2706120630	15:33	0.0044	0.0047	2.534	4.971	15.85	0.0408	0.0029	232.1	0.0032	- .0017	0.0056
2706120632	15:37	0.0010	0.0031	0.1189	14.76	19.30	0.0379	0.0011	245.0	0.0002	0.0011	0.0030
2706120633	15:42	0.0002	0.0021	0.0559	3.294	16.10	0.1386	0.0060	99.54	- .0004	- .0011	0.0060
2706120634	15:46	0.0008	0.0129	0.3343	4.127	22.24	0.1209	0.0049	197.9	0.0006	- .0014	0.0067
2706120636	15:51	0.0002	0.0021	0.0180	8.936	39.95	0.0518	0.0026	186.4	0.0005	- .0027	0.0070
2706130120	15:55	- .0001	0.0091	0.0386	7.704	62.33	0.0917	0.0036	160.9	- .0000	- .0047	0.0059
2706130286	15:59	0.0010	0.0020	0.1251	2.658	11.59	0.0104	0.0024	49.84	0.0007	- .0013	- .0002
2706130408	16:03	0.0005	0.0015	0.1243	2.687	12.91	0.0206	0.0042	45.30	0.0002	- .0012	0.0022
CCV	16:07	5.08/5	5.04/5	5.09/5	49.7/50	50.9/50	5.14/5	5.06/5	49.7/50	5.21/5	5.16/5	4.69/5
CCB	16:11	0.0004	0.0004	- .0022	0.0598	0.0006	- .0008	0.0005	0.0397	0.0001	0.0003	0.0119
2706120631_2X	16:15	0.0004	0.0015	0.1831	11.12	62.97	0.2965	0.0064	511.9	- .0003	- .0077	0.0187
2706120623_2X	16:19	0.0053	0.0086	0.0591	59.03	11.66	0.0013	0.0257	887.6	0.0016	- .0079	0.0151
2706120610_5X	16:24	0.0007	0.0031	0.7638	47.11	291.0	2.239	0.0072	1492.1	- .0021	- .0268	0.0302
2706120332_2X	16:28	0.0064	0.0027	1.263	31.87	226.2	1.183	0.2083	1478.7	0.0446	- .0162	0.0178
ICSA	16:33	- .000	- .014	99.4/100	0.220	243/250	0.002	- .002	0.612	- .001	- .043	0.004
ICSA	16:37	0.252/.25	0.247/.25	98.0/100	0.141	240/250	0.262/.25	- .002	0.407	0.479/.5	0.474/.5	0.008
Wash	16:40	0.0003	0.0001	- .0012	0.0253	- .0005	- .0009	- .0001	0.1164	0.0000	- .0003	0.0013
QC-25 ppm	16:47	1.068	1.031	1.055	10.28	1.101	1.087	1.011	1.189	1.129	1.125	0.9776
ECV	16:51	5.15/5	5.10/5	5.10/5	51.0/50	51.0/50	5.20/5	5.13/5	50.9/50	5.28/5	5.24/5	4.73/5
ECB	16:55	0.0004	0.0003	- .0044	0.0552	- .0005	- .0008	0.0005	0.0350	- .0002	0.0007	0.0054
MRL	16:58	0.011/.01	0.010/.01	0.017/.02	1.03/1	0.104/.1	0.001/.002	0.020/.02	1.02/1	0.021/.02	0.020/.02	0.051/.05

Landscape Summary

File ID: 070619

Date: 6/19/07

Analyst: wbh

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Sample ID	Time	SE	TL	V	ZN	ALX	BEX
ICV	11:32	10.1/10	9.99/10	10.1/10	9.98/10	10.1/10	4.05/4
Linearity Check	11:35	-.0282	-.0874	0.0001	0.0221	0.0035	-.0004
ICSA	11:39	-.047	-.075	0.000	0.017	N/A	-.000
ICSA	11:43	-.048	-.078	0.249/.25	0.530/.5	N/A	0.247/.25
Wash	11:46	-.0069	0.0009	0.0002	0.0002	0.0001	0.0000
QC-25 ppm	11:50	0.9713	1.081	0.9916	1.039	1.005	0.9892
CCV	11:54	5.05/5	5.20/5	5.02/5	5.09/5	4.93/5	2.03/2
ICB	11:58	-.0053	0.0038	0.0000	0.0003	-.0002	0.0001
MRL	12:02	0.088/.1	0.108/.1	0.002/.002	0.021/.02	0.050/.05	0.001/.001
FILTERCHECK	12:05	-.0098	0.0027	0.0003	-.0001	-.0008	-.0000
MRL/2	12:09	0.041(.1)	0.055/.1	0.001(.002)	0.010/.02	0.024(.05)	0.001/.001
MRL2007	12:12	0.091/.1	0.110/.1	0.002/.002	0.023/.02	0.051/.05	0.001/.001
MBLANK	12:16	-.0100	-.0007	0.0004	-.0000	-.0011	0.0000
LCS	12:20	1.02/1	1.06/1	0.994/1	1.02/1	1.91/2	0.051/.05
LCSD	12:23	1.03/1	1.07/1	0.987/1	1.02/1	1.92/2	0.051/.05
2706180241	12:26	-.0317	-.0145	0.0068	0.0005	0.0028	-.0001
2706180241MS	12:30	1.091	1.049	1.009	1.081	1.949	0.0514
2706180241MSD	12:34	1.098	1.054	1.012	1.087	1.943	0.0515
2706180248	12:37	5.09/5	5.25/5	5.06/5	5.14/5	4.93/5	2.04/2
CCV	12:42	-.0078	0.0010	0.0002	0.0003	0.0001	-.0000
CCB	12:46	-.0246	-.0142	0.0070	0.0010	0.0018	-.0001
2706180247	12:49	-.0105	-.0156	0.0070	0.0015	0.0197	-.0001
2706180245	12:53	-.0175	-.0159	0.0069	-.0004	0.0105	-.0001
2706180246	12:58	-.0242	-.0122	0.0063	0.0248	0.0044	-.0001
2706180254	13:06	-.0205	-.0171	0.0069	0.2261	0.0036	-.0001
2706180257	13:11	-.0203	-.0157	0.0074	0.0162	0.0029	-.0001
2706180249	13:15	-.0260	-.0166	0.0071	0.0043	0.0031	-.0001
2706180067	13:19	-.0180	-.0170	0.0035	0.0025	0.0059	-.0002
2706180062	13:23	-.0126	-.0037	0.0002	-.0001	0.0609	-.0000
2706180062MS	13:28	1.102	1.112	1.008	1.097	2.000	0.0519
CCV	13:32	5.12/5	5.29/5	5.09/5	5.17/5	4.90/5	2.08/2
CCB	13:36	-.0103	0.0005	0.0001	0.0003	-.0002	0.0000
MCV	13:39	2.52/2.5	2.68/2.5	2.52/2.5	2.58/2.5	2.47/2.5	1.02/1
2706180062MSD	13:44	1.093	1.117	1.014	1.108	1.986	0.0523
2706180060	13:47	-.0124	-.0029	0.0017	0.0041	0.0127	-.0001
2706180036	13:52	-.0117	-.0004	0.0005	-.0004	0.0899	-.0001
2706180022	13:55	-.0273	-.0268	0.0135	0.1506	-.0001	-.0002
2706180258	14:00	-.0220	-.0163	0.0070	0.0061	0.0361	-.0001
2706180029	14:04	-.0228	-.0326	0.0055	0.0030	0.0086	-.0002
2706180058	14:09	-.0258	-.0209	0.0072	0.0006	0.0030	-.0002
MBLANK2007	14:13	-.0094	0.0011	0.0002	0.0034	0.0013	0.0000
LCS	14:17	1.07/1	1.10/1	1.04/1	1.09/1	1.99/2	0.054/.05
LCSD	14:20	1.05/1	1.09/1	1.01/1	1.07/1	1.95/2	0.052/.05
CCV	14:24	5.08/5	5.24/5	5.06/5	5.14/5	4.89/5	2.02/2
CCB	14:28	-.0123	0.0001	0.0001	0.0002	0.0000	0.0000
2706120284	14:32	-.0093	-.0053	0.0015	0.0093	0.0695	-.0001
2706120284MS	14:35	1.088	1.103	1.029	1.093	2.036	0.0534
2706120284MSD	14:39	1.068	1.091	1.024	1.085	2.024	0.0532

Landscape Summary

File ID: 070619

Date: 6/19/07

Analyst: wbh

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Sample ID	Time	SE	TL	V	ZN	ALX	BEX
2706130119	14:43	-.0394	-.0149	0.0035	0.0032	0.0327	-.0002
2706130119MS	14:47	1.066	1.041	1.037	1.092	1.996	0.0532
2706130119MSD	14:51	1.069	1.044	1.026	1.094	1.967	0.0528
2706120037	14:55	-.0260	-.0120	0.0043	0.0110	0.6781	-.0001
2706120038	14:59	-.0451	-.0399	0.0076	0.0148	1.829	-.0003
2706120039	15:04	-.0316	-.0128	0.0062	0.0156	1.475	-.0001
2706120040	15:08	-.0308	-.0171	0.0078	0.0164	2.144	-.0001
CCV	15:12	5.21/5	5.36/5	5.11/5	5.20/5	4.81/5	2.08/2
CCB	15:16	-.0071	0.0006	0.0004	0.0002	0.0006	0.0000
MCV	15:20	2.55/2.5	2.71/2.5	2.54/2.5	2.61/2.5	2.39/2.5	1.03/1
2706120615	15:24	-.0211	-.0051	0.0006	0.0135	0.0045	-.0001
2706120621	15:29	-.0223	-.0069	0.0008	0.0488	0.0381	-.0001
2706120630	15:33	-.0167	-.0083	0.0100	0.0154	1.391	-.0001
2706120632	15:37	-.0269	-.0058	0.0039	0.0609	0.0109	-.0002
2706120633	15:42	-.0217	-.0108	0.0008	0.0451	0.0140	-.0001
2706120634	15:46	-.0216	-.0183	0.0008	0.0996	0.0707	-.0002
2706120636	15:51	-.0349	-.0118	0.0013	0.0461	0.0182	-.0002
2706130120	15:55	-.0363	-.0121	0.0072	0.0071	0.0351	-.0001
2706130286	15:59	-.0166	-.0047	0.0047	0.0051	0.1026	-.0001
2706130408	16:03	-.0231	-.0044	0.0008	0.0156	0.0974	-.0000
CCV	16:07	5.11/5	5.27/5	5.10/5	5.19/5	4.75/5	2.07/2
CCB	16:11	-.0069	0.0037	0.0003	0.0002	0.0003	0.0000
2706120631_2X	16:15	-.0502	-.0654	0.0016	0.0238	0.0065	-.0004
2706120623_2X	16:19	-.0473	-.0412	0.0043	0.0114	0.0510	-.0006
2706120610_5X	16:24	-.1614	-.0720	0.0053	0.0138	0.1234	-.0011
2706120332_2X	16:28	-.0827	-.1551	0.0249	0.0113	0.0218	-.0009
ICSA	16:33	-.061	-.079	-.001	0.018	N/A	-.000
ICSAB	16:37	-.055	-.077	0.255/.25	0.543/.5	N/A	0.256/.25
Wash	16:40	-.0126	0.0011	0.0002	0.0001	0.0008	-.0000
QC-25 ppm	16:47	1.003	1.123	1.035	1.095	1.000	1.031
ECV	16:51	5.19/5	5.34/5	5.16/5	5.27/5	4.83/5	2.10/2
ECB	16:55	-.0109	0.0005	0.0003	0.0003	-.0001	-.0000
MRL	16:58	0.092/.1	0.110/.1	0.003/.002	0.021/.02	0.047/.05	0.001/.001

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	161.0 kPa	0.54 L/min

6/19/2007 10:57:52 Hg ReAlign... Actual peak offset (nm): 0.003
Drift (nm): 0.000 Slit adjustment: 0

=====

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	-119.4
-1.6	15.0	-90.3
-1.2	15.0	-81.4
-0.8	15.0	-77.2
-0.4	15.0	-85.3
0.0	15.0	-85.6
0.4	15.0	-91.7
0.8	15.0	-104.2
1.2	15.0	-112.8
1.6	15.0	-136.4
2.0	15.0	-147.3
-0.8	10.0	-139.6
-0.8	10.5	-154.5

=====

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	312871.5
-1.6	15.0	432805.8
-1.2	15.0	575210.0
-0.8	15.0	699440.2
-0.4	15.0	779441.7
0.0	15.0	804583.7
0.4	15.0	755359.2
0.8	15.0	643853.6
1.2	15.0	525953.1
1.6	15.0	394822.6
2.0	15.0	283986.8
0.0	10.0	9282.8
0.0	10.5	29441.2
0.0	11.0	50727.3
0.0	11.5	76405.8
0.0	12.0	117564.5
0.0	12.5	251290.7
0.0	13.0	358409.2
0.0	13.5	461575.2
0.0	14.0	592342.8
0.0	14.5	781178.6
0.0	15.0	808021.5
0.0	15.5	753940.7
0.0	16.0	657797.6
0.0	16.5	418724.2
0.0	17.0	319388.3
0.0	17.5	223056.7
0.0	18.0	161037.5
0.0	18.5	105828.9
0.0	19.0	27213.4
0.0	19.5	11909.2
0.0	20.0	5766.9
-0.8	15.0	715863.8
-0.4	15.0	790155.5
0.0	15.0	808524.6
0.4	15.0	748513.1
0.8	15.0	642603.1
0.0	13.0	360620.1
0.0	13.5	467974.6
0.0	14.0	606498.8
0.0	14.5	779600.4
0.0	15.0	814572.9
0.0	15.5	756989.2

0.0	16.0	653358.3
0.0	16.5	432438.5
0.0	17.0	316293.1

6/19/2007 11:03:13 aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 814572.9 for Axial viewing

Y viewing position set to 15.0 mm having Peak intensity 814572.9 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	2092.4
-6.5	15.0	1615.0
-6.0	15.0	1231.4
-5.5	15.0	1225.3
-5.0	15.0	1493.5
-4.5	15.0	2213.9
-4.0	15.0	3439.1
-3.5	15.0	5214.7
-3.0	15.0	8180.4
-2.5	15.0	11424.1
-2.0	15.0	15826.6
-1.5	15.0	22093.9
-1.0	15.0	27937.8
-0.5	15.0	35712.8
0.0	15.0	38914.6
0.5	15.0	31932.8
1.0	15.0	28562.6
1.5	15.0	25044.0
2.0	15.0	20228.4
2.5	15.0	15894.2
3.0	15.0	10875.6
3.5	15.0	7084.8
4.0	15.0	3728.3
4.5	15.0	3583.7
5.0	15.0	2718.2
5.5	15.0	1857.4
6.0	15.0	1375.7
6.5	15.0	1100.3
7.0	15.0	879.1

6/19/2007 11:06:18 aligned for analyte Mn 257.610

X viewing position set to 0.0 mm having Peak intensity 38914.6 for Radial viewing

Analysis Begun

Start Time: 6/19/2007 11:25:23

Plasma On Time: 6/19/2007 07:20:16

Logged In Analyst: Owner

Technique: ICP Continuous

Spectrometer Model: Optima 4300 DV, S/N 077N2121801 Autosampler Model: AS-93plus

Sample Information File: C:\pe\Owner\Sample Information\070619.sif

Batch ID: 070619

Results Data Set: 070619

Results Library: C:\pe\Owner\Results\Results.mdb

Method Loaded

Method Name: 2007_060831

Method Last Saved: 1/18/2007 13:30:10

IEC File: IEC060831.iec

MSF File:

Method Description: 200.7_060831

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Al	Lin, Calc Int	Peak Area	Radial	Yr	Yes
As	Lin, Calc Int	Peak Area	Axial	Sca	Yes
B_	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Ba	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Be	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Ca	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Cd	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Co	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Cr	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Cu	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Fe	Lin, Calc Int	Peak Area	Radial	Yr	Yes
K	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Mg	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Mn	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Mo	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Na	Lin, Calc Int	Peak Area	Radial	Yr	Yes
Ni	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Pb	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Sb	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Se	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Tl	Lin, Calc Int	Peak Area	Axial	Sca	Yes
V	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Zn	Lin, Calc Int	Peak Area	Axial	Sca	Yes
Sca	Lin, Calc Int	Peak Area	Axial	n/a	n/a
Yr	Lin, Calc Int	Peak Area	Radial	n/a	n/a
Alx	Lin, Calc Int	Peak Area	Axial	Sca	No
Bex	Lin, Calc Int	Peak Area	Axial	Sca	No

Sequence No.: 1

Autosampler Location: 0

Sample ID: Calib Blank 1

Date Collected: 6/19/2007 11:25:23

Analyst:

Data Type: Original

Initial Sample Wt:

Initial Sample Vol:

Dilution:

Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte

Back Pressure

Flow

All

217.0 kPa

0.65 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
Sca	392489.6	1217.10	0.31%	100	%
Yr	205999.5	2314.38	1.12%	100	%
Ag†	369.6	39.86	10.79%	[0.00]	mg/L
Al†	20.0	6.78	33.88%	[0.00]	mg/L
As†	-0.8	2.59	327.72%	[0.00]	mg/L
B_†	253.2	2.65	1.04%	[0.00]	mg/L

Ba†	-64.0	4.25	6.64%	[0.00]	mg/L
Be†	-4630.6	31.54	0.68%	[0.00]	mg/L
Cat	464.6	1.25	0.27%	[0.00]	mg/L
Cd†	40.3	5.14	12.76%	[0.00]	mg/L
Cot	-72.9	3.03	4.16%	[0.00]	mg/L
Cr†	290.5	0.57	0.20%	[0.00]	mg/L
Cut	2363.3	91.89	3.89%	[0.00]	mg/L
Fe†	-20.5	0.54	2.64%	[0.00]	mg/L
K†	175.7	12.85	7.31%	[0.00]	mg/L
Mg†	-0.9	4.80	524.61%	[0.00]	mg/L
Mnt	583.4	16.42	2.81%	[0.00]	mg/L
Mo†	11.0	3.19	29.04%	[0.00]	mg/L
Na†	-1071.8	87.94	8.21%	[0.00]	mg/L
Ni†	-57.3	10.31	17.99%	[0.00]	mg/L
Pb†	-31.2	2.02	6.49%	[0.00]	mg/L
Sb†	7.0	0.26	3.69%	[0.00]	mg/L
Se†	7.2	1.11	15.41%	[0.00]	mg/L
Tl†	-20.2	2.92	14.43%	[0.00]	mg/L
V†	170.4	11.54	6.77%	[0.00]	mg/L
Znt	54.1	4.26	7.87%	[0.00]	mg/L
Alx†	284.6	29.77	10.46%	[0.00]	ug/L
Bex†	-4630.6	31.54	0.68%	[0.00]	ug/L

Sequence No.: 2
 Sample ID: Standard 2
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 15
 Date Collected: 6/19/2007 11:29:05
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: Standard 2

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: Standard 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
Sca	353404.7	1115.41	0.32%	90.0 %
Yr	194029.4	234.69	0.12%	94.2 %
Ag†	512459.7	253.85	0.05%	[2] mg/L
Al†	35779.2	533.49	1.49%	[10] mg/L
As†	18283.6	143.24	0.78%	[10] mg/L
B_†	151640.1	14.50	0.01%	[5.02] mg/L
Ba†	674415.6	294.39	0.04%	[10] mg/L
Be†	11544081.6	11784.98	0.10%	[4.01] mg/L
Ca†	702481.4	2357.22	0.34%	[100] mg/L
Cd†	123113.0	213.47	0.17%	[5.01] mg/L
Co†	237786.2	471.22	0.20%	[10] mg/L
Cr†	745136.6	114.85	0.02%	[9.97] mg/L
Cu†	3481817.2	5150.57	0.15%	[10] mg/L
Fe†	10718.2	113.79	1.06%	[9.98] mg/L
K†	111932.1	658.46	0.59%	[100] mg/L
Mg†	349530.3	512.04	0.15%	[100] mg/L
Mn†	5448389.6	7843.72	0.14%	[10] mg/L
Mo†	113101.7	10.47	0.01%	[9.98] mg/L
Na†	330223.9	3372.30	1.02%	[100] mg/L
Ni†	211170.2	33.12	0.02%	[10] mg/L
Pb†	45605.7	173.84	0.38%	[10] mg/L
Sb†	18133.3	152.97	0.84%	[10] mg/L
Se†	11977.4	98.46	0.82%	[10] mg/L
Tl†	26256.6	173.23	0.66%	[10] mg/L
V†	1583885.2	463.32	0.03%	[10] mg/L
Zn†	447921.4	147.12	0.03%	[10] mg/L
Alx†	867838.7	1187.47	0.14%	[10000] ug/L
Bext	11544081.6	11784.98	0.10%	[4010] ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag	1	Lin, Calc Int	0.0	256200	0.00000	1.000000	
Al	1	Lin, Calc Int	0.0	3578	0.00000	1.000000	
As	1	Lin, Calc Int	0.0	1828	0.00000	1.000000	
B_	1	Lin, Calc Int	0.0	30210	0.00000	1.000000	
Ba	1	Lin, Calc Int	0.0	67440	0.00000	1.000000	
Be	1	Lin, Calc Int	0.0	2879000	0.00000	1.000000	
Ca	1	Lin, Calc Int	0.0	7025	0.00000	1.000000	
Cd	1	Lin, Calc Int	0.0	24570	0.00000	1.000000	
Co	1	Lin, Calc Int	0.0	23780	0.00000	1.000000	
Cr	1	Lin, Calc Int	-0.0	74740	0.00000	1.000000	
Cu	1	Lin, Calc Int	-0.0	348200	0.00000	1.000000	
Fe	1	Lin, Calc Int	-0.0	1074	0.00000	1.000000	
K	1	Lin, Calc Int	0.0	1119	0.00000	1.000000	
Mg	1	Lin, Calc Int	0.0	3495	0.00000	1.000000	
Mn	1	Lin, Calc Int	0.0	544800	0.00000	1.000000	
Mo	1	Lin, Calc Int	0.0	11330	0.00000	1.000000	
Na	1	Lin, Calc Int	0.0	3302	0.00000	1.000000	
Ni	1	Lin, Calc Int	0.0	21120	0.00000	1.000000	
Pb	1	Lin, Calc Int	0.0	4561	0.00000	1.000000	
Sb	1	Lin, Calc Int	0.0	1813	0.00000	1.000000	
Se	1	Lin, Calc Int	0.0	1198	0.00000	1.000000	

Tl	1	Lin, Calc Int	0.0	2626	0.00000	1.000000
V	1	Lin, Calc Int	0.0	158400	0.00000	1.000000
Zn	1	Lin, Calc Int	0.0	44790	0.00000	1.000000
Alx	1	Lin, Calc Int	-0.0	86.78	0.00000	1.000000
Bex	1	Lin, Calc Int	0.0	2879	0.00000	1.000000

Sequence No.: 3
 Sample ID: ICV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 15
 Date Collected: 6/19/2007 11:32:22
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	352935.1	89.9 %		0.54			0.60%
Yr	188377.5	91.4 %		1.72			1.89%
Agf	514024.3	2.01 mg/L		0.001	2.01 mg/L	0.001	0.05%
	QC value within limits for Ag		Recovery = 100.31%				
Alt	36676.9	9.82 mg/L		0.238	9.82 mg/L	0.238	2.42%
	QC value within limits for Al		Recovery = 98.21%				
Ast	18284.7	10.0 mg/L		0.11	10.0 mg/L	0.11	1.06%
	QC value within limits for As		Recovery = 100.33%				
B_+	152999.5	5.04 mg/L		0.003	5.04 mg/L	0.003	0.06%
	QC value within limits for B_		Recovery = 100.87%				
Baf	678192.9	10.1 mg/L		0.00	10.1 mg/L	0.00	0.03%
	QC value within limits for Ba		Recovery = 100.62%				
Be+	1166118.0	4.05 mg/L		0.060	4.05 mg/L	0.060	1.48%
	QC value within limits for Be		Recovery = 101.30%				
Ca+	703721.4	100 mg/L		0.1	100 mg/L	0.1	0.11%
	QC value within limits for Ca		Recovery = 100.18%				
Cdt	123475.6	4.93 mg/L		0.001	4.93 mg/L	0.001	0.02%
	QC value within limits for Cd		Recovery = 98.58%				
Co+	239259.6	10.1 mg/L		0.01	10.1 mg/L	0.01	0.14%
	QC value within limits for Co		Recovery = 100.62%				
Crt	749687.3	10.0 mg/L		0.00	10.0 mg/L	0.00	0.04%
	QC value within limits for Cr		Recovery = 100.31%				
Cut	3490935.4	10.0 mg/L		0.05	10.0 mg/L	0.05	0.47%
	QC value within limits for Cu		Recovery = 100.30%				
Fe+	10899.1	10.2 mg/L		0.20	10.2 mg/L	0.20	2.00%
	QC value within limits for Fe		Recovery = 101.53%				
K+	113619.5	102 mg/L		0.4	102 mg/L	0.4	0.41%
	QC value within limits for K		Recovery = 101.51%				
Mgt	352464.5	101 mg/L		0.3	101 mg/L	0.3	0.27%
	QC value within limits for Mg		Recovery = 100.85%				
Mnt	5479058.5	10.1 mg/L		0.00	10.1 mg/L	0.00	0.02%
	QC value within limits for Mn		Recovery = 100.56%				
Mo+	113608.1	10.0 mg/L		0.01	10.0 mg/L	0.01	0.06%
	QC value within limits for Mo		Recovery = 100.25%				
Na+	334771.8	101 mg/L		0.3	101 mg/L	0.3	0.26%
	QC value within limits for Na		Recovery = 101.38%				
Ni+	212351.2	10.1 mg/L		0.01	10.1 mg/L	0.01	0.05%
	QC value within limits for Ni		Recovery = 100.53%				
Pb+	45618.3	10.0 mg/L		0.09	10.0 mg/L	0.09	0.85%
	QC value within limits for Pb		Recovery = 100.03%				
Sb+	18052.0	9.76 mg/L		0.077	9.76 mg/L	0.077	0.78%
	QC value within limits for Sb		Recovery = 97.61%				
Se+	12042.3	10.1 mg/L		0.12	10.1 mg/L	0.12	1.22%
	QC value within limits for Se		Recovery = 100.78%				
Tl+	26270.1	9.99 mg/L		0.092	9.99 mg/L	0.092	0.92%
	QC value within limits for Tl		Recovery = 99.90%				
V+	1591666.6	10.1 mg/L		0.01	10.1 mg/L	0.01	0.06%
	QC value within limits for V		Recovery = 101.00%				
Zn+	449872.3	9.98 mg/L		0.016	9.98 mg/L	0.016	0.16%
	QC value within limits for Zn		Recovery = 99.82%				
Alx+	874057.8	10100 ug/L		1.3	10.1 mg/L	0.00	0.01%
	QC value within limits for Alx		Recovery = 100.72%				
Bex+	1166118.0	4050 ug/L		59.8	4.05 mg/L	0.060	1.48%
	QC value within limits for Bex		Recovery = 101.27%				

All analyte(s) passed QC.

Sequence No.: 4
 Sample ID: Linearity Check
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 9
 Date Collected: 6/19/2007 11:35:38
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: Linearity Check

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: Linearity Check

Analyte	Mean Corrected Intensity	Conc. Units	Calib Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	339610.1	86.5 %	2.00			2.32%
Yr	183487.7	89.1 %	0.85			0.96%
Ag†	-7092.2	-0.0277 mg/L	0.00095	-0.0277 mg/L	0.00095	3.44%
	QC value within limits for Ag	Recovery = Not calculated				
Al†	16.4	0.00463 mg/L	0.001767	0.00463 mg/L	0.001767	38.13%
	QC value within limits for Al	Recovery = Not calculated				
As†	-172.0	-0.0941 mg/L	0.00135	-0.0941 mg/L	0.00135	1.43%
	QC value within limits for As	Recovery = Not calculated				
B_†	557.0	0.0184 mg/L	0.00376	0.0184 mg/L	0.00376	20.41%
	QC value within limits for B_	Recovery = Not calculated				
Ba†	83.1	0.00123 mg/L	0.000166	0.00123 mg/L	0.000166	13.47%
	QC value within limits for Ba	Recovery = Not calculated				
Be†	-1112.8	-0.00039 mg/L	0.000081	-0.00039 mg/L	0.000081	20.93%
	QC value within limits for Be	Recovery = Not calculated				
Ca†	2076799.6	296 mg/L	2.0	296 mg/L	2.0	0.66%
	QC value within limits for Ca	Recovery = 98.55%				
Cd†	-19.9	0.00048 mg/L	0.000304	0.00048 mg/L	0.000304	63.77%
	QC value within limits for Cd	Recovery = Not calculated				
Co†	45.5	0.00191 mg/L	0.000149	0.00191 mg/L	0.000149	7.78%
	QC value within limits for Co	Recovery = Not calculated				
Cr†	143.1	0.00192 mg/L	0.000140	0.00192 mg/L	0.000140	7.33%
	QC value within limits for Cr	Recovery = Not calculated				
Cu†	-4646.3	-0.0133 mg/L	0.00021	-0.0133 mg/L	0.00021	1.59%
	QC value within limits for Cu	Recovery = Not calculated				
Fe†	108118.4	101 mg/L	0.4	101 mg/L	0.4	0.41%
	QC value within limits for Fe	Recovery = 100.67%				
K†	344649.3	308 mg/L	3.4	308 mg/L	3.4	1.10%
	QC value within limits for K	Recovery = 102.64%				
Mg†	673328.4	193 mg/L	1.2	193 mg/L	1.2	0.64%
	QC value within limits for Mg	Recovery = Not calculated				
Mn†	1173.0	0.00215 mg/L	0.000088	0.00215 mg/L	0.000088	4.08%
	QC value within limits for Mn	Recovery = Not calculated				
Mo†	-14.4	-0.00127 mg/L	0.000442	-0.00127 mg/L	0.000442	34.67%
	QC value within limits for Mo	Recovery = Not calculated				
Na†	1010036.1	306 mg/L	2.4	306 mg/L	2.4	0.78%
	QC value within limits for Na	Recovery = 101.95%				
Ni†	-10.7	-0.00051 mg/L	0.000226	-0.00051 mg/L	0.000226	43.90%
	QC value within limits for Ni	Recovery = Not calculated				
Pb†	-10.5	-0.00231 mg/L	0.003174	-0.00231 mg/L	0.003174	137.63%
	QC value within limits for Pb	Recovery = Not calculated				
Sb†	21.8	0.0120 mg/L	0.00267	0.0120 mg/L	0.00267	22.31%
	QC value within limits for Sb	Recovery = Not calculated				
Se†	-317.9	-0.0282 mg/L	0.01586	-0.0282 mg/L	0.01586	56.28%
	QC value within limits for Se	Recovery = Not calculated				
Tl†	50.8	-0.0874 mg/L	0.00302	-0.0874 mg/L	0.00302	3.46%
	QC value within limits for Tl	Recovery = Not calculated				
V†	-573.7	0.00010 mg/L	0.000196	0.00010 mg/L	0.000196	205.48%
	QC value within limits for V	Recovery = Not calculated				
Zn†	990.8	0.0221 mg/L	0.00063	0.0221 mg/L	0.00063	2.86%
	QC value within limits for Zn	Recovery = Not calculated				
Alx†	301.2	3.47 ug/L	0.030	0.00347 mg/L	0.000030	0.86%
	QC value within limits for Alx	Recovery = Not calculated				
Bex†	-1112.8	-0.387 ug/L	0.0808	-0.00039 mg/L	0.000081	20.91%
	QC value within limits for Bex	Recovery = Not calculated				

All analyte(s) passed QC.

Sequence No.: 5
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 6/19/2007 11:39:20
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	340556.1	86.8 %	1.29			1.48%
Yr	184543.4	89.6 %	1.98			2.21%
Ag†	-7207.8	-0.0281 mg/L	0.00010	-0.0281 mg/L	0.00010	0.35%
	QC value within limits for Ag Recovery = Not calculated					
Al†	907419.6	254 mg/L	9.1	254 mg/L	9.1	3.60%
	QC value within limits for Al Recovery = 101.45%					
As†	-414.2	-0.227 mg/L	0.0041	-0.227 mg/L	0.0041	1.80%
	QC value within limits for As Recovery = Not calculated					
B_†	2321.5	0.0768 mg/L	0.00099	0.0768 mg/L	0.00099	1.28%
	QC value within limits for B_ Recovery = Not calculated					
Ba†	147.5	0.00218 mg/L	0.000085	0.00218 mg/L	0.000085	3.90%
	QC value within limits for Ba Recovery = Not calculated					
Be†	-1085.9	-0.00038 mg/L	0.000000	-0.00038 mg/L	0.000000	0.11%
	QC value within limits for Be Recovery = Not calculated					
Ca†	1802325.8	257 mg/L	10.0	257 mg/L	10.0	3.90%
	QC value within limits for Ca Recovery = 102.63%					
Cd†	-35.2	0.00165 mg/L	0.000002	0.00165 mg/L	0.000002	0.13%
	QC value within limits for Cd Recovery = Not calculated					
Co†	29.2	0.00123 mg/L	0.000034	0.00123 mg/L	0.000034	2.79%
	QC value within limits for Co Recovery = Not calculated					
Cr†	-53.3	-0.00071 mg/L	0.000030	-0.00071 mg/L	0.000030	4.15%
	QC value within limits for Cr Recovery = Not calculated					
Cu†	-4800.0	-0.0138 mg/L	0.00022	-0.0138 mg/L	0.00022	1.57%
	QC value within limits for Cu Recovery = Not calculated					
Fe†	107877.5	100 mg/L	0.1	100 mg/L	0.1	0.06%
	QC value within limits for Fe Recovery = 100.45%					
K†	381.9	0.341 mg/L	0.0072	0.341 mg/L	0.0072	2.10%
	QC value within limits for K Recovery = Not calculated					
Mg†	870932.4	249 mg/L	9.6	249 mg/L	9.6	3.86%
	QC value within limits for Mg Recovery = 99.72%					
Mn†	840.2	0.00154 mg/L	0.000086	0.00154 mg/L	0.000086	5.59%
	QC value within limits for Mn Recovery = Not calculated					
Mo†	-24.0	-0.00212 mg/L	0.000466	-0.00212 mg/L	0.000466	21.97%
	QC value within limits for Mo Recovery = Not calculated					
Na†	348.5	0.106 mg/L	0.0230	0.106 mg/L	0.0230	21.80%
	QC value within limits for Na Recovery = Not calculated					
Ni†	-30.9	-0.00147 mg/L	0.000058	-0.00147 mg/L	0.000058	3.97%
	QC value within limits for Ni Recovery = Not calculated					
Pb†	-178.9	-0.0392 mg/L	0.00206	-0.0392 mg/L	0.00206	5.26%
	QC value within limits for Pb Recovery = Not calculated					
Sb†	16.6	0.00918 mg/L	0.000090	0.00918 mg/L	0.000090	0.98%
	QC value within limits for Sb Recovery = Not calculated					
Se†	-340.2	-0.0473 mg/L	0.01006	-0.0473 mg/L	0.01006	21.25%
	QC value within limits for Se Recovery = Not calculated					
Tl†	46.8	-0.0748 mg/L	0.00131	-0.0748 mg/L	0.00131	1.75%
	QC value within limits for Tl Recovery = Not calculated					
V†	-577.6	0.00005 mg/L	0.000055	0.00005 mg/L	0.000055	109.34%
	QC value within limits for V Recovery = Not calculated					
Zn†	779.5	0.0174 mg/L	0.00027	0.0174 mg/L	0.00027	1.55%
	QC value within limits for Zn Recovery = Not calculated					
Alx†	Saturated2					
	Unable to evaluate QC.					
Bex†	-1085.9	-0.377 ug/L	0.0004	-0.00038 mg/L	0.000000	0.11%
	QC value within limits for Bex Recovery = Not calculated					

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 6
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 11
 Date Collected: 6/19/2007 11:43:05
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	346826.2	88.4 %	0.81			0.92%
Yr	189532.9	92.0 %	1.46			1.59%
Ag†	1936.6	0.00756 mg/L	0.000293	0.00756 mg/L	0.000293	3.88%
QC value less than the lower limit for Ag Recovery = 1.51%						
Al†	889862.6	249 mg/L	2.5	249 mg/L	2.5	0.99%
QC value within limits for Al Recovery = 99.48%						
As†	-409.4	-0.223 mg/L	0.0002	-0.223 mg/L	0.0002	0.11%
QC value less than the lower limit for As Recovery = Not calculated						
B†	2203.3	0.0724 mg/L	0.00083	0.0724 mg/L	0.00083	1.15%
QC value greater than the upper limit for B Recovery = Not calculated						
Ba†	17302.7	0.257 mg/L	0.0025	0.257 mg/L	0.0025	0.97%
QC value within limits for Ba Recovery = 102.68%						
Be†	710915.3	0.247 mg/L	0.0003	0.247 mg/L	0.0003	0.11%
QC value within limits for Be Recovery = 98.79%						
Ca†	1765161.3	251 mg/L	3.8	251 mg/L	3.8	1.52%
QC value within limits for Ca Recovery = 100.51%						
Cd†	12122.3	0.497 mg/L	0.0045	0.497 mg/L	0.0045	0.91%
QC value within limits for Cd Recovery = 99.46%						
Co†	5698.3	0.240 mg/L	0.0020	0.240 mg/L	0.0020	0.83%
QC value within limits for Co Recovery = 95.86%						
Cr†	18397.9	0.246 mg/L	0.0020	0.246 mg/L	0.0020	0.80%
QC value within limits for Cr Recovery = 98.47%						
Cu†	84163.0	0.242 mg/L	0.0005	0.242 mg/L	0.0005	0.19%
QC value within limits for Cu Recovery = 96.77%						
Fe†	107029.0	99.7 mg/L	0.02	99.7 mg/L	0.02	0.02%
QC value within limits for Fe Recovery = 99.66%						
K†	172.7	0.154 mg/L	0.0354	0.154 mg/L	0.0354	22.93%
QC value within limits for K Recovery = Not calculated						
Mg†	851801.8	244 mg/L	3.6	244 mg/L	3.6	1.48%
QC value within limits for Mg Recovery = 97.53%						
Mn†	138508.1	0.254 mg/L	0.0003	0.254 mg/L	0.0003	0.13%
QC value within limits for Mn Recovery = 101.69%						
Mo†	-29.5	-0.00260 mg/L	0.000033	-0.00260 mg/L	0.000033	1.28%
QC value within limits for Mo Recovery = Not calculated						
Na†	197.8	0.0599 mg/L	0.00318	0.0599 mg/L	0.00318	5.31%
QC value within limits for Na Recovery = Not calculated						
Ni†	9862.6	0.467 mg/L	0.0047	0.467 mg/L	0.0047	1.01%
QC value within limits for Ni Recovery = 93.41%						
Pb†	2085.7	0.457 mg/L	0.0025	0.457 mg/L	0.0025	0.54%
QC value within limits for Pb Recovery = 91.47%						
Sb†	19.8	0.00643 mg/L	0.008132	0.00643 mg/L	0.008132	126.37%
QC value within limits for Sb Recovery = Not calculated						
Se†	-338.6	-0.0479 mg/L	0.00271	-0.0479 mg/L	0.00271	5.67%
QC value within limits for Se Recovery = Not calculated						
Tl†	30.5	-0.0778 mg/L	0.00352	-0.0778 mg/L	0.00352	4.53%
QC value less than the lower limit for Tl Recovery = Not calculated						
V†	38613.1	0.249 mg/L	0.0005	0.249 mg/L	0.0005	0.20%
QC value within limits for V Recovery = 99.44%						
Zn†	23849.6	0.530 mg/L	0.0047	0.530 mg/L	0.0047	0.89%
QC value within limits for Zn Recovery = 105.92%						
Alx†	Saturated2					
Unable to evaluate QC.						
Bex†	710915.3	247 ug/L	0.3	0.247 mg/L	0.0003	0.11%
QC value within limits for Bex Recovery = 98.78%						

QC Failed. Continue with analysis.

Sequence No.: 7
 Sample ID: Wash
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/19/2007 11:46:49
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: Wash

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: Wash

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	387495.0	98.7	%	0.80			0.81%
Yr	206622.5	100	%	0.4			0.44%
Ag†	28.6	0.00011	mg/L	0.000214	0.00011 mg/L	0.000214	191.71%
	QC value within limits for Ag	Recovery = Not calculated					
Al†	4.3	0.00119	mg/L	0.001242	0.00119 mg/L	0.001242	104.58%
	QC value within limits for Al	Recovery = Not calculated					
As†	3.3	0.00179	mg/L	0.002237	0.00179 mg/L	0.002237	125.23%
	QC value within limits for As	Recovery = Not calculated					
B_†	276.8	0.00916	mg/L	0.000191	0.00916 mg/L	0.000191	2.09%
	QC value within limits for B_	Recovery = Not calculated					
Ba†	10.0	0.00015	mg/L	0.000113	0.00015 mg/L	0.000113	75.70%
	QC value within limits for Ba	Recovery = Not calculated					
Be†	26.2	0.00001	mg/L	0.000031	0.00001 mg/L	0.000031	343.52%
	QC value within limits for Be	Recovery = Not calculated					
Ca†	-4.4	-0.00063	mg/L	0.000800	-0.00063 mg/L	0.000800	127.06%
	QC value within limits for Ca	Recovery = Not calculated					
Cd†	3.2	0.00011	mg/L	0.000293	0.00011 mg/L	0.000293	277.60%
	QC value within limits for Cd	Recovery = Not calculated					
Co†	-3.0	-0.00013	mg/L	0.000002	-0.00013 mg/L	0.000002	1.63%
	QC value within limits for Co	Recovery = Not calculated					
Cr†	5.9	0.00008	mg/L	0.000041	0.00008 mg/L	0.000041	51.23%
	QC value within limits for Cr	Recovery = Not calculated					
Cu†	-0.1	0.00000	mg/L	0.000176	0.00000 mg/L	0.000176	>999.9%
	QC value within limits for Cu	Recovery = Not calculated					
Fe†	2.0	0.00184	mg/L	0.003431	0.00184 mg/L	0.003431	186.26%
	QC value within limits for Fe	Recovery = Not calculated					
K†	74.1	0.0662	mg/L	0.01646	0.0662 mg/L	0.01646	24.86%
	QC value within limits for K	Recovery = Not calculated					
Mg†	1.2	0.00034	mg/L	0.000895	0.00034 mg/L	0.000895	260.66%
	QC value within limits for Mg	Recovery = Not calculated					
Mn†	-373.9	-0.00069	mg/L	0.000040	-0.00069 mg/L	0.000040	5.82%
	QC value within limits for Mn	Recovery = Not calculated					
Mo†	1.3	0.00011	mg/L	0.000163	0.00011 mg/L	0.000163	144.30%
	QC value within limits for Mo	Recovery = Not calculated					
Na†	6.1	0.00185	mg/L	0.031875	0.00185 mg/L	0.031875	>999.9%
	QC value within limits for Na	Recovery = Not calculated					
Ni†	-3.2	-0.00015	mg/L	0.000240	-0.00015 mg/L	0.000240	158.13%
	QC value within limits for Ni	Recovery = Not calculated					
Pb†	10.2	0.00224	mg/L	0.001787	0.00224 mg/L	0.001787	79.86%
	QC value within limits for Pb	Recovery = Not calculated					
Sb†	3.5	0.00192	mg/L	0.001677	0.00192 mg/L	0.001677	87.42%
	QC value within limits for Sb	Recovery = Not calculated					
Se†	-8.3	-0.00689	mg/L	0.003517	-0.00689 mg/L	0.003517	51.01%
	QC value within limits for Se	Recovery = Not calculated					
Tl†	2.4	0.00092	mg/L	0.001823	0.00092 mg/L	0.001823	197.24%
	QC value within limits for Tl	Recovery = Not calculated					
V†	24.9	0.00016	mg/L	0.000261	0.00016 mg/L	0.000261	165.51%
	QC value within limits for V	Recovery = Not calculated					
Zn†	10.3	0.00023	mg/L	0.000039	0.00023 mg/L	0.000039	16.89%
	QC value within limits for Zn	Recovery = Not calculated					
Alx†	7.6	0.0876	ug/L	0.35481	0.00009 mg/L	0.000355	405.26%
	QC value within limits for Alx	Recovery = Not calculated					
Bex†	26.2	0.00909	ug/L	0.031273	0.00001 mg/L	0.000031	343.94%
	QC value within limits for Bex	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 8
 Sample ID: QC-25 1ppm
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 12
 Date Collected: 6/19/2007 11:50:13
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	389798.3	99.3 %		0.68			0.69%
Yr	205589.1	99.8 %		0.94			0.94%
Ag†	252260.5	0.985 mg/L		0.0005	0.985 mg/L	0.0005	0.05%
	QC value within limits for Ag		Recovery = 98.45%				
Al†	3725.4	0.999 mg/L		0.0097	0.999 mg/L	0.0097	0.98%
	QC value within limits for Al		Recovery = 99.95%				
As†	1812.8	0.995 mg/L		0.0093	0.995 mg/L	0.0093	0.94%
	QC value within limits for As		Recovery = 99.46%				
B_†	28332.2	0.936 mg/L		0.0064	0.936 mg/L	0.0064	0.68%
	QC value within limits for B_		Recovery = 93.57%				
Ba†	71413.1	1.06 mg/L		0.000	1.06 mg/L	0.000	0.02%
	QC value within limits for Ba		Recovery = 105.95%				
Be†	2847823.7	0.989 mg/L		0.0015	0.989 mg/L	0.0015	0.15%
	QC value within limits for Be		Recovery = 98.94%				
Ca†	7395.7	1.05 mg/L		0.005	1.05 mg/L	0.005	0.49%
	QC value within limits for Ca		Recovery = 105.28%				
Cd†	24554.6	0.990 mg/L		0.0044	0.990 mg/L	0.0044	0.45%
	QC value within limits for Cd		Recovery = 99.00%				
Co†	25302.0	1.06 mg/L		0.003	1.06 mg/L	0.003	0.26%
	QC value within limits for Co		Recovery = 106.41%				
Cr†	76453.5	1.02 mg/L		0.003	1.02 mg/L	0.003	0.25%
	QC value within limits for Cr		Recovery = 102.30%				
Cu†	346981.5	0.997 mg/L		0.0028	0.997 mg/L	0.0028	0.28%
	QC value within limits for Cu		Recovery = 99.70%				
Fe†	1124.5	1.05 mg/L		0.003	1.05 mg/L	0.003	0.26%
	QC value within limits for Fe		Recovery = 104.75%				
K†	10955.8	9.79 mg/L		0.036	9.79 mg/L	0.036	0.36%
	QC value within limits for K		Recovery = 97.88%				
Mg†	3795.3	1.09 mg/L		0.007	1.09 mg/L	0.007	0.64%
	QC value within limits for Mg		Recovery = 108.71%				
Mn†	570484.7	1.05 mg/L		0.002	1.05 mg/L	0.002	0.20%
	QC value within limits for Mn		Recovery = 104.71%				
Mo†	11034.2	0.974 mg/L		0.0091	0.974 mg/L	0.0091	0.94%
	QC value within limits for Mo		Recovery = 97.37%				
Na†	3500.0	1.06 mg/L		0.012	1.06 mg/L	0.012	1.14%
	QC value within limits for Na		Recovery = 105.99%				
Ni†	22715.7	1.08 mg/L		0.004	1.08 mg/L	0.004	0.39%
	QC value within limits for Ni		Recovery = 107.54%				
Pb†	4915.5	1.08 mg/L		0.009	1.08 mg/L	0.009	0.83%
	QC value within limits for Pb		Recovery = 107.78%				
Sb†	1769.2	0.956 mg/L		0.0063	0.956 mg/L	0.0063	0.66%
	QC value within limits for Sb		Recovery = 95.59%				
Se†	1160.4	0.971 mg/L		0.0108	0.971 mg/L	0.0108	1.11%
	QC value within limits for Se		Recovery = 97.13%				
Tl†	2833.5	1.08 mg/L		0.011	1.08 mg/L	0.011	1.04%
	QC value within limits for Tl		Recovery = 108.10%				
V†	156247.9	0.992 mg/L		0.0010	0.992 mg/L	0.0010	0.10%
	QC value within limits for V		Recovery = 99.16%				
Zn†	46845.7	1.04 mg/L		0.001	1.04 mg/L	0.001	0.11%
	QC value within limits for Zn		Recovery = 103.93%				
Alx†	87259.7	1010 ug/L		13.1	1.01 mg/L	0.013	1.30%
	QC value within limits for Alx		Recovery = 100.55%				
Bex†	2847823.7	989 ug/L		1.5	0.989 mg/L	0.0015	0.15%
	QC value within limits for Bex		Recovery = 98.92%				

All analyte(s) passed QC.

Sequence No.: 9
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 6/19/2007 11:54:42
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	363117.1	92.5 %		0.13			0.14%
Yr	192546.2	93.5 %		1.26			1.35%
Ag†	253580.8	0.990 mg/L		0.0011	0.990 mg/L	0.0011	0.11%
	QC value within limits for Ag		Recovery = 98.97%				
Al†	18212.7	4.88 mg/L		0.121	4.88 mg/L	0.121	2.48%
	QC value within limits for Al		Recovery = 97.57%				
As†	8756.5	4.81 mg/L		0.008	4.81 mg/L	0.008	0.16%
	QC value within limits for As		Recovery = 96.10%				
B_†	73925.4	2.44 mg/L		0.001	2.44 mg/L	0.001	0.02%
	QC value within limits for B_		Recovery = 97.46%				
Ba†	340623.8	5.05 mg/L		0.020	5.05 mg/L	0.020	0.39%
	QC value within limits for Ba		Recovery = 101.07%				
Be†	5834060.8	2.03 mg/L		0.002	2.03 mg/L	0.002	0.11%
	QC value within limits for Be		Recovery = 101.36%				
Ca†	357234.1	50.9 mg/L		0.00	50.9 mg/L	0.00	0.00%
	QC value within limits for Ca		Recovery = 101.71%				
Cd†	61801.2	2.47 mg/L		0.004	2.47 mg/L	0.004	0.17%
	QC value within limits for Cd		Recovery = 98.80%				
Co†	120363.1	5.06 mg/L		0.016	5.06 mg/L	0.016	0.31%
	QC value within limits for Co		Recovery = 101.24%				
Cr†	374711.8	5.01 mg/L		0.019	5.01 mg/L	0.019	0.38%
	QC value within limits for Cr		Recovery = 100.27%				
Cu†	1716714.4	4.93 mg/L		0.007	4.93 mg/L	0.007	0.14%
	QC value within limits for Cu		Recovery = 98.65%				
Fe†	5545.9	5.17 mg/L		0.127	5.17 mg/L	0.127	2.47%
	QC value within limits for Fe		Recovery = 103.32%				
K†	54838.0	49.0 mg/L		0.20	49.0 mg/L	0.20	0.40%
	QC value within limits for K		Recovery = 97.98%				
Mg†	179467.2	51.4 mg/L		0.05	51.4 mg/L	0.05	0.10%
	QC value within limits for Mg		Recovery = 102.70%				
Mn†	2745183.4	5.04 mg/L		0.013	5.04 mg/L	0.013	0.26%
	QC value within limits for Mn		Recovery = 100.77%				
Mo†	56003.0	4.94 mg/L		0.008	4.94 mg/L	0.008	0.16%
	QC value within limits for Mo		Recovery = 98.83%				
Na†	165285.6	50.1 mg/L		0.05	50.1 mg/L	0.05	0.09%
	QC value within limits for Na		Recovery = 100.11%				
Ni†	107920.6	5.11 mg/L		0.002	5.11 mg/L	0.002	0.03%
	QC value within limits for Ni		Recovery = 102.18%				
Pb†	23176.7	5.08 mg/L		0.020	5.08 mg/L	0.020	0.38%
	QC value within limits for Pb		Recovery = 101.64%				
Sb†	8654.7	4.68 mg/L		0.003	4.68 mg/L	0.003	0.06%
	QC value within limits for Sb		Recovery = 93.52%				
Se†	6037.7	5.05 mg/L		0.025	5.05 mg/L	0.025	0.49%
	QC value within limits for Se		Recovery = 101.06%				
Tl†	13666.0	5.20 mg/L		0.013	5.20 mg/L	0.013	0.25%
	QC value within limits for Tl		Recovery = 103.94%				
V†	790345.6	5.02 mg/L		0.002	5.02 mg/L	0.002	0.05%
	QC value within limits for V		Recovery = 100.31%				
Zn†	229325.1	5.09 mg/L		0.005	5.09 mg/L	0.005	0.09%
	QC value within limits for Zn		Recovery = 101.77%				
Alx†	428139.2	4930 ug/L		35.6	4.93 mg/L	0.036	0.72%
	QC value within limits for Alx		Recovery = 98.67%				
Bex†	5834060.8	2030 ug/L		2.2	2.03 mg/L	0.002	0.11%
	QC value within limits for Bex		Recovery = 101.33%				

All analyte(s) passed QC.

Sequence No.: 10
 Sample ID: ICB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/19/2007 11:58:33
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	418320.7	107	%	10.3			9.69%
Yr	207888.4	101	%	0.3			0.27%
Ag†	50.8	0.00020	mg/L	0.000030	0.00020 mg/L	0.000030	15.33%
QC value within limits for Ag		Recovery = Not calculated					
Al†	41.8	0.0117	mg/L	0.00642	0.0117 mg/L	0.00642	54.94%
QC value within limits for Al		Recovery = Not calculated					
As†	27.2	0.0149	mg/L	0.00076	0.0149 mg/L	0.00076	5.09%
QC value within limits for As		Recovery = Not calculated					
B_†	519.5	0.0172	mg/L	0.00161	0.0172 mg/L	0.00161	9.39%
QC value within limits for B_		Recovery = Not calculated					
Ba†	5.7	0.00008	mg/L	0.000152	0.00008 mg/L	0.000152	180.65%
QC value within limits for Ba		Recovery = Not calculated					
Be†	312.4	0.00011	mg/L	0.000115	0.00011 mg/L	0.000115	105.89%
QC value within limits for Be		Recovery = Not calculated					
Ca†	4.3	0.00061	mg/L	0.000701	0.00061 mg/L	0.000701	114.27%
QC value within limits for Ca		Recovery = Not calculated					
Cd†	7.1	0.00009	mg/L	0.000004	0.00009 mg/L	0.000004	4.40%
QC value within limits for Cd		Recovery = Not calculated					
Co†	13.8	0.00058	mg/L	0.000244	0.00058 mg/L	0.000244	42.02%
QC value within limits for Co		Recovery = Not calculated					
Cr†	-19.0	-0.00025	mg/L	0.000463	-0.00025 mg/L	0.000463	182.22%
QC value within limits for Cr		Recovery = Not calculated					
Cu†	-148.7	-0.00043	mg/L	0.000447	-0.00043 mg/L	0.000447	104.66%
QC value within limits for Cu		Recovery = Not calculated					
Fe†	0.8	0.00078	mg/L	0.000821	0.00078 mg/L	0.000821	104.85%
QC value within limits for Fe		Recovery = Not calculated					
K†	-1.7	-0.00155	mg/L	0.005993	-0.00155 mg/L	0.005993	387.11%
QC value within limits for K		Recovery = Not calculated					
Mg†	-0.3	-0.00008	mg/L	0.000101	-0.00008 mg/L	0.000101	128.48%
QC value within limits for Mg		Recovery = Not calculated					
Mn†	-361.1	-0.00066	mg/L	0.000037	-0.00066 mg/L	0.000037	5.55%
QC value within limits for Mn		Recovery = Not calculated					
Mo†	4.7	0.00041	mg/L	0.000554	0.00041 mg/L	0.000554	134.40%
QC value within limits for Mo		Recovery = Not calculated					
Na†	29.4	0.00890	mg/L	0.013112	0.00890 mg/L	0.013112	147.39%
QC value within limits for Na		Recovery = Not calculated					
Ni†	-1.8	-0.00009	mg/L	0.000299	-0.00009 mg/L	0.000299	350.95%
QC value within limits for Ni		Recovery = Not calculated					
Pb†	5.7	0.00124	mg/L	0.000160	0.00124 mg/L	0.000160	12.86%
QC value within limits for Pb		Recovery = Not calculated					
Sb†	18.1	0.00997	mg/L	0.000330	0.00997 mg/L	0.000330	3.31%
QC value within limits for Sb		Recovery = Not calculated					
Se†	-6.3	-0.00527	mg/L	0.002007	-0.00527 mg/L	0.002007	38.08%
QC value within limits for Se		Recovery = Not calculated					
Tl†	10.0	0.00379	mg/L	0.000631	0.00379 mg/L	0.000631	16.66%
QC value within limits for Tl		Recovery = Not calculated					
V†	4.9	0.00003	mg/L	0.000035	0.00003 mg/L	0.000035	116.28%
QC value within limits for V		Recovery = Not calculated					
Zn†	12.4	0.00028	mg/L	0.000080	0.00028 mg/L	0.000080	28.99%
QC value within limits for Zn		Recovery = Not calculated					
Alx†	-15.2	-0.175	ug/L	0.8399	-0.00018 mg/L	0.000840	479.75%
QC value within limits for Alx		Recovery = Not calculated					
Bex†	312.4	0.109	ug/L	0.1149	0.00011 mg/L	0.000115	105.91%
QC value within limits for Bex		Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 11
 Sample ID: MRL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 20
 Date Collected: 6/19/2007 12:02:01
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	379726.7	96.7 %	0.78			0.81%
Yr	201999.0	98.1 %	0.86			0.88%
Ag†	2608.1	0.0102 mg/L	0.00056	0.0102 mg/L	0.00056	5.51%
	QC value within limits for Ag Recovery = 101.79%					
Al†	189.0	0.0520 mg/L	0.00612	0.0520 mg/L	0.00612	11.78%
	QC value within limits for Al Recovery = 103.92%					
As†	194.5	0.106 mg/L	0.0025	0.106 mg/L	0.0025	2.32%
	QC value within limits for As Recovery = 106.38%					
B_†	1809.8	0.0598 mg/L	0.00124	0.0598 mg/L	0.00124	2.07%
	QC value within limits for B_ Recovery = 119.60%					
Ba†	1414.4	0.0210 mg/L	0.00023	0.0210 mg/L	0.00023	1.08%
	QC value within limits for Ba Recovery = 104.87%					
Be†	2918.8	0.00102 mg/L	0.000027	0.00102 mg/L	0.000027	2.70%
	QC value within limits for Be Recovery = 101.53%					
Ca†	7290.6	1.04 mg/L	0.002	1.04 mg/L	0.002	0.15%
	QC value within limits for Ca Recovery = 103.78%					
Cd†	158.3	0.00520 mg/L	0.000155	0.00520 mg/L	0.000155	2.99%
	QC value within limits for Cd Recovery = 104.02%					
Co†	1233.0	0.0519 mg/L	0.00071	0.0519 mg/L	0.00071	1.37%
	QC value within limits for Co Recovery = 103.71%					
Cr†	787.0	0.0105 mg/L	0.00018	0.0105 mg/L	0.00018	1.73%
	QC value within limits for Cr Recovery = 105.30%					
Cu†	3446.0	0.00993 mg/L	0.000051	0.00993 mg/L	0.000051	0.51%
	QC value within limits for Cu Recovery = 99.31%					
Fe†	20.8	0.0194 mg/L	0.00027	0.0194 mg/L	0.00027	1.38%
	QC value within limits for Fe Recovery = 96.97%					
K†	1044.0	0.933 mg/L	0.0410	0.933 mg/L	0.0410	4.40%
	QC value within limits for K Recovery = 93.27%					
Mg†	370.3	0.106 mg/L	0.0001	0.106 mg/L	0.0001	0.12%
	QC value within limits for Mg Recovery = 105.97%					
Mn†	827.5	0.00152 mg/L	0.000054	0.00152 mg/L	0.000054	3.53%
	QC value within limits for Mn Recovery = 75.94%					
Mo†	229.9	0.0203 mg/L	0.00012	0.0203 mg/L	0.00012	0.57%
	QC value within limits for Mo Recovery = 101.41%					
Na†	3297.4	0.999 mg/L	0.0266	0.999 mg/L	0.0266	2.66%
	QC value within limits for Na Recovery = 99.85%					
Ni†	440.2	0.0208 mg/L	0.00051	0.0208 mg/L	0.00051	2.44%
	QC value within limits for Ni Recovery = 104.06%					
Pb†	105.0	0.0230 mg/L	0.00086	0.0230 mg/L	0.00086	3.76%
	QC value within limits for Pb Recovery = 115.13%					
Sb†	93.7	0.0514 mg/L	0.00139	0.0514 mg/L	0.00139	2.71%
	QC value within limits for Sb Recovery = 102.89%					
Se†	105.4	0.0880 mg/L	0.00695	0.0880 mg/L	0.00695	7.90%
	QC value within limits for Se Recovery = 88.01%					
Tl†	284.6	0.108 mg/L	0.0025	0.108 mg/L	0.0025	2.28%
	QC value within limits for Tl Recovery = 107.83%					
V†	331.0	0.00215 mg/L	0.000100	0.00215 mg/L	0.000100	4.64%
	QC value within limits for V Recovery = 107.35%					
Zn†	933.2	0.0207 mg/L	0.00008	0.0207 mg/L	0.00008	0.38%
	QC value within limits for Zn Recovery = 103.53%					
Alx†	4302.0	49.6 ug/L	1.35	0.0496 mg/L	0.00135	2.72%
	QC value within limits for Alx Recovery = 99.14%					
Bex†	2918.8	1.01 ug/L	0.027	0.00101 mg/L	0.000027	2.70%
	QC value within limits for Bex Recovery = 101.39%					

All analyte(s) passed QC.

Sequence No.: 12
 Sample ID: FILTERCHECK
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 16
 Date Collected: 6/19/2007 12:05:39
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: FILTERCHECK

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: FILTERCHECK

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	383470.0	97.7 %		0.25			0.26%
Yr	207169.6	101 %		0.7			0.68%
Agf	3.2	0.00001 mg/L		0.000391	0.00001 mg/L	0.000391	>999.9%
Alf	4.9	0.00139 mg/L		0.001111	0.00139 mg/L	0.001111	80.04%
Ast	5.0	0.00272 mg/L		0.001803	0.00272 mg/L	0.001803	66.37%
B_f	248.0	0.00821 mg/L		0.000281	0.00821 mg/L	0.000281	3.42%
Baf	-1.5	-0.00002 mg/L		0.000016	-0.00002 mg/L	0.000016	73.87%
Bet	-25.2	-0.00001 mg/L		0.000010	-0.00001 mg/L	0.000010	118.92%
Caf	275.3	0.0392 mg/L		0.05973	0.0392 mg/L	0.05973	152.40%
Cdf	-0.7	-0.00007 mg/L		0.000050	-0.00007 mg/L	0.000050	74.57%
Cof	-1.9	-0.00008 mg/L		0.000005	-0.00008 mg/L	0.000005	6.31%
Crf	-14.5	-0.00019 mg/L		0.000165	-0.00019 mg/L	0.000165	85.21%
Cuf	64.3	0.00018 mg/L		0.000097	0.00018 mg/L	0.000097	52.44%
Fef	1.9	0.00172 mg/L		0.001017	0.00172 mg/L	0.001017	59.03%
Kf	11.2	0.00999 mg/L		0.053322	0.00999 mg/L	0.053322	533.89%
Mgf	-4.4	-0.00126 mg/L		0.000508	-0.00126 mg/L	0.000508	40.34%
Mnf	-570.7	-0.00105 mg/L		0.000015	-0.00105 mg/L	0.000015	1.43%
Mof	-1.3	-0.00012 mg/L		0.000139	-0.00012 mg/L	0.000139	117.08%
Naf	-52.8	-0.0160 mg/L		0.02649	-0.0160 mg/L	0.02649	165.62%
Nif	-2.5	-0.00012 mg/L		0.000041	-0.00012 mg/L	0.000041	33.99%
Pbf	4.5	0.00098 mg/L		0.000423	0.00098 mg/L	0.000423	43.28%
Sbf	-4.8	-0.00265 mg/L		0.003920	-0.00265 mg/L	0.003920	147.87%
Set	-11.7	-0.00980 mg/L		0.000977	-0.00980 mg/L	0.000977	9.97%
Tlf	7.1	0.00270 mg/L		0.001487	0.00270 mg/L	0.001487	55.11%
Vf	44.3	0.00028 mg/L		0.000162	0.00028 mg/L	0.000162	57.88%
Znf	-6.5	-0.00014 mg/L		0.000126	-0.00014 mg/L	0.000126	87.94%
Alxf	-70.7	-0.815 ug/L		0.1110	-0.00082 mg/L	0.000111	13.62%
Bexf	-25.2	-0.00876 ug/L		0.010432	-0.00001 mg/L	0.000010	119.07%

Sequence No.: 13
 Sample ID: MRL/2
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 22
 Date Collected: 6/19/2007 12:09:16
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MRL/2

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: MRL/2

Analyte	Mean Corrected Intensity	Conc. Units	Calib Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	378240.8	96.4 %	0.43			0.44%
Yr	199590.6	96.9 %	0.30			0.31%
Ag†	1288.7	0.00503 mg/L	0.000200	0.00503 mg/L	0.000200	3.98%
Al†	106.5	0.0294 mg/L	0.00476	0.0294 mg/L	0.00476	16.20%
As†	92.4	0.0505 mg/L	0.00021	0.0505 mg/L	0.00021	0.42%
B†	945.3	0.0312 mg/L	0.00034	0.0312 mg/L	0.00034	1.09%
Ba†	706.4	0.0105 mg/L	0.00006	0.0105 mg/L	0.00006	0.60%
Be†	1492.5	0.00052 mg/L	0.000053	0.00052 mg/L	0.000053	10.12%
Ca†	3708.5	0.528 mg/L	0.0036	0.528 mg/L	0.0036	0.69%
Cd†	82.8	0.00278 mg/L	0.000187	0.00278 mg/L	0.000187	6.73%
Co†	604.7	0.0254 mg/L	0.00004	0.0254 mg/L	0.00004	0.17%
Cr†	385.5	0.00516 mg/L	0.000191	0.00516 mg/L	0.000191	3.70%
Cu†	1744.0	0.00503 mg/L	0.000181	0.00503 mg/L	0.000181	3.61%
Fe†	10.6	0.00986 mg/L	0.003318	0.00986 mg/L	0.003318	33.65%
K†	551.6	0.493 mg/L	0.0003	0.493 mg/L	0.0003	0.05%
Mg†	185.3	0.0530 mg/L	0.00121	0.0530 mg/L	0.00121	2.28%
Mn†	240.6	0.00044 mg/L	0.000000	0.00044 mg/L	0.000000	0.01%
Mo†	111.8	0.00987 mg/L	0.000359	0.00987 mg/L	0.000359	3.63%
Na†	1605.6	0.486 mg/L	0.0043	0.486 mg/L	0.0043	0.89%
Ni†	208.9	0.00988 mg/L	0.000134	0.00988 mg/L	0.000134	1.36%
Pb†	49.1	0.0108 mg/L	0.00144	0.0108 mg/L	0.00144	13.35%
Sb†	49.4	0.0271 mg/L	0.00205	0.0271 mg/L	0.00205	7.55%
Se†	48.9	0.0408 mg/L	0.00060	0.0408 mg/L	0.00060	1.46%
Tl†	144.1	0.0546 mg/L	0.00016	0.0546 mg/L	0.00016	0.30%
V†	145.4	0.00095 mg/L	0.000246	0.00095 mg/L	0.000246	26.03%
Zn†	455.8	0.0101 mg/L	0.00015	0.0101 mg/L	0.00015	1.51%
Alx†	2100.8	24.2 ug/L	0.32	0.0242 mg/L	0.00032	1.33%
Bex†	1492.5	0.518 ug/L	0.0526	0.00052 mg/L	0.000053	10.14%

Sequence No.: 14
 Sample ID: MRL2007
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 23
 Date Collected: 6/19/2007 12:12:53
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MRL2007

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: MRL2007

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	383760.0	97.8 %		0.75			0.77%
Yr	200478.0	97.3 %		1.15			1.18%
Agf	2578.8	0.0101 mg/L		0.00005	0.0101 mg/L	0.00005	0.49%
Alf	166.8	0.0458 mg/L		0.00929	0.0458 mg/L	0.00929	20.29%
Asf	179.1	0.0980 mg/L		0.00446	0.0980 mg/L	0.00446	4.55%
B _f	1567.2	0.0518 mg/L		0.00064	0.0518 mg/L	0.00064	1.24%
Ba _f	1374.9	0.0204 mg/L		0.00009	0.0204 mg/L	0.00009	0.43%
Be _f	2947.5	0.00103 mg/L		0.000000	0.00103 mg/L	0.000000	0.03%
Ca _f	7304.1	1.04 mg/L		0.004	1.04 mg/L	0.004	0.35%
Cd _f	155.3	0.00520 mg/L		0.000020	0.00520 mg/L	0.000020	0.39%
Co _f	1252.4	0.0527 mg/L		0.00039	0.0527 mg/L	0.00039	0.75%
Cr _f	757.9	0.0101 mg/L		0.00004	0.0101 mg/L	0.00004	0.44%
Cu _f	3498.8	0.0101 mg/L		0.00002	0.0101 mg/L	0.00002	0.23%
Fe _f	21.7	0.0202 mg/L		0.00177	0.0202 mg/L	0.00177	8.76%
K _f	1036.7	0.926 mg/L		0.0609	0.926 mg/L	0.0609	6.58%
Mg _f	373.3	0.107 mg/L		0.0008	0.107 mg/L	0.0008	0.75%
Mn _f	787.9	0.00145 mg/L		0.000005	0.00145 mg/L	0.000005	0.32%
Mo _f	218.6	0.0193 mg/L		0.00005	0.0193 mg/L	0.00005	0.27%
Na _f	3359.1	1.02 mg/L		0.005	1.02 mg/L	0.005	0.45%
Ni _f	440.7	0.0208 mg/L		0.00007	0.0208 mg/L	0.00007	0.35%
Pb _f	100.0	0.0219 mg/L		0.00035	0.0219 mg/L	0.00035	1.60%
Sb _f	83.7	0.0459 mg/L		0.00181	0.0459 mg/L	0.00181	3.95%
Se _f	108.8	0.0909 mg/L		0.00503	0.0909 mg/L	0.00503	5.54%
Tl _f	289.5	0.110 mg/L		0.0008	0.110 mg/L	0.0008	0.70%
V _f	358.1	0.00232 mg/L		0.000262	0.00232 mg/L	0.000262	11.32%
Zn _f	1053.1	0.0234 mg/L		0.00022	0.0234 mg/L	0.00022	0.95%
Alxf	4437.6	51.1 ug/L		0.28	0.0511 mg/L	0.00028	0.54%
Bex _f	2947.5	1.02 ug/L		0.000	0.00102 mg/L	0.000000	0.04%

Sequence No.: 44
 Sample ID: MBLANK2007
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 61
 Date Collected: 6/19/2007 14:13:34
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MBLANK2007

Analyte Back Pressure Flow
 All 219.0 kPa 0.65 L/min

Mean Data: MBLANK2007

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	370942.0	94.5 %		0.37			0.39%
Yr	199755.1	97.0 %		0.20			0.20%
Agf	27.1	0.00011 mg/L		0.000016	0.00011 mg/L	0.000016	15.50%
Alf	38.4	0.0107 mg/L		0.01315	0.0107 mg/L	0.01315	122.55%
Asf	4.2	0.00231 mg/L		0.002290	0.00231 mg/L	0.002290	99.04%
B _f	-37.2	-0.00123 mg/L		0.000284	-0.00123 mg/L	0.000284	23.09%
Ba _f	1.1	0.00002 mg/L		0.000200	0.00002 mg/L	0.000200	>999.9%
Be _f	50.6	0.00002 mg/L		0.000046	0.00002 mg/L	0.000046	263.89%
Ca _f	108.2	0.0154 mg/L		0.00137	0.0154 mg/L	0.00137	8.91%
Cd _f	0.8	0.00000 mg/L		0.000054	0.00000 mg/L	0.000054	>999.9%
Co _f	-7.6	-0.00032 mg/L		0.000238	-0.00032 mg/L	0.000238	74.68%
Cr _f	13.2	0.00018 mg/L		0.000094	0.00018 mg/L	0.000094	53.41%
Cu _f	51.1	0.00015 mg/L		0.000066	0.00015 mg/L	0.000066	44.85%
Fe _f	-0.6	-0.00055 mg/L		0.002576	-0.00055 mg/L	0.002576	464.46%
K _f	-12.2	-0.0109 mg/L		0.01595	-0.0109 mg/L	0.01595	146.52%
Mg _f	0.9	0.00025 mg/L		0.001786	0.00025 mg/L	0.001786	707.63%
Mn _f	-335.0	-0.00061 mg/L		0.000001	-0.00061 mg/L	0.000001	0.18%
Mo _f	2.3	0.00020 mg/L		0.000130	0.00020 mg/L	0.000130	63.56%
Na _f	210.2	0.0637 mg/L		0.00808	0.0637 mg/L	0.00808	12.69%
Ni _f	-5.1	-0.00024 mg/L		0.000063	-0.00024 mg/L	0.000063	26.14%
Pb _f	-3.4	-0.00075 mg/L		0.000577	-0.00075 mg/L	0.000577	76.54%
Sb _f	2.3	0.00126 mg/L		0.000129	0.00126 mg/L	0.000129	10.28%
Se _f	-11.3	-0.00945 mg/L		0.003137	-0.00945 mg/L	0.003137	33.21%
Tl _f	2.9	0.00111 mg/L		0.000915	0.00111 mg/L	0.000915	82.76%
V _f	25.4	0.00016 mg/L		0.000317	0.00016 mg/L	0.000317	197.09%
Zn _f	151.4	0.00338 mg/L		0.000229	0.00338 mg/L	0.000229	6.76%
Alx _f	110.7	1.28 ug/L		1.196	0.00128 mg/L	0.001196	93.75%
Bex _f	50.6	0.0176 ug/L		0.04642	0.00002 mg/L	0.000046	264.17%

Sequence No.: 45
 Sample ID: LCS
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 62
 Date Collected: 6/19/2007 14:17:12
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: LCS

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: LCS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	359779.7	91.7 %	0.21			0.23%
Yr	193694.8	94.0 %	1.00			1.07%
Ag†	131195.0	0.512 mg/L	0.0007	0.512 mg/L	0.0007	0.13%
Al†	7530.1	2.06 mg/L	0.001	2.06 mg/L	0.001	0.04%
As†	1900.7	1.04 mg/L	0.002	1.04 mg/L	0.002	0.15%
B_†	14722.7	0.485 mg/L	0.0005	0.485 mg/L	0.0005	0.11%
Ba†	70335.5	1.04 mg/L	0.003	1.04 mg/L	0.003	0.26%
Be†	154118.7	0.0537 mg/L	0.00001	0.0537 mg/L	0.00001	0.03%
Ca†	369584.3	52.6 mg/L	0.02	52.6 mg/L	0.02	0.03%
Cd†	5315.0	0.206 mg/L	0.0001	0.206 mg/L	0.0001	0.07%
Co†	25203.3	1.06 mg/L	0.000	1.06 mg/L	0.000	0.01%
Cr†	77034.7	1.03 mg/L	0.002	1.03 mg/L	0.002	0.20%
Cu†	363037.5	1.04 mg/L	0.003	1.04 mg/L	0.003	0.28%
Fe†	5632.5	5.25 mg/L	0.035	5.25 mg/L	0.035	0.67%
K†	23155.3	20.7 mg/L	0.05	20.7 mg/L	0.05	0.26%
Mg†	74936.9	21.4 mg/L	0.15	21.4 mg/L	0.15	0.71%
Mn†	287854.1	0.528 mg/L	0.0012	0.528 mg/L	0.0012	0.22%
Mo†	11631.8	1.03 mg/L	0.000	1.03 mg/L	0.000	0.03%
Na†	172696.8	52.3 mg/L	0.20	52.3 mg/L	0.20	0.38%
Ni†	11163.6	0.528 mg/L	0.0009	0.528 mg/L	0.0009	0.18%
Pb†	4944.9	1.08 mg/L	0.001	1.08 mg/L	0.001	0.12%
Sb†	923.8	0.489 mg/L	0.0033	0.489 mg/L	0.0033	0.67%
Se†	1261.6	1.07 mg/L	0.001	1.07 mg/L	0.001	0.09%
Tl†	2930.7	1.10 mg/L	0.005	1.10 mg/L	0.005	0.43%
V†	163476.3	1.04 mg/L	0.000	1.04 mg/L	0.000	0.02%
Zn†	48964.1	1.09 mg/L	0.000	1.09 mg/L	0.000	0.03%
Alx†	172990.4	1990 ug/L	8.2	1.99 mg/L	0.008	0.41%
Bex†	154118.7	53.5 ug/L	0.01	0.0535 mg/L	0.00001	0.02%

Sequence No.: 46
 Sample ID: LCSD
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 63
 Date Collected: 6/19/2007 14:20:57
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: LCSD

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: LCSD

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	358792.4	91.4 %	0.05			0.06%
Yr	189554.6	92.0 %	0.54			0.59%
Agf	128235.6	0.500 mg/L	0.0007	0.500 mg/L	0.0007	0.14%
Alf	7461.9	2.04 mg/L	0.020	2.04 mg/L	0.020	0.99%
Asf	1876.7	1.03 mg/L	0.002	1.03 mg/L	0.002	0.18%
B _f	14475.8	0.477 mg/L	0.0010	0.477 mg/L	0.0010	0.20%
Ba _f	69078.4	1.02 mg/L	0.000	1.02 mg/L	0.000	0.01%
Be _f	151091.9	0.0526 mg/L	0.00018	0.0526 mg/L	0.00018	0.34%
Ca _f	365485.6	52.0 mg/L	0.22	52.0 mg/L	0.22	0.43%
Cd _f	5208.4	0.202 mg/L	0.0003	0.202 mg/L	0.0003	0.15%
Co _f	24667.7	1.04 mg/L	0.000	1.04 mg/L	0.000	0.03%
Cr _f	75209.0	1.01 mg/L	0.003	1.01 mg/L	0.003	0.25%
Cu _f	356758.1	1.03 mg/L	0.002	1.03 mg/L	0.002	0.18%
Fe _f	5544.1	5.16 mg/L	0.030	5.16 mg/L	0.030	0.59%
K _f	23291.4	20.8 mg/L	0.23	20.8 mg/L	0.23	1.10%
Mg _f	74980.6	21.5 mg/L	0.15	21.5 mg/L	0.15	0.71%
Mn _f	282203.8	0.518 mg/L	0.0003	0.518 mg/L	0.0003	0.05%
Mo _f	11407.1	1.01 mg/L	0.001	1.01 mg/L	0.001	0.10%
Na _f	170812.9	51.7 mg/L	0.03	51.7 mg/L	0.03	0.05%
Ni _f	10931.2	0.517 mg/L	0.0002	0.517 mg/L	0.0002	0.04%
Pb _f	4903.5	1.08 mg/L	0.000	1.08 mg/L	0.000	0.04%
Sb _f	898.8	0.476 mg/L	0.0020	0.476 mg/L	0.0020	0.42%
Se _f	1246.6	1.05 mg/L	0.013	1.05 mg/L	0.013	1.24%
Tl _f	2903.1	1.09 mg/L	0.003	1.09 mg/L	0.003	0.29%
V _f	159826.5	1.01 mg/L	0.004	1.01 mg/L	0.004	0.37%
Zn _f	47937.6	1.07 mg/L	0.000	1.07 mg/L	0.000	0.01%
Alx _f	169301.1	1950 ug/L	4.2	1.95 mg/L	0.004	0.22%
Bex _f	151091.9	52.5 ug/L	0.18	0.0525 mg/L	0.00018	0.34%

Sequence No.: 47
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 6/19/2007 14:24:42
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	354480.1	90.3 %		0.46			0.51%
Yr	190043.9	92.3 %		0.47			0.51%
Ag†	255532.2	0.997 mg/L		0.0000	0.997 mg/L	0.0000	0.00%
	QC value within limits for Ag		Recovery = 99.73%				
Al†	18855.5	5.06 mg/L		0.025	5.06 mg/L	0.025	0.50%
	QC value within limits for Al		Recovery = 101.10%				
As†	8713.4	4.78 mg/L		0.019	4.78 mg/L	0.019	0.40%
	QC value within limits for As		Recovery = 95.63%				
B_†	73621.2	2.43 mg/L		0.006	2.43 mg/L	0.006	0.26%
	QC value within limits for B_		Recovery = 97.05%				
Ba†	345417.0	5.12 mg/L		0.015	5.12 mg/L	0.015	0.30%
	QC value within limits for Ba		Recovery = 102.49%				
Be†	5816811.5	2.02 mg/L		0.035	2.02 mg/L	0.035	1.75%
	QC value within limits for Be		Recovery = 101.06%				
Ca†	357793.5	50.9 mg/L		0.09	50.9 mg/L	0.09	0.17%
	QC value within limits for Ca		Recovery = 101.87%				
Cd†	62470.9	2.50 mg/L		0.006	2.50 mg/L	0.006	0.23%
	QC value within limits for Cd		Recovery = 99.91%				
Co†	121658.6	5.12 mg/L		0.012	5.12 mg/L	0.012	0.24%
	QC value within limits for Co		Recovery = 102.33%				
Cr†	376718.0	5.04 mg/L		0.005	5.04 mg/L	0.005	0.09%
	QC value within limits for Cr		Recovery = 100.81%				
Cu†	1739293.8	5.00 mg/L		0.010	5.00 mg/L	0.010	0.20%
	QC value within limits for Cu		Recovery = 99.95%				
Fe†	5543.5	5.16 mg/L		0.016	5.16 mg/L	0.016	0.32%
	QC value within limits for Fe		Recovery = 103.28%				
K†	55444.4	49.5 mg/L		0.21	49.5 mg/L	0.21	0.42%
	QC value within limits for K		Recovery = 99.07%				
Mg†	178832.9	51.2 mg/L		0.04	51.2 mg/L	0.04	0.08%
	QC value within limits for Mg		Recovery = 102.34%				
Mn†	2774732.3	5.09 mg/L		0.016	5.09 mg/L	0.016	0.32%
	QC value within limits for Mn		Recovery = 101.86%				
Mo†	56771.3	5.01 mg/L		0.006	5.01 mg/L	0.006	0.11%
	QC value within limits for Mo		Recovery = 100.19%				
Na†	165253.5	50.0 mg/L		0.11	50.0 mg/L	0.11	0.23%
	QC value within limits for Na		Recovery = 100.09%				
Ni†	108853.4	5.15 mg/L		0.002	5.15 mg/L	0.002	0.05%
	QC value within limits for Ni		Recovery = 103.06%				
Pb†	23292.8	5.11 mg/L		0.026	5.11 mg/L	0.026	0.52%
	QC value within limits for Pb		Recovery = 102.15%				
Sb†	8657.9	4.68 mg/L		0.027	4.68 mg/L	0.027	0.57%
	QC value within limits for Sb		Recovery = 93.54%				
Se†	6072.9	5.08 mg/L		0.035	5.08 mg/L	0.035	0.69%
	QC value within limits for Se		Recovery = 101.65%				
Tl†	13788.0	5.24 mg/L		0.024	5.24 mg/L	0.024	0.46%
	QC value within limits for Tl		Recovery = 104.87%				
V†	797053.7	5.06 mg/L		0.000	5.06 mg/L	0.000	0.00%
	QC value within limits for V		Recovery = 101.16%				
Zn†	231620.1	5.14 mg/L		0.002	5.14 mg/L	0.002	0.04%
	QC value within limits for Zn		Recovery = 102.79%				
Alx†	424704.6	4890 ug/L		18.5	4.89 mg/L	0.018	0.38%
	QC value within limits for Alx		Recovery = 97.88%				
Bex†	5816811.5	2020 ug/L		35.3	2.02 mg/L	0.035	1.75%
	QC value within limits for Bex		Recovery = 101.03%				

All analyte(s) passed QC.

Sequence No.: 48
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/19/2007 14:28:36
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte Back Pressure Flow
 All 219.0 kPa 0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	367987.3	93.8 %		0.01			0.01%
Yr	199158.3	96.7 %		0.21			0.22%
Ag†	13.1	0.00005 mg/L		0.000036	0.00005 mg/L	0.000036	69.72%
QC value within limits for Ag		Recovery = Not calculated					
Al†	-11.9	-0.00334 mg/L		0.000686	-0.00334 mg/L	0.000686	20.52%
QC value within limits for Al		Recovery = Not calculated					
As†	25.6	0.0140 mg/L		0.00087	0.0140 mg/L	0.00087	6.22%
QC value within limits for As		Recovery = Not calculated					
B_†	386.6	0.0128 mg/L		0.00104	0.0128 mg/L	0.00104	8.11%
QC value within limits for B_		Recovery = Not calculated					
Ba†	9.9	0.00015 mg/L		0.000058	0.00015 mg/L	0.000058	39.56%
QC value within limits for Ba		Recovery = Not calculated					
Be†	26.5	0.00001 mg/L		0.000036	0.00001 mg/L	0.000036	389.24%
QC value within limits for Be		Recovery = Not calculated					
Ca†	291.8	0.0415 mg/L		0.05683	0.0415 mg/L	0.05683	136.81%
QC value within limits for Ca		Recovery = Not calculated					
Cd†	11.5	0.00028 mg/L		0.000177	0.00028 mg/L	0.000177	63.72%
QC value within limits for Cd		Recovery = Not calculated					
Co†	0.5	0.00002 mg/L		0.000122	0.00002 mg/L	0.000122	575.96%
QC value within limits for Co		Recovery = Not calculated					
Cr†	18.1	0.00024 mg/L		0.000224	0.00024 mg/L	0.000224	92.51%
QC value within limits for Cr		Recovery = Not calculated					
Cu†	145.6	0.00042 mg/L		0.000002	0.00042 mg/L	0.000002	0.56%
QC value within limits for Cu		Recovery = Not calculated					
Fe†	-1.9	-0.00178 mg/L		0.000482	-0.00178 mg/L	0.000482	27.06%
QC value within limits for Fe		Recovery = Not calculated					
K†	16.8	0.0150 mg/L		0.05109	0.0150 mg/L	0.05109	340.93%
QC value within limits for K		Recovery = Not calculated					
Mg†	-2.9	-0.00082 mg/L		0.000291	-0.00082 mg/L	0.000291	35.34%
QC value within limits for Mg		Recovery = Not calculated					
Mn†	-375.7	-0.00069 mg/L		0.000029	-0.00069 mg/L	0.000029	4.21%
QC value within limits for Mn		Recovery = Not calculated					
Mo†	6.8	0.00060 mg/L		0.000062	0.00060 mg/L	0.000062	10.43%
QC value within limits for Mo		Recovery = Not calculated					
Na†	30.9	0.00936 mg/L		0.012871	0.00936 mg/L	0.012871	137.44%
QC value within limits for Na		Recovery = Not calculated					
Ni†	-1.2	-0.00005 mg/L		0.000152	-0.00005 mg/L	0.000152	276.31%
QC value within limits for Ni		Recovery = Not calculated					
Pb†	5.9	0.00129 mg/L		0.001153	0.00129 mg/L	0.001153	89.56%
QC value within limits for Pb		Recovery = Not calculated					
Sb†	18.5	0.0102 mg/L		0.00057	0.0102 mg/L	0.00057	5.63%
QC value within limits for Sb		Recovery = Not calculated					
Se†	-14.7	-0.0123 mg/L		0.00085	-0.0123 mg/L	0.00085	6.91%
QC value within limits for Se		Recovery = Not calculated					
Tl†	0.2	0.00006 mg/L		0.000335	0.00006 mg/L	0.000335	595.02%
QC value within limits for Tl		Recovery = Not calculated					
V†	20.3	0.00013 mg/L		0.000048	0.00013 mg/L	0.000048	36.78%
QC value within limits for V		Recovery = Not calculated					
Zn†	7.5	0.00017 mg/L		0.000104	0.00017 mg/L	0.000104	61.91%
QC value within limits for Zn		Recovery = Not calculated					
Alx†	4.2	0.0482 ug/L		0.62822	0.00005 mg/L	0.000628	>999.9%
QC value within limits for Alx		Recovery = Not calculated					
Bex†	26.5	0.00920 ug/L		0.035905	0.00001 mg/L	0.000036	390.20%
QC value within limits for Bex		Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 49
 Sample ID: 2706120284
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 64
 Date Collected: 6/19/2007 14:32:04
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: 2706120284

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: 2706120284

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	364267.0	92.8 %		0.67			0.72%
Yr	197364.4	95.8 %		0.80			0.84%
Agf	-10.9	-0.00004 mg/L		0.000062	-0.00004 mg/L	0.000062	145.88%
Alt	278.7	0.0776 mg/L		0.00200	0.0776 mg/L	0.00200	2.57%
Ast	-1.1	-0.00059 mg/L		0.002557	-0.00059 mg/L	0.002557	429.86%
B ₊ t	868.9	0.0288 mg/L		0.00020	0.0288 mg/L	0.00020	0.71%
Ba ₊ t	2916.4	0.0432 mg/L		0.00010	0.0432 mg/L	0.00010	0.24%
Be ₊ t	-182.4	-0.00006 mg/L		0.000007	-0.00006 mg/L	0.000007	11.01%
Ca ₊ t	172020.0	24.5 mg/L		0.13	24.5 mg/L	0.13	0.54%
Cd ₊ t	-4.0	-0.00016 mg/L		0.000204	-0.00016 mg/L	0.000204	129.70%
Co ₊ t	-3.0	-0.00013 mg/L		0.000231	-0.00013 mg/L	0.000231	182.44%
Cr ₊ t	56.0	0.00075 mg/L		0.000115	0.00075 mg/L	0.000115	15.35%
Cu ₊ t	1160.8	0.00333 mg/L		0.000130	0.00333 mg/L	0.000130	3.91%
Fe ₊ t	191.6	0.178 mg/L		0.0016	0.178 mg/L	0.0016	0.88%
K ₊ t	3138.9	2.80 mg/L		0.048	2.80 mg/L	0.048	1.73%
Mg ₊ t	35382.4	10.1 mg/L		0.05	10.1 mg/L	0.05	0.51%
Mn ₊ t	13846.2	0.0254 mg/L		0.00003	0.0254 mg/L	0.00003	0.10%
Mo ₊ t	67.8	0.00599 mg/L		0.000116	0.00599 mg/L	0.000116	1.94%
Na ₊ t	52186.3	15.8 mg/L		0.11	15.8 mg/L	0.11	0.69%
Ni ₊ t	18.0	0.00085 mg/L		0.000625	0.00085 mg/L	0.000625	73.42%
Pb ₊ t	-6.7	-0.00146 mg/L		0.000227	-0.00146 mg/L	0.000227	15.52%
Sb ₊ t	11.7	0.00642 mg/L		0.000499	0.00642 mg/L	0.000499	7.78%
Se ₊ t	-11.6	-0.00927 mg/L		0.004626	-0.00927 mg/L	0.004626	49.93%
Tl ₊ t	9.0	-0.00532 mg/L		0.001699	-0.00532 mg/L	0.001699	31.95%
V ₊ t	237.7	0.00151 mg/L		0.000048	0.00151 mg/L	0.000048	3.15%
Zn ₊ t	416.3	0.00929 mg/L		0.000048	0.00929 mg/L	0.000048	0.52%
Alx ₊ t	6028.9	69.5 ug/L		0.33	0.0695 mg/L	0.00033	0.48%
Bex ₊ t	-182.4	-0.0633 ug/L		0.00695	-0.00006 mg/L	0.000007	10.97%

Sequence No.: 50
 Sample ID: 2706120284MS
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 65
 Date Collected: 6/19/2007 14:35:49
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: 2706120284MS

Analyte Back Pressure Flow
 All 219.0 kPa 0.65 L/min

Mean Data: 2706120284MS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	352728.3	89.9 %	0.69			0.77%
Yr	192873.4	93.6 %	0.67			0.71%
Ag†	130038.8	0.508 mg/L	0.0005	0.508 mg/L	0.0005	0.11%
Al†	7677.8	2.10 mg/L	0.047	2.10 mg/L	0.047	2.22%
As†	1958.7	1.07 mg/L	0.012	1.07 mg/L	0.012	1.08%
B†	15740.9	0.519 mg/L	0.0052	0.519 mg/L	0.0052	1.00%
Ba†	73041.3	1.08 mg/L	0.002	1.08 mg/L	0.002	0.18%
Be†	153676.3	0.0535 mg/L	0.00020	0.0535 mg/L	0.00020	0.38%
Ca†	532331.6	75.8 mg/L	0.10	75.8 mg/L	0.10	0.13%
Cd†	5322.4	0.206 mg/L	0.0020	0.206 mg/L	0.0020	0.97%
Co†	25013.5	1.05 mg/L	0.010	1.05 mg/L	0.010	0.95%
Cr†	76287.7	1.02 mg/L	0.002	1.02 mg/L	0.002	0.16%
Cu†	361332.2	1.04 mg/L	0.003	1.04 mg/L	0.003	0.25%
Fe†	5768.1	5.37 mg/L	0.144	5.37 mg/L	0.144	2.68%
K†	26283.4	23.5 mg/L	0.68	23.5 mg/L	0.68	2.90%
Mg†	108862.1	31.2 mg/L	0.08	31.2 mg/L	0.08	0.25%
Mn†	300863.0	0.552 mg/L	0.0014	0.552 mg/L	0.0014	0.25%
Mo†	11698.0	1.03 mg/L	0.010	1.03 mg/L	0.010	0.93%
Na†	223598.3	67.7 mg/L	0.75	67.7 mg/L	0.75	1.10%
Ni†	11052.9	0.523 mg/L	0.0052	0.523 mg/L	0.0052	0.99%
Pb†	5020.6	1.10 mg/L	0.009	1.10 mg/L	0.009	0.81%
Sb†	928.4	0.492 mg/L	0.0040	0.492 mg/L	0.0040	0.81%
Se†	1288.3	1.09 mg/L	0.004	1.09 mg/L	0.004	0.40%
Tl†	2966.7	1.10 mg/L	0.013	1.10 mg/L	0.013	1.17%
V†	162130.1	1.03 mg/L	0.002	1.03 mg/L	0.002	0.15%
Zn†	49083.1	1.09 mg/L	0.011	1.09 mg/L	0.011	0.97%
Alx†	176733.6	2040 ug/L	5.9	2.04 mg/L	0.006	0.29%
Bext	153676.3	53.4 ug/L	0.20	0.0534 mg/L	0.00020	0.38%

Sequence No.: 51
 Sample ID: 2706120284MSD
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 66
 Date Collected: 6/19/2007 14:39:34
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: 2706120284MSD

Analyte Back Pressure Flow
 All 219.0 kPa 0.65 L/min

Mean Data: 2706120284MSD

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	354664.7	90.4 %	1.42			1.57%
Yr	192945.1	93.7 %	1.16			1.24%
Ag+	129434.6	0.505 mg/L	0.0014	0.505 mg/L	0.0014	0.28%
Al+	7662.2	2.10 mg/L	0.018	2.10 mg/L	0.018	0.86%
As+	1928.0	1.06 mg/L	0.023	1.06 mg/L	0.023	2.15%
B+	15694.4	0.517 mg/L	0.0111	0.517 mg/L	0.0111	2.15%
Ba+	72676.1	1.08 mg/L	0.006	1.08 mg/L	0.006	0.54%
Be+	153146.1	0.0533 mg/L	0.00029	0.0533 mg/L	0.00029	0.54%
Ca+	535446.3	76.2 mg/L	0.09	76.2 mg/L	0.09	0.12%
Cd+	5296.9	0.205 mg/L	0.0038	0.205 mg/L	0.0038	1.85%
Co+	24824.3	1.04 mg/L	0.022	1.04 mg/L	0.022	2.09%
Cr+	75888.9	1.02 mg/L	0.001	1.02 mg/L	0.001	0.09%
Cu+	358492.8	1.03 mg/L	0.006	1.03 mg/L	0.006	0.56%
Fe+	5763.0	5.37 mg/L	0.105	5.37 mg/L	0.105	1.95%
K+	26218.2	23.4 mg/L	0.35	23.4 mg/L	0.35	1.49%
Mg+	109352.8	31.3 mg/L	0.04	31.3 mg/L	0.04	0.12%
Mn+	299580.4	0.550 mg/L	0.0024	0.550 mg/L	0.0024	0.44%
Mo+	11626.5	1.03 mg/L	0.022	1.03 mg/L	0.022	2.10%
Na+	223642.5	67.7 mg/L	0.31	67.7 mg/L	0.31	0.45%
Ni+	10960.2	0.519 mg/L	0.0106	0.519 mg/L	0.0106	2.04%
Pb+	4962.2	1.09 mg/L	0.026	1.09 mg/L	0.026	2.41%
Sb+	925.8	0.491 mg/L	0.0078	0.491 mg/L	0.0078	1.59%
Se+	1263.7	1.07 mg/L	0.024	1.07 mg/L	0.024	2.25%
Tl+	2937.8	1.09 mg/L	0.023	1.09 mg/L	0.023	2.07%
V+	161422.3	1.02 mg/L	0.003	1.02 mg/L	0.003	0.31%
Zn+	48719.2	1.08 mg/L	0.024	1.08 mg/L	0.024	2.17%
Alx+	175633.6	2020 ug/L	3.2	2.02 mg/L	0.003	0.16%
Bex+	153146.1	53.2 ug/L	0.29	0.0532 mg/L	0.00029	0.54%

Sequence No.: 52
 Sample ID: 2706130119
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 67
 Date Collected: 6/19/2007 14:43:19
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: 2706130119

Analyte Back Pressure Flow
 All 219.0 kPa 0.65 L/min

Mean Data: 2706130119

Analyte	Mean Corrected Intensity	Conc. Units	Calib Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	352008.8	89.7 %	0.15			0.17%
Yr	191928.0	93.2 %	0.06			0.06%
Ag+	77.0	0.00030 mg/L	0.000006	0.00030 mg/L	0.000006	2.13%
Al+	176.1	0.0491 mg/L	0.00731	0.0491 mg/L	0.00731	14.90%
As+	-37.7	-0.0206 mg/L	0.00218	-0.0206 mg/L	0.00218	10.57%
B+	4976.1	0.165 mg/L	0.0010	0.165 mg/L	0.0010	0.63%
Ba+	4146.8	0.0615 mg/L	0.00012	0.0615 mg/L	0.00012	0.19%
Be+	-460.6	-0.00016 mg/L	0.000028	-0.00016 mg/L	0.000028	17.76%
Cd+	495991.6	70.6 mg/L	0.19	70.6 mg/L	0.19	0.27%
Cd+	-6.0	0.00004 mg/L	0.000212	0.00004 mg/L	0.000212	581.93%
Co+	-5.6	-0.00023 mg/L	0.000143	-0.00023 mg/L	0.000143	61.32%
Cr+	-2.5	-0.00003 mg/L	0.000018	-0.00003 mg/L	0.000018	51.90%
Cu+	571.3	0.00164 mg/L	0.000029	0.00164 mg/L	0.000029	1.75%
Fe+	2.9	0.00275 mg/L	0.001816	0.00275 mg/L	0.001816	66.14%
K+	8857.0	7.91 mg/L	0.012	7.91 mg/L	0.012	0.15%
Mg+	214146.3	61.3 mg/L	0.25	61.3 mg/L	0.25	0.40%
Mn+	226793.2	0.416 mg/L	0.0008	0.416 mg/L	0.0008	0.20%
Mo+	37.8	0.00334 mg/L	0.000171	0.00334 mg/L	0.000171	5.11%
Na+	533673.4	162 mg/L	2.0	162 mg/L	2.0	1.23%
Ni+	2.4	0.00011 mg/L	0.000138	0.00011 mg/L	0.000138	126.84%
Pb+	-17.4	-0.00381 mg/L	0.000884	-0.00381 mg/L	0.000884	23.19%
Sb+	8.7	0.00480 mg/L	0.000281	0.00480 mg/L	0.000281	5.86%
Se+	-47.1	-0.0394 mg/L	0.00031	-0.0394 mg/L	0.00031	0.78%
Tl+	23.2	-0.0149 mg/L	0.00086	-0.0149 mg/L	0.00086	5.82%
V+	554.6	0.00350 mg/L	0.000022	0.00350 mg/L	0.000022	0.62%
Zn+	141.2	0.00315 mg/L	0.000025	0.00315 mg/L	0.000025	0.80%
Alx+	2836.9	32.7 ug/L	1.11	0.0327 mg/L	0.00111	3.41%
Bex+	-460.6	-0.160 ug/L	0.0284	-0.00016 mg/L	0.000028	17.77%

Sequence No.: 53
 Sample ID: 2706130119MS
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 68
 Date Collected: 6/19/2007 14:47:44
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: 2706130119MS

Analyte Back Pressure Flow
 All 219.0 kPa 0.65 L/min

Mean Data: 2706130119MS

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	340145.2	86.7 %	0.92			1.06%
Yr	190244.5	92.4 %	0.15			0.17%
Ag†	131524.9	0.513 mg/L	0.0001	0.513 mg/L	0.0001	0.01%
Al†	7529.9	2.06 mg/L	0.023	2.06 mg/L	0.023	1.13%
As†	1960.5	1.08 mg/L	0.014	1.08 mg/L	0.014	1.28%
B_†	20216.6	0.667 mg/L	0.0013	0.667 mg/L	0.0013	0.20%
Ba†	74481.6	1.10 mg/L	0.002	1.10 mg/L	0.002	0.15%
Be†	153207.0	0.0533 mg/L	0.00008	0.0533 mg/L	0.00008	0.16%
Ca†	839835.4	120 mg/L	0.3	120 mg/L	0.3	0.21%
Cd†	5334.6	0.207 mg/L	0.0025	0.207 mg/L	0.0025	1.23%
Co†	25037.2	1.05 mg/L	0.015	1.05 mg/L	0.015	1.39%
Cr†	76274.9	1.02 mg/L	0.002	1.02 mg/L	0.002	0.19%
Cu†	369019.9	1.06 mg/L	0.002	1.06 mg/L	0.002	0.23%
Fe†	5570.5	5.19 mg/L	0.044	5.19 mg/L	0.044	0.85%
K†	31950.7	28.5 mg/L	0.26	28.5 mg/L	0.26	0.92%
Mg†	279622.7	80.0 mg/L	0.23	80.0 mg/L	0.23	0.29%
Mn†	509521.8	0.935 mg/L	0.0008	0.935 mg/L	0.0008	0.08%
Mo†	11691.6	1.03 mg/L	0.014	1.03 mg/L	0.014	1.31%
Na†	685516.7	208 mg/L	2.4	208 mg/L	2.4	1.15%
Ni†	11050.9	0.523 mg/L	0.0071	0.523 mg/L	0.0071	1.36%
Pb†	4877.9	1.07 mg/L	0.013	1.07 mg/L	0.013	1.25%
Sb†	947.6	0.502 mg/L	0.0085	0.502 mg/L	0.0085	1.69%
Se†	1262.4	1.07 mg/L	0.026	1.07 mg/L	0.026	2.48%
Tl†	2843.0	1.04 mg/L	0.013	1.04 mg/L	0.013	1.29%
V†	163371.2	1.04 mg/L	0.002	1.04 mg/L	0.002	0.24%
Zn†	49041.2	1.09 mg/L	0.015	1.09 mg/L	0.015	1.34%
Alx†	173210.6	2000 ug/L	6.6	2.00 mg/L	0.007	0.33%
Bex†	153207.0	53.2 ug/L	0.08	0.0532 mg/L	0.00008	0.16%

Sequence No.: 54
 Sample ID: 2706130119MSD
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 1X

Autosampler Location: 69
 Date Collected: 6/19/2007 14:51:30
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: 2706130119MSD

Analyte Back Pressure Flow
 All 219.0 kPa 0.65 L/min

Mean Data: 2706130119MSD

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	340846.1	86.8 %	0.04			0.05%
Yr	191327.8	92.9 %	1.14			1.23%
Agf	130167.9	0.508 mg/L	0.0004	0.508 mg/L	0.0004	0.08%
Alt	7483.3	2.05 mg/L	0.020	2.05 mg/L	0.020	0.95%
Ast	1957.8	1.07 mg/L	0.002	1.07 mg/L	0.002	0.16%
B_tf	20217.7	0.667 mg/L	0.0009	0.667 mg/L	0.0009	0.13%
Baf	73898.0	1.10 mg/L	0.004	1.10 mg/L	0.004	0.37%
Bet	151941.9	0.0529 mg/L	0.00036	0.0529 mg/L	0.00036	0.67%
Caf	841674.3	120 mg/L	0.2	120 mg/L	0.2	0.15%
Cdf	5335.4	0.207 mg/L	0.0010	0.207 mg/L	0.0010	0.48%
Cot	24974.7	1.05 mg/L	0.002	1.05 mg/L	0.002	0.15%
Crt	75594.8	1.01 mg/L	0.005	1.01 mg/L	0.005	0.48%
Cut	365444.5	1.05 mg/L	0.002	1.05 mg/L	0.002	0.20%
Fef	5498.4	5.12 mg/L	0.070	5.12 mg/L	0.070	1.37%
Kf	31779.2	28.4 mg/L	0.79	28.4 mg/L	0.79	2.79%
Mgf	281636.3	80.6 mg/L	0.08	80.6 mg/L	0.08	0.09%
Mnf	508930.6	0.934 mg/L	0.0028	0.934 mg/L	0.0028	0.30%
Mof	11662.1	1.03 mg/L	0.001	1.03 mg/L	0.001	0.08%
Naf	693218.8	210 mg/L	0.9	210 mg/L	0.9	0.44%
Nif	11006.4	0.521 mg/L	0.0002	0.521 mg/L	0.0002	0.04%
Pbf	4879.7	1.07 mg/L	0.001	1.07 mg/L	0.001	0.08%
Sbf	951.6	0.505 mg/L	0.0023	0.505 mg/L	0.0023	0.46%
Sef	1265.7	1.07 mg/L	0.003	1.07 mg/L	0.003	0.32%
Tlf	2849.1	1.04 mg/L	0.001	1.04 mg/L	0.001	0.08%
Vf	161636.6	1.03 mg/L	0.005	1.03 mg/L	0.005	0.48%
Znf	49159.4	1.09 mg/L	0.001	1.09 mg/L	0.001	0.05%
Alxf	170669.8	1970 ug/L	11.7	1.97 mg/L	0.012	0.60%
Bexf	151941.9	52.8 ug/L	0.35	0.0528 mg/L	0.00035	0.67%

Sequence No.: 59
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 6/19/2007 15:12:53
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte Back Pressure Flow
 All 219.0 kPa 0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	348019.3	88.7 %		0.88			1.00%
Yr	191575.9	93.0 %		1.35			1.46%
Ag†	257391.4	1.00 mg/L		0.001	1.00 mg/L	0.001	0.12%
	QC value within limits for Ag	Recovery = 100.45%					
Al†	18917.9	5.07 mg/L		0.014	5.07 mg/L	0.014	0.27%
	QC value within limits for Al	Recovery = 101.41%					
As†	8933.4	4.90 mg/L		0.062	4.90 mg/L	0.062	1.26%
	QC value within limits for As	Recovery = 98.04%					
B_†	74047.0	2.44 mg/L		0.011	2.44 mg/L	0.011	0.44%
	QC value within limits for B_	Recovery = 97.61%					
Ba†	349946.5	5.19 mg/L		0.012	5.19 mg/L	0.012	0.23%
	QC value within limits for Ba	Recovery = 103.84%					
Be†	6000713.3	2.09 mg/L		0.017	2.09 mg/L	0.017	0.82%
	QC value within limits for Be	Recovery = 104.25%					
Ca†	357973.8	51.0 mg/L		0.15	51.0 mg/L	0.15	0.30%
	QC value within limits for Ca	Recovery = 101.92%					
Cd†	62999.5	2.52 mg/L		0.009	2.52 mg/L	0.009	0.35%
	QC value within limits for Cd	Recovery = 100.72%					
Co†	122901.1	5.17 mg/L		0.008	5.17 mg/L	0.008	0.16%
	QC value within limits for Co	Recovery = 103.37%					
Cr†	380248.9	5.09 mg/L		0.008	5.09 mg/L	0.008	0.15%
	QC value within limits for Cr	Recovery = 101.76%					
Cu†	1756335.4	5.05 mg/L		0.001	5.05 mg/L	0.001	0.02%
	QC value within limits for Cu	Recovery = 100.93%					
Fe†	5446.4	5.07 mg/L		0.050	5.07 mg/L	0.050	0.99%
	QC value within limits for Fe	Recovery = 101.47%					
K†	55809.4	49.9 mg/L		0.04	49.9 mg/L	0.04	0.08%
	QC value within limits for K	Recovery = 99.72%					
Mg†	178816.3	51.2 mg/L		0.15	51.2 mg/L	0.15	0.29%
	QC value within limits for Mg	Recovery = 102.33%					
Mn†	2805777.4	5.15 mg/L		0.011	5.15 mg/L	0.011	0.21%
	QC value within limits for Mn	Recovery = 102.99%					
Mo†	57322.2	5.06 mg/L		0.019	5.06 mg/L	0.019	0.38%
	QC value within limits for Mo	Recovery = 101.16%					
Na†	165401.5	50.1 mg/L		0.18	50.1 mg/L	0.18	0.35%
	QC value within limits for Na	Recovery = 100.18%					
Ni†	110111.7	5.21 mg/L		0.011	5.21 mg/L	0.011	0.20%
	QC value within limits for Ni	Recovery = 104.25%					
Pb†	23917.0	5.24 mg/L		0.058	5.24 mg/L	0.058	1.10%
	QC value within limits for Pb	Recovery = 104.89%					
Sb†	8815.4	4.76 mg/L		0.051	4.76 mg/L	0.051	1.07%
	QC value within limits for Sb	Recovery = 95.26%					
Se†	6230.9	5.21 mg/L		0.024	5.21 mg/L	0.024	0.47%
	QC value within limits for Se	Recovery = 104.28%					
Tl†	14103.0	5.36 mg/L		0.061	5.36 mg/L	0.061	1.14%
	QC value within limits for Tl	Recovery = 107.27%					
V†	804723.5	5.11 mg/L		0.008	5.11 mg/L	0.008	0.15%
	QC value within limits for V	Recovery = 102.13%					
Zn†	234231.5	5.20 mg/L		0.014	5.20 mg/L	0.014	0.27%
	QC value within limits for Zn	Recovery = 103.95%					
Alx†	417538.2	4810 ug/L		30.8	4.81 mg/L	0.031	0.64%
	QC value within limits for Alx	Recovery = 96.22%					
Bex†	6000713.3	2080 ug/L		17.1	2.08 mg/L	0.017	0.82%
	QC value within limits for Bex	Recovery = 104.22%					

All analyte(s) passed QC.

Sequence No.: 60
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/19/2007 15:16:47
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte Back Pressure Flow
 All 219.0 kPa 0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	363079.4	92.5 %		1.14			1.24%
Yr	197701.3	96.0 %		0.01			0.01%
Ag†	98.2	0.00038 mg/L		0.000065	0.00038 mg/L	0.000065	17.02%
	QC value within limits for Ag	Recovery = Not calculated					
Al†	32.9	0.00915 mg/L		0.020654	0.00915 mg/L	0.020654	225.69%
	QC value within limits for Al	Recovery = Not calculated					
As†	29.5	0.0162 mg/L		0.00251	0.0162 mg/L	0.00251	15.53%
	QC value within limits for As	Recovery = Not calculated					
B_†	429.4	0.0142 mg/L		0.00126	0.0142 mg/L	0.00126	8.84%
	QC value within limits for B_	Recovery = Not calculated					
Ba†	-2.9	-0.00004 mg/L		0.000116	-0.00004 mg/L	0.000116	275.87%
	QC value within limits for Ba	Recovery = Not calculated					
Be†	13.2	0.00000 mg/L		0.000026	0.00000 mg/L	0.000026	567.88%
	QC value within limits for Be	Recovery = Not calculated					
Ca†	22.3	0.00317 mg/L		0.006451	0.00317 mg/L	0.006451	203.40%
	QC value within limits for Ca	Recovery = Not calculated					
Cd†	9.2	0.00015 mg/L		0.000185	0.00015 mg/L	0.000185	120.62%
	QC value within limits for Cd	Recovery = Not calculated					
Co†	-1.6	-0.00007 mg/L		0.000016	-0.00007 mg/L	0.000016	25.10%
	QC value within limits for Co	Recovery = Not calculated					
Cr†	31.9	0.00043 mg/L		0.000084	0.00043 mg/L	0.000084	19.73%
	QC value within limits for Cr	Recovery = Not calculated					
Cu†	78.9	0.00023 mg/L		0.000035	0.00023 mg/L	0.000035	15.46%
	QC value within limits for Cu	Recovery = Not calculated					
Fe†	-3.1	-0.00293 mg/L		0.000850	-0.00293 mg/L	0.000850	29.05%
	QC value within limits for Fe	Recovery = Not calculated					
K†	76.2	0.0681 mg/L		0.05644	0.0681 mg/L	0.05644	82.89%
	QC value within limits for K	Recovery = Not calculated					
Mg†	0.2	0.00004 mg/L		0.000168	0.00004 mg/L	0.000168	422.16%
	QC value within limits for Mg	Recovery = Not calculated					
Mn†	-439.9	-0.00081 mg/L		0.000003	-0.00081 mg/L	0.000003	0.40%
	QC value within limits for Mn	Recovery = Not calculated					
Mo†	9.9	0.00087 mg/L		0.000145	0.00087 mg/L	0.000145	16.61%
	QC value within limits for Mo	Recovery = Not calculated					
Na†	345.5	0.105 mg/L		0.0120	0.105 mg/L	0.0120	11.44%
	QC value within limits for Na	Recovery = Not calculated					
Ni†	-3.9	-0.00019 mg/L		0.000323	-0.00019 mg/L	0.000323	173.29%
	QC value within limits for Ni	Recovery = Not calculated					
Pb†	-2.7	-0.00060 mg/L		0.001699	-0.00060 mg/L	0.001699	282.01%
	QC value within limits for Pb	Recovery = Not calculated					
Sb†	19.7	0.0108 mg/L		0.00143	0.0108 mg/L	0.00143	13.22%
	QC value within limits for Sb	Recovery = Not calculated					
Se†	-8.5	-0.00713 mg/L		0.001274	-0.00713 mg/L	0.001274	17.88%
	QC value within limits for Se	Recovery = Not calculated					
Tl†	1.7	0.00064 mg/L		0.000085	0.00064 mg/L	0.000085	13.23%
	QC value within limits for Tl	Recovery = Not calculated					
V†	56.2	0.00036 mg/L		0.000213	0.00036 mg/L	0.000213	59.53%
	QC value within limits for V	Recovery = Not calculated					
Zn†	8.4	0.00019 mg/L		0.000189	0.00019 mg/L	0.000189	100.43%
	QC value within limits for Zn	Recovery = Not calculated					
Alx†	53.2	0.613 ug/L		0.0883	0.00061 mg/L	0.000088	14.41%
	QC value within limits for Alx	Recovery = Not calculated					
Bex†	13.2	0.00458 ug/L		0.026315	0.00000 mg/L	0.000026	574.52%
	QC value within limits for Bex	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 61
 Sample ID: MCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 5
 Date Collected: 6/19/2007 15:20:13
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MCV

Analyte Back Pressure Flow
 All 219.0 kPa 0.65 L/min

Mean Data: MCV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	356890.0	90.9 %		0.49			0.53%
Yr	191956.3	93.2 %		0.23			0.24%
Ag†	127749.1	0.499 mg/L		0.0012	0.499 mg/L	0.0012	0.24%
	QC value within limits for Ag		Recovery = 99.71%				
Al†	9515.3	2.55 mg/L		0.008	2.55 mg/L	0.008	0.33%
	QC value within limits for Al		Recovery = 102.05%				
As†	4403.1	2.42 mg/L		0.010	2.42 mg/L	0.010	0.41%
	QC value within limits for As		Recovery = 96.65%				
B_†	36854.5	1.21 mg/L		0.005	1.21 mg/L	0.005	0.39%
	QC value within limits for B_		Recovery = 97.16%				
Ba†	176391.6	2.62 mg/L		0.000	2.62 mg/L	0.000	0.01%
	QC value within limits for Ba		Recovery = 104.68%				
Be†	2964040.6	1.03 mg/L		0.006	1.03 mg/L	0.006	0.60%
	QC value within limits for Be		Recovery = 102.99%				
Ca†	179420.0	25.5 mg/L		0.11	25.5 mg/L	0.11	0.44%
	QC value within limits for Ca		Recovery = 102.16%				
Cd†	31333.6	1.25 mg/L		0.005	1.25 mg/L	0.005	0.41%
	QC value within limits for Cd		Recovery = 100.22%				
Co†	62013.7	2.61 mg/L		0.002	2.61 mg/L	0.002	0.09%
	QC value within limits for Co		Recovery = 104.32%				
Cr†	189585.4	2.54 mg/L		0.001	2.54 mg/L	0.001	0.05%
	QC value within limits for Cr		Recovery = 101.47%				
Cu†	875958.2	2.52 mg/L		0.015	2.52 mg/L	0.015	0.58%
	QC value within limits for Cu		Recovery = 100.68%				
Fe†	2749.0	2.56 mg/L		0.008	2.56 mg/L	0.008	0.33%
	QC value within limits for Fe		Recovery = 102.43%				
K†	27561.2	24.6 mg/L		0.05	24.6 mg/L	0.05	0.19%
	QC value within limits for K		Recovery = 98.49%				
Mg†	90116.6	25.8 mg/L		0.04	25.8 mg/L	0.04	0.16%
	QC value within limits for Mg		Recovery = 103.14%				
Mn†	1417371.9	2.60 mg/L		0.015	2.60 mg/L	0.015	0.58%
	QC value within limits for Mn		Recovery = 104.06%				
Mo†	28595.9	2.52 mg/L		0.013	2.52 mg/L	0.013	0.52%
	QC value within limits for Mo		Recovery = 100.93%				
Na†	82416.1	25.0 mg/L		0.02	25.0 mg/L	0.02	0.10%
	QC value within limits for Na		Recovery = 99.83%				
Ni†	55605.6	2.63 mg/L		0.002	2.63 mg/L	0.002	0.09%
	QC value within limits for Ni		Recovery = 105.29%				
Pb†	11996.1	2.63 mg/L		0.013	2.63 mg/L	0.013	0.48%
	QC value within limits for Pb		Recovery = 105.22%				
Sb†	4426.2	2.39 mg/L		0.019	2.39 mg/L	0.019	0.78%
	QC value within limits for Sb		Recovery = 95.68%				
Se†	3052.4	2.55 mg/L		0.011	2.55 mg/L	0.011	0.45%
	QC value within limits for Se		Recovery = 102.18%				
Tl†	7115.7	2.71 mg/L		0.010	2.71 mg/L	0.010	0.38%
	QC value within limits for Tl		Recovery = 108.25%				
V†	399948.3	2.54 mg/L		0.003	2.54 mg/L	0.003	0.11%
	QC value within limits for V		Recovery = 101.52%				
Zn†	117822.1	2.61 mg/L		0.003	2.61 mg/L	0.003	0.12%
	QC value within limits for Zn		Recovery = 104.58%				
Alx†	207615.4	2390 ug/L		13.5	2.39 mg/L	0.013	0.56%
	QC value within limits for Alx		Recovery = 95.69%				
Bex†	2964040.6	1030 ug/L		6.2	1.03 mg/L	0.006	0.60%
	QC value within limits for Bex		Recovery = 102.96%				

All analyte(s) passed QC.

Sequence No.: 72
 Sample ID: CCV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 6/19/2007 16:07:57
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	355355.9	90.5 %	0.69			0.76%
Yr	191036.4	92.7 %	0.56			0.60%
Ag†	256782.3	1.00 mg/L	0.000	1.00 mg/L	0.000	0.03%
	QC value within limits for Ag		Recovery = 100.22%			
Al†	19134.4	5.13 mg/L	0.062	5.13 mg/L	0.062	1.21%
	QC value within limits for Al		Recovery = 102.62%			
As†	8784.7	4.82 mg/L	0.019	4.82 mg/L	0.019	0.39%
	QC value within limits for As		Recovery = 96.42%			
B_†	74194.4	2.45 mg/L	0.003	2.45 mg/L	0.003	0.13%
	QC value within limits for B_		Recovery = 97.81%			
Ba†	349456.9	5.18 mg/L	0.015	5.18 mg/L	0.015	0.28%
	QC value within limits for Ba		Recovery = 103.69%			
Be†	5961958.8	2.07 mg/L	0.017	2.07 mg/L	0.017	0.81%
	QC value within limits for Be		Recovery = 103.58%			
Ca†	356289.5	50.7 mg/L	0.07	50.7 mg/L	0.07	0.13%
	QC value within limits for Ca		Recovery = 101.44%			
Cd†	62769.3	2.51 mg/L	0.006	2.51 mg/L	0.006	0.23%
	QC value within limits for Cd		Recovery = 100.38%			
Co†	122623.6	5.16 mg/L	0.005	5.16 mg/L	0.005	0.10%
	QC value within limits for Co		Recovery = 103.14%			
Cr†	379564.1	5.08 mg/L	0.008	5.08 mg/L	0.008	0.15%
	QC value within limits for Cr		Recovery = 101.57%			
Cu†	1753751.2	5.04 mg/L	0.019	5.04 mg/L	0.019	0.38%
	QC value within limits for Cu		Recovery = 100.78%			
Fe†	5465.4	5.09 mg/L	0.084	5.09 mg/L	0.084	1.65%
	QC value within limits for Fe		Recovery = 101.83%			
K†	55593.2	49.7 mg/L	0.02	49.7 mg/L	0.02	0.04%
	QC value within limits for K		Recovery = 99.33%			
Mg†	177840.9	50.9 mg/L	0.02	50.9 mg/L	0.02	0.05%
	QC value within limits for Mg		Recovery = 101.77%			
Mn†	2801649.7	5.14 mg/L	0.009	5.14 mg/L	0.009	0.18%
	QC value within limits for Mn		Recovery = 102.84%			
Mo†	57305.4	5.06 mg/L	0.009	5.06 mg/L	0.009	0.18%
	QC value within limits for Mo		Recovery = 101.13%			
Na†	164230.3	49.7 mg/L	0.05	49.7 mg/L	0.05	0.10%
	QC value within limits for Na		Recovery = 99.47%			
Ni†	110103.1	5.21 mg/L	0.012	5.21 mg/L	0.012	0.23%
	QC value within limits for Ni		Recovery = 104.25%			
Pb†	23548.7	5.16 mg/L	0.018	5.16 mg/L	0.018	0.35%
	QC value within limits for Pb		Recovery = 103.27%			
Sb†	8675.4	4.69 mg/L	0.024	4.69 mg/L	0.024	0.52%
	QC value within limits for Sb		Recovery = 93.72%			
Se†	6107.2	5.11 mg/L	0.034	5.11 mg/L	0.034	0.66%
	QC value within limits for Se		Recovery = 102.22%			
Tl†	13858.6	5.27 mg/L	0.024	5.27 mg/L	0.024	0.45%
	QC value within limits for Tl		Recovery = 105.41%			
V†	803442.2	5.10 mg/L	0.001	5.10 mg/L	0.001	0.01%
	QC value within limits for V		Recovery = 101.97%			
Zn†	234099.5	5.19 mg/L	0.006	5.19 mg/L	0.006	0.12%
	QC value within limits for Zn		Recovery = 103.89%			
Alx†	411907.5	4750 ug/L	2.4	4.75 mg/L	0.002	0.05%
	QC value within limits for Alx		Recovery = 94.93%			
Bex†	5961958.8	2070 ug/L	16.7	2.07 mg/L	0.017	0.81%
	QC value within limits for Bex		Recovery = 103.55%			

All analyte(s) passed QC.

Sequence No.: 73
 Sample ID: CCB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/19/2007 16:11:52
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte Back Pressure Flow
 All 219.0 kPa 0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	368360.2	93.9 %		0.85			0.91%
Yr	196956.0	95.6 %		1.17			1.22%
Ag†	36.3	0.00014 mg/L		0.000010	0.00014 mg/L	0.000010	7.27%
	QC value within limits for Ag	Recovery = Not calculated					
Al†	-23.8	-0.00667 mg/L		0.014255	-0.00667 mg/L	0.014255	213.71%
	QC value within limits for Al	Recovery = Not calculated					
As†	26.3	0.0144 mg/L		0.00396	0.0144 mg/L	0.00396	27.60%
	QC value within limits for As	Recovery = Not calculated					
B_†	420.1	0.0139 mg/L		0.00089	0.0139 mg/L	0.00089	6.37%
	QC value within limits for B_	Recovery = Not calculated					
Ba†	-2.1	-0.00003 mg/L		0.000022	-0.00003 mg/L	0.000022	69.70%
	QC value within limits for Ba	Recovery = Not calculated					
Be†	137.4	0.00005 mg/L		0.000020	0.00005 mg/L	0.000020	41.37%
	QC value within limits for Be	Recovery = Not calculated					
Ca†	4.6	0.00065 mg/L		0.000511	0.00065 mg/L	0.000511	78.21%
	QC value within limits for Ca	Recovery = Not calculated					
Cd†	15.1	0.00042 mg/L		0.000006	0.00042 mg/L	0.000006	1.33%
	QC value within limits for Cd	Recovery = Not calculated					
Co†	-4.2	-0.00018 mg/L		0.000071	-0.00018 mg/L	0.000071	39.73%
	QC value within limits for Co	Recovery = Not calculated					
Cr†	28.4	0.00038 mg/L		0.000018	0.00038 mg/L	0.000018	4.84%
	QC value within limits for Cr	Recovery = Not calculated					
Cu†	140.4	0.00040 mg/L		0.000252	0.00040 mg/L	0.000252	62.50%
	QC value within limits for Cu	Recovery = Not calculated					
Fe†	-2.4	-0.00219 mg/L		0.004003	-0.00219 mg/L	0.004003	182.40%
	QC value within limits for Fe	Recovery = Not calculated					
K†	66.9	0.0598 mg/L		0.04303	0.0598 mg/L	0.04303	71.99%
	QC value within limits for K	Recovery = Not calculated					
Mg†	2.3	0.00065 mg/L		0.000166	0.00065 mg/L	0.000166	25.70%
	QC value within limits for Mg	Recovery = Not calculated					
Mn†	-434.0	-0.00080 mg/L		0.000005	-0.00080 mg/L	0.000005	0.63%
	QC value within limits for Mn	Recovery = Not calculated					
Mo†	5.2	0.00046 mg/L		0.000271	0.00046 mg/L	0.000271	58.62%
	QC value within limits for Mo	Recovery = Not calculated					
Na†	131.0	0.0397 mg/L		0.01005	0.0397 mg/L	0.01005	25.35%
	QC value within limits for Na	Recovery = Not calculated					
Ni†	3.1	0.00014 mg/L		0.000165	0.00014 mg/L	0.000165	115.28%
	QC value within limits for Ni	Recovery = Not calculated					
Pb†	1.3	0.00029 mg/L		0.000392	0.00029 mg/L	0.000392	134.46%
	QC value within limits for Pb	Recovery = Not calculated					
Sb†	21.5	0.0119 mg/L		0.00348	0.0119 mg/L	0.00348	29.38%
	QC value within limits for Sb	Recovery = Not calculated					
Se†	-8.2	-0.00685 mg/L		0.003400	-0.00685 mg/L	0.003400	49.61%
	QC value within limits for Se	Recovery = Not calculated					
Tl†	9.7	0.00369 mg/L		0.001057	0.00369 mg/L	0.001057	28.66%
	QC value within limits for Tl	Recovery = Not calculated					
V†	51.8	0.00033 mg/L		0.000538	0.00033 mg/L	0.000538	163.66%
	QC value within limits for V	Recovery = Not calculated					
Zn†	8.2	0.00018 mg/L		0.000151	0.00018 mg/L	0.000151	82.61%
	QC value within limits for Zn	Recovery = Not calculated					
Alx†	23.3	0.268 ug/L		0.5584	0.00027 mg/L	0.000558	208.31%
	QC value within limits for Alx	Recovery = Not calculated					
Bex†	137.4	0.0477 ug/L		0.01975	0.00005 mg/L	0.000020	41.39%
	QC value within limits for Bex	Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 77
 Sample ID: 2706120332_2X
 Analyst: Walter Hsieh
 Initial Sample Wt:
 Dilution: 2X

Autosampler Location: 87
 Date Collected: 6/19/2007 16:28:43
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: 2706120332_2X

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: 2706120332_2X

Analyte	Mean Corrected Intensity	Conc. Units	Calib Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	320171.9	81.6 %	0.35			0.43%
Yr	177833.6	86.3 %	0.01			0.01%
Ag†	-51.6	-0.00020 mg/L	0.000087	-0.00040 mg/L	0.000174	43.31%
Al†	10.6	-0.00151 mg/L	0.002801	-0.00301 mg/L	0.005601	185.88%
As†	-50.1	-0.0274 mg/L	0.00579	-0.0547 mg/L	0.01157	21.14%
B_†	57704.5	1.91 mg/L	0.004	3.82 mg/L	0.007	0.19%
Ba†	1058.0	0.0157 mg/L	0.00009	0.0314 mg/L	0.00017	0.55%
Be†	-1260.2	-0.00044 mg/L	0.000034	-0.00088 mg/L	0.000067	7.66%
Ca†	1688769.1	240 mg/L	3.3	481 mg/L	6.6	1.38%
Cd†	-17.2	-0.00030 mg/L	0.000041	-0.00060 mg/L	0.000082	13.73%
Co†	170.3	0.00716 mg/L	0.000718	0.0143 mg/L	0.00144	10.02%
Cr†	240.5	0.00322 mg/L	0.000173	0.00643 mg/L	0.000347	5.39%
Cu†	483.5	0.00135 mg/L	0.000249	0.00271 mg/L	0.000499	18.43%
Fe†	678.0	0.631 mg/L	0.0009	1.26 mg/L	0.002	0.15%
K†	17837.5	15.9 mg/L	0.06	31.9 mg/L	0.12	0.37%
Mg†	395235.1	113 mg/L	0.1	226 mg/L	0.3	0.11%
Mn†	322197.2	0.591 mg/L	0.0003	1.18 mg/L	0.001	0.05%
Mo†	1180.1	0.104 mg/L	0.0005	0.208 mg/L	0.0011	0.52%
Na†	2441562.8	739 mg/L	6.3	1480 mg/L	12.5	0.85%
Ni†	471.5	0.0223 mg/L	0.00007	0.0446 mg/L	0.00014	0.31%
Pb†	-36.9	-0.00809 mg/L	0.000598	-0.0162 mg/L	0.00120	7.40%
Sb†	16.2	0.00888 mg/L	0.002429	0.0178 mg/L	0.00486	27.37%
Se†	-51.3	-0.0414 mg/L	0.00752	-0.0827 mg/L	0.01504	18.17%
Tl†	18.5	-0.0776 mg/L	0.00008	-0.155 mg/L	0.0002	0.10%
V†	1961.7	0.0125 mg/L	0.00029	0.0249 mg/L	0.00057	2.30%
Zn†	258.2	0.00563 mg/L	0.000066	0.0113 mg/L	0.00013	1.18%
Alx†	944.5	10.9 ug/L	2.74	0.0218 mg/L	0.00548	25.19%
Bext†	-1260.2	-0.438 ug/L	0.0335	-0.00088 mg/L	0.000067	7.65%

Sequence No.: 78
 Sample ID: ICSA
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 10
 Date Collected: 6/19/2007 16:33:12
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Conc. Units	Calib Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	333460.1	85.0 %	0.48			0.56%
Yr	179084.7	86.9 %	0.65			0.75%
Ag†	-6932.0	-0.0271 mg/L	0.00034	-0.0271 mg/L	0.00034	1.25%
QC value within limits for Ag		Recovery = Not calculated				
Al†	946678.0	265 mg/L	3.5	265 mg/L	3.5	1.32%
QC value within limits for Al		Recovery = 105.84%				
As†	-408.2	-0.223 mg/L	0.0022	-0.223 mg/L	0.0022	0.99%
QC value within limits for As		Recovery = Not calculated				
B_†	2276.3	0.0754 mg/L	0.00141	0.0754 mg/L	0.00141	1.87%
QC value within limits for B_		Recovery = Not calculated				
Ba†	122.9	0.00182 mg/L	0.000218	0.00182 mg/L	0.000218	11.99%
QC value within limits for Ba		Recovery = Not calculated				
Be†	-1036.5	-0.00036 mg/L	0.000030	-0.00036 mg/L	0.000030	8.47%
QC value within limits for Be		Recovery = Not calculated				
Ca†	1773971.4	253 mg/L	3.2	253 mg/L	3.2	1.27%
QC value within limits for Ca		Recovery = 101.01%				
Cd†	-41.6	0.00135 mg/L	0.000246	0.00135 mg/L	0.000246	18.23%
QC value within limits for Cd		Recovery = Not calculated				
Co†	31.3	0.00132 mg/L	0.000327	0.00132 mg/L	0.000327	24.87%
QC value within limits for Co		Recovery = Not calculated				
Cr†	-31.4	-0.00042 mg/L	0.000038	-0.00042 mg/L	0.000038	9.04%
QC value within limits for Cr		Recovery = Not calculated				
Cu†	-5013.3	-0.0144 mg/L	0.00029	-0.0144 mg/L	0.00029	2.04%
QC value within limits for Cu		Recovery = Not calculated				
Fe†	106779.9	99.4 mg/L	0.01	99.4 mg/L	0.01	0.01%
QC value within limits for Fe		Recovery = 99.43%				
K†	246.5	0.220 mg/L	0.0564	0.220 mg/L	0.0564	25.60%
QC value within limits for K		Recovery = Not calculated				
Mg†	849221.0	243 mg/L	3.0	243 mg/L	3.0	1.25%
QC value within limits for Mg		Recovery = 97.23%				
Mn†	975.4	0.00179 mg/L	0.000047	0.00179 mg/L	0.000047	2.61%
QC value within limits for Mn		Recovery = Not calculated				
Mo†	-23.9	-0.00211 mg/L	0.001030	-0.00211 mg/L	0.001030	48.78%
QC value within limits for Mo		Recovery = Not calculated				
Na†	2020.9	0.612 mg/L	0.0254	0.612 mg/L	0.0254	4.15%
QC value within limits for Na		Recovery = Not calculated				
Ni†	-26.9	-0.00128 mg/L	0.000272	-0.00128 mg/L	0.000272	21.30%
QC value within limits for Ni		Recovery = Not calculated				
Pb†	-195.9	-0.0430 mg/L	0.00215	-0.0430 mg/L	0.00215	5.01%
QC value within limits for Pb		Recovery = Not calculated				
Sb†	7.9	0.00438 mg/L	0.000961	0.00438 mg/L	0.000961	21.96%
QC value within limits for Sb		Recovery = Not calculated				
Se†	-353.9	-0.0612 mg/L	0.00297	-0.0612 mg/L	0.00297	4.85%
QC value within limits for Se		Recovery = Not calculated				
Tl†	31.8	-0.0791 mg/L	0.00267	-0.0791 mg/L	0.00267	3.37%
QC value within limits for Tl		Recovery = Not calculated				
V†	-674.3	-0.00060 mg/L	0.000049	-0.00060 mg/L	0.000049	8.27%
QC value within limits for V		Recovery = Not calculated				
Zn†	798.9	0.0178 mg/L	0.00015	0.0178 mg/L	0.00015	0.83%
QC value within limits for Zn		Recovery = Not calculated				
Alx†	Saturated2					
Unable to evaluate QC.						
Bex†	-1036.5	-0.360 ug/L	0.0305	-0.00036 mg/L	0.000030	8.47%
QC value within limits for Bex		Recovery = Not calculated				

All analyte(s) passed QC. One or more analytes were not evaluated.

Sequence No.: 79
 Sample ID: ICSAB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 11
 Date Collected: 6/19/2007 16:37:02
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte Back Pressure Flow
 All 218.0 kPa 0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	334833.1	85.3 %		1.21			1.42%
Yr	183436.0	89.0 %		0.12			0.14%
Ag†	2205.5	0.00861 mg/L		0.000314	0.00861 mg/L	0.000314	3.65%
	QC value less than the lower limit for Ag Recovery = 1.72%						
Al†	931551.3	260 mg/L		0.5	260 mg/L	0.5	0.17%
	QC value within limits for Al Recovery = 104.14%						
As†	-413.5	-0.225 mg/L		0.0041	-0.225 mg/L	0.0041	1.84%
	QC value less than the lower limit for As Recovery = Not calculated						
B_†	2141.6	0.0704 mg/L		0.00005	0.0704 mg/L	0.00005	0.07%
	QC value greater than the upper limit for B Recovery = Not calculated						
Bar	17844.6	0.265 mg/L		0.0036	0.265 mg/L	0.0036	1.37%
	QC value within limits for Ba Recovery = 105.89%						
Be†	737797.2	0.256 mg/L		0.0031	0.256 mg/L	0.0031	1.20%
	QC value within limits for Be Recovery = 102.53%						
Ca†	1754413.5	250 mg/L		1.5	250 mg/L	1.5	0.62%
	QC value within limits for Ca Recovery = 99.90%						
Cd†	12321.6	0.505 mg/L		0.0071	0.505 mg/L	0.0071	1.40%
	QC value within limits for Cd Recovery = 101.10%						
Co†	5829.4	0.245 mg/L		0.0030	0.245 mg/L	0.0030	1.23%
	QC value within limits for Co Recovery = 98.06%						
Cr†	18841.3	0.252 mg/L		0.0036	0.252 mg/L	0.0036	1.44%
	QC value within limits for Cr Recovery = 100.84%						
Cu†	86058.7	0.247 mg/L		0.0028	0.247 mg/L	0.0028	1.14%
	QC value within limits for Cu Recovery = 98.95%						
Fe†	105246.4	98.0 mg/L		0.16	98.0 mg/L	0.16	0.16%
	QC value within limits for Fe Recovery = 98.00%						
K†	157.4	0.141 mg/L		0.0280	0.141 mg/L	0.0280	19.91%
	QC value within limits for K Recovery = Not calculated						
Mg†	839018.6	240 mg/L		0.9	240 mg/L	0.9	0.35%
	QC value within limits for Mg Recovery = 96.06%						
Mn†	142807.2	0.262 mg/L		0.0035	0.262 mg/L	0.0035	1.32%
	QC value within limits for Mn Recovery = 104.84%						
Mo†	-25.4	-0.00224 mg/L		0.000977	-0.00224 mg/L	0.000977	43.65%
	QC value within limits for Mo Recovery = Not calculated						
Na†	1342.4	0.407 mg/L		0.0086	0.407 mg/L	0.0086	2.12%
	QC value within limits for Na Recovery = Not calculated						
Ni†	10123.0	0.479 mg/L		0.0074	0.479 mg/L	0.0074	1.54%
	QC value within limits for Ni Recovery = 95.87%						
Pb†	2159.6	0.474 mg/L		0.0088	0.474 mg/L	0.0088	1.86%
	QC value within limits for Pb Recovery = 94.71%						
Sb†	23.7	0.00847 mg/L		0.002128	0.00847 mg/L	0.002128	25.13%
	QC value within limits for Sb Recovery = Not calculated						
Se†	-342.4	-0.0550 mg/L		0.02232	-0.0550 mg/L	0.02232	40.62%
	QC value within limits for Se Recovery = Not calculated						
Tl†	30.5	-0.0771 mg/L		0.00214	-0.0771 mg/L	0.00214	2.78%
	QC value less than the lower limit for Tl Recovery = Not calculated						
V†	39572.0	0.255 mg/L		0.0037	0.255 mg/L	0.0037	1.45%
	QC value within limits for V Recovery = 101.85%						
Zn†	24451.6	0.543 mg/L		0.0072	0.543 mg/L	0.0072	1.32%
	QC value within limits for Zn Recovery = 108.60%						
Alx†	Saturated2						
	Unable to evaluate QC.						
Bex†	737797.2	256 ug/L		3.1	0.256 mg/L	0.0031	1.20%
	QC value within limits for Bex Recovery = 102.51%						

QC Failed. Continue with analysis.

Sequence No.: 80
 Sample ID: Wash
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/19/2007 16:40:48
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: Wash

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: Wash

Analyte	Mean Corrected Intensity	Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	367726.9	93.7 %	0.04			0.05%
Yr	195487.4	94.9 %	0.61			0.64%
Ag†	40.4	0.00016 mg/L	0.000127	0.00016 mg/L	0.000127	80.34%
QC value within limits for Ag		Recovery = Not calculated				
Al†	-12.7	-0.00355 mg/L	0.008427	-0.00355 mg/L	0.008427	237.60%
QC value within limits for Al		Recovery = Not calculated				
As†	0.9	0.00047 mg/L	0.000859	0.00047 mg/L	0.000859	181.06%
QC value within limits for As		Recovery = Not calculated				
B_†	134.2	0.00444 mg/L	0.000089	0.00444 mg/L	0.000089	2.01%
QC value within limits for B_		Recovery = Not calculated				
Ba†	-3.2	-0.00005 mg/L	0.000040	-0.00005 mg/L	0.000040	84.60%
QC value within limits for Ba		Recovery = Not calculated				
Be†	-59.8	-0.00002 mg/L	0.000004	-0.00002 mg/L	0.000004	19.83%
QC value within limits for Be		Recovery = Not calculated				
Ca†	-3.4	-0.00048 mg/L	0.000056	-0.00048 mg/L	0.000056	11.66%
QC value within limits for Ca		Recovery = Not calculated				
Cd†	6.8	0.00027 mg/L	0.000061	0.00027 mg/L	0.000061	22.59%
QC value within limits for Cd		Recovery = Not calculated				
Co†	-3.1	-0.00013 mg/L	0.000020	-0.00013 mg/L	0.000020	15.63%
QC value within limits for Co		Recovery = Not calculated				
Cr†	20.3	0.00027 mg/L	0.000176	0.00027 mg/L	0.000176	64.84%
QC value within limits for Cr		Recovery = Not calculated				
Cu†	34.7	0.00010 mg/L	0.000066	0.00010 mg/L	0.000066	66.25%
QC value within limits for Cu		Recovery = Not calculated				
Fe†	-1.3	-0.00118 mg/L	0.003518	-0.00118 mg/L	0.003518	298.68%
QC value within limits for Fe		Recovery = Not calculated				
K†	28.4	0.0253 mg/L	0.04826	0.0253 mg/L	0.04826	190.43%
QC value within limits for K		Recovery = Not calculated				
Mg†	-1.6	-0.00047 mg/L	0.000611	-0.00047 mg/L	0.000611	129.99%
QC value within limits for Mg		Recovery = Not calculated				
Mn†	-516.0	-0.00095 mg/L	0.000000	-0.00095 mg/L	0.000000	0.02%
QC value within limits for Mn		Recovery = Not calculated				
Mo†	-1.6	-0.00014 mg/L	0.000707	-0.00014 mg/L	0.000707	511.27%
QC value within limits for Mo		Recovery = Not calculated				
Na†	384.4	0.116 mg/L	0.0103	0.116 mg/L	0.0103	8.84%
QC value within limits for Na		Recovery = Not calculated				
Ni†	0.2	0.00001 mg/L	0.000200	0.00001 mg/L	0.000200	>999.9%
QC value within limits for Ni		Recovery = Not calculated				
Pb†	-1.3	-0.00028 mg/L	0.000526	-0.00028 mg/L	0.000526	185.92%
QC value within limits for Pb		Recovery = Not calculated				
Sb†	2.4	0.00130 mg/L	0.000002	0.00130 mg/L	0.000002	0.12%
QC value within limits for Sb		Recovery = Not calculated				
Se†	-15.1	-0.0126 mg/L	0.00370	-0.0126 mg/L	0.00370	29.32%
QC value within limits for Se		Recovery = Not calculated				
Tl†	2.9	0.00110 mg/L	0.002548	0.00110 mg/L	0.002548	232.67%
QC value within limits for Tl		Recovery = Not calculated				
V†	38.6	0.00024 mg/L	0.000095	0.00024 mg/L	0.000095	38.67%
QC value within limits for V		Recovery = Not calculated				
Zn†	3.5	0.00008 mg/L	0.000042	0.00008 mg/L	0.000042	52.74%
QC value within limits for Zn		Recovery = Not calculated				
Alx†	65.5	0.755 ug/L	0.0151	0.00076 mg/L	0.000015	2.00%
QC value within limits for Alx		Recovery = Not calculated				
Bex†	-59.8	-0.0208 ug/L	0.00408	-0.00002 mg/L	0.000004	19.67%
QC value within limits for Bex		Recovery = Not calculated				

All analyte(s) passed QC.

Sequence No.: 81
 Sample ID: QC-25 1ppm
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 12
 Date Collected: 6/19/2007 16:44:17
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	369150.9	94.1 %		0.05			0.05%
Yr	193583.6	94.0 %		0.24			0.25%
Ag†	87727.9	0.342 mg/L		0.0016	0.342 mg/L	0.0016	0.47%
	QC value less than the lower limit for Ag Recovery = 34.24%						
Al†	4003.4	1.08 mg/L		0.007	1.08 mg/L	0.007	0.63%
	QC value within limits for Al Recovery = 107.55%						
As†	1858.0	1.02 mg/L		0.005	1.02 mg/L	0.005	0.54%
	QC value within limits for As Recovery = 101.95%						
B_†	28672.5	0.947 mg/L		0.0039	0.947 mg/L	0.0039	0.41%
	QC value within limits for B_ Recovery = 94.68%						
Ba†	74758.7	1.11 mg/L		0.005	1.11 mg/L	0.005	0.48%
	QC value greater than the upper limit for Ba Recovery = 110.91%						
Be†	2978137.6	1.03 mg/L		0.003	1.03 mg/L	0.003	0.25%
	QC value within limits for Be Recovery = 103.46%						
Ca†	7489.9	1.07 mg/L		0.002	1.07 mg/L	0.002	0.16%
	QC value within limits for Ca Recovery = 106.62%						
Cd†	25274.0	1.02 mg/L		0.003	1.02 mg/L	0.003	0.30%
	QC value within limits for Cd Recovery = 101.91%						
Co†	26212.5	1.10 mg/L		0.005	1.10 mg/L	0.005	0.44%
	QC value greater than the upper limit for Co Recovery = 110.24%						
Cr†	79161.0	1.06 mg/L		0.004	1.06 mg/L	0.004	0.36%
	QC value within limits for Cr Recovery = 105.92%						
Cu†	358781.0	1.03 mg/L		0.004	1.03 mg/L	0.004	0.37%
	QC value within limits for Cu Recovery = 103.09%						
Fe†	1121.5	1.04 mg/L		0.002	1.04 mg/L	0.002	0.21%
	QC value within limits for Fe Recovery = 104.48%						
K†	11461.3	10.2 mg/L		0.03	10.2 mg/L	0.03	0.28%
	QC value within limits for K Recovery = 102.39%						
Mg†	3807.0	1.09 mg/L		0.001	1.09 mg/L	0.001	0.10%
	QC value within limits for Mg Recovery = 109.04%						
Mn†	593821.3	1.09 mg/L		0.001	1.09 mg/L	0.001	0.13%
	QC value within limits for Mn Recovery = 108.99%						
Mo†	11487.1	1.01 mg/L		0.002	1.01 mg/L	0.002	0.19%
	QC value within limits for Mo Recovery = 101.36%						
Na†	4029.2	1.22 mg/L		0.004	1.22 mg/L	0.004	0.35%
	QC value greater than the upper limit for Na Recovery = 122.02%						
Ni†	23633.6	1.12 mg/L		0.003	1.12 mg/L	0.003	0.23%
	QC value greater than the upper limit for Ni Recovery = 111.88%						
Pb†	5145.3	1.13 mg/L		0.004	1.13 mg/L	0.004	0.40%
	QC value greater than the upper limit for Pb Recovery = 112.82%						
Sb†	1809.5	0.977 mg/L		0.0024	0.977 mg/L	0.0024	0.25%
	QC value within limits for Sb Recovery = 97.74%						
Se†	1203.3	1.01 mg/L		0.007	1.01 mg/L	0.007	0.72%
	QC value within limits for Se Recovery = 100.71%						
Tl†	2948.0	1.12 mg/L		0.005	1.12 mg/L	0.005	0.48%
	QC value greater than the upper limit for Tl Recovery = 112.47%						
V†	161450.4	1.02 mg/L		0.006	1.02 mg/L	0.006	0.54%
	QC value within limits for V Recovery = 102.47%						
Zn†	48610.4	1.08 mg/L		0.005	1.08 mg/L	0.005	0.42%
	QC value within limits for Zn Recovery = 107.84%						
Alx†	84507.1	974 ug/L		5.3	0.974 mg/L	0.0053	0.54%
	QC value within limits for Alx Recovery = 97.38%						
Bex†	2978137.6	1030 ug/L		2.5	1.03 mg/L	0.003	0.25%
	QC value within limits for Bex Recovery = 103.45%						

QC Failed. Retry.

Sequence No.: 82
 Sample ID: QC-25 ppm
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 12
 Date Collected: 6/19/2007 16:47:08
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: QC-25 ppm

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: QC-25 ppm

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	367749.5	93.7 %	0.63			0.67%
Yr	191458.1	92.9 %	0.38			0.41%
Ag†	88124.0	0.344 mg/L	0.0024	0.344 mg/L	0.0024	0.71%
	QC value less than the lower limit for Ag Recovery = 34.39%					
Al†	4030.5	1.08 mg/L	0.008	1.08 mg/L	0.008	0.74%
	QC value within limits for Al Recovery = 108.31%					
As†	1852.4	1.02 mg/L	0.005	1.02 mg/L	0.005	0.49%
	QC value within limits for As Recovery = 101.64%					
B_†	29196.9	0.964 mg/L	0.0091	0.964 mg/L	0.0091	0.94%
	QC value within limits for B_ Recovery = 96.42%					
Ba†	75603.4	1.12 mg/L	0.012	1.12 mg/L	0.012	1.05%
	QC value greater than the upper limit for Ba Recovery = 112.16%					
Be†	2968462.1	1.03 mg/L	0.002	1.03 mg/L	0.002	0.24%
	QC value within limits for Be Recovery = 103.13%					
Ca†	7601.6	1.08 mg/L	0.006	1.08 mg/L	0.006	0.58%
	QC value within limits for Ca Recovery = 108.21%					
Cd†	25723.6	1.04 mg/L	0.012	1.04 mg/L	0.012	1.12%
	QC value within limits for Cd Recovery = 103.75%					
Co†	26479.5	1.11 mg/L	0.008	1.11 mg/L	0.008	0.76%
	QC value greater than the upper limit for Co Recovery = 111.36%					
Cr†	79828.9	1.07 mg/L	0.009	1.07 mg/L	0.009	0.81%
	QC value within limits for Cr Recovery = 106.81%					
Cu†	358765.3	1.03 mg/L	0.002	1.03 mg/L	0.002	0.16%
	QC value within limits for Cu Recovery = 103.09%					
Fe†	1132.6	1.06 mg/L	0.000	1.06 mg/L	0.000	0.04%
	QC value within limits for Fe Recovery = 105.50%					
K†	11511.9	10.3 mg/L	0.07	10.3 mg/L	0.07	0.65%
	QC value within limits for K Recovery = 102.85%					
Mg†	3842.9	1.10 mg/L	0.007	1.10 mg/L	0.007	0.59%
	QC value greater than the upper limit for Mg Recovery = 110.07%					
Mn†	592037.1	1.09 mg/L	0.002	1.09 mg/L	0.002	0.20%
	QC value within limits for Mn Recovery = 108.66%					
Mo†	11459.0	1.01 mg/L	0.008	1.01 mg/L	0.008	0.83%
	QC value within limits for Mo Recovery = 101.11%					
Na†	3925.0	1.19 mg/L	0.014	1.19 mg/L	0.014	1.21%
	QC value within limits for Na Recovery = 118.86%					
Ni†	23850.1	1.13 mg/L	0.010	1.13 mg/L	0.010	0.90%
	QC value greater than the upper limit for Ni Recovery = 112.91%					
Pb†	5131.0	1.13 mg/L	0.009	1.13 mg/L	0.009	0.83%
	QC value greater than the upper limit for Pb Recovery = 112.51%					
Sb†	1810.1	0.978 mg/L	0.0114	0.978 mg/L	0.0114	1.17%
	QC value within limits for Sb Recovery = 97.76%					
Se†	1198.7	1.00 mg/L	0.002	1.00 mg/L	0.002	0.20%
	QC value within limits for Se Recovery = 100.33%					
Tl†	2944.6	1.12 mg/L	0.005	1.12 mg/L	0.005	0.49%
	QC value greater than the upper limit for Tl Recovery = 112.34%					
V†	163094.6	1.04 mg/L	0.010	1.04 mg/L	0.010	0.97%
	QC value within limits for V Recovery = 103.51%					
Zn†	49352.6	1.09 mg/L	0.009	1.09 mg/L	0.009	0.84%
	QC value within limits for Zn Recovery = 109.50%					
Alx†	86824.7	1000 ug/L	11.8	1.00 mg/L	0.012	1.18%
	QC value within limits for Alx Recovery = 100.05%					
Bex†	2968462.1	1030 ug/L	2.5	1.03 mg/L	0.002	0.24%

QC value within limits for Bex Recovery = 103.11%
QC Failed. Continue with analysis.

Sequence No.: 83
 Sample ID: ECV
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 4
 Date Collected: 6/19/2007 16:51:30
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ECV

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: ECV

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	351032.6	89.4 %		0.13			0.15%
Yr	187098.7	90.8 %		0.60			0.66%
Ag†	259715.7	1.01 mg/L		0.002	1.01 mg/L	0.002	0.19%
	QC value within limits for Ag	Recovery = 101.36%					
Al†	19427.8	5.21 mg/L		0.016	5.21 mg/L	0.016	0.30%
	QC value within limits for Al	Recovery = 104.20%					
As†	8863.8	4.86 mg/L		0.002	4.86 mg/L	0.002	0.04%
	QC value within limits for As	Recovery = 97.29%					
B_†	74952.0	2.47 mg/L		0.001	2.47 mg/L	0.001	0.03%
	QC value within limits for B_	Recovery = 98.81%					
Ba†	353863.4	5.25 mg/L		0.009	5.25 mg/L	0.009	0.16%
	QC value within limits for Ba	Recovery = 105.00%					
Be†	6038152.5	2.10 mg/L		0.012	2.10 mg/L	0.012	0.57%
	QC value within limits for Be	Recovery = 104.90%					
Ca†	356653.7	50.8 mg/L		0.09	50.8 mg/L	0.09	0.17%
	QC value within limits for Ca	Recovery = 101.54%					
Cd†	63551.6	2.54 mg/L		0.003	2.54 mg/L	0.003	0.13%
	QC value within limits for Cd	Recovery = 101.64%					
Co†	124104.6	5.22 mg/L		0.008	5.22 mg/L	0.008	0.16%
	QC value within limits for Co	Recovery = 104.38%					
Cr†	384623.3	5.15 mg/L		0.012	5.15 mg/L	0.012	0.23%
	QC value within limits for Cr	Recovery = 102.93%					
Cu†	1773874.2	5.10 mg/L		0.024	5.10 mg/L	0.024	0.47%
	QC value within limits for Cu	Recovery = 101.94%					
Fe†	5470.3	5.10 mg/L		0.007	5.10 mg/L	0.007	0.14%
	QC value within limits for Fe	Recovery = 101.92%					
K†	57129.5	51.0 mg/L		0.10	51.0 mg/L	0.10	0.19%
	QC value within limits for K	Recovery = 102.08%					
Mg†	178184.0	51.0 mg/L		0.05	51.0 mg/L	0.05	0.09%
	QC value within limits for Mg	Recovery = 101.97%					
Mn†	2835577.1	5.20 mg/L		0.013	5.20 mg/L	0.013	0.26%
	QC value within limits for Mn	Recovery = 104.09%					
Mo†	58179.9	5.13 mg/L		0.008	5.13 mg/L	0.008	0.16%
	QC value within limits for Mo	Recovery = 102.67%					
Na†	167933.1	50.9 mg/L		0.10	50.9 mg/L	0.10	0.19%
	QC value within limits for Na	Recovery = 101.71%					
Ni†	111532.9	5.28 mg/L		0.006	5.28 mg/L	0.006	0.12%
	QC value within limits for Ni	Recovery = 105.60%					
Pb†	23891.7	5.24 mg/L		0.002	5.24 mg/L	0.002	0.04%
	QC value within limits for Pb	Recovery = 104.77%					
Sb†	8765.6	4.73 mg/L		0.002	4.73 mg/L	0.002	0.05%
	QC value within limits for Sb	Recovery = 94.69%					
Se†	6201.5	5.19 mg/L		0.013	5.19 mg/L	0.013	0.26%
	QC value within limits for Se	Recovery = 103.79%					
Tl†	14040.6	5.34 mg/L		0.007	5.34 mg/L	0.007	0.14%
	QC value within limits for Tl	Recovery = 106.80%					
V†	812953.1	5.16 mg/L		0.010	5.16 mg/L	0.010	0.19%
	QC value within limits for V	Recovery = 103.17%					
Zn†	237288.8	5.27 mg/L		0.008	5.27 mg/L	0.008	0.16%
	QC value within limits for Zn	Recovery = 105.31%					
Alx†	419438.5	4830 ug/L		15.9	4.83 mg/L	0.016	0.33%
	QC value within limits for Alx	Recovery = 96.66%					
Bex†	6038152.5	2100 ug/L		12.0	2.10 mg/L	0.012	0.57%
	QC value within limits for Bex	Recovery = 104.87%					

All analyte(s) passed QC.

Sequence No.: 84
 Sample ID: ECB
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 0
 Date Collected: 6/19/2007 16:55:23
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: ECB

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: ECB

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	368524.8	93.9 %		0.70			0.74%
Yr	194708.5	94.5 %		0.98			1.04%
Ag†	667.8	0.00261 mg/L		0.000090	0.00261 mg/L	0.000090	3.46%
QC value within limits for Ag		Recovery = Not calculated					
Al†	23.2	0.00646 mg/L		0.004797	0.00646 mg/L	0.004797	74.26%
QC value within limits for Al		Recovery = Not calculated					
As†	31.0	0.0170 mg/L		0.00013	0.0170 mg/L	0.00013	0.78%
QC value within limits for As		Recovery = Not calculated					
B_†	584.0	0.0193 mg/L		0.00043	0.0193 mg/L	0.00043	2.23%
QC value within limits for B_		Recovery = Not calculated					
Ba†	0.6	0.00001 mg/L		0.000057	0.00001 mg/L	0.000057	682.98%
QC value within limits for Ba		Recovery = Not calculated					
Be†	-21.8	-0.00001 mg/L		0.000001	-0.00001 mg/L	0.000001	14.74%
QC value within limits for Be		Recovery = Not calculated					
Ca†	-9.5	-0.00135 mg/L		0.000414	-0.00135 mg/L	0.000414	30.79%
QC value within limits for Ca		Recovery = Not calculated					
Cd†	9.5	0.00016 mg/L		0.000114	0.00016 mg/L	0.000114	73.30%
QC value within limits for Cd		Recovery = Not calculated					
Co†	-1.7	-0.00007 mg/L		0.000197	-0.00007 mg/L	0.000197	283.77%
QC value within limits for Co		Recovery = Not calculated					
Cr†	28.8	0.00039 mg/L		0.000068	0.00039 mg/L	0.000068	17.69%
QC value within limits for Cr		Recovery = Not calculated					
Cu†	108.3	0.00031 mg/L		0.000103	0.00031 mg/L	0.000103	33.23%
QC value within limits for Cu		Recovery = Not calculated					
Fe†	-4.7	-0.00436 mg/L		0.003857	-0.00436 mg/L	0.003857	88.51%
QC value within limits for Fe		Recovery = Not calculated					
K†	61.7	0.0552 mg/L		0.00212	0.0552 mg/L	0.00212	3.85%
QC value within limits for K		Recovery = Not calculated					
Mg†	-1.7	-0.00048 mg/L		0.001486	-0.00048 mg/L	0.001486	311.10%
QC value within limits for Mg		Recovery = Not calculated					
Mn†	-434.9	-0.00080 mg/L		0.000021	-0.00080 mg/L	0.000021	2.58%
QC value within limits for Mn		Recovery = Not calculated					
Mo†	5.6	0.00049 mg/L		0.000195	0.00049 mg/L	0.000195	39.82%
QC value within limits for Mo		Recovery = Not calculated					
Na†	115.6	0.0350 mg/L		0.00483	0.0350 mg/L	0.00483	13.80%
QC value within limits for Na		Recovery = Not calculated					
Ni†	-4.5	-0.00021 mg/L		0.000466	-0.00021 mg/L	0.000466	220.14%
QC value within limits for Ni		Recovery = Not calculated					
Pb†	3.2	0.00070 mg/L		0.002360	0.00070 mg/L	0.002360	335.83%
QC value within limits for Pb		Recovery = Not calculated					
Sb†	9.8	0.00539 mg/L		0.001357	0.00539 mg/L	0.001357	25.19%
QC value within limits for Sb		Recovery = Not calculated					
Se†	-13.1	-0.0109 mg/L		0.00338	-0.0109 mg/L	0.00338	30.91%
QC value within limits for Se		Recovery = Not calculated					
Tl†	1.3	0.00050 mg/L		0.001526	0.00050 mg/L	0.001526	304.39%
QC value within limits for Tl		Recovery = Not calculated					
V†	45.2	0.00029 mg/L		0.000184	0.00029 mg/L	0.000184	64.00%
QC value within limits for V		Recovery = Not calculated					
Zn†	11.2	0.00025 mg/L		0.000069	0.00025 mg/L	0.000069	27.57%
QC value within limits for Zn		Recovery = Not calculated					
Alx†	-10.7	-0.123 ug/L		0.2230	-0.00012 mg/L	0.000223	181.04%
QC value within limits for Alx		Recovery = Not calculated					
Bex†	-21.8	-0.00758 ug/L		0.001105	-0.00001 mg/L	0.000001	14.57%
QC value within limits for Bex		Recovery = Not calculated					

All analyte(s) passed QC.

Sequence No.: 85
 Sample ID: MRL
 Analyst:
 Initial Sample Wt:
 Dilution:

Autosampler Location: 21
 Date Collected: 6/19/2007 16:58:51
 Data Type: Original
 Initial Sample Vol:
 Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte Back Pressure Flow
 All 217.0 kPa 0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Conc. Units	Calib	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Sca	370045.5	94.3 %		0.50			0.53%
Yr	192824.1	93.6 %		1.06			1.13%
Ag†	3283.1	0.0128 mg/L		0.00004	0.0128 mg/L	0.00004	0.28%
	QC value within limits for Ag	Recovery = 128.13%					
Al†	185.0	0.0508 mg/L		0.00306	0.0508 mg/L	0.00306	6.02%
	QC value within limits for Al	Recovery = 101.69%					
As†	193.9	0.106 mg/L		0.0029	0.106 mg/L	0.0029	2.76%
	QC value within limits for As	Recovery = 106.03%					
B_†	1791.5	0.0592 mg/L		0.00064	0.0592 mg/L	0.00064	1.09%
	QC value within limits for B_	Recovery = 118.39%					
Ba†	1413.2	0.0210 mg/L		0.00003	0.0210 mg/L	0.00003	0.15%
	QC value within limits for Ba	Recovery = 104.78%					
Be†	3043.4	0.00106 mg/L		0.000024	0.00106 mg/L	0.000024	2.27%
	QC value within limits for Be	Recovery = 105.86%					
Ca†	7117.8	1.01 mg/L		0.003	1.01 mg/L	0.003	0.34%
	QC value within limits for Ca	Recovery = 101.32%					
Cd†	165.1	0.00548 mg/L		0.000194	0.00548 mg/L	0.000194	3.53%
	QC value within limits for Cd	Recovery = 109.68%					
Co†	1234.8	0.0519 mg/L		0.00034	0.0519 mg/L	0.00034	0.65%
	QC value within limits for Co	Recovery = 103.86%					
Cr†	798.4	0.0107 mg/L		0.00002	0.0107 mg/L	0.00002	0.16%
	QC value within limits for Cr	Recovery = 106.83%					
Cu†	3568.5	0.0103 mg/L		0.00032	0.0103 mg/L	0.00032	3.16%
	QC value within limits for Cu	Recovery = 102.83%					
Fe†	18.2	0.0170 mg/L		0.00265	0.0170 mg/L	0.00265	15.61%
	QC value within limits for Fe	Recovery = 84.88%					
K†	1158.4	1.03 mg/L		0.024	1.03 mg/L	0.024	2.37%
	QC value within limits for K	Recovery = 103.49%					
Mg†	364.7	0.104 mg/L		0.0009	0.104 mg/L	0.0009	0.86%
	QC value within limits for Mg	Recovery = 104.35%					
Mn†	747.7	0.00137 mg/L		0.000040	0.00137 mg/L	0.000040	2.92%
	QC value within limits for Mn	Recovery = 68.62%					
Mo†	228.6	0.0202 mg/L		0.00022	0.0202 mg/L	0.00022	1.11%
	QC value within limits for Mo	Recovery = 100.85%					
Na†	3370.7	1.02 mg/L		0.029	1.02 mg/L	0.029	2.82%
	QC value within limits for Na	Recovery = 102.07%					
Ni†	443.5	0.0210 mg/L		0.00050	0.0210 mg/L	0.00050	2.40%
	QC value within limits for Ni	Recovery = 104.84%					
Pb†	92.4	0.0203 mg/L		0.00206	0.0203 mg/L	0.00206	10.17%
	QC value within limits for Pb	Recovery = 101.29%					
Sb†	92.5	0.0508 mg/L		0.00194	0.0508 mg/L	0.00194	3.83%
	QC value within limits for Sb	Recovery = 101.51%					
Se†	109.6	0.0916 mg/L		0.00722	0.0916 mg/L	0.00722	7.89%
	QC value within limits for Se	Recovery = 91.57%					
Tl†	291.0	0.110 mg/L		0.0023	0.110 mg/L	0.0023	2.10%
	QC value within limits for Tl	Recovery = 110.28%					
V†	389.5	0.00252 mg/L		0.000106	0.00252 mg/L	0.000106	4.23%
	QC value within limits for V	Recovery = 125.85%					
Zn†	926.1	0.0205 mg/L		0.00007	0.0205 mg/L	0.00007	0.36%
	QC value within limits for Zn	Recovery = 102.74%					
Alx†	4120.0	47.5 ug/L		1.45	0.0475 mg/L	0.00145	3.05%
	QC value within limits for Alx	Recovery = 94.95%					
Bex†	3043.4	1.06 ug/L		0.024	0.00106 mg/L	0.000024	2.27%
	QC value within limits for Bex	Recovery = 105.72%					

All analyte(s) passed QC.

Analytical Sequence

Method: 2007 060831

Seq.	Loc.	ID	Status
1	0	Calib Blank 1	Applied
2	15	Standard 2	Applied
3	15	ICV	QC Passed
4	9	Linearity Check	QC Passed
5	10	ICSA	QC Passed
6	11	ICSAB	QC Failed
7	0	Wash	QC Passed
8	12	QC-25 lppm	QC Passed
9	4	CCV	QC Passed
10	0	ICB	QC Passed
11	20	MRL	QC Passed
12	16	FILTERCHECK	Analyzed
13	22	MRL/2	Analyzed
14	23	MRL2007	Analyzed
15	38	MBLANK	Analyzed
16	39	LCS	Analyzed
17	40	LCSD	Analyzed
18	41	2706180241	Analyzed
19	42	2706180241MS	Analyzed
20	43	2706180241MSD	Analyzed
21	44	2706180248	Analyzed
22	4	CCV	QC Passed
23	0	CCB	QC Passed
24	45	2706180247	Analyzed
25	46	2706180245	Analyzed
26	47	2706180246	Analyzed
27	48	2706180254	Analyzed
28	49	2706180256	Analyzed
29	50	2706180257	Analyzed
30	51	2706180249	Analyzed
31	52	2706180067	Analyzed
32	53	2706180062	Analyzed
33	54	2706180062MS	Analyzed
34	4	CCV	QC Passed
35	0	CCB	QC Passed
36	5	MCV	QC Passed
37	55	2706180062MSD	Analyzed
38	56	2706180060	Analyzed
39	57	2706180036	Analyzed
40	58	2706180022	Analyzed
41	58	2706180258	Analyzed
42	59	2706180029	Analyzed
43	60	2706180058	Analyzed
44	61	MBLANK2007	Analyzed
45	62	LCS	Analyzed
46	63	LCSD	Analyzed
47	4	CCV	QC Passed
48	0	CCB	QC Passed
49	64	2706120284	Analyzed
50	65	2706120284MS	Analyzed
51	66	2706120284MSD	Analyzed
52	67	2706130119	Analyzed
53	68	2706130119MS	Analyzed
54	69	2706130119MSD	Analyzed
55	70	2706120037	Analyzed
56	71	2706120038	Analyzed
57	72	2706120039	Analyzed
58	73	2706120040	Analyzed
59	4	CCV	QC Passed
60	0	CCB	QC Passed
61	5	MCV	QC Passed
62	74	2706120615	Analyzed
63	75	2706120621	Analyzed
64	76	2706120630	Analyzed
65	77	2706120632	Analyzed
66	78	2706120633	Analyzed
67	79	2706120634	Analyzed

68	80	2706120636	Analyzed
69	81	2706130120	Analyzed
70	82	2706130286	Analyzed
71	83	2706130408	Analyzed
72	4	CCV	QC Passed
73	0	CCB	QC Passed
74	84	2706120631_2X	Analyzed
75	85	2706120623_2X	Analyzed
76	86	2706120610_5X	Analyzed
77	87	2706120332_2X	Analyzed
78	10	ICSA	QC Passed
79	11	ICSAB	QC Failed
80	0	Wash	QC Passed
81	12	QC-25 1ppm	QC Failed
82	12	QC-25 1ppm	QC Failed
83	4	ECV	QC Passed
84	0	ECB	QC Passed
85	21	MRL	QC Passed

Standard Preparation Worksheet & Certificate of Analysis

Reagent Lot #

HNO3 R# 100411 HCL R# 100412
IS = Yttrium(ME0702007)0.75mL + Scandium ME0606006)0.5mL to 1000mL w/ 2% HNO3

Standards	Lot #	Exp. Date	Dilution
Calibration	ME0704023	(05/01/08)	1:10 ME0704027
(Prepare daily)	ME0704024	(05/01/08)	1:10
CCV/MCV/ECV	ME0610005	(04/10/08)	CCV/ECV MCV
(Prepare daily)			1:20 ME0610006 1:40 ME0610007
Spike/LCS	ME0606004	(12/13/07)	1:100 ME0601006
(Prepare daily)	ME0705006	(10/01/07)	1:100
	ME0704005	(10/04/08)	1:200
MRL	ME0703010	(09/16/07)	1:100 ME0603015
(Prepare daily)			
ICSA	ME0705012	(08/23/07)	
ICSAB	ME0705013	(08/23/07)	
QC-25 1PPM	ME0705005	(11/09/07)	
Linearity	ME0705004	(11/09/07)	
Method Sr/Ti/Sn/SiO2			
Calibration	ME0705008	(08/01/07)	
CCV/ECV	ME0703007	(09/16/07)	
Spike/LCS	ME0703006	(09/16/07)	1:100
(Prepare daily)			
MRL	ME0705007	(11/09/07)	1:100
(Prepare daily)			
Method Li			
Std/ICV/MRL	ME0703008	(09/16/07)	1:1000, 200, 40, 10
(Prepare daily)			
LCS/Spike	ME0701003	(07/04/07)	1:50
(Prepare daily)			
ccv	ME0701003	(07/04/07)	1:40
(Prepare daily)			

From May 2005: the calibration std for ICP should be ME0505010, 011 not ME0408010
dilution should be 1:20 and 1:40 not 1:200 and 1:400. 1/10/2006.
From 10/4/06: the QC-25 lppm solution ref # should be ME0610001 not ME0610002.

Reagent Lot #

HNO3 R# 100411 HCL R# 100412
IS = Yttrium(ME0702007)0.75mL + Scandium ME0606006)0.5mL to 1000mL w/ 2% HNO3

Standards	Lot #	Exp. Date	Dilution
Calibration	ME0704023	(05/01/08) ✓	1:10 ME0704027
(Prepare daily)	ME0704024	(05/01/08) ✓	1:10
CCV/MCV/ECV	ME0610005	(04/10/08) ✓	CCV/ECV MCV
(Prepare daily)			1:20 ME0610006 1:40 ME0610007
Spike/LCS	ME0606004	(12/13/07) ✓	1:100 ME0601006
(Prepare daily)	ME0705006	(10/01/07) ✓	1:100
	ME0704005	(10/04/08) ✓	1:200
MRL	ME0703010	(09/16/07) ✓	1:100 ME0603015
(Prepare daily)			
ICSA	ME0705012	(08/23/07) ✓	
ICSAB	ME0705013	(08/23/07) ✓	
QC-25 1PPM	ME0705005	(11/09/07) ✓	
Linearity	ME0705004	(11/09/07) ✓	

Method Sr/Ti/Sn/SiO2

Calibration	ME0705008	(08/01/07)	
CCV/ECV	ME0703007	(09/16/07)	
Spike/LCS	ME0703006	(09/16/07)	1:100
(Prepare daily)			
MRL	ME0705007	(11/09/07)	1:100
(Prepare daily)			

Method Li

Std/ICV/MRL	ME0703008	(09/16/07)	1:1000, 200, 40, 10
(Prepare daily)			
LCS/Spike	ME0701003	(07/04/07)	1:50
(Prepare daily)			
ccv	ME0701003	(07/04/07)	1:40
(Prepare daily)			

From May 2005: the calibration std for ICP should be ME0505010,011 not ME0408010
dilution should be 1:20 and 1:40 not 1:200 and 1:400. 1/10/2006.

From 10/4/06: the QC-25 lppm solution ref # should be ME0610001 not ME0610002.

ME0704023

Initial:

Date:

w37
4/23/07**METALS STANDARD DOCUMENTATION****Standard:** ICPCalibration Stock Std #1**ME #:** 0704023**Date Received/Prepped:** 4/23/2007**By:** wbh**Date Expired:** 5/1/2008**Lot #:** A2-MEB235010**Manufacturer:** Inorganic Ventures**Certificate:** Y**Matrix:** 5% Nitric Acid**NIST SRM:** Varies**Amount:** 500 mL**Storage:** Room Temp

Component	Comment	Conc. Unit:
Ca	(P/N MWH-ICAP-CAL-1)	1000 ug/ml
K		1000 ug/ml
Mg		1000 ug/ml
Na		1000 ug/ml
Al		100 ug/ml
As		100 ug/ml
Ba		100 ug/ml
Co		100 ug/ml
Cr		100 ug/ml
Cu		100 ug/ml
Fe		100 ug/ml
Mn		100 ug/ml
Ni		100 ug/ml
Pb		100 ug/ml
Se		100 ug/ml
Tl		100 ug/ml
V		100 ug/ml
Zn		100 ug/ml
Cd		50 ug/ml
Be		40 ug/ml
SR		30 ug/ml
Ag		20 ug/ml



- 1.0** **INORGANIC VENTURES** is an ISO Guide 34:2000 registered Certified Reference Material (CRM) Manufacturer (Certificate #883-02). The certificate is designed and the data is determined in accordance with ISO Guide 31:2000 (Reference Materials-Contents of Certificates and Labels), ISO Guide 34:2000 "Quality System Guidelines for the Production of Reference Materials," and ISO Guide 35:1989 "Certification of Reference Materials - General and Statistical Principles."

- 2.0** **DESCRIPTION OF CRM** Custom Solution
Catalog No.: MWH-ICAP-CAL-1
Lot Number: **A2-MEB235010**
Matrix: 5% HNO₃(abs)

M80704023

1,000.00 µg/mL each:

Ca, K, Mg, Na,

100.00 µg/mL each:

Al, As, Ba, Co, Cr₃, Cu, Fe, Mn, Ni, Pb, Se, Ti, V, Zn,

50.00 µg/mL each:

Cd,

40.00 µg/mL each:

Be,

30.00 µg/mL each:

Sr,

20.00 µg/mL each:

Ag

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	100.1 ± 0.5 µg/mL	Arsenic, As	100.2 ± 0.3 µg/mL	Barium, Ba	99.9 ± 0.2 µg/mL
Beryllium, Be	39.98 ± 0.08 µg/mL	Cadmium, Cd	50.05 ± 0.12 µg/mL	Calcium, Ca	997 ± 3 µg/mL
Chromium+3, Cr ₃	100.1 ± 0.4 µg/mL	Cobalt, Co	100.1 ± 0.2 µg/mL	Copper, Cu	100.1 ± 0.2 µg/mL
Iron, Fe	100.0 ± 0.2 µg/mL	Lead, Pb	100.1 ± 0.3 µg/mL	Magnesium, Mg	996 ± 3 µg/mL
Manganese, Mn	100.1 ± 0.3 µg/mL	Nickel, Ni	100.1 ± 0.2 µg/mL	Potassium, K	1,003 ± 2 µg/mL
Selenium, Se	100.1 ± 0.2 µg/mL	Silver, Ag	20.03 ± 0.06 µg/mL	Sodium, Na	997 ± 5 µg/mL
Strontium, Sr	29.92 ± 0.18 µg/mL	Thallium, Tl	100.0 ± 0.1 µg/mL	Vanadium, V	100.1 ± 0.3 µg/mL
Zinc, Zn	100.1 ± 0.4 µg/mL				

Certified Density: 1.056 g/mL (measured at 22° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\sum s_i)^2]^{1/2}}{(n)^{1/2}}$$

$(\bar{x})$ = mean

x_i = individual results

n = number of measurements

$\sum s_i$ = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
Ag	ICP Assay	3151	992212	Ag	Volhard	999a	999a
Al	ICP Assay	3101a	010808	Al	EDTA	928	928
As	ICP Assay	3103a	010713	As	Gravimetric		See Sec. 4.2
Ba	Gravimetric		See Sec. 4.2	Ba	ICP Assay	3104a	992907
Be	Gravimetric		See Sec. 4.2	Be	ICP Assay	3105a	892707
Ca	EDTA	928	928	Ca	ICP Assay	3109a	000622
Cd	EDTA	928	928	Cd	ICP Assay	3108	890312
Co	ICP Assay	3113	00630	Co	EDTA	928	928
Cr3	ICP Assay	3112a	990607	Cr3	Gravimetric		See Sec. 4.2
Cu	EDTA	928	928	Cu	ICP Assay	3114	891811
Fe	ICP Assay	3126a	000606	Fe	EDTA	928	928
K	ICP Assay	3141a	891312	K	Gravimetric		See Sec. 4.2
Mg	EDTA	928	928	Mg	ICP Assay	3131a	991107
Mn	EDTA	928	928	Mn	ICP Assay	3132	890903
Na	ICP Assay	3152a	990907	Na	Gravimetric		See Sec. 4.2
Ni	EDTA	928	928	Ni	ICP Assay	3136	000612
Pb	ICP Assay	3128	030721	Pb	EDTA	928	928
Se	ICP Assay	3149	992106	Se	Gravimetric		See Sec. 4.2
Sr	ICP Assay	3153a	990906	Sr	EDTA	928	928
Tl	Gravimetric		See Sec. 4.2	Tl	ICP Assay	3158	993012
V	ICP Assay	3165	992706	V	EDTA	928	928
Zn	EDTA	928	928	Zn	ICP Assay	3168a	001402

- 4.2 **BALANCE CALIBRATION** - All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST). The NIST Traceability numbers are 692476 - Class 1 and 692476A - Class 2. The NIST test number is 822/260017-98. All analytical balances are calibrated every 4 months. The balances are calibrated with a class 1 and/or class 2 analytical weight set. These weights are tested annually by a NIST / NVLAP accredited calibration lab. The NIST test number is
- 4.3 **THERMOMETER CALIBRATION** - The thermometers used in the determination of the final densities are calibrated vs standard thermometer No. 903-2680 which was certified in accordance with the procedures outlined by ASTM E77-87 and NIST Monograph 150 using NIST Test Nos. and Std Nos.: 769543, 217368/769543, 217368/P14452, 176240/P14452, 176240. Thermometers which are not calibrated vs standard thermometer No. 903-2680 are traceable to NIST Identification
- 4.4 **GLASSWARE CALIBRATION** - An in-house procedure is used to calibrate all Class A Glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:

ICP-MS, ICP-OES, FAAS, GFAA, XRF, and DCP

For the validation of analytical methods

For the preparation of "working reference samples"

For interference studies and the determination of correction coefficients

For detection limit and linearity studies

For additional intended uses, contact Technical Staff

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at $20 \pm 4^\circ\text{C}$. **Do Not** pipette from the container. **Do Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

Low Silver Note: This solution contains "LOW" levels of Silver. Please store this entire bottle inside a sealed glass jar.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to in-house procedure IV-MPM-004 and is guaranteed to be homogeneous.

10.0 QUALITY STANDARD DOCUMENTATION



10.1 ISO 9001:2000 Quality Management System Registration - QMI Certificate Number 010105

Recognized by:

Registrar Accreditation Board (ANSI-RAB)

Standards Council of Canada (SCC)

Dutch Council for Accreditation (RVA)

Entidad Mexicana de Acreditacion, a.c.(EMA)

Members of IQ Net International Certification Network:

Argentina (IRAM), Australia (QAS), Austria (OQS), Belgium (Avinter), Brazil (FCAV), Canada (QMI), Hong Kong (HKQAA), Columbia (ICONTEC), Czech Republic (CQS), Denmark (DS), Finland (SFS), France (AFAQ), Germany (DQS), Greece (ELOT), Hungary (MSZT), Ireland (NSAI), Israel (SII), Italy (CISQ), Japan (JQA), Korea (KSA-QA), Netherlands (KEMA), Norway (NCS), Poland (PCBC), Portugal (APCER), Singapore (PSB), Slovenia (SIQ), Spain (AENOR), Switzerland (SQS)

10.2 ISO/IEC 17025 - 1999 "General Requirements for the Competence of Testing and Calibration"

- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 - 2000 "General Requirements for the Competence of Reference Material Producers"

- Reference Materials Production - Accredited A2LA Certificate Number 883.02

A2LA Mutual Recognition Agreement Partners:

Australia (NATA), Austria (BmWA), Belgium (BELTEST) (BKO-OBE), Canada (SCC), Chinese Taipei (CNLA), Czech Republic (NAO), Denmark (DANAK), Finland (FINAS), France (COFRAC), Germany (DAR), Hong Kong (HKAS), Ireland (NAB), Italy (SIT) (SINAL), Japan (JAB) (JNLA), Republic of Korea (KOLAS), The Netherlands (RvA), New Zealand (IANZ), Norway (NA), Portugal (IPQ), Singapore (SAC-SINGLAS), Spain (ENAC), Sweden (SWEDAC), Switzerland (SAS), United Kingdom (UKAS) and United States (NVLAP) (ICBO ES)

10.4 10CFR50 Appendix B - Nuclear Regulatory Commission - Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission - Reporting Defects and Non-Compliance

10.6 MIL-STD-45662A (Obsolete/Observed)

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

- 11.1 **Shelf Life** - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special environmental controls that minimize transpiration and instability, the shelf life can be extended past this limit.
- 11.2 **Expiration Date** - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

Certification Date: April 16, 2007

Expiration Date:

EXPIRES
12/2008

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Nick Maida, Product
Documentation Administrator

Nick Maida

Certificate Approved By: Katalin Le, QC Manager

Katalin Le

Certifying Officer: Paul Gaines, PhD., Senior Technical Director

Paul Gaines

ME0704024

Initial:

Date:

WJ
4/23/07

METALS STANDARD DOCUMENTATION

Standard: ICP Calibration Stock Std #2
Date Received/Prepped: 4/23/2007
Date Expired: 5/1/2008
Manufacturer: Inorganic Ventures
Matrix: 5% Nitric Acid + Trace HF
Amount: 500 mL

ME #: 0704024
By: wbh
Lot #: A2-MEB235011
Certificate: Y
NIST SRM: Varies
Storage: Room Temp

Component	Comment	Conc. Unit:
Mo	(P/N MWH-ICAP-CAL-2)	100 ug/ml



- 1.0 INORGANIC VENTURES** is an ISO Guide 34:2000 registered Certified Reference Material (CRM) Manufacturer (Certificate #883-02). The certificate is designed and the data is determined in accordance with ISO Guide 31:2000 (Reference Materials-Contents of Certificates and Labels), ISO Guide 34:2000 "Quality System Guidelines for the Production of Reference Materials," and ISO Guide 35-1989 "Certification of Reference Materials - General and Statistical Principles."

- 2.0 DESCRIPTION OF CRM** Custom Solution
Catalog No.: MWH-ICAP-CAL-2
Lot Number: **A2-MEB235011**
Matrix: tr. HF, 5% HNO₃(abs)

M70704024

100.00 µg/mL each:
Mo, Sb, Sn, Ti,
50.00 µg/mL each:
B

3.0 CERTIFIED VALUES AND UNCERTAINTIES

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Antimony, Sb	100.4 ± 0.3 µg/mL	Boron, B	50.07 ± 0.28 µg/mL	Molybdenum, Mo	100.3 ± 0.3 µg/mL
Tin, Sn	100.3 ± 0.3 µg/mL	Titanium, Ti	100.5 ± 0.2 µg/mL		

Certified Density: 1.037 g/mL (measured at 22° C)

The Certified Value is based upon the most precise method used to analyze this CRM. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_i}{n}$$

$$\text{Uncertainty } (\pm) = \frac{2[(\sum s_i^2)^{1/2}]}{(n)^{1/2}}$$

($\bar{x}$) = mean

x_i = individual results

n = number of measurements

$\sum s_i$ = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement, weighing, dilution to volume, and the fixed error reported on the NIST SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

10.0 QUALITY STANDARD DOCUMENTATION



10.1 ISO 9001:2000 Quality Management System Registration - QMI Certificate Number 010105

Recognized by:

Registrar Accreditation Board (ANSI-RAB)

Standards Council of Canada (SCC)

Dutch Council for Accreditation (RVA)

Entidad Mexicana de Acreditacion, a.c.(EMA)

Members of IQ Net International Certification Network:

Argentina (IRAM), Australia (QAS), Austria (ÖQS), Belgium (Avinter), Brazil (FCAV), Canada (QMI), Hong Kong (HKQAA), Columbia (ICONTEC), Czech Republic (CQS), Denmark (DS), Finland (SFS), France (AFAQ), Germany (DQS), Greece (ELOT), Hungary (MSZT), Ireland (NSAI), Israel (SII), Italy (CISQ), Japan (JQA), Korea (KSA-QA), Netherlands (KEMA), Norway (NCS), Poland(PCBC), Portugal (APCER), Singapore (PSB), Slovenia (SIQ), Spain (AENOR), Switzerland (SQS)

10.2 ISO/IEC 17025 - 1999 "General Requirements for the Competence of Testing and Calibration"

- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 ISO/IEC Guide 34 - 2000 "General Requirements for the Competence of Reference Material Producers"

- Reference Materials Production - Accredited A2LA Certificate Number 883.02

A2LA Mutual Recognition Agreement Partners:

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10.4 10CFR50 Appendix B - Nuclear Regulatory Commission - Domestic Licensing of Production and Utilization Facilities

10.5 10CFR21 - Nuclear Regulatory Commission - Reporting Defects and Non-Compliance

10.6 MIL-STD-45662A (Obsolete/Observed)

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies of chemically-stable solutions performed at the manufacturer's facility show a CRM shelf-life of twenty one months for solutions packaged in 125-mL low density polyethylene bottles. When stored under special environmental controls that minimize transpiration and instability, the shelf life can be extended past this limit.

11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Manufacturer concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

Certification Date: April 16, 2007

Expiration Date:

EXPIRES
12/2008

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By: Nick Maida, Product
Documentation Administrator

Nicholas Maida

Certificate Approved By: Katalin Le, QC Manager

Katalin Le

Certifying Officer: Paul Gaines, PhD., Senior Technical Director

Paul Gaines

4.1 ASSAY INFORMATION

ELEMENT	METHOD	NIST SRM#	SRM LOT#	ELEMENT	METHOD	NIST SRM#	SRM LOT#
B	ICP Assay	3107	991907	B	Gravimetric		See Sec. 4.2
Mo	Gravimetric		See Sec. 4.2	Mo	ICP Assay	3134	891307
Sb	ICP Assay	3102a	990707	Sb	Gravimetric		See Sec. 4.2
Sn	ICP Assay	3161a	993107	Sn	Gravimetric		See Sec. 4.2
Ti	Gravimetric		See Sec. 4.2	Ti	ICP Assay	3162a	992801

4.2 BALANCE CALIBRATION - All balances are checked daily using an in-house procedure. The weights used for testing are annually compared to master weights and are traceable to the National Institute of Standards and Technology (NIST). The NIST Traceability numbers are 692476 - Class 1 and 692476A - Class 2. The NIST test number is 822/260017-98. All analytical balances are calibrated every 4 months. The balances are calibrated with a class 1 and/or class 2 analytical weight set. These weights are tested annually by a NIST / NVLAP accredited calibration lab. The NIST test number is

4.3 THERMOMETER CALIBRATION - The thermometers used in the determination of the final densities are calibrated vs standard thermometer No. 903-2680 which was certified in accordance with the procedures outlined by ASTM E77-87 and NIST Monograph 150 using NIST Test Nos. and Std Nos.: 769543, 217368/769543, 217368/P14452, 176240/P14452, 176240. Thermometers which are not calibrated vs standard thermometer No. 903-2680 are traceable to NIST Identification

4.4 GLASSWARE CALIBRATION - An in-house procedure is used to calibrate all Class A Glassware used in the manufacturing and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES IN µg/mL - N/A

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:

ICP-MS, ICP-OES, FAAS, GFAA, XRF, and DCP

For the validation of analytical methods

For the preparation of "working reference samples"

For interference studies and the determination of correction coefficients

For detection limit and linearity studies

For additional intended uses, contact Technical Staff

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep **Tightly** sealed when not in use. Store and use at $20 \pm 4^\circ\text{C}$. Do **Not** pipette from the container. Do **Not** return portions removed from pipetting to container.

Element Specific Information - For specific information regarding any element: Contact technical staff.

HF Note: This standard should not be prepared or stored in glass.

8.0 HAZARDOUS INFORMATION - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 HOMOGENEITY - This solution was mixed according to in-house procedure IV-MPM-004 and is guaranteed to be homogeneous.

Initial:

Date:

WBH
10/17/06

METALS STANDARD DOCUMENTATION

Standard: ICP CCV/MCV Stock Standard
Date Received/Prepped: 10/17/2006
Date Expired: 4/10/2008
Manufacturer: CPI
Matrix: 5% HNO₃ = tr HF
Amount: 100 mL x 10

ME #: 0610005
By: WBH
Lot #: 06j053
Certificate: Y
NIST SRM: Varius
Storage: Room Temp

Component	Comment	Conc. Unit:
Ag		20 ppm
Al		100 ppm
As		100 ppm
B		50 ppm
Ba		100 ppm
bE		40 ppm
Ca		1000 ppm
Cd		50 ppm
Co		100 ppm
Cr		100 ppm
Cu		100 ppm
Fe		100 ppm
K		1000 ppm
Mg		1000 ppm
Mn		100 ppm
Mo		100 ppm
Na		1000 ppm
Ni		100 ppm
Pb		100 ppm
Sb		100 ppm
Se		100 ppm
Tl		100 ppm
V		100 ppm
Zn		100 ppm
Sr		20 ppm
Sn		20 ppm
Ti		20 ppm

**USA**

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Santa Rosa, CA 95403 800.878.7654
www.cpiinternational.com Fax 707.545.7901

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The Netherlands www.cpiinternational.com

*Innovative Solutions
in Analytical Science and
Technology*

Expiry: 4/10/2008

Certificate of Analysis

M70610005

Part Number: 4400-061003RH01
Lot Number: 06J053
Shelf Life: 18 months

MWH
Custom Multi
5% HNO₃ + tr HF

Concentrations in ug/mL $\pm$ 0.5%

Ag	20	K	1000	Sr	20
Al	100	Mg	1000	Sn	20
As	100	Mn	100	Ti	20
B	50	Mo	100		
Ba	100	Na	1000		
Be	40	Ni	100		
Ca	1000	Pb	100		
Cd	50	Sb	100		
Co	100	Se	100		
Cr	100	TL	100		
Cu	100	V	100		
Fe	100	Zn	100		

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed at 1000 μ g/mL by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against the National Institute of Standards and Technology's SRM 3100 series, NIST approved second source and/or gravimetrically.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for the stated shelf life from the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA, +31 20 638 05 97 in Europe or visit our web-site at www.cpiinternational.com.

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METALS STANDARD DOCUMENTATION

6/19/08

Standard: ICP/ICPMS LCS/SPIKE Solution **ME #:** 0606004
Date Received/Prepped: 6/19/2006 **By:** wbh
Date Expired: 12/13/2006 **Lot #:** 06F103
Manufacturer: CPI **Certificate:** Y
Matrix: 5% HNO₃ + 0.1% HF **NIST SRM:** 3100 Series
Amount: 10 x 100 mL **Storage:** Room Temp

Component	Comment	Conc. Unit:
Iron	CPI P/N: 4400-050314RH01	500 mg/L
Aluminum		200 mg/L
Barium		100 mg/L
Cobalt		100 mg/L
Chromium		100 mg/L
Copper		100 mg/L
Molybdenum		100 mg/L
Strontium		100 mg/L
Titanium		100 mg/L
Vanadium		100 mg/L
Zinc		100 mg/L
Tin		100 mg/L
Silver		50 mg/L
Boron		50 mg/L
Manganese		50 mg/L
Nickel		50 mg/L
Antimony		50 mg/L
Arsenic		20 mg/L
Cadmium		20 mg/L
Lead		20 mg/L
Selenium		20 mg/L
Thallium		20 mg/L
Uranium		20 mg/L
Beryllium		5 mg/L
Tin		100 mg/L

**USA**

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The Netherlands www.cpiinternational.com

*Innovative Solutions
in Analytical Science and
Technology*

Expiry: 12/13/2007

Certificate of Analysis

Part Number: 4400-050314RH01
Lot Number: 06F103
Shelf Life: 18 months

M70606004

MWH Labs
5% HNO₃ + 0.1% HF
#REF!

Concentrations in ug/mL $\pm$ 0.5%

Fe	500	B	50
Al	200	Mn	50
Ba	100	Ni	50
Co	100	Sb	50
Cr	100	As	20
Cu	100	Cd	20
Mo	100	Pb	20
Sr	100	Se	20
Ti	100	TL	20
V	100	Sn	100
Zn	100	Be	5
Ag	50	U	20

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed at 1000 μ g/mL by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against the National Institute of Standards and Technology's SRM 3100 series, NIST approved second source and/or gravimetrically.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for the stated shelf life from the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA, +31 20 638 05 97 in Europe or visit our web-site at www.cpiinternational.com.

Initial:

Wsn

Date:

5/8/07

METALS STANDARD DOCUMENTATION

Standard: ICP Spike solution
Date Received/Prepped: 5/9/2007
Date Expired: 10/1/2007
Manufacturer: MWH-WBH
Matrix: 2% HNO3
Amount: 100mL x 2

ME #: 0705006
By: WBH
Lot #:
Certificate: Y
NIST SRM: 3100 SERIES
Storage: Room Temp

Component	Comment	Conc. Unit:
AS	8.0mL ME0611005/100mL	80 ppm
PB	8.0mL ME0704013/100mL	80 ppm
SE	8.0mL ME0703001/100mL	80 ppm
TL	8.0mL ME0702006/100mL	80 ppm

Initial:

Date:

WBH
11/1/06

METALS STANDARD DOCUMENTATION

Standard: Arsenic Stock Std
Date Received/Prepped: 11/1/2006
Date Expired: 10/1/2007
Manufacturer: IV
Matrix: 1.4% HNO₃
Amount: 100mL

ME #: 0611005
By: WBH
Lot #: Y-AS02029
Certificate: Y
NIST SRM:
Storage: Room Temp

Component	Comment	Conc. Unit:
AS	Cat # CGAS1-1	1004 ppm

1.0 INORGANIC VENTURES is an ISO Guide 34:2000 registered Certified Reference Material (CRM) Manufacturer (Certificate #883-02). The certificate is designed and the data is determined in accordance with ISO Guide 31:2000 (Reference Materials-Contents of Certificates and Labels), ISO Guide 34:2000 "Quality System Guidelines for the Production of Reference Materials," and ISO Guide 35-1989 "Certification of Reference Materials - General and Statistical Principles."

2.0 DESCRIPTION OF CRM **1000 µg/mL Arsenic in 1.4% (abs) HNO₃**

Catalog Number: CGAS1-1, CGAS1-2, and CGAS1-5
Lot Number: **Y-AS02029**
Starting Material: As Polycrystalline lump
Starting Material Purity (%): 99.999055
Starting Material Lot No: 23115
Matrix: 1.4% (abs) HNO₃

MT0611005

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Concentration: 1004 ± 2 µg/mL 995 ± 2 µg/g

Certified Density: 1.009 g/mL (measured at 22° C)

The Certified Value is the instrument analysis value. The following equations are used in the calculation of the certified value and the uncertainty:

$$\text{Certified Value } (\bar{x}) = \frac{\sum x_1}{n}$$

($\bar{x}$) = mean

x₁ = individual results

n = number of measurements

$$\text{Uncertainty } (\pm) = \frac{2[\sum s_1^2]^{1/2}}{(n)}$$

Σs₁ = The summation of all significant estimated errors

(Most common are the errors from instrumental measurement

weighting, dilution to volume, and the fixed error reported on the NIST

SRM certificate of analysis.)

4.0 TRACEABILITY TO NIST AND VALUES OBTAINED BY INDEPENDENT METHODS

"Property of the result of a measurement or the value of a standard whereby it can be related to stated references, usually national or international standards, through an unbroken chain of comparisons all having stated uncertainties." (ISO VIM, 2nd ed., 1993, definition 6.10)

This IV product is Traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRMs are available, the term 'in-house std.' is specified.

4.1 Assay Method #1 **1004 ± 2 µg/mL 995 ± 2 µg/g (Avg 2 runs)**

ICP Assay NIST SRM 3103a Lot Number: 010713

Assay Method #2 **1003 ± 5 µg/mL 994 ± 5 µg/g**

Gravimetric NIST SRM Lot Number: See Sec. 4.2

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

Storage & Handling - Keep tightly sealed when not in use. Store and use at $20 \pm 4^\circ\text{C}$. Do not pipet from container. Do not return portions removed for pipetting to container.

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 74.9216; mix of +3 and +5; 6; H_3AsO_4 and HAsO_2

Chemical Compatibility - Arsenic has no cationic chemistry. It is soluble in HCl , HNO_3 , H_3PO_4 , H_2SO_4 and HF aqueous matrices water and NH_4OH . It is stable with most inorganic anions (forms arsenate when boiled with chromate) but many cationic metals form the insoluble arsenates under pH neutral conditions. When fluorinated and / or under acidic conditions arsenate formation is typically not a problem at moderate to low concentrations.

Stability - 2-100 ppb levels stable for months alone or mixed with other elements at equivalent levels in 1% HNO_3 / LDPE container. 1-10,000 ppm solutions chemically stable for years in 1-5% HNO_3 / LDPE container.

As Containing Samples (Preparation and Solution) - As_2O_3 (soluble in 1:1 H_2O / HNO_3); Oxides (the oxide exists in crystalline and amorphous forms where the amorphous form is more water soluble. The oxides typically dissolve in dilute acidic solutions when boiled); Minerals (One gram of powdered sample is fused in a NiO crucible with 10 grams of a 1:1 mix of K_2CO_3 and KNO_3 and the melt extracted with hot water); Organic Matrices (0.2 to 0.5 grams of the sample are fused with 15 grams of a 1:1 Na_2CO_3 / Na_2O_2 mix in a NiO crucible. The fuseate is extracted with water and acidified with HNO_3)

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Type	Interferences (underlined indicates severe)
ICP-OES 189.042 nm	0.05 / 0.005 $\mu\text{g/mL}$	1	atom	Cr
ICP-OES 193.696 nm	0.1 / 0.01 $\mu\text{g/mL}$	1	atom	V, Ge
ICP-OES 228.812 nm	0.1 / 0.01 $\mu\text{g/mL}$	1	atom	<u>Cd</u> , <u>Pt</u> , Ir, Co
ICP-MS 75 amu	20 ppt	n/a	M+	40Ar35Cl, 59Co16O, 36Ar38Ar1H, 38Ar37Cl, 6Ar39K, 150Nd2+, 150Sm2+

8.0 **HAZARDOUS INFORMATION** - Please refer to the enclosed Material Safety Data sheet for information regarding this CRM.

9.0 **HOMOGENEITY** - This solution was mixed according to procedure IV-MPM-004 and is guaranteed to be homogeneous.



10.0 QUALITY STANDARD DOCUMENTATION

10.1 **ISO 9001:2000 Quality Management System Registration** - QMI Certificate Number 010105

Recognized by:

Registrar Accreditation Board (ANSI-RAB)

Standards Council of Canada (SCC)

Dutch Council for Accreditation (RVA)

Entidad Mexicana de Acreditacion, a.c.(EMA)

Members of IQ Net International Certification Network:

Argentina (IRAM), Australia (QAS), Austria (ÖQS), Belgium (Avinter), Brazil (FCAV), Canada (QMI), Hong Kong (HKQAA), Columbia (ICONTEC), Czech Republic (CQS), Denmark (DS), Finland (SFS), France (AFAQ), Germany (DQS), Greece (ELOT), Hungary (MSZT), Ireland (NSAI), Israel (SII), Italy (CISQ), Japan (JQA), Korea (KSA-QA), Netherlands (KEMA), Norway (NCS), Poland (PCBC), Portugal (APCER), Singapore (PSB), Slovenia (SIQ), Spain (AENOR), Switzerland (SQS)

10.2 **ISO/IEC 17025 - 1999 "General Requirements for the Competence of Testing and Calibration"**

- Chemical Testing - Accredited A2LA Certificate Number 883.01

10.3 **ISO/IEC Guide 34 - 2000 "General Requirements for the Competence of Reference Material Producers"**

- Reference Materials Production - Accredited A2LA Certificate Number 883.02

A2LA Mutual Recognition Agreement Partners:

Australia (NATA), Austria (BmWA), Belgium (BELTEST) (BKO-OBE), Canada (SCC), Chinese Taipei (CNLA), Czech Republic (NAO), Denmark (DANAK), Finland (FINAS), France (COFRAC), Germany (DAR), Hong Kong (HKAS), Ireland (NAB), Italy (SIT) (SINAL), Japan (JAB) (JNLA), Republic of Korea (KOLAS), The Netherlands (RvA), New Zealand (IANZ), Norway (NA), Portugal (IPQ), Singapore (SAC-SINGLAS), Spain (ENAC), Sweden (SWEDAC), Switzerland (SAS), United Kingdom (UKAS) and United States (NVLAP) (ICBO ES)

10.4 **10CFR50 Appendix B - Nuclear Regulatory Commission**

- Domestic Licensing of Production and Utilization Facilities

10.5 **10CFR21 - Nuclear Regulatory Commission - Reporting Defects and Non-Compliance**

10.6 **MIL-STD-45662A (Obsolete/Observed)**

- 4.2 BALANCE CALIBRATION** - All balances are checked daily using in-house procedure number 6-IMM001. The weights used for testing are annually compared to Gerhart Scale Corporation's master weights and are traceable to the National Institute of Standards and Technology (NIST). The NIST Traceability numbers are 692476 - Class 1 and 692476A - Class 2. The NIST test number is 822/260017-98. All analytical balances are calibrated every 4 months by Gerhart Scale Corp. of South Amboy. The balances are calibrated with a class 1 and/or class 2 analytical weight set. These weights are tested annually by a NIST / NVLAP accredited calibration lab. The NIST test number is 822/260017-98.
- 4.3 THERMOMETER CALIBRATION** - The thermometers used in the determination of the final densities are calibrated vs standard thermometer No. 903-2680 which was certified in accordance with the procedures outlined by ASTM E77-87 and NIST Monograph 150 using NIST Test Nos. and Std Nos.: 769543, 217368/769543, 217368/P14452, 176240/P14452, 176240. The in-house procedure No. is 2-QC-001. Thermometers which are not calibrated vs standard thermometer No. 903-2680 are traceable to NIST Identification Nos. 92564, 119016, 471047 and NIST test report Nos. 811/258522, 811/2557078, and 236090.
- 4.4 GLASSWARE CALIBRATION** - In-house procedure 3-QC-002 is used to calibrate all Class A glassware used in the manufacture and quality control of CRM's.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP/MS AND ICP-OES IN µg/mL

CRM's solutions are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

<u>Q</u> Al 0.00038	<u>M</u> Dy < 0.01884	<u>Q</u> Li < 0.00002	<u>M</u> Pr < 0.00094	<u>M</u> Te < 0.09418
<u>Q</u> Sb < 0.01000	<u>M</u> Er < 0.01570	<u>M</u> Lu < 0.00126	<u>Q</u> Re < 0.01000	<u>M</u> Tb < 0.00094
<u>s</u> As	<u>M</u> Eu < 0.00942	<u>Q</u> Mg 0.00017	<u>M</u> Rh < 0.00314	<u>M</u> Tl < 0.00314
<u>M</u> Ba < 0.03139	<u>M</u> Gd < 0.00314	<u>Q</u> Mn 0.00005	<u>M</u> Rb < 0.00314	<u>M</u> Th < 0.00314
<u>M</u> Be < 0.00157	<u>M</u> Ga < 0.00314	<u>Q</u> Hg < 0.01200	<u>M</u> Ru < 0.00628	<u>M</u> Tm < 0.00126
<u>M</u> Bi < 0.00126	<u>M</u> Ge < 0.01884	<u>M</u> Mo < 0.00628	<u>M</u> Sm < 0.00314	<u>Q</u> Sn 0.00073
<u>Q</u> B < 0.01200	<u>M</u> Au < 0.00942	<u>M</u> Nd < 0.00628	<u>M</u> Sc < 0.03139	<u>M</u> Ti < 0.15697
<u>M</u> Cd < 0.00942	<u>M</u> Hf < 0.00628	<u>Q</u> Ni < 0.00200	<u>M</u> Se < 0.02511	<u>M</u> W < 0.03139
<u>Q</u> Ca 0.00206	<u>M</u> Ho < 0.00157	<u>Q</u> Nb < 0.00200	<u>Q</u> Si 0.00476	<u>M</u> U < 0.00628
<u>M</u> Ce < 0.01570	<u>M</u> In < 0.03139	<u>n</u> Os	<u>M</u> Ag < 0.00628	<u>M</u> V < 0.00628
<u>M</u> Cs < 0.00094	<u>M</u> Ir < 0.01570	<u>M</u> Pd < 0.01570	<u>Q</u> Na 0.00159	<u>M</u> Yb < 0.00314
<u>M</u> Cr < 0.01570	<u>Q</u> Fe < 0.00110	<u>Q</u> P < 0.00260	<u>M</u> Sr < 0.00157	<u>M</u> Y < 0.12558
<u>M</u> Co < 0.00942	<u>M</u> La < 0.00157	<u>M</u> Pt < 0.00628	<u>Q</u> S < 0.02500	<u>Q</u> Zn 0.00044
<u>M</u> Cu < 0.01884	<u>M</u> Pb < 0.00942	<u>Q</u> K 0.00048	<u>M</u> Ta < 0.02198	<u>M</u> Zr < 0.01570

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

For the calibration of analytical instruments including but not limited to the following:
 ICP-MS, ICP-OES, FAAS, GFAA, XRF, and DCP
 For the validation of analytical methods
 For the preparation of "working reference samples"
 For interference studies and the determination of correction coefficients
 For detection limit and linearity studies
 For additional intended uses, contact IV Technical Staff

11.0 DATE OF CERTIFICATION AND PERIOD OF VALIDITY

11.1 IV Shelf Life - The period of time during which the concentration of the analyte(s) in a properly packaged, unopened, and unused standard stored under environmentally controlled and monitored conditions will remain within the specified uncertainty range. Shelf life is limited primarily by transpiration (loss of water from the solution) and infrequently, by chemical instability. Transpiration studies (P-SP01020) of chemically-stable solutions performed at Inorganic Ventures Labs indicate a CRM shelf-life of four years for solutions packaged in 500-mL low density polyethylene bottles. When stored under special conditions that minimize transpiration and instability, the shelf life can be extended past this limit.

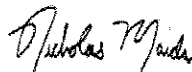
11.2 Expiration Date - The date after which a CRM should not be used. Routine laboratory use of a CRM increases transpiration losses and the chance of contamination which affect the integrity of the CRM and limit its useful life. Inorganic Ventures Labs concurs with state and federal regulatory agencies' recommendations that solution standards be assigned a one-year expiration date.

Certification Date: September 15, 2005

Expiration Date: **EXPIRES**
1st 2007

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

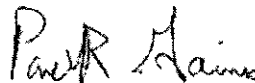
Certificate Prepared By: Nick Maida, QA Administrator



Certificate Approved By: Katalin Le, QC Manager



Certifying Officer: Paul Gaines, PhD., Technical Director



Initial:

Date:

WBH

4/16/07

METALS STANDARD DOCUMENTATION

Standard: Lead Stock Standard
Date Received/Prepped: 4/16/2007
Date Expired: 10/11/2008
Manufacturer: CPI
Matrix: 2% HNO₃
Amount: 100 mL

ME #: 0704013
By: WBH
Lot #: 07A097
Certificate: Y
NIST SRM: 3128
Room temp. storage

Component	Comment	Conc. Unit:
Pb	P/N S4400-1000281	1000 ppm



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Technology

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EUROPE

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1000 CS Amsterdam Fax +31 20 420 28 36
The Netherlands www.cpiinternational.com

CERTIFICATE OF ANALYSIS

P/N S4400-1000281

P/N 4400-1000281

Single-Element Lead Standard

Pb in 2% HNO₃

1000 ± 3 µg/mL

Lot # 07A097

Material Source: Lead Metal
Source Purity: 99.995 %
Specific Gravity: 1.009 @ 21 °C

This standard solution was prepared using high-purity metal, sub-boiled distilled nitric acid and 18-megohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3128. Trace impurities of the 1000 µg/mL standard were analyzed by ICP-MS.

ppb	DL	ppb	DL	ppb	DL	ppb	DL	ppb	DL
Al 10.3	0.1	Cu 58	0.1	Pb X	0.1	K ND	70	Tl 0.25	0.1
Sb ND	0.1	Dy ND	0.1	Li 2	0.4	Pr ND	0.1	Th ND	0.1
As ND	6	Er ND	0.1	Lu ND	1	Re ND	0.1	Tm ND	0.1
Ba 0.22	0.1	Eu ND	0.1	Mg 1.4	0.2	Rh IN	0.1	Sn ND	0.1
Be 0.58	0.1	Gd ND	0.1	Mn 3.8	1	Rb ND	0.1	Ti 0.58	0.1
Bi 0.7	0.1	Ga ND	0.1	Hg ND	0.2	Ru ND	0.1	W ND	0.1
B ND	4	Ge ND	0.1	Mo 0.17	0.1	Sm ND	0.1	U ND	0.1
Br ND	10	Au ND	0.1	Nd ND	0.1	Se ND	6	V ND	1
Cd ND	0.1	Hf ND	0.1	Ni 0.9	0.1	Si 31	8	Yb ND	0.1
Ca 25	7	Ho ND	0.1	Nb ND	0.1	Ag 6.1	0.1	Y ND	0.1
Ce ND	0.1	I 0.1	0.2	Os ND	0.1	Na 3.5	1	Zn 23	2
Cs 0.26	0.1	Ir ND	0.1	Pd ND	0.1	Sr ND	0.1	Zr INT	0.1
Cr ND	1	Fe ND	30	P ND	10	Ta ND	0.1		
Co ND	0.1	La ND	0.1	Pt ND	0.1	Te ND	0.1		

X=Major Element INT=Interference from Major Element DL=Detection Limit ND=None Detected

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the United States or +31 20 638 05 97 in Europe.



Initial:

Date:

W34
3/5/07**METALS STANDARD DOCUMENTATION**

Standard: Selenium Stock Standard
Date Received/Prepped: 3/5/2007
Date Expired: 8/22/2008
Manufacturer: CPI
Matrix: 2% HNO₃
Amount: 100 mL

ME #: 0703001
By: wbh
Lot #: 6.00E+228
Certificate: Y
NIST SRM: 3148
Storage: Room Temp

Component	Comment	Conc. Unit:
Se	P/N # S4400-1000491	1000 ppm

**USA**

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 www.cpiinternational.com Fax 707.545.7901

EUROPE

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 The Netherlands www.cpiinternational.com

Inno vative Solutions
 in Analytical Science and
 Technology

CERTIFICATE OF ANALYSIS**P/N 4400-1000491****P/N S4400-1000491**

Single-Element Selenium Standard

Se in 2% HNO₃

1000 ± 3 µg/mL

Lot # 06E228

M70703001

Material Source: Selenium Metal
 Source Purity: 99.99%
 Specific Gravity: 1.011 @ 21 °C

This standard solution was prepared using high-purity metal, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3148. Trace impurities of the 1000 µg/mL standard were analyzed by ICP-MS.

<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>
Al 1.8	0.1	Cu 0.4	0.1	Pb 0.3	0.1	K ND	70	Tl 3.6	0.1
Sb ND	0.1	Dy ND	0.1	Li ND	0.4	Pr ND	0.1	Th ND	0.1
As ND	6	Er ND	0.1	Lu ND	1	Re ND	0.1	Tm ND	0.1
Ba ND	0.1	Eu ND	0.1	Mg 1.1	0.2	Rh ND	0.1	Sn ND	0.1
Be ND	0.1	Gd ND	0.1	Mn ND	1	Rb ND	0.1	Ti ND	0.1
Bi ND	0.1	Ga ND	0.1	Hg ND	0.2	Ru ND	0.1	W ND	0.1
B ND	4	Ge ND	0.1	Mo 0.6	0.1	Sm ND	0.1	U ND	0.1
Br INT	10	Au ND	0.1	Nd ND	0.1	Se X	6	V ND	1
Cd 0.4	0.1	Hf ND	0.1	Ni 0.6	0.1	Si 40	8	Yb ND	0.1
Ca 5	7	Ho ND	0.1	Nb INT	0.1	Ag 0.8	0.1	Y ND	0.1
Ce ND	0.1	I 0.5	0.2	Os ND	0.1	Na 3.8	1	Zn ND	2
Cs ND	0.1	Ir ND	0.1	Pd ND	0.1	Sr ND	0.1	Zr INT	0.1
Cr ND	1	Fe ND	30	P ND	10	Ta ND	0.1		
Co ND	0.1	La ND	0.1	Pt ND	0.1	Te ND	0.1		

X=Major Element INT=Interference from Major Element DL=Detection Limit ND=None Detected

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA or +31 20 638 05 97 in Europe.

Initial:

Date:

WBY
2/20/07

METALS STANDARD DOCUMENTATION

Standard: Thallium 1000ppm Stock Std
Date Received/Prepped: 2/20/2007
Date Expired: 8/16/2008
Manufacturer: CPI
Matrix: 2% HNO₃
Amount: 100 mL

ME #: 0702006
By: WBH
Lot #: 06H213
Certificate: Y
NIST SRM: 3158
Room temp. storage

Component	Comment	Conc. Unit:
Tl	P/N S4400-1000581	1000 ppm

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M70702006

CERTIFICATE OF ANALYSIS

P/N 4400-1000581**P/N S4400-1000581**

Single Element Thallium Standard

Tl in 2% HNO₃

1000 ± 3 µg/mL

Lot # 06H213

Material Source: Thallium metal

Source Purity: 99.999%

Specific Gravity: 1.015 @ 21 °C

This standard solution was prepared using high-purity metal, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3158. Trace impurities of the 1000 µg/mL standard were analyzed by ICP-MS.

<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>	<u>Ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>
Al 13.3	0.1	Cu 9.3	0.1	Pb 41	0.1	K ND	70	Tl X	0.1
Sb ND	0.1	Dy ND	0.1	Li ND	0.4	Pr ND	0.1	Th ND	0.1
As ND	6	Er ND	0.1	Lu ND	1	Re ND	0.1	Tm ND	0.1
Ba 0.37	0.1	Eu ND	0.1	Mg 1.7	0.2	Rh ND	0.1	Sn ND	0.1
Be 0.67	0.1	Gd ND	0.1	Mn ND	1	Rb ND	0.1	Ti 0.45	0.1
Bi 0.12	0.1	Ga ND	0.1	Hg 0.16	0.2	Ru ND	0.1	W ND	0.1
B ND	4	Ge ND	0.1	Mo 0.21	0.1	Sm ND	0.1	U ND	0.1
Br ND	10	Au ND	0.1	Nd ND	0.1	Se ND	6	V ND	1
Cd 1.6	0.1	Hf ND	0.1	Ni 1.1	0.1	Si 46	8	Yb ND	0.1
Ca 51	7	Ho ND	0.1	Nb ND	0.1	Ag 0.3	0.1	Y ND	0.1
Ce ND	0.1	I 0.4	0.2	Os ND	0.1	Na 3.3	1	Zn 14.7	2
Cs 0.24	0.1	Ir ND	0.1	Pd ND	0.1	Sr ND	0.1	Zr ND	0.1
Cr ND	1	Fe ND	30	P 20	10	Ta ND	0.1		
Co ND	0.1	La ND	0.1	Pt ND	0.1	Te ND	0.1		

X=Major Element INT=Interference from Major Element DL=Detection Limit ND=None Detected

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654.

214

Initial:

Date:

wbh
4/10/07

METALS STANDARD DOCUMENTATION

Standard: ICP LCS/SPIKE STOCK STD
Date Received/Prepped: 4/10/2007
Date Expired: 10/4/2008
Manufacturer: CPI
Matrix: 5% HNO₃
Amount: 100mL

ME #: 0704005
By: wbh
Lot #: 07D019
Certificate: Y
NIST SRM: 3100 series
Storage: Room Temp

Component	Comment	Conc. Unit:
Ca	P/N # 4400-130309	10000 ppm
K	per 500mL DI	4000 ppm
Mg		4000 ppm
Na		10000 ppm

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CERTIFICATE OF ANALYSIS

P/N: 4400-130309
Lot Number: 07D019
Shelf Life: 18 months
Expiration Date: 10/04/2008

ME 0704005

MWH
Dat MW Standard
µg/mL ± 0.5% in 5% HNO₃

Na 10,000 Ca 10,000 Mg 4,000 K 4,000

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed at 1000µg/mL by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against the National Institute of Standards and Technology's SRM 3100 series, NIST approved second source and/or gravimetrically.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for the stated shelf life from the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

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Initial: W.S.
Date: 3/16/07

METALS STANDARD DOCUMENTATION

Standard: ICP MRL Working stock Solution ME #: 0703010
Date Received/Prepped: 3/16/2007 By: WBH
Date Expired: 9/16/2007 Lot #:
Manufacturer: MWH-WBH Certificate:
Matrix: 5% HNO₃ NIST SRM:
Amount: 2X100 mL Storage: Room Temp

Component	Comment	Conc. Unit:
Al	10mL ME0609001	5 ppm
Sb		5 ppm
As		10 ppm
Ba		2 ppm
Be		0.1 ppm
B		5 ppm
Cd		0.5 ppm
Ca		100 ppm
Cr		1 ppm
Co		5 ppm
Cu		1 ppm
Fe		2 ppm
Pb		2 ppm
Mg		10 ppm
Mn		0.2 ppm
Mo		2 ppm
Ni		2 ppm
K		100 ppm
Se		10 ppm
Ag		1 ppm
Na		100 ppm
Zn		2 ppm
V		0.2 ppm
Tl		10 ppm
Li		0.1 ppm
Ti		2 ppm
Sr		1 ppm
Sn		20 ppm

Initial: WBN
Date: 5/25/06

METALS STANDARD DOCUMENTATION

Standard: ICP MRL Stock Solution
Date Received/Prepped: 9/25/2006
Date Expired: 9/20/2007
Manufacturer: CPI
Matrix: 2% HNO₃ + tr HF
Amount: 100 mL

ME #: 0609001
By: WBH
Lot #: 061162
Certificate: Yes
NIST SRM: 3100 series
Storage: Room Temp

Component	Comment	Conc. Unit:
Al	Part # 4400-060915RH01	50 ppm
Sb		50 ppm
As		100 ppm
Ba		20 ppm
Be		1 ppm
B		50 ppm
Cd		5 ppm
Ca		1000 ppm
Cr		10 ppm
Co		50 ppm
Cu		10 ppm
Fe		20 ppm
Pb		20 ppm
Mg		100 ppm
Mn		2 ppm
Mo		20 ppm
Ni		20 ppm
K		1000 ppm
Se		100 ppm
Ag		10 ppm
Na		1000 ppm
Zn		20 ppm
V		2 ppm
Tl		10 ppm
Li		1 ppm
Ti		20 ppm
Sr		10 ppm
Sn		200 ppm

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Expiry: 9/20/2007

1470609001

Certificate of Analysis

Part Number: 4400-060915RH01
Lot Number: 061162
Shelf Life: 12 months

MWH
 Custom Standard
 2% HNO₃ + tr HF

Concentrations in ug/mL $\pm$ 0.5%

Al	50	Pb	20	Zn	20
Sb	50	Li	1	Ti	20
As	100	Mg	100	Sr	10
Ba	20	Mn	2	Sn	200
Be	1	Mo	20		
B	50	Ni	20		
Cd	5	K	1000		
Ca	1000	Se	100		
Cr	10	Ag	10		
Co	50	Na	1000		
Cu	10	TL	100		
Fe	20	V	2		

This standard solution was prepared using high-purity starting materials, high-purity acid (if required) and 18-megaohm de-ionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed at 1000µg/mL by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against the National Institute of Standards and Technology's SRM 3100 series, NIST approved second source and/or gravimetrically.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for the stated shelf life from the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA, +31 20 638 05 97 in Europe or visit our web-site at www.cpiinternational.com.

Initial: WBHDate: 5/16/07**METALS STANDARD DOCUMENTATION**

Standard: Interference Check Std A (ICSA)
Date Received/Prepped: 5/16/2007
Date Expired: 8/23/2007
Manufacturer: MWH-WBH
Matrix: 5% HNO₃
Amount: 500 mL

ME #: 0705012
By: WBH
Lot #: VARIOUS
Certificate:
NIST SRM:
Storage: Room Temp.

Component	Comment	Conc. Unit:
Al	25mL ME0603001/500mL	250 ppm
Ca		250 ppm
Fe		100 ppm
Mg		250 ppm

Initial: WBY
Date: 7/2/06

METALS STANDARD DOCUMENTATION

Standard: ICP ICESA Stock solution
Date Received/Prepped: 3/2/2006
Date Expired: 8/23/2007
Manufacturer: CPI
Matrix: 5% HNO₃
Amount: 500mL

ME #: 0603001
By: WBH
Lot #: 06A078
Certificate: Y
NIST SRM: various
Storage: Room Temp

Component	Comment	Conc. Unit:
AL	P/N 4400-INTA1-500	5000 mg/L
CA		5000 mg/L
FE		2000 mg/L
MG		2000 mg/L

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CERTIFICATE OF ANALYSIS

P/N 4400-INTA1-500

CLP Interferents A Solution
in 5% HNO₃

Lot # 06A078

M80603001

Material Source: Metals and Salts
Source Purity: 99.99+%

Elements and Concentrations: µg/mL

Al 5000 Ca 5000 Fe 2000 Mg 5000

This standard solution was prepared using high-purity reference materials, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against an independent source traceable to the National Institute of Standards and Technology's SRM 3100 series.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA or +31 20 638 05 97 in Europe.

Initial:

Date:

WBH

5/16/07

METALS STANDARD DOCUMENTATION

Standard: Interference Check Std AB (ICSAB)
Date Received/Prepped: 5/16/2007
Date Expired: 8/23/2007
Manufacturer: MWH-WBH
Matrix: 5% HNO₃
Amount: 500 mL

ME #: 0705013
By: WBH
Lot #: VARIOUS
Certificate:
NIST SRM:
Storage: Room Temp.

Component	Comment	Conc. Unit:
Al	25mL ME0603001/500mL	250 ppm
Ca		250 ppm
Fe		100 ppm
Mg		250 ppm
Ag	25mL ME0603002/500mL	0.5 ppm
Ba	2.5mL	0.25 ppm
Be	⑤ 5/16/07	0.25 ppm
Cd		0.5 ppm
Co		0.25 ppm
Cr		0.25 ppm
Cu		0.25 ppm
Mn		0.25 ppm
Ni		0.5 ppm
Pb		0.5 ppm
V		0.25 ppm
Zn		0.5 ppm

Initial: WBY
Date: 7/2/06

METALS STANDARD DOCUMENTATION

Standard: ICP ICSA Stock solution
Date Received/Prepped: 3/2/2006
Date Expired: 8/23/2007
Manufacturer: CPI
Matrix: 5% HNO₃
Amount: 500mL

ME #: 0603001
By: WBH
Lot #: 06A078
Certificate: Y
NIST SRM: various
Storage: Room Temp

Component	Comment	Conc. Unit:
AL	P/N 4400-INTA1-500	5000 mg/L
CA		5000 mg/L
FE		2000 mg/L
MG		2000 mg/L

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CERTIFICATE OF ANALYSIS

P/N 4400-INTA1-500

CLP Interferents A Solution
in 5% HNO₃

Lot # 06A078

ME0603001

Material Source: Metals and Salts
Source Purity: 99.99+%

Elements and Concentrations: µg/mL

Al 5000 Ca 5000 Fe 2000 Mg 5000

This standard solution was prepared using high-purity reference materials, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against an independent source traceable to the National Institute of Standards and Technology's SRM 3100 series.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA or +31 20 638 05 97 in Europe.

Initial:

Date:

WBH
3/2/26**METALS STANDARD DOCUMENTATION**

Standard: ICSB Stock Solution
Date Received/Prepped: 3/2/2006
Date Expired: 8/23/2007
Manufacturer: CPI
Matrix: 5% HNO₃
Amount: 100 mL

ME #: 0603002
By: WBH
Lot #: 04L149
Certificate: Y
NIST SRM: 3100 series
Storage: Room Temp

Component	Comment	Conc. Unit:
Ag	P/N 4400-INTB1-100	100 ppm
Ba		50 ppm
Be		50 ppm
Cd		100 ppm
Co		50 ppm
Cr		50 ppm
Mn		50 ppm
Ni		100 ppm
Pb		100 ppm
V		50 ppm
Zn		100 ppm
Sb		50 ppm

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MF0603002

CERTIFICATE OF ANALYSIS

P/N 4400-INTB1-100

CLP Analytes B Solution
in 5% HNO₃

Lot # 04L149

Material Source: Metals and Salts
Source Purity: 99.99+%

Elements and Concentrations: µg/mL

Ag	100	Ba	50	Be	50	Cd	100
Co	50	Cr	50	Cu	50	Mn	50
Ni	100	Pb	100	V	50	Zn	100

This standard solution was prepared using high-purity reference materials, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting materials were weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

Starting materials were analyzed by ICP-MS for trace impurities. The standard solution concentrations were certified instrumentally against an independent source traceable to the National Institute of Standards and Technology's SRM 3100 series.

Accuracy and stability are guaranteed to within plus or minus 0.5% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA or +31 20 638 05 97 in Europe.

Initial:

Date:

W37

5/9/07

METALS STANDARD DOCUMENTATION

Standard: ICP QC-25 1PPM
Date Received/Prepped: 5/9/2007
Date Expired: 11/9/2007
Manufacturer: MWH-DYH
Matrix: 5% HNO3
Amount: 500 mL

ME #: 0705005
By: DYH
Lot #: VARIOUS
Certificate:
NIST SRM:
Storage: Room Temp

Component	Comment	Conc. Unit:
Ag	5mL ME0608006+ 5mL ME0608007	1 ppm
Al	per 500mL DI	1
B		1
Ba		1
Be		1
Ca		1
Cd		1
Co		1
Cr		1
Cu		1
Fe		1
K		10
Li		1
Mg		1
Mn		1
Mo		1
Na		1
Ni		1
Pb		1
Sb		1
Se		1
Si		0.5
Sr		1
Ti		1
Tl		1
V		1
Zn		1

Initial:

Date:

WBN
8/31/06**METALS STANDARD DOCUMENTATION**

Standard: QC Check Std 7
Date Received/Prepped: 8/31/2006
Date Expired: 8/31/2007
Manufacturer: Crescent Chemical
Matrix: 5% HNO₃ + tr. HF
Amount: 100 mL

ME #: 0608007
By: WBH
Lot #: 062504K
Certificate: Y
NIST SRM: Various
Room temp. storage

Component	Comment	Conc. Unit:
Ag	QC-007.1	100 ppm
Al		100 ppm
B		100 ppm
Ba		100 ppm
K		1000 ppm
Na		100 ppm
Si		50 ppm

ME0608007

Laboratory Report - Certificate of Analysis

Environmental Multielement Standard

QC Check Standard 7

CATALOG NO: QC-007.1

CONTENTS: See Below

MATRIX: 5% HNO₃/tr. F⁻

LOT NO.: 062504K

This solution is intended for use as a calibration standard for plasma emission spectroscopy (ICP or DCP). It is a multielement solution, that was prepared gravimetrically to contain the elements/concentrations shown below.

In order to verify the concentration, the final solution was checked against NIST SRMS: 3101a, 3104a, 3107, 3141a, 3150, 3151, and 3152a.

Concentrations are given in µg/mL unless noted otherwise.

Ag 100	Al 100	B 100	Ba 100	K 1,000±5
Na 100	Si 50.0			

Crescent Chemical Co. Inc.

Julie M. MacIntosh
QA Manager

EXPIRES: August 2007

CRESCENT CHEMICAL CO, INC., waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

*Crescent Chemical Co, Inc., 2 Oval Drive, Islandia, NY 11749
(516) 348-0333 - Fax (516) 348-0913*

Initial:

Date:

WBH
8/31/06**METALS STANDARD DOCUMENTATION**

Standard: QC Check Std 21
Date Received/Prepped: 8/31/2006
Date Expired: 8/31/2007
Manufacturer: Crescent Chemical
Matrix: 5% HNO₃ + tr. Tartaric Acid
Amount: 100 mL

ME #: 0608006**By:** WBH**Lot #:** 062504J**Certificate:** Y**NIST SRM:** Various

Room temp. storage

Component	Comment	Conc. Unit:
AS	QC-021.1	100 ppm
Be		100 ppm
Ca		100 ppm
Cd		100 ppm
Co		100 ppm
Cr		100 ppm
Cu		100 ppm
Fe		100 ppm
Li		100 ppm
Mg		100 ppm
Mn		100 ppm
Mo		100 ppm
Ni		100 ppm
Pb		100 ppm
Sb		100 ppm
Se		100 ppm
Sr		100 ppm
Ti		100 ppm
Tl		100 ppm
V		100 ppm
Zn		100 ppm

ME0608006

Laboratory Report - Certificate of Analysis

Environmental Multielement Standard

QC Check Standard 21

CATALOG NO: QC-021.1

CONTENTS: See Below

MATRIX: 5% HNO₃/tr. F⁻/tr. Tartaric Acid

LOT NO.: 062504J

This solution is intended for use as a calibration standard for plasma emission spectroscopy (ICP or DCP). It is a multielement solution, that was prepared gravimetrically to contain the elements/concentrations shown below.

In order to verify the concentration, the final solution was checked against NIST SRMS: 3102a, 3103a, 3105a, 3108, 3109a, 3112a, 3113, 3114, 3126a, 3128, 3129a, 3131a, 3132, 3134, 3136, 3149, 3153a, 3158, 3162a, 3165, and 3168a.

Concentrations are given in µg/mL unless noted otherwise.

As 100	Be 100	Ca 100	Cd 100	Co 100
Cr 100	Cu 100	Fe 100	Li 100	Mg 100
Mn 100	Mo 100	Ni 100	Pb 100	Sb 100
Se 100	Sr 100	Ti 100	Tl 100	V 100
Zn 100				

Crescent Chemical Co. Inc.

Julie M. MacIntosh
QA Manager

EXPIRES: August 2007

CRESCENT CHEMICAL CO, INC., waives all responsibility for any damages resulting from the usage and/or implementation of the products/data described herein.

*Crescent Chemical Co, Inc., 2 Oval Drive, Islandia, NY 11749
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Initial:

Date:

WBH

8/5/07

METALS STANDARD DOCUMENTATION

Standard: ICP LINEARITY CHECK
Date Received/Prepped: 5/9/2007
Date Expired: 11/9/2007
Manufacturer: MWH-WBH
Matrix: 5% HNO₃
Amount: 500mL

ME #: 0705004
By: WBH
Lot #:
Certificate: Y
NIST SRM: 3100 SERIES
Storage: Room Temp

Component	Comment	Conc. Unit:
CA	15.0mL ME0702002/500mL	300 ppm
K	15.0mL ME0702005/500mL	300 ppm
MG	10.0mL ME0702004/500mL	200 ppm
NA	15.0mL ME0702003/500mL	300 ppm
FE	5.0mL ME0701008/500mL	100 ppm

Initial:

Date:

W 34
2/20/07

METALS STANDARD DOCUMENTATION

Standard: Potassium 10000ppm Stock Std
Date Received/Prepped: 2/20/2007
Date Expired: 8/16/2008
Manufacturer: CPI
Matrix: 1% HNO₃
Amount: 250 mL

ME #: 0702005
By: WBH
Lot #: 07B056
Certificate: Y
NIST SRM: 3141
Room temp. storage

Component	Comment	Conc. Unit:
K	P/N 4400-10M411	10000 ppm

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CERTIFICATE OF ANALYSIS

P/N 4400-10M411

P/N S4400-10M411

Single-Element Potassium Standard

K in 1% HNO₃

10,000 ± 30 µg/mL

Lot # 07B056

M20702005

Material Source: Potassium Nitrate (KNO₃)

Source Purity: 99.999%

Specific Gravity: 1.019 @ 21 °C

This standard solution was prepared using high-purity salt, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3141. Trace impurities of the standard solution at 1000µg/mL were analyzed by ICP-MS.

ppb	DL	ppb	DL	ppb	DL	ppb	DL	ppb	DL
Al 0.39	0.1	Cu 0.16	0.1	Pb ND	0.1	K X	70	Ti ND	0.1
Sb 0.34	0.1	Dy ND	0.1	Li ND	0.4	Pr ND	0.1	Th ND	0.1
As ND	6	Er ND	0.1	Lu ND	1	Re ND	0.1	Tm ND	0.1
Ba 0.14	0.1	Eu ND	0.1	Mg 2.6	0.2	Rh ND	0.1	Sn 0.17	0.1
Be ND	0.1	Gd ND	0.1	Mn 0.93	1	Rb 9.5	0.1	Ti ND	0.1
Bi ND	0.1	Ga ND	0.1	Hg ND	0.2	Ru ND	0.1	W ND	0.1
B ND	4	Ge ND	0.1	Mo ND	0.1	Sm ND	0.1	U ND	0.1
Br ND	10	Au ND	0.1	Nd ND	0.1	Se ND	6	V ND	1
Ca 82	7	Hf ND	0.1	Ni 0.4	0.1	Si 50	20	Yb ND	0.1
Ce ND	0.1	Ho ND	0.1	Nb ND	0.1	Ag ND	0.1	Y ND	0.1
Cs ND	0.1	I ND	0.2	Os ND	0.1	Na 19	1	Zn 2.9	1
Cr ND	1	Ir ND	0.1	Pd ND	0.1	Sr 1	0.1	Zr ND	0.1
Co ND	0.1	Fe ND	30	P 18	10	Ta ND	0.1		
		La ND	0.1	Pt ND	0.1	Te ND	0.1		

X=Major Element INT=Interference from Major Element ND=Not Detected DL=Detection Limit

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

For questions or comments please call 1-800-878-7654 in the USA or +31 20 638 05 97 in Europe.

235

Initial:

Date:

WBH

2/20/07

METALS STANDARD DOCUMENTATION

Standard: Magnesium 10000ppm Stock Std
Date Received/Prepped: 2/20/2007
Date Expired: 8/16/2008
Manufacturer: CPI
Matrix: 4% HNO3
Amount: 250 mL

ME #: 0702004
By: WBH
Lot #: 07B058
Certificate: Y
NIST SRM: 3131
Room temp. storage

Component	Comment	Conc. Unit:
Mg	P/N 4400-10M311	10000 ppm

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CERTIFICATE OF ANALYSIS**P/N 4400-10M311****P/N S4400-10M311**

Single-Element Magnesium Standard

Mg in 4% HNO₃
 10,000 ± 30 µg/mL

Lot # 07B058

M70702004

Material Source: Magnesium Metal
 Source Purity: 99.99%
 Specific Gravity: 1.056 @ 21 °C

This standard solution was prepared using high-purity metal, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3131. Trace impurities of the standard solution at 1000 µg/mL were analyzed by ICP-MS.

ppb	DL	ppb	DL	ppb	DL	ppb	DL	ppb	DL
Al 28	0.1	Cu 1.6	0.1	Pb 7.7	0.7	K ND	70	Tl 0.91	0.1
Sb ND	0.1	Dy ND	0.1	Li ND	0.4	Pr 0.28	0.1	Th ND	0.1
As ND	6	Er ND	0.1	Lu ND	1	Re ND	0.1	Tm ND	0.1
Ba 0.28	0.1	Eu ND	0.1	Mg X	0.2	Rh ND	0.1	Sn 0.14	0.1
Be ND	0.1	Gd 0.23	0.1	Mn 19.8	1	Rb ND	0.1	Ti ND	0.1
Bi ND	0.1	Ga 0.18	0.1	Hg ND	0.2	Ru ND	0.1	W ND	0.1
B ND	4	Ge ND	0.1	Mo ND	0.1	Sm ND	0.1	U ND	0.1
Br ND	10	Au ND	0.1	Nd 1.1	0.1	Se ND	6	V ND	1
Cd ND	0.1	Hf ND	0.1	Ni 1	0.1	Si 64	20	Yb ND	0.1
Ca ND	7	Ho ND	0.1	Nb ND	0.1	Ag 0.19	0.1	Y 0.2	0.1
Ce 2.1	0.1	I 1	0.2	Os ND	0.1	Na 7.2	1	Zn ND	1
Cs ND	0.1	Ir ND	0.1	Pd ND	0.1	Sr 0.19	0.1	Zr 0.29	0.1
Cr ND	1	Fe 80	30	P ND	10	Ta ND	0.1		
Co ND	0.1	La 0.76	0.1	Pt ND	0.1	Te ND	0.1		

X=Major Element INT=Interference from Major Element ND=Not Detected DL=Detection Limit

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

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Initial:

Date:

U31
2/20/07

METALS STANDARD DOCUMENTATION

Standard:	Sodium 10000ppm Stock Std	ME #: 0702003
Date Received/Prepped:	2/20/2007	By: WBH
Date Expired:	8/16/2008	Lot #: 07B057
Manufacturer:	CPI	Certificate: Y
Matrix:	1% HNO ₃	NIST SRM: 3152a
Amount:	250 mL	Room temp. storage

Component	Comment	Conc. Unit:
Na	P/N 4400-10M521	10000 ppm

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CERTIFICATE OF ANALYSIS

P/N 4400-10M521**P/N S4400-10M521****Single-Element Sodium Standard****Na in 1% HNO₃****10,000 ± 30 µg/mL****Lot # 07B057**

170702003

Material Source: Sodium Nitrate (NaNO₃)**Source Purity: 99.99%****Specific Gravity: 1.053 @ 21 °C**

This standard solution was prepared using high-purity salt, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3152a. Trace impurities of the standard solution at 1000µg/mL were analyzed by ICP-MS.

<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>
Al 1.5	0.1	Cu 0.45	0.1	Pb ND	0.1	K ND	70	Ti ND	0.1
Sb ND	0.1	Dy ND	0.1	Li ND	0.4	Pr ND	0.1	Th ND	0.1
As ND	6	Er ND	0.1	Lu ND	1	Re ND	0.1	Tm ND	0.1
Ba 0.13	0.1	Eu ND	0.1	Mg 2.3	0.2	Rh ND	0.1	Sn ND	0.1
Be ND	0.1	Gd ND	0.1	Mn ND	1	Rb ND	0.1	Ti ND	0.1
Bi ND	0.1	Ga ND	0.1	Hg ND	0.2	Ru ND	0.1	W ND	0.1
B ND	4	Ge ND	0.1	Mo ND	0.1	Sm ND	0.1	U ND	0.1
Br ND	10	Au ND	0.1	Nd ND	0.1	Se ND	6	V ND	1
Cd ND	0.1	Hf ND	0.1	Ni 0.4	0.1	Si 50	8	Yb ND	0.1
Ca 120	7	Ho ND	0.1	Nb ND	0.1	Ag ND	0.1	Y ND	0.1
Ce ND	0.1	I ND	0.2	Os ND	0.1	Na X	1	Zn 2.9	2
Cs ND	0.1	Ir ND	0.1	Pd ND	0.1	Sr 1	0.1	Zr ND	0.1
Cr ND	1	Fe ND	30	P 18	10	Ta ND	0.1		
Co ND	0.1	La ND	0.1	Pt ND	0.1	Te ND	0.1		

X=Major Element INT=Interference from Major Element ND=Not Detected DL=Detection Limit

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

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Initial:

W 37

Date:

2/20/07

METALS STANDARD DOCUMENTATION**Standard:** Calcium 10000ppm Stock Std**ME #:** 0702002**Date Received/Prepped:** 2/20/2007**By:** WBH**Date Expired:** 8/16/2008**Lot #:** 07B065**Manufacturer:** CPI**Certificate:** Y**Matrix:** 4% HNO₃**NIST SRM:** 3109a**Amount:** 250 mL

Room temp. storage

Component	Comment	Conc. Unit:
Ca	P/N 4400-10M91	10000 ppm



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CERTIFICATE OF ANALYSIS

P/N 4400-10M91

P/N S4400-10M91

170702602

Single-Element Calcium Standard

Ca in 4% HNO₃

10,000 ± 30 µg/mL

Lot # 07B065

Material Source: Calcium Carbonate (CaCO₃)

Source Purity: 99.997%

Specific Gravity: 1.035 @ 21 °C

This standard solution was prepared using high-purity salt, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3109a. Trace impurities of the standard solution at 1000 µg/mL were analyzed by ICP-MS.

ppb	DL	ppb	DL	ppb	DL	ppb	DL	ppb	DL
Al 7	0.1	Cu 1.7	0.1	Pb 0.23	0.1	K ND	70	Ti 0.27	0.1
Sb ND	0.1	Dy ND	0.1	Li ND	0.4	Pr ND	0.1	Th ND	0.1
As ND	6	Er ND	0.1	Lu ND	1	Re ND	0.1	Tm ND	0.1
Ba 1.5	0.1	Eu ND	0.1	Mg 38	0.2	Rh ND	0.1	Sn ND	0.1
Be ND	0.1	Gd ND	0.1	Mn ND	1	Rb ND	0.1	Ti ND	0.1
Bi ND	0.1	Ga ND	0.1	Hg ND	0.2	Ru ND	0.1	W ND	0.1
B 1.5	4	Ge ND	0.1	Mo ND	0.1	Sm ND	0.1	U ND	0.1
Br ND	10	Au ND	0.1	Nd ND	0.1	Se ND	6	V ND	1
Cd ND	0.1	Hf ND	0.1	Ni 3	0.1	Si 47	8	Yb ND	0.1
Ca X	7	Ho ND	0.1	Nb ND	0.1	Ag ND	0.1	Y ND	0.1
Ce ND	0.1	I 0.27	0.2	Os ND	0.1	Na 11.6	1	Zn 3.5	2
Cs ND	0.1	Ir ND	0.1	Pd ND	0.1	Sr 55	0.1	Zr ND	0.1
Cr ND	1	Fe INT	30	P ND	10	Ta ND	0.1		
Co INT	0.1	La 0.41	0.1	Pt ND	0.1	Te ND	0.1		

INT=Interference from Major Element ND=None Detected X=Major Element DL=Detection Limit

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

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Initial:

Date:

W34

1/22/07

METALS STANDARD DOCUMENTATION

Standard: FE 10000ppm Stock Std
Date Received/Prepped: 1/26/2007
Date Expired: 7/19/2008
Manufacturer: CPI
Matrix: 4% HNO₃
Amount: 100 mL

ME #: 701008
By: WBH
Lot #: 061143
Certificate:
NIST SRM: 3126a
Storage: Room Temp

Component	Comment	Conc. Unit:
Fe	PN4400-10M261	10000 PPM

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CERTIFICATE OF ANALYSIS**P/N 4400-10M261****P/N S4400-10M261****Single-Element Iron Standard****Fe in 4% HNO₃****10,000 ± 30 µg/mL****Lot # 06I143**

MTE0701008

Material Source: Iron Metal**Source Purity: 99.999%****Specific Gravity: 1.062 @ 21 °C**

This standard solution was prepared using high-purity metal, sub-boiled distilled nitric acid and 18-megaohm deionized water. The starting material was weighed to five significant figures and diluted in volumetric glassware calibrated to five significant figures.

The standard solution concentration was certified by ICP against the National Institute of Standards and Technology's SRM 3126a. Trace impurities of the standard solution at 1000 µg/mL were analyzed by ICP-MS.

<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>	<u>ppb</u>	<u>DL</u>
Al INT 0.1		Cu 6.4	0.1	Pb ND	0.1	K ND	70	Tl 0.18	0.1
Sb 0.35	0.1	Dy ND	0.1	Li ND	0.4	Pr ND	0.1	Th ND	0.1
As ND	6	Er ND	0.1	Lu ND	1	Re ND	0.1	Tm ND	0.1
Ba ND	0.1	Eu ND	0.1	Mg 1.3	0.2	Rh ND	0.1	Sn 0.67	0.1
Be ND	0.1	Gd ND	0.1	Mn INT	1	Rb ND	0.1	Ti 0.21	0.1
Bi ND	0.1	Ga 0.41	0.1	Hg ND	0.2	Ru ND	0.1	W 0.13	0.1
B ND	4	Ge INT	0.1	Mo 4.9	0.1	Sm ND	0.1	U ND	0.1
Br ND	10	Au ND	0.1	Nd ND	0.1	Se ND	6	V ND	1
Cd ND	0.1	Hf ND	0.1	Ni 9.3	0.1	Si INT	8	Yb ND	0.1
Ca 15	7	Ho ND	0.1	Nb ND	0.1	Ag ND	0.1	Y ND	0.1
Ce ND	0.1	I 0.34	0.2	Os ND	0.1	Na 8	1	Zn 8.6	2
Cs 0.34	0.1	Ir ND	0.1	Pd ND	0.1	Sr ND	0.1	Zr ND	0.1
Cr 3.3	1	Fe X	30	P 28	10	Ta ND	0.1		
Co 12	0.1	La ND	0.1	Pt ND	0.1	Te ND	0.1		

INT=Interference from Major Element ND=Not Detected X=Major Element DL=Detection Limit

Accuracy and stability are guaranteed to within plus or minus 0.3% of the certified value for 18 months after the date of shipment. The solution should be kept tightly capped and stored under normal laboratory conditions. See attached MSDS for proper handling information.

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LOG#	CLIENT	SX-#	MIX	VOLUME	COMMENTS
BLANK CCS LCSD	2007 DIGEST	06-18-07	SRF		HNO ₃ R# 100411 → (Cm) HCl R# 100412 → (2.5m) CCS / SPIKE ME 0606004 ME 0705006 → (0.5m) ME 0704005 → (250m)
2706120284 ↓ MS ↓ MSD	WILMINGTON PE ↓	070611 ↓	AD ↓	50ml → 50ml ↓	
2706130119 ↓ MS ↓ MSD	BADGER ↓	SDR ↓			MEL. ME 0703010 → (50ml)
2706120037 ↓ 0038 ↓ 0039 ↓ 0040	UTAH DWR/HW ↓	590099 490291 490145 490142			
2706120332 2706120610 ↓ 0615 ↓ 0621 ↓ 0623 ↓ 0630 ↓ 0631 ↓ 0632 ↓ 0633 ↓ 0634 ↓ 0636	KORRMCREE WRD ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	EFFLUENT 101452 101451 101885 101217 101197 101196 101195 101191 101192 101182			
2706130120 2706130286 2706130408	BADGER VICTOR VALLEY WRD	HODGES E. BRANCH 101220			
	200.7 DIGEST	06-18-07	SRF		

To Page No. _____

Witnessed & Understood by me,

Date

Invented by

Date

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Recorded by