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Level IV Data Package

MWH Group 226843

Method: EPA 200.7 CR

2801080538
2801080540

EPA 200.7/6010B QC Check List

Analyst CSK Analysis Date 1-9-08 Reviewer/Date 1-10-08

Instrumnet PerKin Elmer Optima 4300DV

✓ All sample analyzed within 6 month holding time

✓ All sample raw concentraction below the high standard or linear range o marked for dilution and rerun

Initial and closing QC
- ✓ ICV within +/- 5%
- ✓ Linearity check +/- 10%
- ✓ ICSAB +/- 20%
- ✓ QCS +/- 5%
- ✓ 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 60 TO 125%
- ✓ 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

NA QIR needed for failed QC

NA Special Det Code noted on the cover sheet

NA R value for multi point calibration is > 0.995

NA Proper MRL check ran for special low MRL samples

Reagent and Standards used for
Optima 4300 DV
Updated 01/02/08

Int: CSK
Date: 1-10-08

ICP SUMMARY SHEET

File ID: 080109
Date Started: 1/9/08
Analyst ID: csk

SAMPLE ID

LINEARITY	(16:09)	Wash	(16:20)	FILTERCHECK	(16:58)
2801080677	(17:11)	2801080273	(17:28)	2801080350	(17:33)
2801080365	(17:36)	2801080540	(17:40)	2801080634	(17:44)
2801080635	(17:49)	2801080636	(17:53)	2801080658	(17:57)
2801080659	(18:01)	2801080661	(18:16)	2801080663	(18:26)
2801080678	(18:31)	2801080679	(18:35)	2801080680	(18:39)
2801080493	(18:43)	2801080496	(18:47)	2801080497	(18:52)
2801080498	(19:02)	2801080510	(19:07)	2801080226	(19:24)
2801080516	(19:35)	2801080517	(19:50)	2801080434	(19:54)
2801080431	(19:58)	2801080433	(20:03)	2801080332	(20:07)
2801080333	(20:11)	2801080738	(20:15)	2801080739	(20:20)
2801080736	(20:24)	2801080760	(20:41)	2801080764	(20:44)
2801080765	(20:48)	2801080666	(20:51)	2801080042	(20:56)
2801080387	(21:00)	2801080642	(21:05)	Wash	(21:09)

COMMENT:

Analyst: CSK 1-10-08

Approved By: M 13 Jan 08

Peer Reviewed: BLR 1/10/08

BATCH NUMBER for 080109

Test Parameter:

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

Batch ID: 2801080677

2801080677	2801080273	2801080350
2801080365	2801080540	2801080634
2801080635	2801080636	2801080658
2801080659	2801080661	2801080663
2801080678	2801080679	2801080680
2801080493	2801080496	2801080497
2801080498	2801080510	

Batch ID: 2801080226

2801080226	2801080516	2801080517
2801080434	2801080431	2801080433
2801080332	2801080333	2801080738
2801080739	2801080736	2801080760
2801080764	2801080765	2801080666
2801080042	2801080387	2801080642

Landscape Summary File ID: 080109 Date: 1/9/08 Analyst: csk Page: 1

Sample ID	Time	SCA	YR	AG	AL	AS	B	BA	BE	CA	CD	CO
ICV	16:06	N/A	N/A	2.02/2	9.83/10	10.1/10	5.06	10.1/10	4.01/4	98.6/100	4.91/5	10.1
LINEARITY	16:09	N/A	N/A	-.037	-.006	-.054	0.019	0.002	-.000	288/300	0.001	0.003
ICSA	16:13	N/A	N/A	-.036	242/250	-.127	0.008	0.002	-.000	245/250	0.002	0.000
ICSAB	16:17	N/A	N/A	0.473	238/250	-.132	0.007	0.261/.25	0.247/.25	240/250	0.495/.5	0.240/.25
Wash	16:20	N/A	N/A	0.0002	0.0022	0.0014	0.0134	-.0001	0.0000	0.0010	0.0002	-.0000
QC-25 1ppm	16:26	N/A	N/A	0.9251	1.007	1.005	0.9766	1.119	1.016	1.033	1.010	1.125
CCV	16:31	N/A	N/A	1.02/1	4.90/5	4.99/5	2.57	5.24/5	2.10/2	49.6/50	2.00/2	5.30
ICB	16:37	N/A	N/A	0.0001	0.0045	0.0028	0.0177	-.0000	0.0000	0.0035	0.0003	-.0000
MRL	16:40	N/A	N/A	0.011/.01	0.056/.05	0.096/.1	0.067	0.022/.02	0.001/.001	1.02/1	0.005/.005	0.057/.05
MRL/20G	16:44	N/A	N/A	0.000(.01)	0.008(.05)	0.006(.1)	0.016	0.001(.02)	0.000(.001)	0.070(1)	0.001(.005)	0.003(.05)
MRL/10G	16:47	N/A	N/A	0.001(.01)	0.007(.05)	0.008(.1)	0.016	0.002(.02)	0.000(.001)	0.098(1)	0.001(.005)	0.005(.05)
MRL/2	16:51	N/A	N/A	0.005/.01	0.030/.05	0.049(.1)	0.036	0.011/.02	0.001/.001	0.523/1	0.003/.005	0.029/.05
MRL/5	16:54	N/A	N/A	0.002(.01)	0.007(.05)	0.020(.1)	0.019	0.004(.02)	0.000(.001)	0.220(1)	0.001(.005)	0.011(.05)
FILTERCHECK	16:58	N/A	N/A	N/A	0.0043	N/A	0.0079	0.0027	0.0001	0.1250	0.0002	0.0001
MBLANK	17:02	N/A	N/A	N/A	0.0053	N/A	0.0067	0.0001	0.0001	0.0132	0.0002	0.0004
LCS	17:05	N/A	N/A	N/A	1.93/2	N/A	0.503	1.03/1	0.053/.05	50.1/50	0.217/.2	1.07/1
LCSD	17:08	N/A	N/A	N/A	1.87/2	N/A	0.498	1.03/1	0.052/.05	50.0/50	0.215/.2	1.05/1
2801080677	17:11	N/A	N/A	N/A	0.0241	N/A	0.1243	0.0512	-.0001	38.99	-.0001	-.0004
2801080677MS	17:16	N/A	N/A	N/A	1.922	N/A	0.6075	1.056	0.0511	87.61	0.2150	1.023
CCV	17:19	N/A	N/A	N/A	4.93/5	N/A	2.57	5.27/5	2.10/2	49.9/50	2.11/2	5.34
CCB	17:22	N/A	N/A	N/A	-.0016	N/A	0.0127	-.0001	0.0000	0.0022	0.0004	-.0001
2801080677MSD	17:25	N/A	N/A	N/A	1.961	N/A	0.6109	1.067	0.0514	87.46	0.2159	1.031
2801080273	17:28	N/A	N/A	N/A	0.0134	N/A	0.1350	0.5494	-.0000	205.6	-.0005	-.0009
2801080350	17:33	N/A	N/A	N/A	-.0062	N/A	0.0093	0.0231	-.0001	32.00	-.0003	-.0001
2801080365	17:36	N/A	N/A	N/A	-.0009	N/A	0.0068	0.0003	-.0001	0.5189	0.0002	0.0002
2801080540	17:40	N/A	N/A	N/A	0.0266	N/A	3.870	0.0270	-.0007	410.1	0.0001	0.0053
2801080634	17:44	N/A	N/A	N/A	0.0162	N/A	0.1795	0.0258	-.0001	36.17	-.0002	-.0002
2801080635	17:49	N/A	N/A	N/A	0.0127	N/A	0.1825	0.0279	-.0001	35.04	-.0002	-.0002
2801080636	17:53	N/A	N/A	N/A	0.0128	N/A	0.0550	-.0000	-.0000	0.0032	0.0001	0.0000
2801080658	17:57	N/A	N/A	N/A	-.0042	N/A	0.0192	0.0035	-.0001	55.85	-.0005	-.0004
2801080659	18:01	N/A	N/A	N/A	-.0005	N/A	0.6471	0.0657	-.0001	56.23	-.0004	-.0004
CCV	18:05	N/A	N/A	N/A	4.98/5	N/A	2.59	5.28/5	2.14/2	50.6/50	2.11/2	5.37
CCB	18:09	N/A	N/A	N/A	-.0017	N/A	0.0189	-.0000	0.0000	0.0027	0.0002	0.0000
MCV	18:12	N/A	N/A	N/A	2.47/2.5	N/A	1.28	2.67/2.5	1.07/1	25.0/25	1.05/1	2.71
2801080661	18:16	N/A	N/A	N/A	-.0001	N/A	0.0240	0.0035	-.0001	55.57	-.0005	-.0001
2801080661MS	18:20	N/A	N/A	N/A	1.977	N/A	0.5130	1.018	0.0514	104.1	0.2163	1.027
2801080661MSD	18:23	N/A	N/A	N/A	1.933	N/A	0.5209	1.037	0.0520	105.5	0.2190	1.046
2801080663	18:26	N/A	N/A	N/A	0.0074	N/A	0.6426	0.0677	-.0001	60.95	-.0006	-.0003
2801080678	18:31	N/A	N/A	N/A	0.0898	N/A	0.1674	0.1187	-.0001	55.05	-.0006	-.0001
2801080679	18:35	N/A	N/A	N/A	0.1020	N/A	0.1684	0.1163	-.0002	54.86	-.0004	-.0005
2801080680	18:39	N/A	N/A	N/A	0.0273	N/A	0.1399	0.0450	-.0001	41.86	-.0004	-.0004
2801080493	18:43	N/A	N/A	N/A	0.0211	N/A	0.0725	0.0407	-.0001	66.02	-.0005	-.0003
2801080496	18:47	N/A	N/A	N/A	0.0031	N/A	0.0845	0.0461	-.0004	66.05	-.0003	-.0008
2801080497	18:52	N/A	N/A	N/A	-.0037	N/A	0.0751	0.0482	-.0001	63.22	-.0004	-.0004
CCV	18:56	N/A	N/A	N/A	5.06/5	N/A	2.55	5.21/5	2.09/2	50.7/50	2.08/2	5.30
CCB	18:59	N/A	N/A	N/A	0.0112	N/A	0.0146	-.0000	0.0000	0.0026	0.0004	-.0002
2801080498	19:02	N/A	N/A	N/A	0.0079	N/A	0.0905	0.0545	-.0004	62.22	-.0003	-.0005
2801080510	19:07	N/A	N/A	N/A	0.0061	N/A	0.0473	0.0611	-.0002	85.92	-.0006	-.0004
MBLANK	19:11	N/A	N/A	N/A	0.0099	N/A	0.0085	0.0000	0.0000	0.0139	0.0002	0.0001

Landscape Summary File ID: 080109 Date: 1/9/08 Analyst: csk

Sample ID	Time	SCA	YR	AG	AL	AS	B	BA	BE	CA	CD	CO
MRL	19:15	N/A	N/A	N/A	0.074/.05	N/A	0.058	0.022/.02	0.001/.001	1.04/1	0.007/.005	0.058/.05
LCS	19:18	N/A	N/A	N/A	2.00/2	N/A	0.502	1.04/1	0.053/.05	51.7/50	0.216/.2	1.07/1
LCSD	19:21	N/A	N/A	N/A	1.93/2	N/A	0.510	1.04/1	0.053/.05	51.5/50	0.219/.2	1.07/1
2801080226	19:24	N/A	N/A	N/A	0.0115	N/A	0.0149	0.0034	-.0001	55.86	-.0005	-.0004
2801080226MS	19:29	N/A	N/A	N/A	2.103	N/A	0.5238	1.069	0.0528	107.6	0.2255	1.081
2801080226MSD	19:32	N/A	N/A	N/A	2.013	N/A	0.5127	1.045	0.0517	105.4	0.2209	1.056
2801080516	19:35	N/A	N/A	N/A	-.0016	N/A	0.0442	0.0612	-.0001	86.14	-.0006	-.0003
CCV	19:39	N/A	N/A	N/A	5.03/5	N/A	2.55	5.25/5	2.09/2	50.3/50	2.10/2	5.35
CCB	19:42	N/A	N/A	N/A	0.0094	N/A	0.0119	-.0000	0.0000	0.0034	0.0003	-.0001
MCV	19:46	N/A	N/A	N/A	2.50/2.5	N/A	1.28	2.67/2.5	1.06/1	25.1/25	1.05/1	2.70
2801080517	19:50	N/A	N/A	N/A	0.0071	N/A	0.0506	0.0622	-.0001	86.36	-.0005	-.0001
2801080434	19:54	N/A	N/A	N/A	1.017	N/A	0.1088	0.1082	-.0002	87.59	-.0006	-.0007
2801080431	19:58	N/A	N/A	N/A	0.1997	N/A	0.1052	0.1096	-.0002	87.45	-.0008	-.0003
2801080433	20:03	N/A	N/A	N/A	0.1562	N/A	0.1075	0.1113	-.0002	88.20	-.0007	-.0005
2801080332	20:07	N/A	N/A	N/A	-.0032	N/A	0.1046	0.2159	-.0002	85.43	-.0007	-.0005
2801080333	20:11	N/A	N/A	N/A	0.0100	N/A	0.1031	0.2386	-.0002	85.95	-.0006	0.0001
2801080738	20:15	N/A	N/A	N/A	0.0154	N/A	0.0992	0.1164	-.0002	45.92	0.0000	-.0002
2801080739	20:20	N/A	N/A	N/A	0.0108	N/A	0.0955	0.1140	-.0002	45.38	-.0004	-.0002
2801080736	20:24	N/A	N/A	N/A	0.0102	N/A	0.0959	0.1215	-.0002	45.69	0.0001	-.0007
2801080736MS	20:28	N/A	N/A	N/A	2.006	N/A	0.5868	1.123	0.0513	93.55	0.2179	1.029
CCV	20:31	N/A	N/A	N/A	5.20/5	N/A	2.61	5.34/5	2.13/2	51.0/50	2.14/2	5.42
CCB	20:34	N/A	N/A	N/A	0.0011	N/A	0.0119	-.0000	-.0000	0.0041	0.0003	-.0001
2801080736MSD	20:37	N/A	N/A	N/A	2.004	N/A	0.5963	1.139	0.0521	95.43	0.2199	1.042
2801080760	20:41	N/A	N/A	N/A	0.0123	N/A	0.0670	0.1414	-.0001	44.53	0.0002	-.0004
2801080764	20:44	N/A	N/A	N/A	0.0034	N/A	0.0647	0.1344	-.0001	44.14	-.0003	-.0001
2801080765	20:48	N/A	N/A	N/A	0.0036	N/A	0.0649	0.1359	-.0001	44.28	0.0001	-.0004
2801080666	20:51	N/A	N/A	N/A	-.0113	N/A	3.921	0.0272	-.0008	414.9	0.0004	0.0053
2801080042	20:56	N/A	N/A	N/A	0.0162	N/A	0.1222	0.0595	-.0002	36.18	-.0004	-.0006
2801080387	21:00	N/A	N/A	N/A	0.0317	N/A	0.1655	0.1695	-.0002	76.53	-.0006	-.0005
2801080642	21:05	N/A	N/A	N/A	0.0062	N/A	0.2435	0.0890	-.0004	89.77	-.0004	-.0006
Wash	21:09	N/A	N/A	N/A	-.0036	N/A	0.0118	-.0000	0.0000	0.0026	0.0002	-.0001
ECV	21:12	N/A	N/A	N/A	5.20/5	N/A	2.57	5.24/5	2.12/2	51.2/50	2.10/2	5.30
ECB	21:16	N/A	N/A	N/A	0.0081	N/A	0.0162	-.0001	0.0000	0.0015	0.0003	0.0002

Landscape Summary File ID: 080109 Date: 1/9/08 Analyst: csk Page: 3

Sample ID	Time	CR	CU	FE	K	MG	MN	MO	NA	NI	PB	SB
ICV	16:06	10.1/10	10.1/10	9.84/10	98.1/100	98.5/100	10.1/10	10.1/10	98.1/100	10.1/10	10.1/10	9.91/10
LINEARITY	16:09	0.002	-.014	98.2	305	188	-.003	0.002	295/300	-.000	-.002	0.010
ICSA	16:13	-.000	-.015	95.9/100	0.249	232/250	-.003	0.000	0.119	-.001	-.037	0.002
ICSAB	16:17	0.251/.25	0.243/.25	95.9/100	0.131	227/250	0.254/.25	0.000	0.068	0.472/.5	0.458/.5	-.004
Wash	16:20	0.0001	0.0001	0.0062	0.0911	0.0024	-.0004	0.0002	0.0214	0.0000	0.0024	0.0031
QC-25 1ppm	16:26	1.080	1.062	1.023	9.635	1.056	1.130	1.047	1.029	1.134	1.132	0.9951
CCV	16:31	5.24/5	5.20/5	4.98/5	48.4/50	49.6/50	5.30/5	5.15/5	48.6/50	5.31/5	5.27/5	4.86/5
ICB	16:37	0.0000	-.0001	-.0023	0.0141	0.0022	-.0005	0.0007	0.0208	0.0001	0.0020	0.0058
MRL	16:40	0.011/.01	0.011/.01	0.017/.02	0.996/1	0.105/.1	0.002/.002	0.021/.02	1.01/1	0.023/.02	0.025/.02	0.048/.05
MRL/20G	16:44	0.001(.01)	0.001(.01)	-.001	0.025(1)	0.006(.1)	-.000	0.001(.02)	0.062(1)	0.001(.02)	0.002(.02)	0.006(.05)
MRL/10G	16:47	0.001(.01)	0.001(.01)	0.003(.02)	0.139(1)	0.010(.1)	-.000	0.002(.02)	0.115(1)	0.002(.02)	0.002(.02)	0.007(.05)
MRL/2	16:51	0.006/.01	0.005/.01	0.009(.02)	0.485(1)	0.053/.1	0.001(.002)	0.011/.02	0.514/1	0.011/.02	0.012/.02	0.026/.05
MRL/5	16:54	0.002(.01)	0.002(.01)	0.003(.02)	0.235(1)	0.023(.1)	0.000(.002)	0.004(.02)	0.213(1)	0.005(.02)	0.005(.02)	0.011(.05)
FILTERCHECK	16:58	-.0001	0.0011	-.0003	0.0524	0.0133	-.0005	0.0000	0.0228	0.0003	0.0006	N/A
MBLANK	17:02	0.0000	-.0002	-.0014	0.0246	0.0004	-.0005	-.0002	0.0120	0.0002	-.0003	N/A
LCS	17:05	1.03/1	1.03/1	4.93/5	19.5/20	19.9/20	0.530/.5	1.02/1	48.1/50	0.527/.5	1.07/1	N/A
LCSD	17:08	1.02/1	1.02/1	4.88/5	19.2/20	19.8/20	0.524/.5	1.00/1	47.5/50	0.521/.5	1.08/1	N/A
2801080677	17:11	0.0021	0.0037	0.0113	2.408	11.96	0.0031	0.0074	52.43	-.0002	-.0026	N/A
2801080677MS	17:16	1.007	0.9829	4.932	21.92	31.37	0.5224	0.9526	98.99	0.5037	1.044	N/A
CCV	17:19	5.30/5	5.21/5	5.03/5	47.8/50	49.0/50	5.30/5	5.17/5	47.5/50	5.32/5	5.34/5	N/A
CCB	17:22	-.0000	-.0000	-.0004	0.0185	0.0011	-.0005	0.0019	0.0202	0.0002	0.0004	N/A
2801080677MSD	17:25	1.013	0.9951	5.000	22.19	31.48	0.5269	0.9556	99.54	0.5033	1.046	N/A
2801080273	17:28	0.0002	0.0010	-.0120	31.11	52.67	0.0025	0.0037	252.1	-.0009	-.0073	N/A
2801080350	17:33	0.0001	0.0003	-.0052	1.054	15.88	-.0011	0.0011	8.531	-.0001	-.0027	N/A
2801080365	17:36	0.0001	-.0000	-.0056	0.0923	0.2704	-.0011	0.0000	0.8318	0.0002	0.0001	N/A
2801080540	17:40	0.0230	0.0041	0.0564	32.12	186.0	1.011	0.0729	%1365.8	0.0136	-.0118	N/A
2801080634	17:44	0.0019	0.0001	-.0022	3.758	8.626	-.0010	0.0033	50.55	0.0001	-.0014	N/A
2801080635	17:49	0.0005	0.0009	0.0087	3.659	9.698	-.0006	0.0050	50.92	0.0006	-.0024	N/A
2801080636	17:53	-.0002	-.0001	-.0030	0.0534	-.0002	-.0011	0.0000	0.4590	-.0002	-.0002	N/A
2801080658	17:57	0.0004	-.0001	-.0042	0.2859	5.125	-.0011	0.0016	2.669	-.0005	-.0018	N/A
2801080659	18:01	-.0004	0.0013	0.2226	5.552	27.18	0.0038	0.0009	55.47	-.0006	-.0025	N/A
CCV	18:05	5.25/5	5.20/5	5.09/5	48.9/50	49.5/50	5.32/5	5.18/5	48.4/50	5.34/5	5.36/5	N/A
CCB	18:09	0.0000	0.0001	-.0009	0.0703	0.0024	-.0006	0.0015	0.0595	0.0002	0.0022	N/A
MCV	18:12	2.64/2.5	2.63/2.5	2.49/2.5	23.8/25	24.7/25	2.71/2.5	2.58/2.5	23.8/25	2.68/2.5	2.68/2.5	N/A
2801080661	18:16	0.0007	0.0004	-.0011	0.3037	5.317	-.0010	0.0025	2.617	-.0004	-.0023	N/A
2801080661MS	18:20	1.015	0.9938	4.903	20.19	25.03	0.5214	0.9431	51.00	0.5078	1.045	N/A
2801080661MSD	18:23	1.026	1.004	4.917	20.23	25.33	0.5276	0.9704	52.04	0.5172	1.056	N/A
2801080663	18:26	-.0005	0.0074	0.0729	6.098	29.19	0.0014	0.0029	56.47	-.0001	-.0037	N/A
2801080678	18:31	0.0001	0.0032	-.0033	4.088	22.34	0.0046	0.0058	88.47	0.0003	-.0038	N/A
2801080679	18:35	0.0000	0.0061	0.0285	4.085	22.28	0.0049	0.0053	88.06	0.0006	-.0039	N/A
2801080680	18:39	0.0054	0.0136	0.0029	2.016	12.48	-.0003	0.0068	43.57	-.0005	-.0029	N/A
2801080493	18:43	0.0008	0.0055	0.0364	2.758	13.46	0.0015	0.0029	20.46	-.0008	-.0037	N/A
2801080496	18:47	0.0014	0.0124	0.0277	2.770	13.50	0.0030	0.0040	20.78	0.0000	-.0028	N/A
2801080497	18:52	0.0004	0.0052	0.0092	2.670	13.12	-.0005	0.0026	21.59	0.0009	-.0030	N/A
CCV	18:56	5.25/5	5.16/5	5.11/5	48.8/50	49.7/50	5.25/5	5.10/5	48.1/50	5.26/5	5.27/5	N/A
CCB	18:59	0.0002	-.0001	0.0006	0.0399	0.0002	-.0006	0.0012	0.0180	-.0002	0.0012	N/A
2801080498	19:02	0.0012	0.0031	0.0017	2.680	12.92	-.0004	0.0037	21.92	-.0010	-.0036	N/A
2801080510	19:07	0.0016	0.0026	0.0002	3.418	16.62	-.0008	0.0033	15.47	0.0002	-.0039	N/A
MBLANK	19:11	-.0000	0.0001	-.0009	0.0551	0.0003	-.0007	0.0002	0.0213	0.0003	-.0007	N/A

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Sample ID	Time	CR	CU	FE	K	MG	MN	MO	NA	NI	PB	SB
MRL	19:15	0.011/.01	0.011/.01	0.018/.02	0.968/1	0.103/.1	0.002/.002	0.021/.02	1.01/1	0.023/.02	0.022/.02	N/A
LCS	19:18	1.04/1	1.05/1	5.07/5	20.1/20	20.5/20	0.533/.5	1.02/1	49.2/50	0.525/.5	1.09/1	N/A
LCSD	19:21	1.04/1	1.05/1	4.93/5	19.4/20	20.0/20	0.535/.5	1.02/1	49.0/50	0.531/.5	1.09/1	N/A
2801080226	19:24	0.0010	0.0003	-.0032	0.3385	5.327	-.0011	0.0018	3.468	-.0006	-.0020	N/A
2801080226MS	19:29	1.047	1.026	5.264	21.58	26.48	0.5367	1.016	54.82	0.5302	1.107	N/A
2801080226MSD	19:32	1.025	1.004	5.052	20.88	25.70	0.5264	0.9952	53.04	0.5190	1.083	N/A
2801080516	19:35	0.0016	0.0038	-.0011	3.451	16.69	-.0008	0.0049	15.48	-.0004	-.0053	N/A
CCV	19:39	5.26/5	5.21/5	5.00/5	48.7/50	49.4/50	5.31/5	5.13/5	48.1/50	5.28/5	5.29/5	N/A
CCB	19:42	0.0001	-.0000	-.0012	0.0331	0.0017	-.0007	0.0016	0.0182	0.0002	0.0000	N/A
MCV	19:46	2.64/2.5	2.63/2.5	2.50/2.5	23.8/25	24.8/25	2.71/2.5	2.58/2.5	23.8/25	2.69/2.5	2.70/2.5	N/A
2801080517	19:50	0.0020	0.0065	-.0003	3.545	16.75	-.0006	0.0043	15.56	-.0007	-.0040	N/A
2801080434	19:54	-.0004	0.0035	0.0136	4.200	36.27	0.0029	0.0021	52.99	-.0003	-.0038	N/A
2801080431	19:58	-.0003	0.0018	-.0016	4.189	36.23	0.0045	0.0026	53.31	-.0001	-.0054	N/A
2801080433	20:03	-.0004	0.0016	0.0003	4.184	36.50	0.0047	0.0018	53.74	-.0005	-.0058	N/A
2801080332	20:07	-.0001	0.0052	-.0008	5.781	27.60	-.0002	0.0034	42.89	0.0014	-.0047	N/A
2801080333	20:11	-.0000	0.0066	1.105	5.735	27.72	0.4430	0.0032	42.17	0.0016	-.0041	N/A
2801080738	20:15	-.0000	0.0034	-.0041	2.086	6.899	0.0038	0.0152	50.62	-.0001	-.0018	N/A
2801080739	20:20	-.0002	0.0033	-.0057	2.091	6.824	-.0011	0.0165	50.07	-.0004	-.0018	N/A
2801080736	20:24	-.0003	0.0013	0.0236	2.099	6.871	0.0856	0.0156	49.16	-.0006	-.0029	N/A
2801080736MS	20:28	1.008	0.9868	5.043	21.39	26.21	0.5979	0.9631	95.50	0.5068	1.064	N/A
CCV	20:31	5.38/5	5.29/5	5.15/5	49.4/50	50.2/50	5.40/5	5.24/5	48.8/50	5.39/5	5.41/5	N/A
CCB	20:34	0.0002	0.0000	0.0005	0.0451	-.0004	-.0007	0.0021	0.0207	-.0000	0.0015	N/A
2801080736MSD	20:37	1.024	1.005	5.030	22.19	27.05	0.6053	0.9730	97.05	0.5096	1.057	N/A
2801080760	20:41	0.0001	0.0025	0.0437	2.179	3.958	0.0635	0.0081	32.70	-.0005	-.0023	N/A
2801080764	20:44	-.0002	0.0022	-.0052	2.120	3.947	0.0007	0.0074	33.28	0.0001	-.0011	N/A
2801080765	20:48	-.0003	0.0010	-.0047	2.152	3.912	0.0103	0.0069	33.52	-.0002	-.0029	N/A
2801080666	20:51	0.0234	0.0040	0.0587	32.97	188.7	1.017	0.0734	%1360.2	0.0139	-.0118	N/A
2801080042	20:56	0.0174	0.0040	-.0066	4.119	22.77	-.0010	0.0031	67.32	-.0005	-.0027	N/A
2801080387	21:00	-.0004	0.0010	0.0229	5.019	29.51	0.0012	0.0054	97.96	0.0002	-.0052	N/A
2801080642	21:05	0.0093	0.0018	-.0059	4.082	25.39	-.0011	0.0078	52.81	-.0003	-.0051	N/A
Wash	21:09	0.0001	-.0002	-.0024	0.0078	-.0001	-.0007	0.0005	0.1275	0.0000	0.0004	N/A
ECV	21:12	5.27/5	5.23/5	5.14/5	49.4/50	50.3/50	5.33/5	5.14/5	49.0/50	5.28/5	5.30/5	N/A
ECB	21:16	0.0002	-.0001	-.0002	0.0115	-.0005	-.0006	0.0013	0.0851	0.0001	0.0016	N/A

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Sample ID	Time	SE	TL	V	ZN	ALX	BEX
ICV	16:06	10.1/10	10.1/10	10.1/10	10.0/10	10.0/10	4.01/4
LINEARITY	16:09	0.066	0.023	-.004	0.025	0.004	-.000
ICSA	16:13	0.043	0.016	-.004	0.018	N/A	-.000
ICSAB	16:17	0.050(1)	0.012	0.245/.25	0.539/.5	N/A	0.247/.25
Wash	16:20	-.0002	0.0023	0.0002	0.0003	0.0009	0.0000
QC-25 1ppm	16:26	0.9959	1.145	1.040	1.082	0.9790	1.016
CCV	16:31	5.12/5	5.40/5	5.19/5	5.30/5	5.05/5	2.10/2
ICB	16:37	-.0032	0.0029	-.0000	0.0005	0.0007	0.0000
MRL	16:40	0.103/.1	0.123/.1	0.002/.002	0.023/.02	0.051/.05	0.001/.001
MRL/20G	16:44	0.007(.1)	0.007(.1)	0.000(.002)	0.009(.02)	0.004(.05)	0.000(.001)
MRL/10G	16:47	0.008(.1)	0.015(.1)	0.001(.002)	0.004(.02)	0.006(.05)	0.000(.001)
MRL/2	16:51	0.053/.1	0.063/.1	0.001/.002	0.015/.02	0.026/.05	0.001/.001
MRL/5	16:54	0.022(.1)	0.025(.1)	0.000(.002)	0.009(.02)	0.011(.05)	0.000(.001)
FILTERCHECK	16:58	N/A	N/A	-.0000	0.3370	N/A	N/A
MBLANK	17:02	N/A	N/A	-.0000	0.0050	N/A	N/A
LCS	17:05	N/A	N/A	1.03/1	1.06/1	N/A	N/A
LCSD	17:08	N/A	N/A	1.02/1	1.05/1	N/A	N/A
2801080677	17:11	N/A	N/A	0.0087	0.1220	N/A	N/A
2801080677MS	17:16	N/A	N/A	1.008	1.181	N/A	N/A
CCV	17:19	N/A	N/A	5.19/5	5.31/5	N/A	N/A
CCB	17:22	N/A	N/A	0.0000	0.0007	N/A	N/A
2801080677MSD	17:25	N/A	N/A	1.014	1.179	N/A	N/A
2801080273	17:28	N/A	N/A	0.0010	-.0027	N/A	N/A
2801080350	17:33	N/A	N/A	0.0004	-.0023	N/A	N/A
2801080365	17:36	N/A	N/A	0.0000	-.0012	N/A	N/A
2801080540	17:40	N/A	N/A	0.0478	-.0001	N/A	N/A
2801080634	17:44	N/A	N/A	0.0050	-.0015	N/A	N/A
2801080635	17:49	N/A	N/A	0.0053	0.0031	N/A	N/A
2801080636	17:53	N/A	N/A	0.0000	-.0011	N/A	N/A
2801080658	17:57	N/A	N/A	0.0014	-.0025	N/A	N/A
2801080659	18:01	N/A	N/A	0.0004	-.0014	N/A	N/A
CCV	18:05	N/A	N/A	5.20/5	5.34/5	N/A	N/A
CCB	18:09	N/A	N/A	0.0000	0.0007	N/A	N/A
MCV	18:12	N/A	N/A	2.60/2.5	2.67/2.5	N/A	N/A
2801080661	18:16	N/A	N/A	0.0017	-.0020	N/A	N/A
2801080661MS	18:20	N/A	N/A	1.017	1.070	N/A	N/A
2801080661MSD	18:23	N/A	N/A	1.026	1.090	N/A	N/A
2801080663	18:26	N/A	N/A	0.0005	0.0337	N/A	N/A
2801080678	18:31	N/A	N/A	0.0059	0.7040	N/A	N/A
2801080679	18:35	N/A	N/A	0.0057	0.7161	N/A	N/A
2801080680	18:39	N/A	N/A	0.0077	0.1019	N/A	N/A
2801080493	18:43	N/A	N/A	0.0030	0.0095	N/A	N/A
2801080496	18:47	N/A	N/A	0.0038	0.0182	N/A	N/A
2801080497	18:52	N/A	N/A	0.0034	0.0261	N/A	N/A
CCV	18:56	N/A	N/A	5.14/5	5.26/5	N/A	N/A
CCB	18:59	N/A	N/A	0.0000	0.0007	N/A	N/A
2801080498	19:02	N/A	N/A	0.0041	-.0006	N/A	N/A
2801080510	19:07	N/A	N/A	0.0036	0.0342	N/A	N/A
MBLANK	19:11	N/A	N/A	0.0001	0.0048	N/A	N/A

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Sample ID	Time	SE	TL	V	ZN	ALX	BEX
MRL	19:15	N/A	N/A	0.002/.002	0.028/.02	N/A	N/A
LCS	19:18	N/A	N/A	1.03/1	1.06/1	N/A	N/A
LCSD	19:21	N/A	N/A	1.04/1	1.07/1	N/A	N/A
2801080226	19:24	N/A	N/A	0.0016	-.0021	N/A	N/A
2801080226MS	19:29	N/A	N/A	1.047	1.123	N/A	N/A
2801080226MSD	19:32	N/A	N/A	1.026	1.091	N/A	N/A
2801080516	19:35	N/A	N/A	0.0038	0.0025	N/A	N/A
CCV	19:39	N/A	N/A	5.19/5	5.29/5	N/A	N/A
CCB	19:42	N/A	N/A	0.0001	0.0006	N/A	N/A
MCV	19:46	N/A	N/A	2.60/2.5	2.68/2.5	N/A	N/A
2801080517	19:50	N/A	N/A	0.0040	0.0031	N/A	N/A
2801080434	19:54	N/A	N/A	0.0020	0.0047	N/A	N/A
2801080431	19:58	N/A	N/A	0.0021	-.0012	N/A	N/A
2801080433	20:03	N/A	N/A	0.0020	0.0002	N/A	N/A
2801080332	20:07	N/A	N/A	0.0005	0.0002	N/A	N/A
2801080333	20:11	N/A	N/A	0.0006	0.0014	N/A	N/A
2801080738	20:15	N/A	N/A	0.0003	0.0002	N/A	N/A
2801080739	20:20	N/A	N/A	0.0003	0.0005	N/A	N/A
2801080736	20:24	N/A	N/A	0.0003	-.0016	N/A	N/A
2801080736MS	20:28	N/A	N/A	1.003	1.082	N/A	N/A
CCV	20:31	N/A	N/A	5.27/5	5.39/5	N/A	N/A
CCB	20:34	N/A	N/A	-.0000	0.0007	N/A	N/A
2801080736MSD	20:37	N/A	N/A	1.020	1.088	N/A	N/A
2801080760	20:41	N/A	N/A	0.0005	0.0007	N/A	N/A
2801080764	20:44	N/A	N/A	0.0002	-.0018	N/A	N/A
2801080765	20:48	N/A	N/A	0.0003	-.0002	N/A	N/A
2801080666	20:51	N/A	N/A	0.0477	-.0004	N/A	N/A
2801080042	20:56	N/A	N/A	0.0266	-.0019	N/A	N/A
2801080387	21:00	N/A	N/A	0.0030	-.0023	N/A	N/A
2801080642	21:05	N/A	N/A	0.0070	-.0014	N/A	N/A
Wash	21:09	N/A	N/A	0.0000	0.0003	N/A	N/A
ECV	21:12	N/A	N/A	5.20/5	5.29/5	N/A	N/A
ECB	21:16	N/A	N/A	-.0000	0.0005	N/A	N/A

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Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
ICV	1/9/08	16:06	1	10.053	10.1	95-105	100%
LINEARITY	1/9/08	16:09	1	0.0017	.0017		
ICSA	1/9/08	16:13	1	-0.0005	ND	80-120	
ICSAB	1/9/08	16:17	1	.25142	.251	80-120	100%
Wash	1/9/08	16:20	1	0.0001	0.0000		
QC-25 1ppm	1/9/08	16:26	1	1.0795	1.1		
CCV	1/9/08	16:31	1	5.2392	5.24	90-110	104%
ICB	1/9/08	16:37	1	0.0000	0		
MRL	1/9/08	16:40	1	0.0111	.0111	50-150	110%
MRL/20G	1/9/08	16:44	1	0.0008	0.0007		
MRL/10G	1/9/08	16:47	1	0.0010	0.0009		
MRL/2	1/9/08	16:51	1	0.0056	.0056		
MRL/5	1/9/08	16:54	1	0.0022	.0022		
FILTERCHECK	1/9/08	16:58	1	-0.0001	ND		
MBLANK	1/9/08	17:02	1	0.0000	0.0000		
LCS	1/9/08	17:05	1	1.0301	1.03	85-115	103%
LCSD	1/9/08	17:08	1	1.0202	1.02	85-115	102%
2801080677	1/9/08	17:11	1	0.0021	.0021		
2801080677MS	1/9/08	17:16	1	1.0072	1.01	[1.005]	100%
CCV	1/9/08	17:19	1	5.3024	5.3	90-110	106%
CCB	1/9/08	17:22	1	-0.0000	ND		
2801080677MSD	1/9/08	17:25	1	1.0126	1.01	[1.011]	101%
2801080677T	1/9/08	17:25	1		1.00	70 - 130	
2801080273	1/9/08	17:28	1	0.0002	0.0001		
2801080350	1/9/08	17:33	1	0.0001	0.0001		
2801080365	1/9/08	17:36	1	0.0001	0.0000		
2801080540	1/9/08	17:40	1	0.0230	.023		
2801080634	1/9/08	17:44	1	0.0019	.0019		
2801080635	1/9/08	17:49	1	0.0005	0.0004		
2801080636	1/9/08	17:53	1	-0.0002	ND		
2801080658	1/9/08	17:57	1	0.0004	0.0003		
2801080659	1/9/08	18:01	1	-0.0004	ND		
CCV	1/9/08	18:05	1	5.2493	5.25	90-110	104%
CCB	1/9/08	18:09	1	0.0000	0.0000		
MCV	1/9/08	18:12	1	2.6408	2.64	90-110	105%
2801080661	1/9/08	18:16	1	0.0007	0.0006		
2801080661MS	1/9/08	18:20	1	1.0149	1.01	[1.015]	101%
2801080661MSD	1/9/08	18:23	1	1.0260	1.03	[1.026]	102%
2801080661T	1/9/08	18:23	1		1.00	70 - 130	
2801080663	1/9/08	18:26	1	-0.0005	ND		
2801080678	1/9/08	18:31	1	0.0001	0.0000		
2801080679	1/9/08	18:35	1	0.0000	0.0000		
2801080680	1/9/08	18:39	1	0.0054	.0054		
2801080493	1/9/08	18:43	1	0.0008	0.0008		
2801080496	1/9/08	18:47	1	0.0014	.0014		
2801080497	1/9/08	18:52	1	0.0004	0.0003		

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CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
CCV	1/9/08	18:56	1	5.2496	5.25	90-110	104%
CCB	1/9/08	18:59	1	0.0002	0.0002		
2801080498	1/9/08	19:02	1	0.0012	.0012		
2801080510	1/9/08	19:07	1	0.0016	.0016		
MBLANK	1/9/08	19:11	1	-0.0000	ND		
MRL	1/9/08	19:15	1	0.0109	.0109	50-150	108%
LCS	1/9/08	19:18	1	1.0382	1.04	85-115	103%
LCSD	1/9/08	19:21	1	1.0417	1.04	85-115	104%
2801080226	1/9/08	19:24	1	0.0010	0.0009		
2801080226MS	1/9/08	19:29	1	1.0469	1.05	[1.047]	104%
2801080226MSD	1/9/08	19:32	1	1.0246	1.02	[1.025]	102%
2801080226T	1/9/08	19:32	1		1.00	70 - 130	
2801080516	1/9/08	19:35	1	.00157	.0016		
CCV	1/9/08	19:39	1	5.2591	5.26	90-110	105%
CCB	1/9/08	19:42	1	0.0001	0.0000		
MCV	1/9/08	19:46	1	2.6408	2.64	90-110	105%
2801080517	1/9/08	19:50	1	0.0020	.002		
2801080434	1/9/08	19:54	1	-0.0004	ND		
2801080431	1/9/08	19:58	1	-0.0003	ND		
2801080433	1/9/08	20:03	1	-0.0004	ND		
2801080332	1/9/08	20:07	1	-0.0001	ND		
2801080333	1/9/08	20:11	1	-0.0000	ND		
2801080738	1/9/08	20:15	1	-0.0000	ND		
2801080739	1/9/08	20:20	1	-0.0002	ND		
2801080736	1/9/08	20:24	1	-0.0003	ND		
2801080736MS	1/9/08	20:28	1	1.0084	1.01	[1.008]	100%
CCV	1/9/08	20:31	1	5.3767	5.38	90-110	107%
CCB	1/9/08	20:34	1	0.0002	0.0001		
2801080736MSD	1/9/08	20:37	1	1.0240	1.02	[1.024]	102%
2801080736T	1/9/08	20:37	1		1.00	70 - 130	
2801080760	1/9/08	20:41	1	0.0001	0.0000		
2801080764	1/9/08	20:44	1	-0.0002	ND		
2801080765	1/9/08	20:48	1	-0.0003	ND		
2801080666	1/9/08	20:51	1	0.0234	.023		
2801080042	1/9/08	20:56	1	0.0174	.017		
2801080387	1/9/08	21:00	1	-0.0004	ND		
2801080642	1/9/08	21:05	1	0.0093	.0093		
Wash	1/9/08	21:09	1	0.0001	0.0000		
ECV	1/9/08	21:12	1	5.2661	5.27	90-110	105%
ECB	1/9/08	21:16	1	.00016	0.0001		

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	156.0 kPa	0.54 L/min

==========

1/9/2008 13:50:31 Hg ReAlign... Actual peak offset (nm): 0.003
Drift (nm): -0.000 Slit adjustment: 0

==========

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	157.0 kPa	0.54 L/min

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1/9/2008 14:03:54 Hg ReAlign... Actual peak offset (nm): 0.003
Drift (nm): 0.000 Slit adjustment: 0

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Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	15856.3
-1.6	15.0	26476.9
-1.2	15.0	35720.7
-0.8	15.0	39036.3
-0.4	15.0	25915.1
0.0	15.0	38812.1
0.4	15.0	56117.1
0.8	15.0	43563.3
1.2	15.0	45814.8
1.6	15.0	34686.8
2.0	15.0	27814.3
0.4	10.0	1356.1
0.4	10.5	3524.6
0.4	11.0	6821.7
0.4	11.5	10084.2
0.4	12.0	15224.5
0.4	12.5	31976.3
0.4	13.0	45153.9
0.4	13.5	59068.5
0.4	14.0	72979.3
0.4	14.5	107076.6
0.4	15.0	107181.4
0.4	15.5	106183.8
0.4	16.0	95413.8
0.4	16.5	67318.5
0.4	17.0	52904.6
0.4	17.5	39826.0
0.4	18.0	28733.1
0.4	18.5	21783.3
0.4	19.0	6971.8
0.4	19.5	3393.7
0.4	20.0	1549.7
-0.4	15.0	158669.6
0.0	15.0	155897.1
0.4	15.0	139145.1
0.8	15.0	123772.2
1.2	15.0	100471.6
-0.4	13.0	72291.6
-0.4	13.5	99887.9
-0.4	14.0	126912.4
-0.4	14.5	164681.5
-0.4	15.0	182423.1
-0.4	15.5	182986.9
-0.4	16.0	160974.3
-0.4	16.5	107395.4
-0.4	17.0	76665.7

1/9/2008 14:14:26 aligned for analyte Mn 257.610
X viewing position set to -0.4 mm having Peak intensity 182986.9 for Axial viewing
Y viewing position set to 15.5 mm having Peak intensity 182986.9 for Axial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	1175.7
-6.5	15.0	1481.3
-6.0	15.0	1901.1
-5.5	15.0	2796.8
-5.0	15.0	4568.6
-4.5	15.0	7503.3
-4.0	15.0	11351.6
-3.5	15.0	15974.1
-3.0	15.0	19788.9
-2.5	15.0	22718.1
-2.0	15.0	23703.1
-1.5	15.0	26763.5
-1.0	15.0	29290.5
-0.5	15.0	32063.8
0.0	15.0	32626.2
0.5	15.0	28542.0
1.0	15.0	23538.6
1.5	15.0	18801.1
2.0	15.0	13698.9
2.5	15.0	8598.2
3.0	15.0	5172.9
3.5	15.0	3797.8
4.0	15.0	3158.8
4.5	15.0	2261.0
5.0	15.0	1585.3
5.5	15.0	1327.1
6.0	15.0	1189.7
6.5	15.0	1101.0
7.0	15.0	1028.6

1/9/2008 14:21:35 aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 32626.2 for Radial viewing

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	325968.0
-1.6	15.0	475581.3
-1.2	15.0	646315.0
-0.8	15.0	853230.3
-0.4	15.0	995108.7
0.0	15.0	1086771.3
0.4	15.0	1110940.1
0.8	15.0	1026966.9
1.2	15.0	872819.1
1.6	15.0	690930.9
2.0	15.0	518502.6
0.4	10.0	24622.2
0.4	10.5	66422.9
0.4	11.0	102654.5
0.4	11.5	156552.3
0.4	12.0	230810.2
0.4	12.5	454997.3
0.4	13.0	623273.4
0.4	13.5	787714.5
0.4	14.0	959339.5
0.4	14.5	1139282.7
0.4	15.0	1100192.4
0.4	15.5	1003678.3
0.4	16.0	858323.2
0.4	16.5	501858.8
0.4	17.0	349499.9
0.4	17.5	251200.4
0.4	18.0	171884.5
0.4	18.5	104020.5
0.4	19.0	22833.3
0.4	19.5	9098.6
0.4	20.0	5065.7
-0.4	14.5	1046290.5

0.0	14.5	1144389.1
0.4	14.5	1130703.2
0.8	14.5	1049508.1
1.2	14.5	905989.6
0.0	12.5	461035.0
0.0	13.0	604338.4
0.0	13.5	784753.9
0.0	14.0	960566.7
0.0	14.5	1138225.1
0.0	15.0	1095301.3
0.0	15.5	985381.8
0.0	16.0	830218.3
0.0	16.5	495506.7

1/9/2008 14:36:21 aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 1138225.1 for Axial viewing
Y viewing position set to 14.5 mm having Peak intensity 1138225.1 for Axial viewing

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	327214.7
-1.6	15.0	479951.5
-1.2	15.0	647361.0
-0.8	15.0	858247.9
-0.4	15.0	1023946.0
0.0	15.0	1142489.7
0.4	15.0	1138482.8
0.8	15.0	1035383.0
1.2	15.0	897229.0
1.6	15.0	708618.1
2.0	15.0	525534.0
0.0	10.0	11655.4
0.0	10.5	38173.3
0.0	11.0	64461.4
0.0	11.5	99070.6
0.0	12.0	150320.2
0.0	12.5	326130.3
0.0	13.0	452206.3
0.0	13.5	601913.9
0.0	14.0	775372.3
0.0	14.5	1071629.5
0.0	15.0	1140939.3
0.0	15.5	1103181.3
0.0	16.0	979569.0
0.0	16.5	669775.9
0.0	17.0	497411.9
0.0	17.5	350570.0
0.0	18.0	252903.6
0.0	18.5	169357.4
0.0	19.0	48566.5
0.0	19.5	20537.7
0.0	20.0	8470.7
-0.8	15.0	838316.2
-0.4	15.0	1022016.4
0.0	15.0	1096357.5
0.4	15.0	1099450.3
0.8	15.0	962353.5
0.4	13.0	426611.1
0.4	13.5	526774.8
0.4	14.0	741585.9
0.4	14.5	300971.0
0.4	15.0	89467.4
0.4	15.5	28853.9
0.4	16.0	9925.2
0.4	16.5	2783.0
0.4	17.0	843.4

1/9/2008 14:39:17 aligned for analyte Mn 257.610
X viewing position set to 0.4 mm having Peak intensity 741585.9 for Axial viewing
Y viewing position set to 14.0 mm having Peak intensity 741585.9 for Axial viewing

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	9.7
-1.6	15.0	194.4
-1.2	15.0	124490.2
-0.8	15.0	410445.2
-0.4	15.0	510427.6
0.0	15.0	542324.7
0.4	15.0	522898.9
0.8	15.0	453785.4
1.2	15.0	369057.4
1.6	15.0	287512.8
2.0	15.0	210920.2
0.0	10.0	4213.4
0.0	10.5	3833.9
0.0	11.0	7955.8
0.0	11.5	16003.6
0.0	12.0	28172.6
0.0	12.5	73100.3
0.0	13.0	109621.0
0.0	13.5	166559.8
0.0	14.0	243207.6
0.0	14.5	442517.5
0.0	15.0	568062.0
0.0	15.5	686111.5
0.0	16.0	785325.8
0.0	16.5	797033.9
0.0	17.0	719437.6
0.0	17.5	590250.2
0.0	18.0	474284.5
0.0	18.5	357302.0
0.0	19.0	183546.3
0.0	19.5	122414.6
0.0	20.0	74458.0
-0.8	16.5	721170.3
-0.4	16.5	783016.2
0.0	16.5	788467.3
0.4	16.5	732376.7
0.8	16.5	619444.3
0.0	14.5	462352.4
0.0	15.0	561658.8
0.0	15.5	693538.0
0.0	16.0	790613.8
0.0	16.5	799677.9
0.0	17.0	707770.3
0.0	17.5	586261.3
0.0	18.0	476637.0
0.0	18.5	358406.3

1/9/2008 14:44:49 aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 799677.9 for Axial viewing
Y viewing position set to 16.5 mm having Peak intensity 799677.9 for Axial viewing

Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	328107.5
-1.6	15.0	456634.7
-1.2	15.0	603386.1
-0.8	15.0	726517.6
-0.4	15.0	803031.8
0.0	15.0	811515.1
0.4	15.0	741798.9
0.8	15.0	613356.6
1.2	15.0	495403.9
1.6	15.0	378011.4
2.0	15.0	266687.3
0.0	10.0	17503.6
0.0	10.5	47053.8
0.0	11.0	73926.7
0.0	11.5	110766.7

0.0	12.0	164243.1
0.0	12.5	325060.5
0.0	13.0	447245.4
0.0	13.5	566508.0
0.0	14.0	693620.3
0.0	14.5	813933.7
0.0	15.0	814437.3
0.0	15.5	699679.0
0.0	16.0	598722.4
0.0	16.5	358323.9
0.0	17.0	258874.0
0.0	17.5	180431.9
0.0	18.0	121607.4
0.0	18.5	73599.8
0.0	19.0	16364.2
0.0	19.5	6585.9
0.0	20.0	3610.1
-0.8	15.0	713887.3
-0.4	15.0	795029.7
0.0	15.0	790312.3
0.4	15.0	732358.8
0.8	15.0	623101.8
-0.4	13.0	447290.7
-0.4	13.5	566275.8
-0.4	14.0	686023.7
-0.4	14.5	828698.1
-0.4	15.0	800373.2
-0.4	15.5	696248.6
-0.4	16.0	596564.9
-0.4	16.5	362956.1
-0.4	17.0	256791.1

1/9/2008 15:07:47 aligned for analyte Mn 257.610
X viewing position set to -0.4 mm having Peak intensity 828698.1 for Axial viewing
Y viewing position set to 14.5 mm having Peak intensity 828698.1 for Axial viewing

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Align View XY Axial for analyte Mn 257.610

X-position	Y-position	Intensity
-2.0	15.0	230303.5
-1.6	15.0	339188.2
-1.2	15.0	471073.1
-0.8	15.0	618193.3
-0.4	15.0	730745.7
0.0	15.0	817404.0
0.4	15.0	826846.6
0.8	15.0	750486.5
1.2	15.0	641840.6
1.6	15.0	506735.2
2.0	15.0	381980.1
0.4	10.0	8802.3
0.4	10.5	27543.2
0.4	11.0	47229.4
0.4	11.5	72324.0
0.4	12.0	110095.4
0.4	12.5	233291.4
0.4	13.0	332890.2
0.4	13.5	445929.1
0.4	14.0	567308.4
0.4	14.5	791338.2
0.4	15.0	820748.7
0.4	15.5	807042.4
0.4	16.0	710471.5
0.4	16.5	473395.4
0.4	17.0	359078.1
0.4	17.5	254633.6
0.4	18.0	180351.9
0.4	18.5	120831.9
0.4	19.0	36257.2
0.4	19.5	15943.1
0.4	20.0	6343.7
-0.4	15.0	737411.0

0.0	15.0	825458.7
0.4	15.0	823994.2
0.8	15.0	763385.1
1.2	15.0	637272.2
0.0	13.0	328200.1
0.0	13.5	432942.1
0.0	14.0	562434.6
0.0	14.5	773141.2
0.0	15.0	808882.4
0.0	15.5	808370.2
0.0	16.0	717136.9
0.0	16.5	472321.5
0.0	17.0	356231.7

1/9/2008 15:10:23 aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 808882.4 for Axial viewing
Y viewing position set to 15.0 mm having Peak intensity 808882.4 for Axial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	1108.9
-6.5	15.0	1441.9
-6.0	15.0	1864.7
-5.5	15.0	2728.4
-5.0	15.0	4428.2
-4.5	15.0	7462.0
-4.0	15.0	11882.1
-3.5	15.0	16388.9
-3.0	15.0	20390.3
-2.5	15.0	23316.5
-2.0	15.0	24690.6
-1.5	15.0	26097.6
-1.0	15.0	28809.1
-0.5	15.0	30980.6
0.0	15.0	30646.1
0.5	15.0	27676.8
1.0	15.0	23186.0
1.5	15.0	18440.5
2.0	15.0	13635.1
2.5	15.0	9004.3
3.0	15.0	5179.2
3.5	15.0	3763.0
4.0	15.0	3074.5
4.5	15.0	2219.0
5.0	15.0	1571.2
5.5	15.0	1286.5
6.0	15.0	1140.2
6.5	15.0	1017.8
7.0	15.0	921.0

1/9/2008 15:15:19 aligned for analyte Mn 257.610
X viewing position set to -0.5 mm having Peak intensity 30980.6 for Radial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	921.4
-6.5	15.0	1095.2
-6.0	15.0	1437.6
-5.5	15.0	1884.7
-5.0	15.0	2774.3
-4.5	15.0	4499.4
-4.0	15.0	7463.6
-3.5	15.0	12032.7
-3.0	15.0	16365.4
-2.5	15.0	20960.2
-2.0	15.0	23698.1
-1.5	15.0	24898.9
-1.0	15.0	26809.6
-0.5	15.0	28723.8
0.0	15.0	30627.8

0.5	15.0	30384.0
1.0	15.0	27669.7
1.5	15.0	23325.2
2.0	15.0	18522.0
2.5	15.0	14157.1
3.0	15.0	9082.1
3.5	15.0	5177.3
4.0	15.0	3765.1
4.5	15.0	3080.3
5.0	15.0	2202.9
5.5	15.0	1584.8
6.0	15.0	1289.7
6.5	15.0	1148.1
7.0	15.0	1028.1

1/9/2008 15:18:55 aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 30627.8 for Radial viewing

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Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	727.8
-6.5	15.0	862.8
-6.0	15.0	1129.9
-5.5	15.0	1503.0
-5.0	15.0	2179.5
-4.5	15.0	3542.1
-4.0	15.0	5984.2
-3.5	15.0	9144.8
-3.0	15.0	12873.4
-2.5	15.0	15866.5
-2.0	15.0	18183.5
-1.5	15.0	18687.3
-1.0	15.0	20207.5
-0.5	15.0	21732.0
0.0	15.0	23920.6
0.5	15.0	23679.0
1.0	15.0	21014.5
1.5	15.0	17761.6
2.0	15.0	14248.6
2.5	15.0	10831.0
3.0	15.0	7056.2
3.5	15.0	4127.7
4.0	15.0	2926.2
4.5	15.0	2409.9
5.0	15.0	1715.3
5.5	15.0	1234.8
6.0	15.0	1008.2
6.5	15.0	894.8
7.0	15.0	812.2

1/9/2008 15:29:14 aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 23920.6 for Radial viewing

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Analysis Begun

Start Time: 1/9/2008 15:59:20
Logged In Analyst: Administrator
Spectrometer Model: Optima 4300 DV, S/N 077N2121801
Plasma On Time: 1/9/2008 13:34:23
Technique: ICP Continuous
Autosampler Model: AS-93plus

Sample Information File: C:\pe\Owner\Sample Information\080109.sif
Batch ID: 2
Results Data Set: 080109
Results Library: C:\pe\Owner\Results\Results.mdb

Method Loaded
Method Name: 200.7&6010_070703
IEC File: 070703.iec
Method Description: 200.7/6010_070703
Method Last Saved: 12/31/2007 15:24:50
MSF File:

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
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 0
Date Collected: 1/9/2008 15:59:20
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	440841.4	3273.13	0.74%	100	%
Yr	233923.3	1576.94	0.67%	100	%
Ag†	380.7	80.43	21.13%	[0.00]	mg/L
Al†	59.0	33.88	57.47%	[0.00]	mg/L
As†	-25.9	3.15	12.18%	[0.00]	mg/L
B_†	467.7	7.37	1.58%	[0.00]	mg/L
Ba†	-34.4	2.34	6.80%	[0.00]	mg/L

Bet	-5150.3	8.50	0.17%	[0.00]	mg/L
Cat	479.4	11.64	2.43%	[0.00]	mg/L
Cdt	57.5	5.16	8.97%	[0.00]	mg/L
Cot	-66.2	0.28	0.42%	[0.00]	mg/L
Crt	310.7	8.87	2.85%	[0.00]	mg/L
Cut	2379.0	54.06	2.27%	[0.00]	mg/L
Fet	-4.5	1.33	29.47%	[0.00]	mg/L
Kt	-24.9	6.45	25.91%	[0.00]	mg/L
Mgt	-46.1	0.22	0.48%	[0.00]	mg/L
Mnt	835.5	5.22	0.62%	[0.00]	mg/L
Mot	32.7	1.41	4.29%	[0.00]	mg/L
Nat	-474.9	24.91	5.24%	[0.00]	mg/L
Nit	-35.7	7.74	21.66%	[0.00]	mg/L
Pbt	-18.9	0.62	3.28%	[0.00]	mg/L
Sbt	14.4	0.36	2.50%	[0.00]	mg/L
Set	-2.1	0.09	4.29%	[0.00]	mg/L
Tlt	-37.7	2.55	6.78%	[0.00]	mg/L
Vt	194.5	29.91	15.37%	[0.00]	mg/L
Znt	155.3	0.76	0.49%	[0.00]	mg/L
Alxt	224.9	44.81	19.92%	[0.00]	ug/L
Bext	-5150.3	8.50	0.17%	[0.00]	ug/L

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

Autosampler Location: 15
Date Collected: 1/9/2008 16:02:59
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Standard 2

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: Standard 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Sca	421153.1	1108.13	0.26%	95.5	%
Yr	218370.6	1220.24	0.56%	93.4	%
Agt	558673.2	4689.26	0.84%	[2]	mg/L
Alt	39886.8	280.47	0.70%	[10]	mg/L
Ast	22243.0	146.97	0.66%	[10]	mg/L
B_t	156597.4	1766.13	1.13%	[5.02]	mg/L
Bat	760614.5	7398.83	0.97%	[10]	mg/L
Bet	12520098.1	87899.79	0.70%	[4.01]	mg/L
Cat	656524.9	903.06	0.14%	[100]	mg/L
Cdt	139942.2	1502.74	1.07%	[5.01]	mg/L
Cot	210157.9	2503.67	1.19%	[10]	mg/L
Crt	781003.3	7134.98	0.91%	[9.97]	mg/L
Cut	3786073.7	35242.63	0.93%	[10]	mg/L
Fet	8593.3	100.52	1.17%	[9.98]	mg/L
Kt	104974.9	393.15	0.37%	[100]	mg/L
Mgt	239481.7	528.88	0.22%	[100]	mg/L
Mnt	5771919.2	53085.49	0.92%	[10]	mg/L
Mot	135540.5	1326.07	0.98%	[9.98]	mg/L
Nat	416757.7	1269.99	0.30%	[100]	mg/L
Nit	234017.9	2280.61	0.97%	[10]	mg/L
Pbt	52529.7	164.81	0.31%	[10]	mg/L
Sbt	16836.8	68.79	0.41%	[10]	mg/L
Set	14256.7	98.70	0.69%	[10]	mg/L
Tlt	28757.5	177.23	0.62%	[10]	mg/L
Vt	1684936.6	13602.26	0.81%	[10]	mg/L
Znt	512130.4	4621.74	0.90%	[10]	mg/L
Alxt	719026.3	5469.29	0.76%	[10000]	ug/L
Bext	12520098.1	87899.79	0.70%	[4010]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag	1	Lin, Calc Int	0.0	279300	0.00000	1.000000	
Al	1	Lin, Calc Int	0.0	3989	0.00000	1.000000	
As	1	Lin, Calc Int	-0.0	2224	0.00000	1.000000	
B_	1	Lin, Calc Int	-0.0	31190	0.00000	1.000000	
Ba	1	Lin, Calc Int	-0.0	76060	0.00000	1.000000	
Be	1	Lin, Calc Int	0.0	3122000	0.00000	1.000000	
Ca	1	Lin, Calc Int	0.0	6565	0.00000	1.000000	
Cd	1	Lin, Calc Int	0.0	27930	0.00000	1.000000	
Co	1	Lin, Calc Int	0.0	21020	0.00000	1.000000	
Cr	1	Lin, Calc Int	-0.0	78340	0.00000	1.000000	
Cu	1	Lin, Calc Int	0.0	378600	0.00000	1.000000	
Fe	1	Lin, Calc Int	0.0	861.1	0.00000	1.000000	
K	1	Lin, Calc Int	0.0	1050	0.00000	1.000000	
Mg	1	Lin, Calc Int	0.0	2395	0.00000	1.000000	
Mn	1	Lin, Calc Int	0.0	577200	0.00000	1.000000	
Mo	1	Lin, Calc Int	0.0	13580	0.00000	1.000000	
Na	1	Lin, Calc Int	0.0	4168	0.00000	1.000000	
Ni	1	Lin, Calc Int	0.0	23400	0.00000	1.000000	
Pb	1	Lin, Calc Int	0.0	5253	0.00000	1.000000	
Sb	1	Lin, Calc Int	0.0	1684	0.00000	1.000000	
Se	1	Lin, Calc Int	0.0	1426	0.00000	1.000000	
Tl	1	Lin, Calc Int	0.0	2876	0.00000	1.000000	

V	1	Lin, Calc Int	0.0	168500	0.00000	1.000000
Zn	1	Lin, Calc Int	0.0	51210	0.00000	1.000000
Alx	1	Lin, Calc Int	0.0	71.90	0.00000	1.000000
Bex	1	Lin, Calc Int	0.0	3122	0.00000	1.000000

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

Autosampler Location: 15
Date Collected: 1/9/2008 16:06:18
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	417980.2	94.8	%	0.29				0.30%
Yr	223629.8	95.6	%	0.10				0.10%
Agt	563787.6	2.02	mg/L	0.005	2.02	mg/L	0.005	0.22%
QC value within limits for Ag		Recovery = 100.92%						
Alt	39200.2	9.83	mg/L	0.064	9.83	mg/L	0.064	0.65%
QC value within limits for Al		Recovery = 98.28%						
Ast	22374.2	10.1	mg/L	0.05	10.1	mg/L	0.05	0.50%
QC value within limits for As		Recovery = 100.58%						
B_t	158520.4	5.06	mg/L	0.008	5.06	mg/L	0.008	0.17%
QC value within limits for B_		Recovery = 101.22%						
Bat	766851.4	10.1	mg/L	0.00	10.1	mg/L	0.00	0.00%
QC value within limits for Ba		Recovery = 100.82%						
Bet	12506008.5	4.01	mg/L	0.016	4.01	mg/L	0.016	0.40%
QC value within limits for Be		Recovery = 100.14%						
Cat	647506.9	98.6	mg/L	0.34	98.6	mg/L	0.34	0.35%
QC value within limits for Ca		Recovery = 98.63%						
Cdt	140925.4	4.91	mg/L	0.002	4.91	mg/L	0.002	0.04%
QC value within limits for Cd		Recovery = 98.19%						
Cot	212633.1	10.1	mg/L	0.03	10.1	mg/L	0.03	0.25%
QC value within limits for Co		Recovery = 101.18%						
Crt	787516.6	10.1	mg/L	0.01	10.1	mg/L	0.01	0.12%
QC value within limits for Cr		Recovery = 100.53%						
Cut	3814144.2	10.1	mg/L	0.05	10.1	mg/L	0.05	0.48%
QC value within limits for Cu		Recovery = 100.84%						
Fet	8475.8	9.84	mg/L	0.080	9.84	mg/L	0.080	0.82%
QC value within limits for Fe		Recovery = 98.43%						
Kt	102962.4	98.1	mg/L	0.41	98.1	mg/L	0.41	0.42%
QC value within limits for K		Recovery = 98.08%						
Mgt	235859.8	98.5	mg/L	0.17	98.5	mg/L	0.17	0.17%
QC value within limits for Mg		Recovery = 98.49%						
Mnt	5820988.3	10.1	mg/L	0.00	10.1	mg/L	0.00	0.01%
QC value within limits for Mn		Recovery = 100.85%						
Mot	136956.7	10.1	mg/L	0.01	10.1	mg/L	0.01	0.13%
QC value within limits for Mo		Recovery = 100.84%						
Nat	408700.0	98.1	mg/L	0.10	98.1	mg/L	0.10	0.10%
QC value within limits for Na		Recovery = 98.07%						
Nit	236142.9	10.1	mg/L	0.01	10.1	mg/L	0.01	0.06%
QC value within limits for Ni		Recovery = 100.91%						
Pbt	52846.3	10.1	mg/L	0.04	10.1	mg/L	0.04	0.41%
QC value within limits for Pb		Recovery = 100.60%						
Sbt	16949.9	9.91	mg/L	0.121	9.91	mg/L	0.121	1.22%
QC value within limits for Sb		Recovery = 99.08%						
Set	14371.0	10.1	mg/L	0.04	10.1	mg/L	0.04	0.39%
QC value within limits for Se		Recovery = 100.99%						
Tlt	28909.8	10.1	mg/L	0.09	10.1	mg/L	0.09	0.89%
QC value within limits for Tl		Recovery = 100.81%						
Vt	1698888.3	10.1	mg/L	0.00	10.1	mg/L	0.00	0.01%
QC value within limits for V		Recovery = 101.38%						
Znt	516812.5	10.0	mg/L	0.01	10.0	mg/L	0.01	0.11%
QC value within limits for Zn		Recovery = 100.23%						
Alxt	721495.5	10000	ug/L	62.7	10.0	mg/L	0.06	0.62%
QC value within limits for Alx		Recovery = 100.34%						
Bext	12506008.5	4010	ug/L	16.2	4.01	mg/L	0.016	0.40%
QC value within limits for Bex		Recovery = 100.14%						

All analyte(s) passed QC.

Sequence No.: 4
Sample ID: LINEARITY
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 1/9/2008 16:09:37
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LINEARITY

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: LINEARITY

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	392391.6	89.0	%	0.13				0.15%
Yr	213870.0	91.4	%	0.14				0.15%
Agt	-10330.4	-0.0370	mg/L	0.00024	-0.0370	mg/L	0.00024	0.66%
QC value within limits for Ag	Recovery = Not calculated							
Alt	-24.9	-0.00625	mg/L	0.002082	-0.00625	mg/L	0.002082	33.29%
QC value within limits for Al	Recovery = Not calculated							
Ast	-253.1	-0.0545	mg/L	0.00100	-0.0545	mg/L	0.00100	1.84%
QC value within limits for As	Recovery = Not calculated							
B_t	578.4	0.0185	mg/L	0.00204	0.0185	mg/L	0.00204	11.00%
QC value within limits for B_	Recovery = Not calculated							
Bat	136.4	0.00179	mg/L	0.000052	0.00179	mg/L	0.000052	2.91%
QC value within limits for Ba	Recovery = Not calculated							
Bet	-975.7	-0.00031	mg/L	0.000043	-0.00031	mg/L	0.000043	13.85%
QC value within limits for Be	Recovery = Not calculated							
Cat	1893408.7	288	mg/L	0.0	288	mg/L	0.0	0.01%
QC value within limits for Ca	Recovery = 96.13%							
Cdt	-21.4	0.00122	mg/L	0.000087	0.00122	mg/L	0.000087	7.09%
QC value within limits for Cd	Recovery = Not calculated							
Cot	53.5	0.00255	mg/L	0.000548	0.00255	mg/L	0.000548	21.53%
QC value within limits for Co	Recovery = Not calculated							
Crt	132.5	0.00169	mg/L	0.000068	0.00169	mg/L	0.000068	3.99%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-5404.2	-0.0143	mg/L	0.00022	-0.0143	mg/L	0.00022	1.52%
QC value within limits for Cu	Recovery = Not calculated							
Fet	84548.5	98.2	mg/L	0.09	98.2	mg/L	0.09	0.09%
QC value within limits for Fe	Recovery = 98.19%							
Kt	319860.5	305	mg/L	0.9	305	mg/L	0.9	0.28%
QC value within limits for K	Recovery = 101.57%							
Mgt	449744.6	188	mg/L	0.0	188	mg/L	0.0	0.02%
QC value within limits for Mg	Recovery = Not calculated							
Mnt	-1547.1	-0.00268	mg/L	0.000050	-0.00268	mg/L	0.000050	1.85%
QC value within limits for Mn	Recovery = Not calculated							
Mot	22.5	0.00166	mg/L	0.000380	0.00166	mg/L	0.000380	22.89%
QC value within limits for Mo	Recovery = Not calculated							
Nat	1229564.1	295	mg/L	0.5	295	mg/L	0.5	0.17%
QC value within limits for Na	Recovery = 98.34%							
Nit	-1.2	-0.00005	mg/L	0.000415	-0.00005	mg/L	0.000415	826.56%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	-10.3	-0.00195	mg/L	0.003757	-0.00195	mg/L	0.003757	192.39%
QC value within limits for Pb	Recovery = Not calculated							
Sbt	16.5	0.00976	mg/L	0.003622	0.00976	mg/L	0.003622	37.12%
QC value within limits for Sb	Recovery = Not calculated							
Set	-177.7	0.0665	mg/L	0.00111	0.0665	mg/L	0.00111	1.67%
QC value within limits for Se	Recovery = Not calculated							
Tlt	66.5	0.0231	mg/L	0.00005	0.0231	mg/L	0.00005	0.23%
QC value within limits for Tl	Recovery = Not calculated							
Vt	-691.1	-0.00409	mg/L	0.000299	-0.00409	mg/L	0.000299	7.31%
QC value within limits for V	Recovery = Not calculated							
Znt	1277.0	0.0249	mg/L	0.00005	0.0249	mg/L	0.00005	0.21%
QC value within limits for Zn	Recovery = Not calculated							
Alxt	269.3	3.75	ug/L	1.080	0.00375	mg/L	0.001080	28.83%
QC value within limits for Alx	Recovery = Not calculated							
Bext	-975.7	-0.312	ug/L	0.0433	-0.00031	mg/L	0.000043	13.85%
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: 1/9/2008 16:13:20
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	406495.7	92.2	%	0.88				0.96%
Yr	216880.7	92.7	%	0.62				0.67%
Agt	-10177.4	-0.0364	mg/L	0.00017	-0.0364	mg/L	0.00017	0.48%
QC value within limits for Ag	Recovery = Not calculated							
Alt	963295.0	242	mg/L	3.2	242	mg/L	3.2	1.32%
QC value within limits for Al	Recovery = 96.60%							
Ast	-410.9	-0.127	mg/L	0.0010	-0.127	mg/L	0.0010	0.81%
QC value within limits for As	Recovery = Not calculated							
B_t	247.2	0.00792	mg/L	0.001513	0.00792	mg/L	0.001513	19.09%
QC value within limits for B_	Recovery = Not calculated							
Bat	165.5	0.00218	mg/L	0.000044	0.00218	mg/L	0.000044	2.02%
QC value within limits for Ba	Recovery = Not calculated							
Bet	-907.0	-0.00029	mg/L	0.000008	-0.00029	mg/L	0.000008	2.88%
QC value within limits for Be	Recovery = Not calculated							
Cat	1610766.0	245	mg/L	3.4	245	mg/L	3.4	1.40%
QC value within limits for Ca	Recovery = 98.14%							
Cdt	-39.8	0.00179	mg/L	0.000201	0.00179	mg/L	0.000201	11.22%
QC value within limits for Cd	Recovery = Not calculated							
Cot	6.0	0.00029	mg/L	0.000148	0.00029	mg/L	0.000148	51.81%
QC value within limits for Co	Recovery = Not calculated							
Crt	-37.1	-0.00047	mg/L	0.000026	-0.00047	mg/L	0.000026	5.57%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-5551.9	-0.0147	mg/L	0.00003	-0.0147	mg/L	0.00003	0.22%
QC value within limits for Cu	Recovery = Not calculated							
Fet	82541.8	95.9	mg/L	0.27	95.9	mg/L	0.27	0.28%
QC value within limits for Fe	Recovery = 95.86%							
Kt	261.1	0.249	mg/L	0.0668	0.249	mg/L	0.0668	26.86%
QC value within limits for K	Recovery = Not calculated							
Mgt	555586.2	232	mg/L	3.1	232	mg/L	3.1	1.35%
QC value within limits for Mg	Recovery = 92.80%							
Mnt	-1484.4	-0.00257	mg/L	0.000015	-0.00257	mg/L	0.000015	0.60%
QC value within limits for Mn	Recovery = Not calculated							
Mot	5.8	0.00043	mg/L	0.000119	0.00043	mg/L	0.000119	27.85%
QC value within limits for Mo	Recovery = Not calculated							
Nat	494.1	0.119	mg/L	0.0049	0.119	mg/L	0.0049	4.12%
QC value within limits for Na	Recovery = Not calculated							
Nit	-21.8	-0.00093	mg/L	0.000225	-0.00093	mg/L	0.000225	24.19%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	-192.9	-0.0367	mg/L	0.00056	-0.0367	mg/L	0.00056	1.52%
QC value within limits for Pb	Recovery = Not calculated							
Sbt	4.0	0.00235	mg/L	0.003416	0.00235	mg/L	0.003416	145.16%
QC value within limits for Sb	Recovery = Not calculated							
Set	-204.5	0.0431	mg/L	0.01127	0.0431	mg/L	0.01127	26.13%
QC value within limits for Se	Recovery = Not calculated							
Tlt	45.5	0.0158	mg/L	0.00102	0.0158	mg/L	0.00102	6.47%
QC value within limits for Tl	Recovery = Not calculated							
Vt	-676.8	-0.00402	mg/L	0.000000	-0.00402	mg/L	0.000000	0.01%
QC value within limits for V	Recovery = Not calculated							
Znt	913.7	0.0178	mg/L	0.00001	0.0178	mg/L	0.00001	0.05%
QC value within limits for Zn	Recovery = Not calculated							
Alxt	Saturated2							
Unable to evaluate QC.								
Bext	-907.0	-0.290	ug/L	0.0084	-0.00029	mg/L	0.000008	2.88%
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: 1/9/2008 16:17:03
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	402984.1	91.4	%	1.12				1.22%
Yr	219733.9	93.9	%	0.95				1.01%
Agt	132133.0	0.473	mg/L	0.0016	0.473	mg/L	0.0016	0.35%
QC value within limits for Ag Recovery = 94.60%								
Alt	947639.5	238	mg/L	2.0	238	mg/L	2.0	0.85%
QC value within limits for Al Recovery = 95.03%								
Ast	-421.8	-0.132	mg/L	0.0107	-0.132	mg/L	0.0107	8.08%
QC value less than the lower limit for As Recovery = Not calculated								
B_t	245.3	0.00738	mg/L	0.000772	0.00738	mg/L	0.000772	10.47%
QC value within limits for B_ Recovery = Not calculated								
Bat	19855.7	0.261	mg/L	0.0038	0.261	mg/L	0.0038	1.47%
QC value within limits for Ba Recovery = 104.42%								
Bet	771551.4	0.247	mg/L	0.0014	0.247	mg/L	0.0014	0.56%
QC value within limits for Be Recovery = 98.85%								
Cat	1576370.4	240	mg/L	1.7	240	mg/L	1.7	0.69%
QC value within limits for Ca Recovery = 96.04%								
Cdt	13702.6	0.495	mg/L	0.0074	0.495	mg/L	0.0074	1.50%
QC value within limits for Cd Recovery = 98.96%								
Cot	5053.9	0.240	mg/L	0.0037	0.240	mg/L	0.0037	1.53%
QC value within limits for Co Recovery = 96.19%								
Crt	19695.6	0.251	mg/L	0.0036	0.251	mg/L	0.0036	1.44%
QC value within limits for Cr Recovery = 100.57%								
Cut	91962.7	0.243	mg/L	0.0013	0.243	mg/L	0.0013	0.55%
QC value within limits for Cu Recovery = 97.25%								
Fet	82559.9	95.9	mg/L	0.10	95.9	mg/L	0.10	0.10%
QC value within limits for Fe Recovery = 95.88%								
Kt	137.9	0.131	mg/L	0.0114	0.131	mg/L	0.0114	8.65%
QC value within limits for K Recovery = Not calculated								
Mgt	543199.2	227	mg/L	1.7	227	mg/L	1.7	0.76%
QC value within limits for Mg Recovery = 90.73%								
Mnt	146480.3	0.254	mg/L	0.0017	0.254	mg/L	0.0017	0.66%
QC value within limits for Mn Recovery = 101.51%								
Mot	5.3	0.00039	mg/L	0.000698	0.00039	mg/L	0.000698	180.22%
QC value within limits for Mo Recovery = Not calculated								
Nat	284.0	0.0681	mg/L	0.00196	0.0681	mg/L	0.00196	2.87%
QC value within limits for Na Recovery = Not calculated								
Nit	11052.3	0.472	mg/L	0.0069	0.472	mg/L	0.0069	1.46%
QC value within limits for Ni Recovery = 94.46%								
Pbt	2403.8	0.458	mg/L	0.0102	0.458	mg/L	0.0102	2.23%
QC value within limits for Pb Recovery = 91.52%								
Sbt	-0.5	-0.00433	mg/L	0.001830	-0.00433	mg/L	0.001830	42.30%
QC value within limits for Sb Recovery = Not calculated								
Set	-194.5	0.0502	mg/L	0.00674	0.0502	mg/L	0.00674	13.42%
QC value within limits for Se Recovery = Not calculated								
Tlt	32.9	0.0121	mg/L	0.00369	0.0121	mg/L	0.00369	30.45%
QC value within limits for Tl Recovery = Not calculated								
Vt	41049.1	0.245	mg/L	0.0015	0.245	mg/L	0.0015	0.63%
QC value within limits for V Recovery = 98.00%								
Znt	27768.1	0.539	mg/L	0.0089	0.539	mg/L	0.0089	1.65%
QC value within limits for Zn Recovery = 107.80%								
Alxt	Saturated2							
Unable to evaluate QC.								
Bext	771551.4	247	ug/L	1.4	0.247	mg/L	0.0014	0.56%
QC value within limits for Bex Recovery = 98.85%								

QC Failed. Continue with analysis.

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

Autosampler Location: 0
Date Collected: 1/9/2008 16:20:46
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Wash

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: Wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	435902.1	98.9	%	0.01				0.01%
Yr	237714.6	102	%	0.7				0.70%
Agt	61.5	0.00022	mg/L	0.000096	0.00022	mg/L	0.000096	43.72%
QC value within limits for Ag	Recovery = Not calculated							
Alt	8.7	0.00218	mg/L	0.001078	0.00218	mg/L	0.001078	49.44%
QC value within limits for Al	Recovery = Not calculated							
Ast	3.0	0.00136	mg/L	0.000669	0.00136	mg/L	0.000669	49.35%
QC value within limits for As	Recovery = Not calculated							
B_t	418.0	0.0134	mg/L	0.00017	0.0134	mg/L	0.00017	1.23%
QC value within limits for B_	Recovery = Not calculated							
Bat	-4.6	-0.00006	mg/L	0.000040	-0.00006	mg/L	0.000040	65.70%
QC value within limits for Ba	Recovery = Not calculated							
Bet	49.4	0.00002	mg/L	0.000001	0.00002	mg/L	0.000001	4.46%
QC value within limits for Be	Recovery = Not calculated							
Cat	6.8	0.00104	mg/L	0.000302	0.00104	mg/L	0.000302	28.92%
QC value within limits for Ca	Recovery = Not calculated							
Cdt	7.4	0.00024	mg/L	0.000120	0.00024	mg/L	0.000120	49.61%
QC value within limits for Cd	Recovery = Not calculated							
Cot	-0.3	-0.00002	mg/L	0.000222	-0.00002	mg/L	0.000222	>999.9%
QC value within limits for Co	Recovery = Not calculated							
Crt	4.9	0.00006	mg/L	0.000051	0.00006	mg/L	0.000051	81.04%
QC value within limits for Cr	Recovery = Not calculated							
Cut	35.5	0.00009	mg/L	0.000094	0.00009	mg/L	0.000094	100.53%
QC value within limits for Cu	Recovery = Not calculated							
Fet	5.4	0.00623	mg/L	0.004416	0.00623	mg/L	0.004416	70.88%
QC value within limits for Fe	Recovery = Not calculated							
Kt	95.6	0.0911	mg/L	0.03049	0.0911	mg/L	0.03049	33.46%
QC value within limits for K	Recovery = Not calculated							
Mgt	5.8	0.00240	mg/L	0.000827	0.00240	mg/L	0.000827	34.41%
QC value within limits for Mg	Recovery = Not calculated							
Mnt	-234.5	-0.00041	mg/L	0.000022	-0.00041	mg/L	0.000022	5.32%
QC value within limits for Mn	Recovery = Not calculated							
Mot	2.4	0.00018	mg/L	0.000149	0.00018	mg/L	0.000149	83.95%
QC value within limits for Mo	Recovery = Not calculated							
Nat	89.0	0.0214	mg/L	0.00065	0.0214	mg/L	0.00065	3.03%
QC value within limits for Na	Recovery = Not calculated							
Nit	1.1	0.00005	mg/L	0.000085	0.00005	mg/L	0.000085	173.22%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	12.5	0.00239	mg/L	0.000173	0.00239	mg/L	0.000173	7.23%
QC value within limits for Pb	Recovery = Not calculated							
Sbt	5.2	0.00307	mg/L	0.005838	0.00307	mg/L	0.005838	190.22%
QC value within limits for Sb	Recovery = Not calculated							
Set	-0.2	-0.00016	mg/L	0.004393	-0.00016	mg/L	0.004393	>999.9%
QC value within limits for Se	Recovery = Not calculated							
Tlt	6.7	0.00235	mg/L	0.000135	0.00235	mg/L	0.000135	5.77%
QC value within limits for Tl	Recovery = Not calculated							
Vt	27.8	0.00017	mg/L	0.000043	0.00017	mg/L	0.000043	26.16%
QC value within limits for V	Recovery = Not calculated							
Znt	17.2	0.00034	mg/L	0.000076	0.00034	mg/L	0.000076	22.65%
QC value within limits for Zn	Recovery = Not calculated							
Alxt	63.7	0.886	ug/L	0.1858	0.00089	mg/L	0.000186	20.96%
QC value within limits for Alx	Recovery = Not calculated							
Bext	49.4	0.0158	ug/L	0.00071	0.00002	mg/L	0.000001	4.46%
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: 1/9/2008 16:24:10
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	440859.7	100	%	1.3				1.27%
Yr	233988.3	100	%	0.2				0.18%
Agt	271761.7	0.973	mg/L	0.0168	0.973	mg/L	0.0168	1.72%
QC value within limits for Ag Recovery = 97.29%								
Alt	4011.3	1.01	mg/L	0.008	1.01	mg/L	0.008	0.80%
QC value within limits for Al Recovery = 100.57%								
Ast	2251.9	1.01	mg/L	0.008	1.01	mg/L	0.008	0.78%
QC value within limits for As Recovery = 101.23%								
B_t	30737.6	0.983	mg/L	0.0128	0.983	mg/L	0.0128	1.30%
QC value within limits for B_ Recovery = 98.31%								
Bat	85585.8	1.13	mg/L	0.017	1.13	mg/L	0.017	1.50%
QC value greater than the upper limit for Ba Recovery = 112.52%								
Bet	3168581.1	1.01	mg/L	0.001	1.01	mg/L	0.001	0.10%
QC value within limits for Be Recovery = 101.48%								
Cat	6738.1	1.03	mg/L	0.003	1.03	mg/L	0.003	0.28%
QC value within limits for Ca Recovery = 102.63%								
Cdt	28719.5	1.01	mg/L	0.017	1.01	mg/L	0.017	1.65%
QC value within limits for Cd Recovery = 101.50%								
Cot	23824.7	1.13	mg/L	0.017	1.13	mg/L	0.017	1.48%
QC value greater than the upper limit for Co Recovery = 113.37%								
Crt	85034.3	1.09	mg/L	0.014	1.09	mg/L	0.014	1.32%
QC value within limits for Cr Recovery = 108.55%								
Cut	401623.4	1.06	mg/L	0.001	1.06	mg/L	0.001	0.08%
QC value within limits for Cu Recovery = 106.19%								
Fet	877.9	1.02	mg/L	0.005	1.02	mg/L	0.005	0.50%
QC value within limits for Fe Recovery = 101.95%								
Kt	10106.7	9.63	mg/L	0.096	9.63	mg/L	0.096	0.99%
QC value within limits for K Recovery = 96.28%								
Mgt	2523.3	1.05	mg/L	0.001	1.05	mg/L	0.001	0.07%
QC value within limits for Mg Recovery = 105.36%								
Mnt	651181.8	1.13	mg/L	0.003	1.13	mg/L	0.003	0.26%
QC value greater than the upper limit for Mn Recovery = 112.82%								
Mot	14274.0	1.05	mg/L	0.012	1.05	mg/L	0.012	1.13%
QC value within limits for Mo Recovery = 105.10%								
Nat	4321.1	1.04	mg/L	0.002	1.04	mg/L	0.002	0.24%
QC value within limits for Na Recovery = 103.68%								
Nit	26672.0	1.14	mg/L	0.015	1.14	mg/L	0.015	1.30%
QC value greater than the upper limit for Ni Recovery = 113.97%								
Pbt	5958.4	1.13	mg/L	0.011	1.13	mg/L	0.011	1.00%
QC value greater than the upper limit for Pb Recovery = 113.43%								
Sbt	1707.5	0.997	mg/L	0.0057	0.997	mg/L	0.0057	0.58%
QC value within limits for Sb Recovery = 99.67%								
Set	1414.0	0.994	mg/L	0.0086	0.994	mg/L	0.0086	0.86%
QC value within limits for Se Recovery = 99.38%								
Tlt	3297.4	1.15	mg/L	0.014	1.15	mg/L	0.014	1.19%
QC value greater than the upper limit for Tl Recovery = 114.96%								
Vt	175357.6	1.05	mg/L	0.014	1.05	mg/L	0.014	1.31%
QC value within limits for V Recovery = 104.67%								
Znt	56073.6	1.09	mg/L	0.015	1.09	mg/L	0.015	1.37%
QC value within limits for Zn Recovery = 108.71%								
Alxt	70781.9	984	ug/L	19.5	0.984	mg/L	0.0195	1.98%
QC value within limits for Alx Recovery = 98.44%								
Bext	3168581.1	1010	ug/L	1.0	1.01	mg/L	0.001	0.10%
QC value within limits for Bex Recovery = 101.48%								

QC Failed. Retry.

Sequence No.: 9
Sample ID: QC-25 1ppm
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 1/9/2008 16:26:57
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	441192.2	100	%	0.3				0.27%
Yr	234118.4	100	%	0.1				0.12%
Ag†	258427.9	0.925	mg/L	0.0027	0.925	mg/L	0.0027	0.30%
QC value within limits for Ag Recovery = 92.51%								
Al†	4016.4	1.01	mg/L	0.005	1.01	mg/L	0.005	0.50%
QC value within limits for Al Recovery = 100.69%								
As†	2236.5	1.01	mg/L	0.007	1.01	mg/L	0.007	0.71%
QC value within limits for As Recovery = 100.54%								
B_†	30536.6	0.977	mg/L	0.0027	0.977	mg/L	0.0027	0.28%
QC value within limits for B_ Recovery = 97.66%								
Ba†	85086.3	1.12	mg/L	0.001	1.12	mg/L	0.001	0.08%
QC value greater than the upper limit for Ba Recovery = 111.87%								
Be†	3171576.9	1.02	mg/L	0.003	1.02	mg/L	0.003	0.32%
QC value within limits for Be Recovery = 101.58%								
Ca†	6782.2	1.03	mg/L	0.001	1.03	mg/L	0.001	0.09%
QC value within limits for Ca Recovery = 103.30%								
Cd†	28581.7	1.01	mg/L	0.001	1.01	mg/L	0.001	0.15%
QC value within limits for Cd Recovery = 101.01%								
Co†	23649.0	1.13	mg/L	0.004	1.13	mg/L	0.004	0.35%
QC value greater than the upper limit for Co Recovery = 112.53%								
Cr†	84569.7	1.08	mg/L	0.001	1.08	mg/L	0.001	0.10%
QC value within limits for Cr Recovery = 107.96%								
Cu†	401604.3	1.06	mg/L	0.003	1.06	mg/L	0.003	0.24%
QC value within limits for Cu Recovery = 106.18%								
Fe†	881.0	1.02	mg/L	0.002	1.02	mg/L	0.002	0.15%
QC value within limits for Fe Recovery = 102.32%								
K†	10114.8	9.64	mg/L	0.007	9.64	mg/L	0.007	0.07%
QC value within limits for K Recovery = 96.35%								
Mg†	2529.4	1.06	mg/L	0.002	1.06	mg/L	0.002	0.19%
QC value within limits for Mg Recovery = 105.62%								
Mn†	652184.8	1.13	mg/L	0.004	1.13	mg/L	0.004	0.31%
QC value greater than the upper limit for Mn Recovery = 112.99%								
Mo†	14224.6	1.05	mg/L	0.004	1.05	mg/L	0.004	0.38%
QC value within limits for Mo Recovery = 104.74%								
Na†	4287.9	1.03	mg/L	0.005	1.03	mg/L	0.005	0.47%
QC value within limits for Na Recovery = 102.89%								
Ni†	26544.0	1.13	mg/L	0.000	1.13	mg/L	0.000	0.04%
QC value greater than the upper limit for Ni Recovery = 113.43%								
Pb†	5946.2	1.13	mg/L	0.002	1.13	mg/L	0.002	0.19%
QC value greater than the upper limit for Pb Recovery = 113.20%								
Sb†	1704.8	0.995	mg/L	0.0008	0.995	mg/L	0.0008	0.08%
QC value within limits for Sb Recovery = 99.51%								
Se†	1417.0	0.996	mg/L	0.0077	0.996	mg/L	0.0077	0.78%
QC value within limits for Se Recovery = 99.59%								
Tl†	3285.8	1.15	mg/L	0.006	1.15	mg/L	0.006	0.49%
QC value greater than the upper limit for Tl Recovery = 114.55%								
V†	174256.9	1.04	mg/L	0.004	1.04	mg/L	0.004	0.35%
QC value within limits for V Recovery = 104.02%								
Zn†	55782.7	1.08	mg/L	0.001	1.08	mg/L	0.001	0.10%
QC value within limits for Zn Recovery = 108.15%								
Alx†	70395.0	979	ug/L	6.9	0.979	mg/L	0.0069	0.70%
QC value within limits for Alx Recovery = 97.90%								
Bex†	3171576.9	1020	ug/L	3.2	1.02	mg/L	0.003	0.32%
QC value within limits for Bex Recovery = 101.58%								

QC Failed. Continue with analysis.

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

Autosampler Location: 4
Date Collected: 1/9/2008 16:31:14
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Sca	418492.7	94.9	%	0.12				0.13%
Yr	225739.0	96.5	%	0.76				0.79%
Ag†	284165.8	1.02	mg/L	0.002	1.02	mg/L	0.002	0.22%
QC value within limits for Ag	Recovery = 101.73%							
Al†	19553.5	4.90	mg/L	0.094	4.90	mg/L	0.094	1.91%
QC value within limits for Al	Recovery = 98.04%							
As†	11094.7	4.99	mg/L	0.048	4.99	mg/L	0.048	0.97%
QC value within limits for As	Recovery = 99.75%							
B_†	80635.6	2.57	mg/L	0.002	2.57	mg/L	0.002	0.08%
QC value within limits for B_	Recovery = 102.97%							
Ba†	398247.8	5.24	mg/L	0.003	5.24	mg/L	0.003	0.06%
QC value within limits for Ba	Recovery = 104.72%							
Be†	6570576.2	2.10	mg/L	0.016	2.10	mg/L	0.016	0.75%
QC value within limits for Be	Recovery = 105.22%							
Ca†	325655.2	49.6	mg/L	0.03	49.6	mg/L	0.03	0.07%
QC value within limits for Ca	Recovery = 99.21%							
Cd†	57840.9	2.00	mg/L	0.015	2.00	mg/L	0.015	0.72%
QC value within limits for Cd	Recovery = 100.23%							
Co†	111422.0	5.30	mg/L	0.014	5.30	mg/L	0.014	0.27%
QC value within limits for Co	Recovery = 106.04%							
Cr†	410416.0	5.24	mg/L	0.008	5.24	mg/L	0.008	0.16%
QC value within limits for Cr	Recovery = 104.78%							
Cu†	1966965.1	5.20	mg/L	0.011	5.20	mg/L	0.011	0.20%
QC value within limits for Cu	Recovery = 104.01%							
Fe†	4283.9	4.98	mg/L	0.072	4.98	mg/L	0.072	1.44%
QC value within limits for Fe	Recovery = 99.50%							
K†	50755.5	48.4	mg/L	0.05	48.4	mg/L	0.05	0.11%
QC value within limits for K	Recovery = 96.70%							
Mg†	118778.0	49.6	mg/L	0.04	49.6	mg/L	0.04	0.08%
QC value within limits for Mg	Recovery = 99.20%							
Mn†	3057521.5	5.30	mg/L	0.003	5.30	mg/L	0.003	0.05%
QC value within limits for Mn	Recovery = 105.94%							
Mo†	69886.5	5.15	mg/L	0.046	5.15	mg/L	0.046	0.89%
QC value within limits for Mo	Recovery = 102.92%							
Na†	202585.1	48.6	mg/L	0.22	48.6	mg/L	0.22	0.45%
QC value within limits for Na	Recovery = 97.22%							
Ni†	124263.8	5.31	mg/L	0.008	5.31	mg/L	0.008	0.16%
QC value within limits for Ni	Recovery = 106.20%							
Pb†	27699.0	5.27	mg/L	0.027	5.27	mg/L	0.027	0.52%
QC value within limits for Pb	Recovery = 105.46%							
Sb†	8316.9	4.86	mg/L	0.054	4.86	mg/L	0.054	1.10%
QC value within limits for Sb	Recovery = 97.12%							
Se†	7284.7	5.12	mg/L	0.073	5.12	mg/L	0.073	1.43%
QC value within limits for Se	Recovery = 102.39%							
Tl†	15489.7	5.40	mg/L	0.017	5.40	mg/L	0.017	0.32%
QC value within limits for Tl	Recovery = 108.02%							
V†	870177.0	5.19	mg/L	0.000	5.19	mg/L	0.000	0.01%
QC value within limits for V	Recovery = 103.87%							
Zn†	273377.1	5.30	mg/L	0.001	5.30	mg/L	0.001	0.02%
QC value within limits for Zn	Recovery = 106.04%							
Alx†	363161.3	5050	ug/L	1.5	5.05	mg/L	0.002	0.03%
QC value within limits for Alx	Recovery = 101.01%							
Bex†	6570576.2	2100	ug/L	15.8	2.10	mg/L	0.016	0.75%
QC value within limits for Bex	Recovery = 105.22%							

All analyte(s) passed QC.

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

Autosampler Location: 0
Date Collected: 1/9/2008 16:34:29
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	439730.6	99.7	%	0.10				0.10%
Yr	238293.9	102	%	0.8				0.79%
Ag†	71.7	0.00026	mg/L	0.000346	0.00026	mg/L	0.000346	134.98%
QC value within limits for Ag	Recovery = Not calculated							
Al†	-4.0	-0.00101	mg/L	0.002412	-0.00101	mg/L	0.002412	239.43%
QC value within limits for Al	Recovery = Not calculated							
As†	9.6	0.00431	mg/L	0.000008	0.00431	mg/L	0.000008	0.19%
QC value within limits for As	Recovery = Not calculated							
B_†	659.6	0.0211	mg/L	0.00054	0.0211	mg/L	0.00054	2.56%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	-5.5	-0.00007	mg/L	0.000069	-0.00007	mg/L	0.000069	96.47%
QC value within limits for Ba	Recovery = Not calculated							
Be†	235.3	0.00008	mg/L	0.000021	0.00008	mg/L	0.000021	27.69%
QC value within limits for Be	Recovery = Not calculated							
Ca†	14.9	0.00227	mg/L	0.000900	0.00227	mg/L	0.000900	39.69%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	13.6	0.00041	mg/L	0.000167	0.00041	mg/L	0.000167	40.44%
QC value within limits for Cd	Recovery = Not calculated							
Co†	2.4	0.00011	mg/L	0.000108	0.00011	mg/L	0.000108	95.68%
QC value within limits for Co	Recovery = Not calculated							
Cr†	13.4	0.00017	mg/L	0.000092	0.00017	mg/L	0.000092	53.63%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	64.9	0.00017	mg/L	0.000051	0.00017	mg/L	0.000051	29.92%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	-0.6	-0.00074	mg/L	0.000028	-0.00074	mg/L	0.000028	3.82%
QC value within limits for Fe	Recovery = Not calculated							
K†	38.3	0.0365	mg/L	0.00580	0.0365	mg/L	0.00580	15.90%
QC value within limits for K	Recovery = Not calculated							
Mg†	3.1	0.00128	mg/L	0.000214	0.00128	mg/L	0.000214	16.70%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-267.3	-0.00046	mg/L	0.000004	-0.00046	mg/L	0.000004	0.76%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	19.7	0.00145	mg/L	0.000208	0.00145	mg/L	0.000208	14.35%
QC value within limits for Mo	Recovery = Not calculated							
Na†	97.6	0.0234	mg/L	0.00872	0.0234	mg/L	0.00872	37.23%
QC value within limits for Na	Recovery = Not calculated							
Ni†	-0.4	-0.00002	mg/L	0.000012	-0.00002	mg/L	0.000012	76.36%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	15.2	0.00290	mg/L	0.000027	0.00290	mg/L	0.000027	0.92%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	23.3	0.0138	mg/L	0.00007	0.0138	mg/L	0.00007	0.51%
QC value within limits for Sb	Recovery = Not calculated							
Se†	8.5	0.00598	mg/L	0.000773	0.00598	mg/L	0.000773	12.94%
QC value within limits for Se	Recovery = Not calculated							
Tl†	8.2	0.00286	mg/L	0.001179	0.00286	mg/L	0.001179	41.25%
QC value within limits for Tl	Recovery = Not calculated							
V†	-1.4	-0.00001	mg/L	0.000037	-0.00001	mg/L	0.000037	500.53%
QC value within limits for V	Recovery = Not calculated							
Zn†	39.6	0.00077	mg/L	0.000004	0.00077	mg/L	0.000004	0.46%
QC value within limits for Zn	Recovery = Not calculated							
Alx†	66.7	0.927	ug/L	0.4252	0.00093	mg/L	0.000425	45.86%
QC value within limits for Alx	Recovery = Not calculated							
Bex†	235.3	0.0754	ug/L	0.02087	0.00008	mg/L	0.000021	27.69%
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: 1/9/2008 16:37:03
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	441226.9	100	%	0.4				0.42%
Yr	239238.6	102	%	0.7				0.65%
Agt	20.5	0.00007	mg/L	0.000134	0.00007	mg/L	0.000134	182.64%
QC value within limits for Ag	Recovery = Not calculated							
Alt	17.8	0.00447	mg/L	0.003766	0.00447	mg/L	0.003766	84.24%
QC value within limits for Al	Recovery = Not calculated							
Ast	6.2	0.00279	mg/L	0.000723	0.00279	mg/L	0.000723	25.94%
QC value within limits for As	Recovery = Not calculated							
B_t	550.7	0.0177	mg/L	0.00004	0.0177	mg/L	0.00004	0.22%
QC value within limits for B_	Recovery = Not calculated							
Bat	-0.0	0.00000	mg/L	0.000024	0.00000	mg/L	0.000024	>999.9%
QC value within limits for Ba	Recovery = Not calculated							
Bet	141.4	0.00005	mg/L	0.000017	0.00005	mg/L	0.000017	38.44%
QC value within limits for Be	Recovery = Not calculated							
Cat	22.7	0.00346	mg/L	0.000634	0.00346	mg/L	0.000634	18.29%
QC value within limits for Ca	Recovery = Not calculated							
Cdt	9.0	0.00027	mg/L	0.000120	0.00027	mg/L	0.000120	44.27%
QC value within limits for Cd	Recovery = Not calculated							
Cot	-0.4	-0.00002	mg/L	0.000035	-0.00002	mg/L	0.000035	174.57%
QC value within limits for Co	Recovery = Not calculated							
Crt	0.0	0.00000	mg/L	0.000030	0.00000	mg/L	0.000030	>999.9%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-32.9	-0.00009	mg/L	0.000127	-0.00009	mg/L	0.000127	145.95%
QC value within limits for Cu	Recovery = Not calculated							
Fet	-2.0	-0.00233	mg/L	0.000324	-0.00233	mg/L	0.000324	13.90%
QC value within limits for Fe	Recovery = Not calculated							
Kt	14.8	0.0141	mg/L	0.00618	0.0141	mg/L	0.00618	43.95%
QC value within limits for K	Recovery = Not calculated							
Mgt	5.2	0.00219	mg/L	0.000259	0.00219	mg/L	0.000259	11.83%
QC value within limits for Mg	Recovery = Not calculated							
Mnt	-282.2	-0.00049	mg/L	0.000000	-0.00049	mg/L	0.000000	0.10%
QC value within limits for Mn	Recovery = Not calculated							
Mot	9.4	0.00069	mg/L	0.000317	0.00069	mg/L	0.000317	45.87%
QC value within limits for Mo	Recovery = Not calculated							
Nat	86.8	0.0208	mg/L	0.00146	0.0208	mg/L	0.00146	7.03%
QC value within limits for Na	Recovery = Not calculated							
Nit	2.4	0.00010	mg/L	0.000269	0.00010	mg/L	0.000269	259.66%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	10.3	0.00197	mg/L	0.000960	0.00197	mg/L	0.000960	48.81%
QC value within limits for Pb	Recovery = Not calculated							
Sbt	9.8	0.00579	mg/L	0.001799	0.00579	mg/L	0.001799	31.05%
QC value within limits for Sb	Recovery = Not calculated							
Set	-4.6	-0.00320	mg/L	0.004142	-0.00320	mg/L	0.004142	129.30%
QC value within limits for Se	Recovery = Not calculated							
Tlt	8.2	0.00286	mg/L	0.001591	0.00286	mg/L	0.001591	55.53%
QC value within limits for Tl	Recovery = Not calculated							
Vt	-5.7	-0.00003	mg/L	0.000020	-0.00003	mg/L	0.000020	58.51%
QC value within limits for V	Recovery = Not calculated							
Znt	26.3	0.00051	mg/L	0.000080	0.00051	mg/L	0.000080	15.66%
QC value within limits for Zn	Recovery = Not calculated							
Alxt	48.2	0.670	ug/L	0.7981	0.00067	mg/L	0.000798	119.08%
QC value within limits for Alx	Recovery = Not calculated							
Bext	141.4	0.0453	ug/L	0.01741	0.00005	mg/L	0.000017	38.44%
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: 1/9/2008 16:40:27
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	437991.6	99.4	%	0.37				0.37%
Yr	235924.9	101	%	0.3				0.33%
Agt	2965.3	0.0106	mg/L	0.00001	0.0106	mg/L	0.00001	0.11%
QC value within limits for Ag	Recovery = 106.15%							
Alt	221.7	0.0556	mg/L	0.00624	0.0556	mg/L	0.00624	11.23%
QC value within limits for Al	Recovery = 111.15%							
Ast	214.5	0.0964	mg/L	0.00111	0.0964	mg/L	0.00111	1.15%
QC value within limits for As	Recovery = 96.43%							
B_t	2096.8	0.0671	mg/L	0.00191	0.0671	mg/L	0.00191	2.85%
QC value within limits for B_	Recovery = 134.21%							
Bat	1669.8	0.0220	mg/L	0.00007	0.0220	mg/L	0.00007	0.33%
QC value within limits for Ba	Recovery = 109.77%							
Bet	3509.2	0.00112	mg/L	0.000008	0.00112	mg/L	0.000008	0.68%
QC value within limits for Be	Recovery = 112.40%							
Cat	6673.2	1.02	mg/L	0.002	1.02	mg/L	0.002	0.20%
QC value within limits for Ca	Recovery = 101.64%							
Cdt	192.1	0.00542	mg/L	0.000119	0.00542	mg/L	0.000119	2.20%
QC value within limits for Cd	Recovery = 108.44%							
Cot	1198.7	0.0570	mg/L	0.00017	0.0570	mg/L	0.00017	0.30%
QC value within limits for Co	Recovery = 114.08%							
Crt	865.7	0.0111	mg/L	0.00002	0.0111	mg/L	0.00002	0.14%
QC value within limits for Cr	Recovery = 110.51%							
Cut	4176.5	0.0111	mg/L	0.00035	0.0111	mg/L	0.00035	3.19%
QC value within limits for Cu	Recovery = 110.85%							
Fet	14.2	0.0165	mg/L	0.00124	0.0165	mg/L	0.00124	7.52%
QC value within limits for Fe	Recovery = 82.73%							
Kt	1045.2	0.996	mg/L	0.0444	0.996	mg/L	0.0444	4.46%
QC value within limits for K	Recovery = 99.57%							
Mgt	250.8	0.105	mg/L	0.0006	0.105	mg/L	0.0006	0.54%
QC value within limits for Mg	Recovery = 104.72%							
Mnt	1096.6	0.00190	mg/L	0.000014	0.00190	mg/L	0.000014	0.75%
QC value within limits for Mn	Recovery = 95.00%							
Mot	287.4	0.0212	mg/L	0.00033	0.0212	mg/L	0.00033	1.58%
QC value within limits for Mo	Recovery = 105.81%							
Nat	4214.6	1.01	mg/L	0.005	1.01	mg/L	0.005	0.47%
QC value within limits for Na	Recovery = 101.13%							
Nit	532.9	0.0228	mg/L	0.00011	0.0228	mg/L	0.00011	0.48%
QC value within limits for Ni	Recovery = 113.87%							
Pbt	132.3	0.0252	mg/L	0.00041	0.0252	mg/L	0.00041	1.64%
QC value within limits for Pb	Recovery = 125.94%							
Sbt	81.4	0.0481	mg/L	0.00092	0.0481	mg/L	0.00092	1.92%
QC value within limits for Sb	Recovery = 96.26%							
Set	147.4	0.103	mg/L	0.0069	0.103	mg/L	0.0069	6.70%
QC value within limits for Se	Recovery = 103.41%							
Tlt	353.9	0.123	mg/L	0.0046	0.123	mg/L	0.0046	3.76%
QC value within limits for Tl	Recovery = 123.08%							
Vt	345.0	0.00211	mg/L	0.000239	0.00211	mg/L	0.000239	11.33%
QC value within limits for V	Recovery = 105.43%							
Znt	1162.3	0.0225	mg/L	0.00009	0.0225	mg/L	0.00009	0.41%
QC value within limits for Zn	Recovery = 112.71%							
Alxt	3652.8	50.8	ug/L	0.84	0.0508	mg/L	0.00084	1.65%
QC value within limits for Alx	Recovery = 101.60%							
Bext	3509.2	1.12	ug/L	0.008	0.00112	mg/L	0.000008	0.68%
QC value within limits for Bex	Recovery = 112.40%							

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: MRL/20G
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 27
Date Collected: 1/9/2008 16:44:04
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL/20G

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MRL/20G

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	441665.4	100	%	0.1				0.09%
Yr	238838.0	102	%	0.3				0.29%
Agt	121.5	0.00043	mg/L	0.000129	0.00043	mg/L	0.000129	29.60%
Alt	32.8	0.00823	mg/L	0.009515	0.00823	mg/L	0.009515	115.61%
Ast	14.5	0.00650	mg/L	0.000235	0.00650	mg/L	0.000235	3.61%
B_t	503.9	0.0161	mg/L	0.00017	0.0161	mg/L	0.00017	1.05%
Bat	87.4	0.00115	mg/L	0.000066	0.00115	mg/L	0.000066	5.78%
Bet	317.2	0.00010	mg/L	0.000004	0.00010	mg/L	0.000004	3.53%
Cat	461.4	0.0703	mg/L	0.00128	0.0703	mg/L	0.00128	1.82%
Cdt	17.4	0.00052	mg/L	0.000154	0.00052	mg/L	0.000154	29.57%
Cot	63.1	0.00300	mg/L	0.000121	0.00300	mg/L	0.000121	4.02%
Crt	60.6	0.00077	mg/L	0.000030	0.00077	mg/L	0.000030	3.93%
Cut	331.7	0.00088	mg/L	0.000219	0.00088	mg/L	0.000219	24.89%
Fet	-0.7	-0.00081	mg/L	0.003481	-0.00081	mg/L	0.003481	429.97%
Kt	26.1	0.0248	mg/L	0.00543	0.0248	mg/L	0.00543	21.86%
Mgt	15.5	0.00646	mg/L	0.000101	0.00646	mg/L	0.000101	1.56%
Mnt	-179.9	-0.00031	mg/L	0.000005	-0.00031	mg/L	0.000005	1.52%
Mot	17.9	0.00132	mg/L	0.000039	0.00132	mg/L	0.000039	2.93%
Nat	259.7	0.0623	mg/L	0.01287	0.0623	mg/L	0.01287	20.65%
Nit	33.4	0.00143	mg/L	0.000160	0.00143	mg/L	0.000160	11.24%
Pbt	8.8	0.00168	mg/L	0.000253	0.00168	mg/L	0.000253	15.09%
Sbt	10.5	0.00621	mg/L	0.002425	0.00621	mg/L	0.002425	39.03%
Set	9.3	0.00652	mg/L	0.004662	0.00652	mg/L	0.004662	71.48%
Tlt	19.3	0.00673	mg/L	0.000723	0.00673	mg/L	0.000723	10.75%
Vt	61.7	0.00037	mg/L	0.000101	0.00037	mg/L	0.000101	27.39%
Znt	453.5	0.00885	mg/L	0.000172	0.00885	mg/L	0.000172	1.94%
Alxt	321.0	4.46	ug/L	0.163	0.00446	mg/L	0.000163	3.66%
Bext	317.2	0.102	ug/L	0.0036	0.00010	mg/L	0.000004	3.53%

Sequence No.: 15
Sample ID: MRL/10G
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 26
Date Collected: 1/9/2008 16:47:40
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL/10G

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MRL/10G

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	443069.1	101	%	0.1				0.12%
Yr	239840.8	103	%	0.1				0.06%
Agt	173.1	0.00062	mg/L	0.000052	0.00062	mg/L	0.000052	8.39%
Alt	28.6	0.00717	mg/L	0.009789	0.00717	mg/L	0.009789	136.44%
Ast	18.4	0.00828	mg/L	0.002453	0.00828	mg/L	0.002453	29.64%
B_t	508.3	0.0163	mg/L	0.00032	0.0163	mg/L	0.00032	1.98%
Bat	149.0	0.00196	mg/L	0.000035	0.00196	mg/L	0.000035	1.81%
Bet	476.1	0.00015	mg/L	0.000040	0.00015	mg/L	0.000040	26.37%
Cat	643.6	0.0980	mg/L	0.00059	0.0980	mg/L	0.00059	0.60%
Cdt	21.2	0.00063	mg/L	0.000093	0.00063	mg/L	0.000093	14.65%
Cot	105.0	0.00500	mg/L	0.000122	0.00500	mg/L	0.000122	2.44%
Crt	74.8	0.00096	mg/L	0.000068	0.00096	mg/L	0.000068	7.10%
Cut	343.9	0.00091	mg/L	0.000068	0.00091	mg/L	0.000068	7.40%
Fet	2.6	0.00299	mg/L	0.001183	0.00299	mg/L	0.001183	39.52%
Kt	145.7	0.139	mg/L	0.0121	0.139	mg/L	0.0121	8.71%
Mgt	23.2	0.00968	mg/L	0.000135	0.00968	mg/L	0.000135	1.39%
Mnt	-162.8	-0.00028	mg/L	0.000028	-0.00028	mg/L	0.000028	9.76%
Mot	23.9	0.00176	mg/L	0.000108	0.00176	mg/L	0.000108	6.15%
Nat	480.3	0.115	mg/L	0.0158	0.115	mg/L	0.0158	13.69%
Nit	51.9	0.00222	mg/L	0.000125	0.00222	mg/L	0.000125	5.65%
Pbt	9.2	0.00176	mg/L	0.000667	0.00176	mg/L	0.000667	37.95%
Sbt	11.6	0.00686	mg/L	0.003310	0.00686	mg/L	0.003310	48.28%
Set	11.0	0.00775	mg/L	0.001593	0.00775	mg/L	0.001593	20.55%
Tlt	44.5	0.0155	mg/L	0.00087	0.0155	mg/L	0.00087	5.61%
Vt	91.2	0.00055	mg/L	0.000148	0.00055	mg/L	0.000148	26.99%
Znt	211.1	0.00411	mg/L	0.000083	0.00411	mg/L	0.000083	2.03%
Alxt	402.1	5.59	ug/L	0.016	0.00559	mg/L	0.000016	0.29%
Bext	476.1	0.152	ug/L	0.0402	0.00015	mg/L	0.000040	26.37%

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

Autosampler Location: 16
Date Collected: 1/9/2008 16:51:18
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL/2

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MRL/2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	439986.9	99.8	%	0.27				0.27%
Yr	236402.2	101	%	0.2				0.19%
Agt	1449.4	0.00519	mg/L	0.000088	0.00519	mg/L	0.000088	1.70%
Alt	117.7	0.0295	mg/L	0.00478	0.0295	mg/L	0.00478	16.21%
Ast	108.8	0.0489	mg/L	0.00047	0.0489	mg/L	0.00047	0.97%
B_t	1115.5	0.0357	mg/L	0.00022	0.0357	mg/L	0.00022	0.62%
Bat	838.4	0.0110	mg/L	0.00005	0.0110	mg/L	0.00005	0.48%
Bet	1804.8	0.00058	mg/L	0.000001	0.00058	mg/L	0.000001	0.09%
Cat	3435.9	0.523	mg/L	0.0010	0.523	mg/L	0.0010	0.18%
Cdt	98.2	0.00278	mg/L	0.000070	0.00278	mg/L	0.000070	2.51%
Cot	602.9	0.0287	mg/L	0.00031	0.0287	mg/L	0.00031	1.08%
Crt	435.7	0.00556	mg/L	0.000148	0.00556	mg/L	0.000148	2.67%
Cut	2024.1	0.00537	mg/L	0.000090	0.00537	mg/L	0.000090	1.67%
Fet	7.7	0.00891	mg/L	0.000596	0.00891	mg/L	0.000596	6.69%
Kt	508.9	0.485	mg/L	0.0293	0.485	mg/L	0.0293	6.04%
Mgt	127.9	0.0534	mg/L	0.00075	0.0534	mg/L	0.00075	1.40%
Mnt	400.2	0.00069	mg/L	0.000004	0.00069	mg/L	0.000004	0.62%
Mot	147.2	0.0108	mg/L	0.00034	0.0108	mg/L	0.00034	3.17%
Nat	2141.3	0.514	mg/L	0.0104	0.514	mg/L	0.0104	2.03%
Nit	264.5	0.0113	mg/L	0.00005	0.0113	mg/L	0.00005	0.42%
Pbt	64.9	0.0124	mg/L	0.00030	0.0124	mg/L	0.00030	2.44%
Sbt	43.8	0.0259	mg/L	0.00394	0.0259	mg/L	0.00394	15.20%
Set	75.4	0.0529	mg/L	0.00487	0.0529	mg/L	0.00487	9.21%
Tlt	180.0	0.0626	mg/L	0.00246	0.0626	mg/L	0.00246	3.93%
Vt	202.4	0.00123	mg/L	0.000031	0.00123	mg/L	0.000031	2.55%
Znt	778.8	0.0151	mg/L	0.00000	0.0151	mg/L	0.00000	0.02%
Alxt	1869.2	26.0	ug/L	0.27	0.0260	mg/L	0.00027	1.03%
Bext	1804.8	0.578	ug/L	0.0005	0.00058	mg/L	0.000001	0.09%

Sequence No.: 17
Sample ID: MRL/5
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 17
Date Collected: 1/9/2008 16:54:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL/5

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MRL/5

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	441673.9	100	%	1.8				1.84%
Yr	236942.1	101	%	0.1				0.08%
Agt	622.1	0.00223	mg/L	0.000121	0.00223	mg/L	0.000121	5.41%
Alt	26.4	0.00661	mg/L	0.005930	0.00661	mg/L	0.005930	89.76%
Ast	45.4	0.0204	mg/L	0.00185	0.0204	mg/L	0.00185	9.09%
B_t	596.5	0.0191	mg/L	0.00001	0.0191	mg/L	0.00001	0.07%
Bat	329.6	0.00433	mg/L	0.000037	0.00433	mg/L	0.000037	0.85%
Bet	835.4	0.00027	mg/L	0.000012	0.00027	mg/L	0.000012	4.38%
Cat	1446.3	0.220	mg/L	0.0020	0.220	mg/L	0.0020	0.91%
Cdt	38.1	0.00105	mg/L	0.000006	0.00105	mg/L	0.000006	0.59%
Cot	232.2	0.0111	mg/L	0.00003	0.0111	mg/L	0.00003	0.31%
Crt	173.9	0.00222	mg/L	0.000028	0.00222	mg/L	0.000028	1.25%
Cut	825.5	0.00219	mg/L	0.000156	0.00219	mg/L	0.000156	7.12%
Fet	2.8	0.00328	mg/L	0.002162	0.00328	mg/L	0.002162	65.99%
Kt	246.5	0.235	mg/L	0.0534	0.235	mg/L	0.0534	22.73%
Mgt	55.9	0.0233	mg/L	0.00036	0.0233	mg/L	0.00036	1.52%
Mnt	2.3	0.00000	mg/L	0.000031	0.00000	mg/L	0.000031	784.46%
Mot	59.6	0.00439	mg/L	0.000546	0.00439	mg/L	0.000546	12.44%
Nat	887.3	0.213	mg/L	0.0010	0.213	mg/L	0.0010	0.49%
Nit	108.2	0.00463	mg/L	0.000529	0.00463	mg/L	0.000529	11.43%
Pbt	27.9	0.00531	mg/L	0.000495	0.00531	mg/L	0.000495	9.32%
Sbt	19.0	0.0112	mg/L	0.00102	0.0112	mg/L	0.00102	9.10%
Set	30.7	0.0215	mg/L	0.00376	0.0215	mg/L	0.00376	17.46%
Tlt	71.8	0.0250	mg/L	0.00039	0.0250	mg/L	0.00039	1.55%
Vt	20.2	0.00013	mg/L	0.000263	0.00013	mg/L	0.000263	199.61%
Znt	446.7	0.00869	mg/L	0.000134	0.00869	mg/L	0.000134	1.54%
Alxt	794.7	11.1	ug/L	0.30	0.0111	mg/L	0.00030	2.71%
Bext	835.4	0.268	ug/L	0.0117	0.00027	mg/L	0.000012	4.38%

Sequence No.: 18
Sample ID: FILTERCHECK
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 18
Date Collected: 1/9/2008 16:58:29
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: FILTERCHECK

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: FILTERCHECK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	442907.5	100	%	0.0				0.03%
Yr	239584.4	102	%	0.8				0.76%
Al†	17.2	0.00431	mg/L	0.002281	0.00431	mg/L	0.002281	52.89%
B_†	246.8	0.00791	mg/L	0.000133	0.00791	mg/L	0.000133	1.68%
Ba†	202.6	0.00266	mg/L	0.000005	0.00266	mg/L	0.000005	0.20%
Be†	197.9	0.00006	mg/L	0.000019	0.00006	mg/L	0.000019	29.44%
Ca†	820.8	0.125	mg/L	0.0023	0.125	mg/L	0.0023	1.87%
Cd†	5.8	0.00021	mg/L	0.000157	0.00021	mg/L	0.000157	75.32%
Co†	1.5	0.00007	mg/L	0.000103	0.00007	mg/L	0.000103	143.13%
Cr†	-9.7	-0.00012	mg/L	0.000017	-0.00012	mg/L	0.000017	13.46%
Cu†	408.9	0.00108	mg/L	0.000117	0.00108	mg/L	0.000117	10.79%
Fe†	-0.3	-0.00029	mg/L	0.002653	-0.00029	mg/L	0.002653	906.47%
K†	55.0	0.0524	mg/L	0.03022	0.0524	mg/L	0.03022	57.64%
Mg†	31.9	0.0133	mg/L	0.00005	0.0133	mg/L	0.00005	0.40%
Mn†	-266.4	-0.00046	mg/L	0.000005	-0.00046	mg/L	0.000005	1.10%
Mo†	0.3	0.00002	mg/L	0.000277	0.00002	mg/L	0.000277	>999.9%
Na†	94.9	0.0228	mg/L	0.00619	0.0228	mg/L	0.00619	27.18%
Ni†	7.5	0.00032	mg/L	0.000373	0.00032	mg/L	0.000373	116.75%
Pb†	2.9	0.00056	mg/L	0.000572	0.00056	mg/L	0.000572	102.07%
V†	-1.5	-0.00001	mg/L	0.000005	-0.00001	mg/L	0.000005	52.93%
Zn†	17257.0	0.337	mg/L	0.0000	0.337	mg/L	0.0000	0.01%

Sequence No.: 19
Sample ID: MBLANK
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 38
Date Collected: 1/9/2008 17:02:05
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MBLANK

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MBLANK

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	444353.7	101	%	1.0				0.97%
Yr	237775.6	102	%	0.3				0.28%
Al†	21.3	0.00533	mg/L	0.002386	0.00533	mg/L	0.002386	44.77%
B_†	209.0	0.00670	mg/L	0.000229	0.00670	mg/L	0.000229	3.42%
Ba†	4.2	0.00006	mg/L	0.000014	0.00006	mg/L	0.000014	25.45%
Be†	239.4	0.00008	mg/L	0.000019	0.00008	mg/L	0.000019	24.17%
Ca†	86.8	0.0132	mg/L	0.00062	0.0132	mg/L	0.00062	4.71%
Cd†	5.5	0.00020	mg/L	0.000201	0.00020	mg/L	0.000201	101.22%
Co†	8.8	0.00042	mg/L	0.000008	0.00042	mg/L	0.000008	1.88%
Cr†	1.7	0.00002	mg/L	0.000043	0.00002	mg/L	0.000043	193.69%
Cu†	-81.2	-0.00021	mg/L	0.000189	-0.00021	mg/L	0.000189	88.19%
Fe†	-1.2	-0.00136	mg/L	0.004944	-0.00136	mg/L	0.004944	363.71%
K†	25.8	0.0246	mg/L	0.01613	0.0246	mg/L	0.01613	65.68%
Mg†	1.0	0.00040	mg/L	0.001546	0.00040	mg/L	0.001546	382.36%
Mn†	-297.1	-0.00051	mg/L	0.000024	-0.00051	mg/L	0.000024	4.57%
Mo†	-2.1	-0.00016	mg/L	0.000105	-0.00016	mg/L	0.000105	66.39%
Na†	49.9	0.0120	mg/L	0.01017	0.0120	mg/L	0.01017	84.96%
Ni†	5.7	0.00024	mg/L	0.000186	0.00024	mg/L	0.000186	75.88%
Pb†	-1.3	-0.00025	mg/L	0.000718	-0.00025	mg/L	0.000718	286.86%
V†	-2.6	-0.00002	mg/L	0.000073	-0.00002	mg/L	0.000073	484.09%
Zn†	253.7	0.00495	mg/L	0.000250	0.00495	mg/L	0.000250	5.04%

Sequence No.: 20
Sample ID: LCS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 39
Date Collected: 1/9/2008 17:05:42
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCS

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: LCS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	428278.4	97.2	%	0.07				0.07%
Yr	229739.8	98.2	%	0.32				0.32%
Alt	7694.2	1.93	mg/L	0.040	1.93	mg/L	0.040	2.06%
B_t	15744.6	0.503	mg/L	0.0050	0.503	mg/L	0.0050	0.99%
Bat	78559.3	1.03	mg/L	0.001	1.03	mg/L	0.001	0.08%
Bet	164082.1	0.0526	mg/L	0.00010	0.0526	mg/L	0.00010	0.18%
Cat	328737.7	50.1	mg/L	0.06	50.1	mg/L	0.06	0.12%
Cdt	5934.5	0.217	mg/L	0.0042	0.217	mg/L	0.0042	1.96%
Cot	22415.1	1.07	mg/L	0.015	1.07	mg/L	0.015	1.37%
Crt	80699.3	1.03	mg/L	0.003	1.03	mg/L	0.003	0.28%
Cut	390383.7	1.03	mg/L	0.003	1.03	mg/L	0.003	0.26%
Fet	4248.4	4.93	mg/L	0.099	4.93	mg/L	0.099	2.01%
Kt	20449.4	19.5	mg/L	0.15	19.5	mg/L	0.15	0.78%
Mgt	47728.3	19.9	mg/L	0.34	19.9	mg/L	0.34	1.69%
Mnt	305752.4	0.530	mg/L	0.0011	0.530	mg/L	0.0011	0.20%
Mot	13824.0	1.02	mg/L	0.008	1.02	mg/L	0.008	0.83%
Nat	200444.0	48.1	mg/L	0.07	48.1	mg/L	0.07	0.14%
Nit	12325.8	0.527	mg/L	0.0060	0.527	mg/L	0.0060	1.13%
Pbt	5636.1	1.07	mg/L	0.011	1.07	mg/L	0.011	1.07%
Vt	171865.5	1.03	mg/L	0.003	1.03	mg/L	0.003	0.30%
Znt	54601.0	1.06	mg/L	0.010	1.06	mg/L	0.010	0.96%

Sequence No.: 21
Sample ID: LCSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 40
Date Collected: 1/9/2008 17:08:47
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSD

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: LCSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	425862.3	96.6	%	0.33				0.35%
Yr	230930.8	98.7	%	1.39				1.41%
Alt	7471.5	1.87	mg/L	0.013	1.87	mg/L	0.013	0.72%
B_t	15612.3	0.498	mg/L	0.0039	0.498	mg/L	0.0039	0.78%
Bat	78061.8	1.03	mg/L	0.008	1.03	mg/L	0.008	0.81%
Bet	162596.3	0.0521	mg/L	0.00019	0.0521	mg/L	0.00019	0.36%
Cat	328277.1	50.0	mg/L	0.01	50.0	mg/L	0.01	0.01%
Cdt	5901.2	0.215	mg/L	0.0025	0.215	mg/L	0.0025	1.16%
Cot	21974.6	1.05	mg/L	0.003	1.05	mg/L	0.003	0.26%
Crt	79924.7	1.02	mg/L	0.003	1.02	mg/L	0.003	0.31%
Cut	387206.3	1.02	mg/L	0.001	1.02	mg/L	0.001	0.08%
Fet	4204.6	4.88	mg/L	0.049	4.88	mg/L	0.049	1.01%
Kt	20173.2	19.2	mg/L	0.17	19.2	mg/L	0.17	0.90%
Mgt	47303.6	19.8	mg/L	0.09	19.8	mg/L	0.09	0.44%
Mnt	302258.4	0.524	mg/L	0.0025	0.524	mg/L	0.0025	0.47%
Mot	13630.5	1.00	mg/L	0.004	1.00	mg/L	0.004	0.44%
Nat	198096.2	47.5	mg/L	0.06	47.5	mg/L	0.06	0.12%
Nit	12199.6	0.521	mg/L	0.0031	0.521	mg/L	0.0031	0.59%
Pbt	5647.3	1.08	mg/L	0.005	1.08	mg/L	0.005	0.46%
Vt	170176.5	1.02	mg/L	0.002	1.02	mg/L	0.002	0.24%
Znt	53964.6	1.05	mg/L	0.007	1.05	mg/L	0.007	0.67%

Sequence No.: 22
Sample ID: 2801080677
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 41
Date Collected: 1/9/2008 17:11:52
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801080677

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2801080677

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	411070.1	93.2	%	1.14				1.22%
Yr	233443.9	99.8	%	0.44				0.44%
Alt	96.1	0.0241	mg/L	0.00125	0.0241	mg/L	0.00125	5.19%
B_t	3876.1	0.124	mg/L	0.0018	0.124	mg/L	0.0018	1.43%
Bat	3892.6	0.0512	mg/L	0.00047	0.0512	mg/L	0.00047	0.92%
Bet	-266.1	-0.00009	mg/L	0.000048	-0.00009	mg/L	0.000048	55.85%
Cat	256010.4	39.0	mg/L	0.04	39.0	mg/L	0.04	0.09%
Cdt	-3.3	-0.00012	mg/L	0.000096	-0.00012	mg/L	0.000096	79.67%
Cot	-7.4	-0.00035	mg/L	0.000239	-0.00035	mg/L	0.000239	67.67%
Crt	163.5	0.00209	mg/L	0.000228	0.00209	mg/L	0.000228	10.93%
Cut	1410.1	0.00372	mg/L	0.000253	0.00372	mg/L	0.000253	6.80%
Fet	9.8	0.0113	mg/L	0.00079	0.0113	mg/L	0.00079	6.96%
Kt	2528.1	2.41	mg/L	0.025	2.41	mg/L	0.025	1.04%
Mgt	28653.6	12.0	mg/L	0.04	12.0	mg/L	0.04	0.30%
Mnt	1803.1	0.00312	mg/L	0.000061	0.00312	mg/L	0.000061	1.95%
Mot	101.2	0.00745	mg/L	0.000001	0.00745	mg/L	0.000001	0.02%
Nat	218522.9	52.4	mg/L	0.08	52.4	mg/L	0.08	0.15%
Nit	-4.9	-0.00021	mg/L	0.000060	-0.00021	mg/L	0.000060	28.89%
Pbt	-13.8	-0.00263	mg/L	0.001819	-0.00263	mg/L	0.001819	69.16%
Vt	1465.3	0.00871	mg/L	0.000086	0.00871	mg/L	0.000086	0.99%
Znt	6248.7	0.122	mg/L	0.0012	0.122	mg/L	0.0012	1.01%

Sequence No.: 23
Sample ID: 2801080677MS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 42
Date Collected: 1/9/2008 17:16:09
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801080677MS

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2801080677MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	430381.0	97.6	%	0.32				0.32%
Yr	230186.2	98.4	%	0.29				0.29%
Alt	7667.5	1.92	mg/L	0.018	1.92	mg/L	0.018	0.93%
B_t	19015.6	0.608	mg/L	0.0062	0.608	mg/L	0.0062	1.02%
Bat	80347.3	1.06	mg/L	0.005	1.06	mg/L	0.005	0.44%
Bet	159654.4	0.0511	mg/L	0.00009	0.0511	mg/L	0.00009	0.17%
Cat	575195.3	87.6	mg/L	0.11	87.6	mg/L	0.11	0.12%
Cdt	5895.9	0.215	mg/L	0.0022	0.215	mg/L	0.0022	1.01%
Cot	21499.2	1.02	mg/L	0.011	1.02	mg/L	0.011	1.03%
Crt	78906.4	1.01	mg/L	0.005	1.01	mg/L	0.005	0.48%
Cut	371781.4	0.983	mg/L	0.0017	0.983	mg/L	0.0017	0.17%
Fet	4246.6	4.93	mg/L	0.077	4.93	mg/L	0.077	1.56%
Kt	23013.3	21.9	mg/L	0.23	21.9	mg/L	0.23	1.06%
Mgt	75119.6	31.4	mg/L	0.27	31.4	mg/L	0.27	0.87%
Mnt	301516.0	0.522	mg/L	0.0021	0.522	mg/L	0.0021	0.40%
Mot	12937.1	0.953	mg/L	0.0060	0.953	mg/L	0.0060	0.63%
Nat	412542.8	99.0	mg/L	0.26	99.0	mg/L	0.26	0.26%
Nit	11786.9	0.504	mg/L	0.0059	0.504	mg/L	0.0059	1.18%
Pbt	5484.4	1.04	mg/L	0.006	1.04	mg/L	0.006	0.61%
Vt	168863.0	1.01	mg/L	0.004	1.01	mg/L	0.004	0.40%
Znt	60673.2	1.18	mg/L	0.010	1.18	mg/L	0.010	0.85%

Sequence No.: 24
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/9/2008 17:19:14
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	418253.3	94.9	%	0.53				0.56%
Yr	228363.5	97.6	%	1.38				1.41%
Alt	19645.9	4.93	mg/L	0.037	4.93	mg/L	0.037	0.75%
QC value within limits for Al	Recovery = 98.51%							
B_t	80540.1	2.57	mg/L	0.004	2.57	mg/L	0.004	0.14%
QC value within limits for B_	Recovery = 102.84%							
Bat	400579.2	5.27	mg/L	0.008	5.27	mg/L	0.008	0.15%
QC value within limits for Ba	Recovery = 105.33%							
Bet	6549224.7	2.10	mg/L	0.017	2.10	mg/L	0.017	0.81%
QC value within limits for Be	Recovery = 104.88%							
Cat	327631.4	49.9	mg/L	0.09	49.9	mg/L	0.09	0.18%
QC value within limits for Ca	Recovery = 99.81%							
Cdt	58271.8	2.11	mg/L	0.001	2.11	mg/L	0.001	0.05%
QC value within limits for Cd	Recovery = 105.34%							
Cot	112146.1	5.34	mg/L	0.007	5.34	mg/L	0.007	0.13%
QC value within limits for Co	Recovery = 106.73%							
Crt	415371.1	5.30	mg/L	0.013	5.30	mg/L	0.013	0.24%
QC value within limits for Cr	Recovery = 106.05%							
Cut	1971856.9	5.21	mg/L	0.008	5.21	mg/L	0.008	0.14%
QC value within limits for Cu	Recovery = 104.26%							
Fet	4335.1	5.03	mg/L	0.002	5.03	mg/L	0.002	0.04%
QC value within limits for Fe	Recovery = 100.69%							
Kt	50182.3	47.8	mg/L	0.33	47.8	mg/L	0.33	0.69%
QC value within limits for K	Recovery = 95.61%							
Mgt	117422.4	49.0	mg/L	0.06	49.0	mg/L	0.06	0.12%
QC value within limits for Mg	Recovery = 98.06%							
Mnt	3060221.5	5.30	mg/L	0.015	5.30	mg/L	0.015	0.29%
QC value within limits for Mn	Recovery = 106.04%							
Mot	70197.3	5.17	mg/L	0.000	5.17	mg/L	0.000	0.00%
QC value within limits for Mo	Recovery = 103.37%							
Nat	198083.9	47.5	mg/L	0.03	47.5	mg/L	0.03	0.07%
QC value within limits for Na	Recovery = 95.06%							
Nit	124456.3	5.32	mg/L	0.013	5.32	mg/L	0.013	0.24%
QC value within limits for Ni	Recovery = 106.36%							
Pbt	28036.1	5.34	mg/L	0.008	5.34	mg/L	0.008	0.15%
QC value within limits for Pb	Recovery = 106.74%							
Vt	870350.0	5.19	mg/L	0.020	5.19	mg/L	0.020	0.39%
QC value within limits for V	Recovery = 103.89%							
Znt	273743.5	5.31	mg/L	0.011	5.31	mg/L	0.011	0.20%
QC value within limits for Zn	Recovery = 106.18%							

All analyte(s) passed QC.

Sequence No.: 25
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/9/2008 17:22:26
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	435733.5	98.8	%	0.64				0.64%
Yr	238531.4	102	%	1.0				1.02%
Al†	-6.2	-0.00156	mg/L	0.002644	-0.00156	mg/L	0.002644	169.89%
QC value within limits for Al	Recovery = Not calculated							
B_†	396.4	0.0127	mg/L	0.00054	0.0127	mg/L	0.00054	4.28%
QC value within limits for B_	Recovery = Not calculated							
Ba†	-7.3	-0.00010	mg/L	0.000002	-0.00010	mg/L	0.000002	2.17%
QC value within limits for Ba	Recovery = Not calculated							
Be†	128.6	0.00004	mg/L	0.000026	0.00004	mg/L	0.000026	64.02%
QC value within limits for Be	Recovery = Not calculated							
Ca†	14.6	0.00222	mg/L	0.002999	0.00222	mg/L	0.002999	135.16%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	12.5	0.00045	mg/L	0.000233	0.00045	mg/L	0.000233	52.19%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-1.6	-0.00008	mg/L	0.000038	-0.00008	mg/L	0.000038	48.09%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-1.0	-0.00001	mg/L	0.000044	-0.00001	mg/L	0.000044	342.43%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-10.9	-0.00003	mg/L	0.000099	-0.00003	mg/L	0.000099	343.74%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	-0.3	-0.00037	mg/L	0.004321	-0.00037	mg/L	0.004321	>999.9%
QC value within limits for Fe	Recovery = Not calculated							
K†	19.4	0.0185	mg/L	0.07719	0.0185	mg/L	0.07719	417.24%
QC value within limits for K	Recovery = Not calculated							
Mg†	2.6	0.00109	mg/L	0.000311	0.00109	mg/L	0.000311	28.57%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-315.8	-0.00055	mg/L	0.000016	-0.00055	mg/L	0.000016	2.97%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	25.2	0.00186	mg/L	0.000019	0.00186	mg/L	0.000019	1.03%
QC value within limits for Mo	Recovery = Not calculated							
Na†	84.0	0.0202	mg/L	0.01468	0.0202	mg/L	0.01468	72.83%
QC value within limits for Na	Recovery = Not calculated							
Ni†	5.4	0.00023	mg/L	0.000172	0.00023	mg/L	0.000172	74.71%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	2.3	0.00044	mg/L	0.000060	0.00044	mg/L	0.000060	13.70%
QC value within limits for Pb	Recovery = Not calculated							
V†	5.8	0.00003	mg/L	0.000015	0.00003	mg/L	0.000015	45.14%
QC value within limits for V	Recovery = Not calculated							
Zn†	36.6	0.00071	mg/L	0.000143	0.00071	mg/L	0.000143	20.02%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 26
Sample ID: 2801080677MSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 43
Date Collected: 1/9/2008 17:25:50
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801080677MSD

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2801080677MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	430220.2	97.6	%	0.05				0.05%
Yr	230407.0	98.5	%	1.18				1.20%
Alt	7823.6	1.96	mg/L	0.010	1.96	mg/L	0.010	0.51%
B_t	19121.5	0.611	mg/L	0.0005	0.611	mg/L	0.0005	0.08%
Bat	81130.7	1.07	mg/L	0.002	1.07	mg/L	0.002	0.19%
Bet	160400.8	0.0514	mg/L	0.00005	0.0514	mg/L	0.00005	0.10%
Cat	574189.3	87.5	mg/L	0.02	87.5	mg/L	0.02	0.02%
Cdt	5920.0	0.216	mg/L	0.0002	0.216	mg/L	0.0002	0.10%
Cot	21669.7	1.03	mg/L	0.005	1.03	mg/L	0.005	0.52%
Crt	79328.5	1.01	mg/L	0.001	1.01	mg/L	0.001	0.07%
Cut	376394.5	0.995	mg/L	0.0002	0.995	mg/L	0.0002	0.02%
Fet	4305.4	5.00	mg/L	0.001	5.00	mg/L	0.001	0.03%
Kt	23291.3	22.2	mg/L	0.02	22.2	mg/L	0.02	0.07%
Mgt	75386.2	31.5	mg/L	0.01	31.5	mg/L	0.01	0.02%
Mnt	304105.4	0.527	mg/L	0.0014	0.527	mg/L	0.0014	0.26%
Mot	12978.1	0.956	mg/L	0.0002	0.956	mg/L	0.0002	0.02%
Nat	414860.4	99.5	mg/L	0.38	99.5	mg/L	0.38	0.38%
Nit	11779.2	0.503	mg/L	0.0014	0.503	mg/L	0.0014	0.27%
Pbt	5494.5	1.05	mg/L	0.004	1.05	mg/L	0.004	0.35%
Vt	169969.2	1.01	mg/L	0.001	1.01	mg/L	0.001	0.05%
Znt	60556.9	1.18	mg/L	0.001	1.18	mg/L	0.001	0.10%

Sequence No.: 30
Sample ID: 2801080540
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 47
Date Collected: 1/9/2008 17:40:31
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801080540

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2801080540

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	344842.0	78.2	%	0.18				0.22%
Yr	206700.5	88.4	%	0.26				0.29%
Alt	106.2	0.0266	mg/L	0.01179	0.0266	mg/L	0.01179	44.25%
B_t	120719.4	3.87	mg/L	0.004	3.87	mg/L	0.004	0.10%
Bat	2054.7	0.0270	mg/L	0.00013	0.0270	mg/L	0.00013	0.50%
Bet	-2282.5	-0.00073	mg/L	0.000013	-0.00073	mg/L	0.000013	1.82%
Cat	2692706.2	410	mg/L	1.1	410	mg/L	1.1	0.27%
Cdt	1.1	0.00006	mg/L	0.000054	0.00006	mg/L	0.000054	88.78%
Cot	110.7	0.00527	mg/L	0.000262	0.00527	mg/L	0.000262	4.98%
Crt	1797.9	0.0230	mg/L	0.00000	0.0230	mg/L	0.00000	0.02%
Cut	1545.2	0.00409	mg/L	0.000043	0.00409	mg/L	0.000043	1.06%
Fet	48.6	0.0564	mg/L	0.01088	0.0564	mg/L	0.01088	19.28%
Kt	33714.3	32.1	mg/L	0.59	32.1	mg/L	0.59	1.85%
Mgt	445321.4	186	mg/L	0.1	186	mg/L	0.1	0.08%
Mnt	583569.9	1.01	mg/L	0.000	1.01	mg/L	0.000	0.00%
Mot	989.8	0.0729	mg/L	0.00066	0.0729	mg/L	0.00066	0.90%
Nat	5691926.2	1370	mg/L	0.5	1370	mg/L	0.5	0.04%
Nit	317.4	0.0136	mg/L	0.00002	0.0136	mg/L	0.00002	0.15%
Pbt	-62.0	-0.0118	mg/L	0.00081	-0.0118	mg/L	0.00081	6.83%
Vt	8028.8	0.0478	mg/L	0.00011	0.0478	mg/L	0.00011	0.23%
Znt	-1.1	-0.00011	mg/L	0.000243	-0.00011	mg/L	0.000243	213.96%

Sequence No.: 36
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/9/2008 18:05:55
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	414764.2	94.1	%	0.32				0.34%
Yr	225709.4	96.5	%	1.35				1.40%
Alt	19877.4	4.98	mg/L	0.019	4.98	mg/L	0.019	0.38%
QC value within limits for Al		Recovery = 99.67%						
B_t	81137.9	2.59	mg/L	0.010	2.59	mg/L	0.010	0.38%
QC value within limits for B_		Recovery = 103.61%						
Bat	401850.2	5.28	mg/L	0.010	5.28	mg/L	0.010	0.20%
QC value within limits for Ba		Recovery = 105.66%						
Bet	6676247.2	2.14	mg/L	0.017	2.14	mg/L	0.017	0.80%
QC value within limits for Be		Recovery = 106.92%						
Cat	331880.7	50.6	mg/L	0.12	50.6	mg/L	0.12	0.25%
QC value within limits for Ca		Recovery = 101.10%						
Cdt	58458.5	2.11	mg/L	0.004	2.11	mg/L	0.004	0.20%
QC value within limits for Cd		Recovery = 105.68%						
Cot	112906.0	5.37	mg/L	0.004	5.37	mg/L	0.004	0.08%
QC value within limits for Co		Recovery = 107.45%						
Crt	411210.9	5.25	mg/L	0.019	5.25	mg/L	0.019	0.36%
QC value within limits for Cr		Recovery = 104.99%						
Cut	1968027.8	5.20	mg/L	0.019	5.20	mg/L	0.019	0.37%
QC value within limits for Cu		Recovery = 104.06%						
Fet	4384.1	5.09	mg/L	0.041	5.09	mg/L	0.041	0.80%
QC value within limits for Fe		Recovery = 101.83%						
Kt	51328.3	48.9	mg/L	0.35	48.9	mg/L	0.35	0.71%
QC value within limits for K		Recovery = 97.79%						
Mgt	118447.7	49.5	mg/L	0.16	49.5	mg/L	0.16	0.31%
QC value within limits for Mg		Recovery = 98.92%						
Mnt	3070137.3	5.32	mg/L	0.004	5.32	mg/L	0.004	0.08%
QC value within limits for Mn		Recovery = 106.38%						
Mot	70375.1	5.18	mg/L	0.009	5.18	mg/L	0.009	0.18%
QC value within limits for Mo		Recovery = 103.64%						
Nat	201854.5	48.4	mg/L	0.12	48.4	mg/L	0.12	0.25%
QC value within limits for Na		Recovery = 96.87%						
Nit	124855.1	5.34	mg/L	0.017	5.34	mg/L	0.017	0.32%
QC value within limits for Ni		Recovery = 106.71%						
Pbt	28169.4	5.36	mg/L	0.006	5.36	mg/L	0.006	0.12%
QC value within limits for Pb		Recovery = 107.25%						
Vt	870478.2	5.20	mg/L	0.012	5.20	mg/L	0.012	0.24%
QC value within limits for V		Recovery = 103.90%						
Znt	275386.5	5.34	mg/L	0.014	5.34	mg/L	0.014	0.26%
QC value within limits for Zn		Recovery = 106.82%						

All analyte(s) passed QC.

Sequence No.: 37
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/9/2008 18:09:08
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	434100.9	98.5	%	0.20				0.20%
Yr	236958.3	101	%	0.4				0.42%
Al†	-6.7	-0.00167	mg/L	0.007070	-0.00167	mg/L	0.007070	423.94%
QC value within limits for Al	Recovery = Not calculated							
B_†	590.8	0.0189	mg/L	0.00010	0.0189	mg/L	0.00010	0.54%
QC value within limits for B_	Recovery = Not calculated							
Ba†	-1.5	-0.00002	mg/L	0.000022	-0.00002	mg/L	0.000022	110.14%
QC value within limits for Ba	Recovery = Not calculated							
Be†	22.4	0.00001	mg/L	0.000024	0.00001	mg/L	0.000024	327.87%
QC value within limits for Be	Recovery = Not calculated							
Ca†	17.8	0.00271	mg/L	0.001051	0.00271	mg/L	0.001051	38.75%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	5.9	0.00021	mg/L	0.000077	0.00021	mg/L	0.000077	36.45%
QC value within limits for Cd	Recovery = Not calculated							
Co†	0.1	0.00000	mg/L	0.000087	0.00000	mg/L	0.000087	>999.9%
QC value within limits for Co	Recovery = Not calculated							
Cr†	3.8	0.00005	mg/L	0.000109	0.00005	mg/L	0.000109	223.28%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	37.4	0.00010	mg/L	0.000184	0.00010	mg/L	0.000184	186.06%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	-0.8	-0.00088	mg/L	0.000365	-0.00088	mg/L	0.000365	41.52%
QC value within limits for Fe	Recovery = Not calculated							
K†	73.8	0.0703	mg/L	0.03290	0.0703	mg/L	0.03290	46.82%
QC value within limits for K	Recovery = Not calculated							
Mg†	5.8	0.00240	mg/L	0.000477	0.00240	mg/L	0.000477	19.83%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-318.2	-0.00055	mg/L	0.000007	-0.00055	mg/L	0.000007	1.18%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	20.7	0.00152	mg/L	0.000402	0.00152	mg/L	0.000402	26.41%
QC value within limits for Mo	Recovery = Not calculated							
Na†	247.9	0.0595	mg/L	0.00768	0.0595	mg/L	0.00768	12.91%
QC value within limits for Na	Recovery = Not calculated							
Ni†	4.2	0.00018	mg/L	0.000043	0.00018	mg/L	0.000043	23.84%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	11.7	0.00223	mg/L	0.000445	0.00223	mg/L	0.000445	19.90%
QC value within limits for Pb	Recovery = Not calculated							
V†	6.1	0.00004	mg/L	0.000023	0.00004	mg/L	0.000023	63.97%
QC value within limits for V	Recovery = Not calculated							
Zn†	37.6	0.00073	mg/L	0.000041	0.00073	mg/L	0.000041	5.54%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 38
Sample ID: MCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 1/9/2008 18:12:32
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MCV

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	421736.4	95.7	%	0.02				0.02%
Yr	230929.3	98.7	%	0.10				0.10%
Al†	9862.1	2.47	mg/L	0.027	2.47	mg/L	0.027	1.11%
QC value within limits for Al	Recovery = 98.90%							
B_†	40056.7	1.28	mg/L	0.001	1.28	mg/L	0.001	0.06%
QC value within limits for B_	Recovery = 102.29%							
Ba†	203279.5	2.67	mg/L	0.001	2.67	mg/L	0.001	0.02%
QC value within limits for Ba	Recovery = 106.90%							
Be†	3325167.6	1.07	mg/L	0.001	1.07	mg/L	0.001	0.10%
QC value within limits for Be	Recovery = 106.50%							
Ca†	164419.1	25.0	mg/L	0.03	25.0	mg/L	0.03	0.10%
QC value within limits for Ca	Recovery = 100.18%							
Cd†	28985.6	1.05	mg/L	0.001	1.05	mg/L	0.001	0.11%
QC value within limits for Cd	Recovery = 104.82%							
Co†	56923.2	2.71	mg/L	0.001	2.71	mg/L	0.001	0.04%
QC value within limits for Co	Recovery = 108.34%							
Cr†	206868.4	2.64	mg/L	0.003	2.64	mg/L	0.003	0.10%
QC value within limits for Cr	Recovery = 105.63%							
Cu†	995393.6	2.63	mg/L	0.001	2.63	mg/L	0.001	0.02%
QC value within limits for Cu	Recovery = 105.27%							
Fe†	2145.2	2.49	mg/L	0.008	2.49	mg/L	0.008	0.33%
QC value within limits for Fe	Recovery = 99.65%							
K†	24979.1	23.8	mg/L	0.25	23.8	mg/L	0.25	1.04%
QC value within limits for K	Recovery = 95.18%							
Mg†	59038.0	24.7	mg/L	0.08	24.7	mg/L	0.08	0.33%
QC value within limits for Mg	Recovery = 98.61%							
Mn†	1564102.4	2.71	mg/L	0.000	2.71	mg/L	0.000	0.02%
QC value within limits for Mn	Recovery = 108.39%							
Mo†	35094.0	2.58	mg/L	0.007	2.58	mg/L	0.007	0.25%
QC value within limits for Mo	Recovery = 103.36%							
Na†	99258.3	23.8	mg/L	0.16	23.8	mg/L	0.16	0.66%
QC value within limits for Na	Recovery = 95.27%							
Ni†	62716.0	2.68	mg/L	0.007	2.68	mg/L	0.007	0.26%
QC value within limits for Ni	Recovery = 107.20%							
Pb†	14099.6	2.68	mg/L	0.002	2.68	mg/L	0.002	0.07%
QC value within limits for Pb	Recovery = 107.36%							
V†	435183.4	2.60	mg/L	0.003	2.60	mg/L	0.003	0.11%
QC value within limits for V	Recovery = 103.89%							
Zn†	137844.5	2.67	mg/L	0.006	2.67	mg/L	0.006	0.22%
QC value within limits for Zn	Recovery = 106.93%							

All analyte(s) passed QC.

Sequence No.: 39
Sample ID: 2801080661
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 53
Date Collected: 1/9/2008 18:16:18
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801080661

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2801080661

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	417442.4	94.7	%	1.29				1.37%
Yr	234107.9	100	%	0.8				0.75%
Alt	-0.5	-0.00013	mg/L	0.002754	-0.00013	mg/L	0.002754	>999.9%
B_t	747.8	0.0240	mg/L	0.00058	0.0240	mg/L	0.00058	2.42%
Bat	265.9	0.00350	mg/L	0.000071	0.00350	mg/L	0.000071	2.03%
Bet	-161.0	-0.00005	mg/L	0.000066	-0.00005	mg/L	0.000066	127.75%
Cat	364807.4	55.6	mg/L	0.08	55.6	mg/L	0.08	0.15%
Cdt	-15.2	-0.00054	mg/L	0.000129	-0.00054	mg/L	0.000129	23.65%
Cot	-2.1	-0.00010	mg/L	0.000190	-0.00010	mg/L	0.000190	190.43%
Crt	51.0	0.00065	mg/L	0.000156	0.00065	mg/L	0.000156	24.02%
Cut	138.0	0.00036	mg/L	0.000181	0.00036	mg/L	0.000181	49.67%
Fet	-0.9	-0.00105	mg/L	0.001950	-0.00105	mg/L	0.001950	184.87%
Kt	318.8	0.304	mg/L	0.0218	0.304	mg/L	0.0218	7.19%
Mgt	12732.5	5.32	mg/L	0.017	5.32	mg/L	0.017	0.31%
Mnt	-565.5	-0.00098	mg/L	0.000004	-0.00098	mg/L	0.000004	0.37%
Mot	33.7	0.00248	mg/L	0.000431	0.00248	mg/L	0.000431	17.35%
Nat	10905.0	2.62	mg/L	0.027	2.62	mg/L	0.027	1.04%
Nit	-10.4	-0.00045	mg/L	0.000269	-0.00045	mg/L	0.000269	60.30%
Pbt	-12.2	-0.00232	mg/L	0.001107	-0.00232	mg/L	0.001107	47.83%
Vt	288.5	0.00172	mg/L	0.000070	0.00172	mg/L	0.000070	4.10%
Znt	-100.5	-0.00196	mg/L	0.000057	-0.00196	mg/L	0.000057	2.90%

Sequence No.: 40
Sample ID: 2801080661MS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 54
Date Collected: 1/9/2008 18:20:34
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801080661MS

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2801080661MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	430711.2	97.7	%	0.30				0.31%
Yr	228342.8	97.6	%	1.18				1.21%
Alt	7884.3	1.98	mg/L	0.000	1.98	mg/L	0.000	0.02%
B_t	16066.8	0.513	mg/L	0.0032	0.513	mg/L	0.0032	0.63%
Bat	77396.9	1.02	mg/L	0.003	1.02	mg/L	0.003	0.31%
Bet	160478.8	0.0514	mg/L	0.00018	0.0514	mg/L	0.00018	0.34%
Cat	683171.8	104	mg/L	0.1	104	mg/L	0.1	0.13%
Cdt	5931.0	0.216	mg/L	0.0011	0.216	mg/L	0.0011	0.50%
Cot	21584.5	1.03	mg/L	0.001	1.03	mg/L	0.001	0.05%
Crt	79505.9	1.01	mg/L	0.004	1.01	mg/L	0.004	0.35%
Cut	375886.4	0.994	mg/L	0.0042	0.994	mg/L	0.0042	0.42%
Fet	4221.5	4.90	mg/L	0.032	4.90	mg/L	0.032	0.66%
Kt	21192.9	20.2	mg/L	0.12	20.2	mg/L	0.12	0.59%
Mgt	59943.1	25.0	mg/L	0.24	25.0	mg/L	0.24	0.95%
Mnt	300932.5	0.521	mg/L	0.0018	0.521	mg/L	0.0018	0.34%
Mot	12808.7	0.943	mg/L	0.0023	0.943	mg/L	0.0023	0.24%
Nat	212526.4	51.0	mg/L	0.04	51.0	mg/L	0.04	0.07%
Nit	11883.0	0.508	mg/L	0.0005	0.508	mg/L	0.0005	0.10%
Pbt	5489.1	1.04	mg/L	0.001	1.04	mg/L	0.001	0.09%
Vt	170421.6	1.02	mg/L	0.004	1.02	mg/L	0.004	0.36%
Znt	54995.7	1.07	mg/L	0.003	1.07	mg/L	0.003	0.25%

Sequence No.: 41
Sample ID: 2801080661MSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 55
Date Collected: 1/9/2008 18:23:39
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801080661MSD

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: 2801080661MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	424198.8	96.2	%	0.00				0.00%
Yr	226867.3	97.0	%	0.26				0.27%
Alt	7711.3	1.93	mg/L	0.018	1.93	mg/L	0.018	0.94%
B_t	16314.7	0.521	mg/L	0.0065	0.521	mg/L	0.0065	1.24%
Bat	78866.8	1.04	mg/L	0.011	1.04	mg/L	0.011	1.09%
Bet	162263.0	0.0520	mg/L	0.00012	0.0520	mg/L	0.00012	0.24%
Cat	692855.7	106	mg/L	0.0	106	mg/L	0.0	0.04%
Cdt	6002.7	0.219	mg/L	0.0025	0.219	mg/L	0.0025	1.12%
Cot	21981.3	1.05	mg/L	0.007	1.05	mg/L	0.007	0.69%
Crt	80374.4	1.03	mg/L	0.004	1.03	mg/L	0.004	0.42%
Cut	379681.7	1.00	mg/L	0.000	1.00	mg/L	0.000	0.04%
Fet	4234.1	4.92	mg/L	0.112	4.92	mg/L	0.112	2.28%
Kt	21237.1	20.2	mg/L	0.25	20.2	mg/L	0.25	1.25%
Mgt	60651.4	25.3	mg/L	0.41	25.3	mg/L	0.41	1.63%
Mnt	304534.2	0.528	mg/L	0.0007	0.528	mg/L	0.0007	0.14%
Mot	13179.5	0.970	mg/L	0.0134	0.970	mg/L	0.0134	1.38%
Nat	216878.5	52.0	mg/L	0.18	52.0	mg/L	0.18	0.34%
Nit	12104.5	0.517	mg/L	0.0051	0.517	mg/L	0.0051	0.98%
Pbt	5545.9	1.06	mg/L	0.003	1.06	mg/L	0.003	0.26%
Vt	171910.8	1.03	mg/L	0.003	1.03	mg/L	0.003	0.25%
Znt	56001.1	1.09	mg/L	0.011	1.09	mg/L	0.011	1.03%

Sequence No.: 49
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/9/2008 18:56:20
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	211.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	420703.2	95.4	%	0.12				0.12%
Yr	222773.5	95.2	%	0.09				0.09%
Alt	20181.0	5.06	mg/L	0.048	5.06	mg/L	0.048	0.95%
QC value within limits for Al		Recovery = 101.19%						
B_t	79813.1	2.55	mg/L	0.011	2.55	mg/L	0.011	0.42%
QC value within limits for B_		Recovery = 101.91%						
Bat	396212.4	5.21	mg/L	0.023	5.21	mg/L	0.023	0.44%
QC value within limits for Ba		Recovery = 104.18%						
Bet	6537847.6	2.09	mg/L	0.000	2.09	mg/L	0.000	0.01%
QC value within limits for Be		Recovery = 104.70%						
Cat	332976.2	50.7	mg/L	0.07	50.7	mg/L	0.07	0.13%
QC value within limits for Ca		Recovery = 101.44%						
Cdt	57594.7	2.08	mg/L	0.005	2.08	mg/L	0.005	0.26%
QC value within limits for Cd		Recovery = 104.12%						
Cot	111280.9	5.30	mg/L	0.022	5.30	mg/L	0.022	0.41%
QC value within limits for Co		Recovery = 105.90%						
Crt	411229.8	5.25	mg/L	0.023	5.25	mg/L	0.023	0.44%
QC value within limits for Cr		Recovery = 104.99%						
Cut	1952972.9	5.16	mg/L	0.007	5.16	mg/L	0.007	0.13%
QC value within limits for Cu		Recovery = 103.27%						
Fet	4400.0	5.11	mg/L	0.003	5.11	mg/L	0.003	0.06%
QC value within limits for Fe		Recovery = 102.20%						
Kt	51251.3	48.8	mg/L	0.13	48.8	mg/L	0.13	0.27%
QC value within limits for K		Recovery = 97.64%						
Mgt	118984.8	49.7	mg/L	0.24	49.7	mg/L	0.24	0.48%
QC value within limits for Mg		Recovery = 99.37%						
Mnt	3033117.8	5.25	mg/L	0.003	5.25	mg/L	0.003	0.05%
QC value within limits for Mn		Recovery = 105.10%						
Mot	69297.9	5.10	mg/L	0.030	5.10	mg/L	0.030	0.60%
QC value within limits for Mo		Recovery = 102.05%						
Nat	200497.3	48.1	mg/L	0.05	48.1	mg/L	0.05	0.11%
QC value within limits for Na		Recovery = 96.22%						
Nit	123004.9	5.26	mg/L	0.032	5.26	mg/L	0.032	0.61%
QC value within limits for Ni		Recovery = 105.12%						
Pbt	27703.9	5.27	mg/L	0.038	5.27	mg/L	0.038	0.73%
QC value within limits for Pb		Recovery = 105.48%						
Vt	860439.3	5.14	mg/L	0.004	5.14	mg/L	0.004	0.09%
QC value within limits for V		Recovery = 102.71%						
Znt	271142.6	5.26	mg/L	0.024	5.26	mg/L	0.024	0.46%
QC value within limits for Zn		Recovery = 105.17%						

All analyte(s) passed QC.

Sequence No.: 50
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/9/2008 18:59:33
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	212.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	434362.3	98.5	%	0.49				0.50%
Yr	234600.2	100	%	0.0				0.02%
Al†	44.7	0.0112	mg/L	0.00511	0.0112	mg/L	0.00511	45.56%
QC value within limits for Al	Recovery = Not calculated							
B_†	454.3	0.0146	mg/L	0.00000	0.0146	mg/L	0.00000	0.00%
QC value within limits for B_	Recovery = Not calculated							
Ba†	-2.0	-0.00003	mg/L	0.000023	-0.00003	mg/L	0.000023	88.27%
QC value within limits for Ba	Recovery = Not calculated							
Be†	46.5	0.00001	mg/L	0.000020	0.00001	mg/L	0.000020	134.65%
QC value within limits for Be	Recovery = Not calculated							
Ca†	17.3	0.00263	mg/L	0.001022	0.00263	mg/L	0.001022	38.83%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	10.2	0.00036	mg/L	0.000177	0.00036	mg/L	0.000177	48.51%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-4.3	-0.00021	mg/L	0.000159	-0.00021	mg/L	0.000159	77.47%
QC value within limits for Co	Recovery = Not calculated							
Cr†	17.2	0.00022	mg/L	0.000130	0.00022	mg/L	0.000130	59.41%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-22.5	-0.00006	mg/L	0.000207	-0.00006	mg/L	0.000207	347.91%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	0.6	0.00064	mg/L	0.004065	0.00064	mg/L	0.004065	635.14%
QC value within limits for Fe	Recovery = Not calculated							
K†	41.9	0.0399	mg/L	0.04357	0.0399	mg/L	0.04357	109.29%
QC value within limits for K	Recovery = Not calculated							
Mg†	0.4	0.00016	mg/L	0.000913	0.00016	mg/L	0.000913	571.35%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-353.0	-0.00061	mg/L	0.000022	-0.00061	mg/L	0.000022	3.55%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	16.5	0.00122	mg/L	0.000515	0.00122	mg/L	0.000515	42.33%
QC value within limits for Mo	Recovery = Not calculated							
Na†	75.0	0.0180	mg/L	0.00399	0.0180	mg/L	0.00399	22.19%
QC value within limits for Na	Recovery = Not calculated							
Ni†	-4.1	-0.00018	mg/L	0.000122	-0.00018	mg/L	0.000122	69.70%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	6.4	0.00121	mg/L	0.001179	0.00121	mg/L	0.001179	97.46%
QC value within limits for Pb	Recovery = Not calculated							
V†	5.2	0.00003	mg/L	0.000054	0.00003	mg/L	0.000054	169.89%
QC value within limits for V	Recovery = Not calculated							
Zn†	34.4	0.00067	mg/L	0.000052	0.00067	mg/L	0.000052	7.74%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

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

Autosampler Location: 0
Date Collected: 1/9/2008 21:09:31
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Wash

Analyte	Back Pressure	Flow
All	211.0 kPa	0.65 L/min

Mean Data: Wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	440990.3	100	%	0.2				0.17%
Yr	236624.2	101	%	0.6				0.63%
Al†	-14.2	-0.00357	mg/L	0.002025	-0.00357	mg/L	0.002025	56.71%
QC value within limits for Al	Recovery = Not calculated							
B_†	369.1	0.0118	mg/L	0.00028	0.0118	mg/L	0.00028	2.40%
QC value within limits for B_	Recovery = Not calculated							
Ba†	-1.3	-0.00002	mg/L	0.000020	-0.00002	mg/L	0.000020	115.40%
QC value within limits for Ba	Recovery = Not calculated							
Be†	94.0	0.00003	mg/L	0.000023	0.00003	mg/L	0.000023	76.87%
QC value within limits for Be	Recovery = Not calculated							
Ca†	17.3	0.00264	mg/L	0.000222	0.00264	mg/L	0.000222	8.43%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	6.0	0.00021	mg/L	0.000057	0.00021	mg/L	0.000057	26.71%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-1.5	-0.00007	mg/L	0.000110	-0.00007	mg/L	0.000110	156.41%
QC value within limits for Co	Recovery = Not calculated							
Cr†	4.9	0.00006	mg/L	0.000013	0.00006	mg/L	0.000013	20.51%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-91.5	-0.00024	mg/L	0.000211	-0.00024	mg/L	0.000211	87.49%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	-2.1	-0.00240	mg/L	0.003681	-0.00240	mg/L	0.003681	153.18%
QC value within limits for Fe	Recovery = Not calculated							
K†	8.2	0.00780	mg/L	0.023337	0.00780	mg/L	0.023337	299.32%
QC value within limits for K	Recovery = Not calculated							
Mg†	-0.2	-0.00007	mg/L	0.001037	-0.00007	mg/L	0.001037	>999.9%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-394.0	-0.00068	mg/L	0.000010	-0.00068	mg/L	0.000010	1.52%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	6.8	0.00050	mg/L	0.000112	0.00050	mg/L	0.000112	22.41%
QC value within limits for Mo	Recovery = Not calculated							
Na†	531.2	0.127	mg/L	0.0001	0.127	mg/L	0.0001	0.08%
QC value within limits for Na	Recovery = Not calculated							
Ni†	0.8	0.00003	mg/L	0.000155	0.00003	mg/L	0.000155	470.33%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	2.2	0.00043	mg/L	0.000420	0.00043	mg/L	0.000420	98.22%
QC value within limits for Pb	Recovery = Not calculated							
V†	4.0	0.00002	mg/L	0.000058	0.00002	mg/L	0.000058	240.92%
QC value within limits for V	Recovery = Not calculated							
Zn†	17.5	0.00034	mg/L	0.000008	0.00034	mg/L	0.000008	2.34%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

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

Autosampler Location: 4
Date Collected: 1/9/2008 21:12:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ECV

Analyte	Back Pressure	Flow
All	211.0 kPa	0.65 L/min

Mean Data: ECV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	416587.1	94.5	%	0.58				0.62%
Yr	223191.0	95.4	%	1.31				1.37%
Al†	20746.5	5.20	mg/L	0.115	5.20	mg/L	0.115	2.22%
QC value within limits for Al	Recovery = 104.03%							
B_†	80369.1	2.57	mg/L	0.020	2.57	mg/L	0.020	0.79%
QC value within limits for B_	Recovery = 102.63%							
Ba†	398655.6	5.24	mg/L	0.012	5.24	mg/L	0.012	0.23%
QC value within limits for Ba	Recovery = 104.82%							
Be†	6619962.7	2.12	mg/L	0.021	2.12	mg/L	0.021	1.01%
QC value within limits for Be	Recovery = 106.01%							
Ca†	335884.6	51.2	mg/L	0.03	51.2	mg/L	0.03	0.06%
QC value within limits for Ca	Recovery = 102.32%							
Cd†	58197.8	2.10	mg/L	0.010	2.10	mg/L	0.010	0.48%
QC value within limits for Cd	Recovery = 105.20%							
Co†	111336.2	5.30	mg/L	0.013	5.30	mg/L	0.013	0.24%
QC value within limits for Co	Recovery = 105.95%							
Cr†	412522.3	5.27	mg/L	0.014	5.27	mg/L	0.014	0.26%
QC value within limits for Cr	Recovery = 105.32%							
Cu†	1976904.1	5.23	mg/L	0.026	5.23	mg/L	0.026	0.49%
QC value within limits for Cu	Recovery = 104.53%							
Fe†	4427.0	5.14	mg/L	0.126	5.14	mg/L	0.126	2.44%
QC value within limits for Fe	Recovery = 102.83%							
K†	51840.5	49.4	mg/L	0.32	49.4	mg/L	0.32	0.65%
QC value within limits for K	Recovery = 98.77%							
Mg†	120494.5	50.3	mg/L	0.09	50.3	mg/L	0.09	0.18%
QC value within limits for Mg	Recovery = 100.63%							
Mn†	3078161.8	5.33	mg/L	0.001	5.33	mg/L	0.001	0.02%
QC value within limits for Mn	Recovery = 106.66%							
Mo†	69748.5	5.14	mg/L	0.010	5.14	mg/L	0.010	0.20%
QC value within limits for Mo	Recovery = 102.71%							
Na†	204124.8	49.0	mg/L	0.23	49.0	mg/L	0.23	0.46%
QC value within limits for Na	Recovery = 97.96%							
Ni†	123501.9	5.28	mg/L	0.017	5.28	mg/L	0.017	0.32%
QC value within limits for Ni	Recovery = 105.55%							
Pb†	27839.5	5.30	mg/L	0.011	5.30	mg/L	0.011	0.20%
QC value within limits for Pb	Recovery = 106.00%							
V†	871852.2	5.20	mg/L	0.000	5.20	mg/L	0.000	0.01%
QC value within limits for V	Recovery = 104.07%							
Zn†	272946.3	5.29	mg/L	0.021	5.29	mg/L	0.021	0.39%
QC value within limits for Zn	Recovery = 105.87%							

All analyte(s) passed QC.

Sequence No.: 86
Sample ID: ECB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/9/2008 21:16:06
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ECB

Analyte	Back Pressure	Flow
All	211.0 kPa	0.65 L/min

Mean Data: ECB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	433257.9	98.3	%	0.70				0.71%
Yr	235671.5	101	%	0.2				0.21%
Al†	32.2	0.00807	mg/L	0.004167	0.00807	mg/L	0.004167	51.64%
QC value within limits for Al	Recovery = Not calculated							
B_†	504.0	0.0162	mg/L	0.00011	0.0162	mg/L	0.00011	0.65%
QC value within limits for B_	Recovery = Not calculated							
Ba†	-4.8	-0.00006	mg/L	0.000083	-0.00006	mg/L	0.000083	130.49%
QC value within limits for Ba	Recovery = Not calculated							
Be†	53.6	0.00002	mg/L	0.000023	0.00002	mg/L	0.000023	133.28%
QC value within limits for Be	Recovery = Not calculated							
Ca†	9.9	0.00151	mg/L	0.001350	0.00151	mg/L	0.001350	89.25%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	7.8	0.00028	mg/L	0.000096	0.00028	mg/L	0.000096	34.07%
QC value within limits for Cd	Recovery = Not calculated							
Co†	4.7	0.00022	mg/L	0.000186	0.00022	mg/L	0.000186	83.48%
QC value within limits for Co	Recovery = Not calculated							
Cr†	13.1	0.00017	mg/L	0.000114	0.00017	mg/L	0.000114	68.31%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-40.2	-0.00011	mg/L	0.000133	-0.00011	mg/L	0.000133	125.64%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	-0.2	-0.00018	mg/L	0.001065	-0.00018	mg/L	0.001065	591.77%
QC value within limits for Fe	Recovery = Not calculated							
K†	12.1	0.0115	mg/L	0.00720	0.0115	mg/L	0.00720	62.63%
QC value within limits for K	Recovery = Not calculated							
Mg†	-1.3	-0.00055	mg/L	0.000427	-0.00055	mg/L	0.000427	77.76%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-373.5	-0.00065	mg/L	0.000005	-0.00065	mg/L	0.000005	0.79%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	17.6	0.00130	mg/L	0.000220	0.00130	mg/L	0.000220	16.97%
QC value within limits for Mo	Recovery = Not calculated							
Na†	354.5	0.0851	mg/L	0.00555	0.0851	mg/L	0.00555	6.52%
QC value within limits for Na	Recovery = Not calculated							
Ni†	3.3	0.00014	mg/L	0.000079	0.00014	mg/L	0.000079	56.65%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	8.5	0.00161	mg/L	0.000476	0.00161	mg/L	0.000476	29.52%
QC value within limits for Pb	Recovery = Not calculated							
V†	-1.6	-0.00001	mg/L	0.000031	-0.00001	mg/L	0.000031	359.81%
QC value within limits for V	Recovery = Not calculated							
Zn†	23.6	0.00046	mg/L	0.000068	0.00046	mg/L	0.000068	14.83%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Analytical Sequence
Method: 200.7&6010_070703

Seq.	Loc.	ID	Status
1	0	Calib Blank 1	Applied
2	15	Standard 2	Applied
3	15	ICV	QC Passed
4	9	LINEARITY	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 Passed
14	27	MRL/20G	Analyzed
15	26	MRL/10G	Analyzed
16	16	MRL/2	Analyzed
17	17	MRL/5	Analyzed
18	18	FILTERCHECK	Analyzed
19	38	MBLANK	Analyzed
20	39	LCS	Analyzed
21	40	LCSD	Analyzed
22	41	2801080677	Analyzed
23	42	2801080677MS	Analyzed
24	4	CCV	QC Passed
25	0	CCB	QC Passed
26	43	2801080677MSD	Analyzed
27	44	2801080273	Analyzed
28	45	2801080350	Analyzed
29	46	2801080365	Analyzed
30	47	2801080540	Analyzed
31	48	2801080634	Analyzed
32	49	2801080635	Analyzed
33	50	2801080636	Analyzed
34	51	2801080658	Analyzed
35	52	2801080659	Analyzed
36	4	CCV	QC Passed
37	0	CCB	QC Passed
38	5	MCV	QC Passed
39	53	2801080661	Analyzed
40	54	2801080661MS	Analyzed
41	55	2801080661MSD	Analyzed
42	56	2801080663	Analyzed
43	57	2801080678	Analyzed
44	58	2801080679	Analyzed
45	59	2801080680	Analyzed
46	60	2801080493	Analyzed
47	61	2801080496	Analyzed
48	62	2801080497	Analyzed
49	4	CCV	QC Passed
50	0	CCB	QC Passed
51	63	2801080498	Analyzed
52	64	2801080510	Analyzed
53	65	MBLANK	Analyzed
54	21	MRL	Analyzed
55	66	LCS	Analyzed
56	67	LCSD	Analyzed
57	68	2801080226	Analyzed
58	69	2801080226MS	Analyzed
59	70	2801080226MSD	Analyzed
60	71	2801080516	Analyzed
61	4	CCV	QC Passed
62	0	CCB	QC Passed
63	5	MCV	QC Passed
64	72	2801080517	Analyzed
65	73	2801080434	Analyzed
66	74	2801080431	Analyzed
67	75	2801080433	Analyzed
68	76	2801080332	Analyzed

69	77	2801080333	Analyzed
70	78	2801080738	Analyzed
71	79	2801080739	Analyzed
72	80	2801080736	Analyzed
73	81	2801080736MS	Analyzed
74	4	CCV	QC Passed
75	0	CCB	QC Passed
76	82	2801080736MSD	Analyzed
77	83	2801080760	Analyzed
78	84	2801080764	Analyzed
79	85	2801080765	Analyzed
80	86	2801080666	Analyzed
81	87	2801080042	Analyzed
82	88	2801080387	Analyzed
83	89	2801080642	Analyzed
84	0	Wash	QC Passed
85	4	ECV	QC Passed
86	0	ECB	QC Passed

EPA 200.7/6010B QC Check List

Analyst CVC Analysis Date 1/14/08 Reviewer/Date 1/14/08

Instrumnet PerKin Elmer Optima 4300DV 13 CK

✓ All sample analyzed within 6 month holding time

✓ All sample raw concentraction below the high standard or linear range o marked for dilution and rerun

Initial and closing QC
- ✓ ICV within +/- 5%
- ✓ Linearity check +/- 10%
- ✓ ICSAB +/- 20%
- ✓ QCS +/- 5%
- ✓ 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 60 TO 125%
- ✓ 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

NA QIR needed for failed QC

NA Special Det Code noted on the cover sheet

NA R value for multi point calibration is > 0.995

NA Proper MRL check ran for special low MRL samples

Reagent and Standards used for
Optima 4300 DV
Updated 01/11/08

Int: CK
Date: 1-14-08

Method 200.7/6010

dilution should be 1:20 and 1:40 not 1:200 and 1:400. 1/10/2006.

ICP SUMMARY SHEET

File ID: 080113
Date Started: 1/13/08
Analyst ID: CSK

SAMPLE ID

LINEARITY	(17:01)	Wash	(17:12)	FILTERCHECK	(17:48)
2801090364	(18:02)	2801090392	(18:12)	2801090455	(18:22)
2801090696	(18:26)	2801090697	(18:31)	D801090647	(18:35)
D801090648	(18:39)	D801090649	(18:43)	D801090650	(18:47)
D801080327	(18:51)	2801100325	(18:55)	D801080328	(19:16)
D801080386	(19:20)	D801080387	(19:25)	D801090449	(19:29)
D801090450	(19:33)	D801090721	(19:38)	2801100394	(19:41)
2801100465	(19:45)	2801100456	(19:50)	2801100438	(20:13)
2801100440	(20:22)	2801100526	(20:26)	2801100530	(20:30)
2801100536	(20:44)	2801100538	(20:47)	2801100539	(20:52)
2801100541	(20:56)	2801100542	(21:00)	2801100543	(21:03)
2801100156	(21:07)	2801100179	(21:17)	2801100180	(21:27)
2801100460	(21:31)	2801100405	(21:36)	2801100425	(21:39)
2801100429	(21:43)	2801100258	(21:47)	2801100260	(21:52)
2801100261	(21:56)	2801080327	(22:30)	2801090362	(22:40)
2801030472	(22:51)	2801040191	(23:04)	2801080328	(23:08)
2801080382	(23:13)	2801080386	(23:16)	2801090356	(23:21)
2801090449	(23:25)	2801090450	(23:29)	2801100002	(23:34)
2801100065	(23:37)	2801040092_2	(23:41)	2801040093_2	(0:01)
2801040172_2	(0:05)	2801080271_2	(0:10)	2801080272_2	(0:14)
2801080538_2	(0:18)	2801080667_2	(0:23)	Wash	(0:27)

COMMENT:

Analyst: CSK 1-14-08

Approved By: 16 Jan 08

Peer Reviewed ; BLR 1/15/08

BATCH NUMBER for 080113

Test Parameter:

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

Batch ID: 2801090364

2801090364	2801090392	2801090455
2801090696	2801090697	2801100325
2801100394	2801100465	2801100456

Batch ID: 2801100438

2801100438	2801100440	2801100526
2801100530	2801100536	2801100538
2801100539	2801100541	2801100542
2801100543	2801100156	2801100179
2801100180	2801100460	2801100405
2801100425	2801100429	2801100258
2801100260	2801100261	

Batch ID: 2801080327

2801080327	2801090362	2801030472
2801040191	2801080328	2801080382
2801080386	2801090356	2801090449
2801090450	2801100002	2801100065
2801040092_2X	2801040093_2X	2801040172_2X
2801080271_2X	2801080272_2X	2801080538_2X
2801080667_2X		

File ID: 080113

CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
ICV	1/13/08	16:58	1	10.104	10.1	95-105	101%
LINEARITY	1/13/08	17:01	1	0.0017	.0017		
ICSA	1/13/08	17:05	1	-0.0005	ND	80-120	
ICSAB	1/13/08	17:09	1	.25553	.256	80-120	102%
Wash	1/13/08	17:12	1	-0.0001	ND		
QC-25 1ppm	1/13/08	17:19	1	1.0940	1.1		
CCV	1/13/08	17:23	1	5.2197	5.22	90-110	104%
ICB	1/13/08	17:34	1	-0.0001	ND		
MRL	1/13/08	17:37	1	0.0110	.011	50-150	109%
MRL/2	1/13/08	17:41	1	0.0058	.0058		
MRL/5	1/13/08	17:44	1	0.0020	.002		
FILTERCHECK	1/13/08	17:48	1	-0.0002	ND		
MBLANK	1/13/08	17:52	1	-0.0001	ND		
LCS	1/13/08	17:55	1	1.0422	1.04	85-115	104%
LCSD	1/13/08	17:59	1	1.0412	1.04	85-115	104%
2801090364	1/13/08	18:02	1	-0.0000	ND		
2801090364MS	1/13/08	18:06	1	.99573	.996	[0.996]	99.5%
2801090364MSD	1/13/08	18:09	1	1.0217	1.02	[1.022]	102%
2801090364T	1/13/08	18:09	1	|	1.00	70 - 130	
2801090392	1/13/08	18:12	1	-0.0003	ND		
CCV	1/13/08	18:15	1	5.2030	5.2	90-110	104%
CCB	1/13/08	18:19	1	-0.0001	ND		
2801090455	1/13/08	18:22	1	-0.0002	ND		
2801090696	1/13/08	18:26	1	-0.0005	ND		
2801090697	1/13/08	18:31	1	-0.0006	ND		
D801090647	1/13/08	18:35	1	-0.0004	ND		
D801090648	1/13/08	18:39	1	0.0031	.0031		
D801090649	1/13/08	18:43	1	-0.0003	ND		
D801090650	1/13/08	18:47	1	-0.0002	ND		
D801080327	1/13/08	18:51	1	-0.0008	ND		
2801100325	1/13/08	18:55	1	-0.0005	ND		
2801100325MS	1/13/08	18:59	1	1.0066	1.01	[1.007]	100%
CCV	1/13/08	19:02	1	5.1708	5.17	90-110	103%
CCB	1/13/08	19:06	1	-0.0001	ND		
MCV	1/13/08	19:09	1	2.6237	2.62	90-110	104%
2801100325MSD	1/13/08	19:13	1	1.0005	1.00	[1.001]	100%
2801100325T	1/13/08	19:13	1	|	1.00	70 - 130	
D801080328	1/13/08	19:16	1	-0.0007	ND		
D801080386	1/13/08	19:20	1	-0.0008	ND		
D801080387	1/13/08	19:25	1	-0.0007	ND		
D801090449	1/13/08	19:29	1	-0.0006	ND		
D801090450	1/13/08	19:33	1	-0.0008	ND		
D801090721	1/13/08	19:38	1	-0.0003	ND		
2801100394	1/13/08	19:41	1	0.0001	0.0001		
2801100465	1/13/08	19:45	1	0.0107	.011		
2801100456	1/13/08	19:50	1	-0.0080	ND		

File ID: 080113

CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
CCV	1/13/08	19:54	1	5.1252	5.13	90-110	102%
CCB	1/13/08	19:57	1	-0.0002	ND		
MBLANK	1/13/08	20:01	1	-0.0001	ND		
MRL	1/13/08	20:04	1	0.0104	.0104	50-150	104%
LCS	1/13/08	20:08	1	1.0191	1.02	85-115	101%
LCSD	1/13/08	20:10	1	1.0324	1.03	85-115	103%
2801100438	1/13/08	20:13	1	-0.0006	ND		
2801100438MS	1/13/08	20:17	1	.98973	.99	[0.990]	98.9%
2801100438MSD	1/13/08	20:19	1	1.0087	1.01	[1.009]	100%
2801100438T	1/13/08	20:19	1		1.00	70 - 130	
2801100440	1/13/08	20:22	1	-0.0003	ND		
2801100526	1/13/08	20:26	1	-0.0007	ND		
2801100530	1/13/08	20:30	1	-0.0007	ND		
CCV	1/13/08	20:33	1	5.1032	5.1	90-110	102%
CCB	1/13/08	20:37	1	-0.0000	ND		
MCV	1/13/08	20:40	1	2.6124	2.61	90-110	104%
2801100536	1/13/08	20:44	1	-0.0002	ND		
2801100538	1/13/08	20:47	1	-0.0006	ND		
2801100539	1/13/08	20:52	1	-0.0009	ND		
2801100541	1/13/08	20:56	1	-0.0004	ND		
2801100542	1/13/08	21:00	1	-0.0005	ND		
2801100543	1/13/08	21:03	1	-0.0004	ND		
2801100156	1/13/08	21:07	1	-0.0003	ND		
2801100156MS	1/13/08	21:10	1	.99618	.996	[0.996]	99.6%
2801100156MSD	1/13/08	21:14	1	1.0164	1.02	[1.016]	101%
2801100156T	1/13/08	21:14	1		1.00	70 - 130	
2801100179	1/13/08	21:17	1	-0.0001	ND		
CCV	1/13/08	21:20	1	5.2224	5.22	90-110	104%
CCB	1/13/08	21:23	1	-0.0001	ND		
2801100180	1/13/08	21:27	1	0.0017	.0017		
2801100460	1/13/08	21:31	1	0.0013	.0013		
2801100405	1/13/08	21:36	1	-0.0005	ND		
2801100425	1/13/08	21:39	1	-0.0004	ND		
2801100429	1/13/08	21:43	1	-0.0004	ND		
2801100258	1/13/08	21:47	1	0.0005	0.0004		
2801100260	1/13/08	21:52	1	0.0004	0.0004		
2801100261	1/13/08	21:56	1	0.0004	0.0003		
MBLANK	1/13/08	22:00	1	-0.0001	ND		
MRL	1/13/08	22:04	1	0.0105	.0105	50-150	105%
CCV	1/13/08	22:08	1	5.2167	5.22	90-110	104%
CCB	1/13/08	22:13	1	-0.0000	ND		
MCV	1/13/08	22:17	1	2.6292	2.63	90-110	105%
MRL2007	1/13/08	22:20	1	0.0108	.0108	108%	
LCS2007	1/13/08	22:24	1	1.0260	1.03	85-115	102%
LCSD2007	1/13/08	22:27	1	1.0320	1.03	85-115	103%
2801080327	1/13/08	22:30	1	-0.0002	ND		
2801080327MS	1/13/08	22:34	1	1.0586	1.06	[1.059]	105%
2801080327MSD	1/13/08	22:37	1	1.0613	1.06	[1.061]	106%
2801080327T	1/13/08	22:37	1		1.00	70 - 130	

File ID: 080113

CR

Sample ID	Date	Time	Dil	Raw	Rept.	Limit	Comment
2801090362	1/13/08	22:40	1	0.0000	0.0000		
2801090362MS	1/13/08	22:44	1	1.0820	1.08	[1.082]	108%
2801090362MSD	1/13/08	22:48	1	1.0695	1.07	[1.070]	106%
2801090362T	1/13/08	22:48	1		1.00	70 - 130	
2801030472	1/13/08	22:51	1	-0.0002	ND		
CCV	1/13/08	22:55	1	5.2379	5.24	90-110	104%
CCB	1/13/08	23:01	1	-0.0001	ND		
2801040191	1/13/08	23:04	1	0.0004	0.0004		
2801080328	1/13/08	23:08	1	-0.0002	ND		
2801080382	1/13/08	23:13	1	-0.0007	ND		
2801080386	1/13/08	23:16	1	-0.0003	ND		
2801090356	1/13/08	23:21	1	0.0028	.0028		
2801090449	1/13/08	23:25	1	-0.0003	ND		
2801090450	1/13/08	23:29	1	-0.0003	ND		
2801100002	1/13/08	23:34	1	0.0102	.010		
2801100065	1/13/08	23:37	1	0.0014	.0014		
2801040092_2X	1/13/08	23:41	2	.90452	.9		
CCV	1/13/08	23:46	1	5.1669	5.17	90-110	103%
CCB	1/13/08	23:54	1	-0.0001	ND		
MCV	1/13/08	23:57	1	2.6432	2.64	90-110	105%
2801040093_2X	1/14/08	0:01	2	2.4803	2.5		
2801040172_2X	1/14/08	0:05	2	0.0010	0.0009		
2801080271_2X	1/14/08	0:10	2	-0.0006	ND		
2801080272_2X	1/14/08	0:14	2	0.0007	0.0006		
2801080538_2X	1/14/08	0:18	2	0.0352	.035		
2801080667_2X	1/14/08	0:23	2	0.0360	.036		
Wash	1/14/08	0:27	1	-0.0000	ND		
ECV	1/14/08	0:31	1	5.2441	5.24	90-110	104%
ECB	1/14/08	0:39	1	-0.0000	ND		

Landscape Summary File ID: 080113 Date: 1/13/08 Analyst: CSK Page: 1

Sample ID	Time	SCA	YR	AG	AL	AS	B	BA	BE	CA	CD	CO
ICV	16:58	N/A	N/A	2.03/2	9.98/10	10.1/10	5.09	10.2/10	4.04/4	99.7/100	4.95/5	10.2
LINEARITY	17:01	N/A	N/A	-.038	-.017	-.062	0.025	0.002	-.000	294/300	0.001	0.002
ICSA	17:05	N/A	N/A	-.037	241/250	-.135	0.015	0.002	-.000	246/250	0.002	0.001
ICSAB	17:09	N/A	N/A	0.481	243/250	-.140	0.011	0.266/.25	0.251/.25	248/250	0.506/.5	0.246/.25
Wash	17:12	N/A	N/A	-.0001	0.0084	0.0010	0.0174	0.0000	0.0000	0.0011	0.0003	0.0001
QC-25 1ppm	17:19	N/A	N/A	1.005	1.008	1.018	0.9997	1.123	1.026	1.040	1.022	1.133
CCV	17:23	N/A	N/A	1.01/1	4.90/5	5.01/5	2.58	5.22/5	2.09/2	49.8/50	2.01/2	5.29
ICB	17:34	N/A	N/A	-.0001	-.0027	0.0021	0.0194	-.0001	0.0000	0.0003	0.0002	0.0001
MRL	17:37	N/A	N/A	0.010/.01	0.046/.05	0.098/.1	0.067	0.022/.02	0.001/.001	1.03/1	0.005/.005	0.056/.05
MRL/2	17:41	N/A	N/A	0.005(.01)	0.021(.05)	0.049(.1)	0.041	0.011/.02	0.001/.001	0.527/1	0.003/.005	0.028/.05
MRL/5	17:44	N/A	N/A	0.002(.01)	0.005(.05)	0.020(.1)	0.024	0.004(.02)	0.000(.001)	0.219(1)	0.001(.005)	0.011(.05)
FILTERCHECK	17:48	N/A	N/A	-.0004	0.0036	0.0019	0.0126	0.0015	0.0000	0.0628	0.0002	-.0000
MBLANK	17:52	N/A	N/A	-.0002	-.0024	0.0017	0.0110	0.0001	0.0000	0.0066	0.0003	-.0001
LCS	17:55	N/A	N/A	0.498/.5	1.94/2	1.00/1	0.508	1.04/1	0.053/.05	50.4/50	0.198/.2	1.06/1
LCSD	17:59	N/A	N/A	N/A	1.92/2	N/A	0.509	1.03/1	0.053/.05	50.2/50	0.216/.2	1.06/1
2801090364	18:02	N/A	N/A	N/A	-.0037	N/A	0.0117	0.0012	0.0000	1.264	-.0001	0.0003
2801090364MS	18:06	N/A	N/A	N/A	1.914	N/A	0.4903	1.005	0.0503	50.80	0.2119	1.028
2801090364MSD	18:09	N/A	N/A	N/A	1.967	N/A	0.4974	1.022	0.0516	50.92	0.2138	1.042
2801090392	18:12	N/A	N/A	N/A	-.0072	N/A	0.0098	0.0001	0.0000	0.0551	-.0001	0.0002
CCV	18:15	N/A	N/A	N/A	4.89/5	N/A	2.53	5.15/5	2.09/2	49.9/50	2.06/2	5.23
CCB	18:19	N/A	N/A	N/A	-.0087	N/A	0.0178	0.0000	0.0001	0.0049	0.0002	-.0001
2801090455	18:22	N/A	N/A	N/A	0.0022	N/A	0.1283	0.1410	-.0001	100.3	-.0007	-.0001
2801090696	18:26	N/A	N/A	N/A	-.0055	N/A	0.1070	0.2193	-.0001	85.59	-.0008	-.0003
2801090697	18:31	N/A	N/A	N/A	-.0072	N/A	0.1056	0.2201	-.0001	84.99	-.0009	-.0000
D801090647	18:35	N/A	N/A	N/A	0.1156	N/A	0.1256	0.0424	-.0000	19.34	-.0003	0.0001
D801090648	18:39	N/A	N/A	N/A	0.0688	N/A	0.0343	0.0218	-.0000	14.27	-.0003	-.0001
D801090649	18:43	N/A	N/A	N/A	0.1039	N/A	0.1996	0.0674	-.0000	22.42	-.0002	0.0002
D801090650	18:47	N/A	N/A	N/A	0.0842	N/A	0.0992	0.0414	0.0000	18.44	-.0004	0.0002
D801080327	18:51	N/A	N/A	N/A	-.0057	N/A	0.1592	0.1724	-.0001	78.21	-.0010	-.0003
2801100325	18:55	N/A	N/A	N/A	0.0415	N/A	0.1958	0.0746	-.0000	22.57	-.0005	-.0002
2801100325MS	18:59	N/A	N/A	N/A	1.993	N/A	0.6634	1.082	0.0516	70.91	0.2130	1.034
CCV	19:02	N/A	N/A	N/A	4.93/5	N/A	2.54	5.22/5	2.09/2	49.6/50	2.08/2	5.34
CCB	19:06	N/A	N/A	N/A	-.0005	N/A	0.0174	0.0000	0.0001	0.0059	0.0001	0.0002
MCV	19:09	N/A	N/A	N/A	2.43/2.5	N/A	1.28	2.63/2.5	1.06/1	24.8/25	1.05/1	2.71
2801100325MSD	19:13	N/A	N/A	N/A	1.942	N/A	0.6811	1.074	0.0513	70.74	0.2143	1.034
D801080328	19:16	N/A	N/A	N/A	-.0105	N/A	0.1680	0.1715	-.0001	77.12	-.0006	-.0003
D801080386	19:20	N/A	N/A	N/A	-.0017	N/A	0.1663	0.1704	-.0001	76.95	-.0008	-.0003
D801080387	19:25	N/A	N/A	N/A	0.0177	N/A	0.1650	0.1692	-.0001	76.34	-.0008	-.0003
D801090449	19:29	N/A	N/A	N/A	0.0032	N/A	0.1635	0.1627	-.0001	71.10	-.0008	-.0004
D801090450	19:33	N/A	N/A	N/A	0.0032	N/A	0.1604	0.1668	-.0001	74.70	-.0008	-.0004
D801090721	19:38	N/A	N/A	N/A	0.0077	N/A	0.0370	0.0246	-.0000	36.39	-.0006	-.0002
2801100394	19:41	N/A	N/A	N/A	-.0019	N/A	0.3450	0.0395	-.0000	9.433	-.0001	0.0002
2801100465	19:45	N/A	N/A	N/A	-.0552	N/A	1.285	2.399	-.0010	%1153.5	-.0097	-.0015
2801100456	19:50	N/A	N/A	N/A	-.0407	N/A	1.235	2.325	-.0012	%1138.8	-.0069	-.0006
CCV	19:54	N/A	N/A	N/A	4.93/5	N/A	2.49	5.10/5	2.05/2	49.6/50	2.04/2	5.19
CCB	19:57	N/A	N/A	N/A	-.0019	N/A	0.0175	0.0001	0.0001	0.0051	0.0002	0.0002
MBLANK	20:01	N/A	N/A	N/A	-.0012	N/A	0.0138	0.0001	0.0001	0.0056	0.0000	0.0002
MRL	20:04	N/A	N/A	N/A	0.047/.05	N/A	0.062	0.022/.02	0.001/.001	1.04/1	0.007/.005	0.056/.05
LCS	20:08	N/A	N/A	N/A	1.95/2	N/A	0.510	1.03/1	0.052/.05	49.8/50	0.215/.2	1.06/1

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Sample ID	Time	SCA	YR	AG	AL	AS	B	BA	BE	CA	CD	CO
LCSD	20:10	N/A	N/A	N/A	1.96/2	N/A	0.507	1.03/1	0.053/.05	50.0/50	0.216/.2	1.06/1
2801100438	20:13	N/A	N/A	N/A	0.0071	N/A	0.0255	0.0002	0.0000	0.0869	0.0001	0.0002
2801100438MS	20:17	N/A	N/A	N/A	1.909	N/A	0.5058	1.004	0.0503	49.54	0.2124	1.032
2801100438MSD	20:19	N/A	N/A	N/A	1.914	N/A	0.5117	1.018	0.0512	49.40	0.2136	1.045
2801100440	20:22	N/A	N/A	N/A	0.0054	N/A	0.0605	0.0670	-.0000	54.04	-.0004	-.0002
2801100526	20:26	N/A	N/A	N/A	0.0731	N/A	0.0194	0.0146	0.0000	26.15	-.0005	0.0000
2801100530	20:30	N/A	N/A	N/A	-.0029	N/A	0.0198	0.0174	0.0000	22.06	-.0005	0.0003
CCV	20:33	N/A	N/A	N/A	4.93/5	N/A	2.51	5.13/5	2.06/2	49.2/50	2.05/2	5.23
CCB	20:37	N/A	N/A	N/A	-.0068	N/A	0.0173	-.0000	0.0001	0.0042	0.0001	-.0001
MCV	20:40	N/A	N/A	N/A	2.46/2.5	N/A	1.27	2.63/2.5	1.06/1	24.8/25	1.04/1	2.70
2801100536	20:44	N/A	N/A	N/A	0.0141	N/A	0.4667	0.0001	0.0001	0.1246	0.0001	0.0005
2801100538	20:47	N/A	N/A	N/A	-.0020	N/A	0.6333	0.0688	-.0001	60.19	-.0007	-.0001
2801100539	20:52	N/A	N/A	N/A	-.0124	N/A	0.0371	0.2427	-.0000	65.45	-.0010	0.0000
2801100541	20:56	N/A	N/A	N/A	-.0016	N/A	0.0345	0.0000	0.0000	0.0053	-.0000	0.0000
2801100542	21:00	N/A	N/A	N/A	-.0054	N/A	0.0322	0.0088	0.0000	11.78	-.0001	-.0002
2801100543	21:03	N/A	N/A	N/A	-.0019	N/A	0.0238	0.0002	0.0000	0.3315	-.0001	-.0000
2801100156	21:07	N/A	N/A	N/A	0.0205	N/A	0.1113	0.0332	-.0000	8.837	0.0000	0.0003
2801100156MS	21:10	N/A	N/A	N/A	1.954	N/A	0.5927	1.035	0.0509	57.83	0.2146	1.043
2801100156MSD	21:14	N/A	N/A	N/A	1.941	N/A	0.6062	1.054	0.0518	57.85	0.2179	1.058
2801100179	21:17	N/A	N/A	N/A	0.0690	N/A	0.1054	0.0439	-.0000	11.26	-.0002	0.0005
CCV	21:20	N/A	N/A	N/A	4.95/5	N/A	2.54	5.18/5	2.08/2	49.9/50	2.07/2	5.29
CCB	21:23	N/A	N/A	N/A	-.0072	N/A	0.0199	-.0001	0.0001	0.0050	0.0003	0.0001
2801100180	21:27	N/A	N/A	N/A	0.0021	N/A	0.1300	0.0517	-.0000	74.12	-.0007	0.0001
2801100460	21:31	N/A	N/A	N/A	0.0097	N/A	0.1294	0.2363	-.0001	114.9	-.0007	-.0000
2801100405	21:36	N/A	N/A	N/A	0.0701	N/A	0.1236	0.0253	0.0000	13.45	-.0003	0.0007
2801100425	21:39	N/A	N/A	N/A	0.0331	N/A	0.0933	0.0257	0.0000	8.380	-.0003	0.0001
2801100429	21:43	N/A	N/A	N/A	0.0489	N/A	0.1655	0.0971	-.0000	52.75	-.0007	0.0002
2801100258	21:47	N/A	N/A	N/A	0.0487	N/A	0.7854	0.0021	-.0000	2.605	0.0019	-.0002
2801100260	21:52	N/A	N/A	N/A	0.0384	N/A	0.7914	0.0020	-.0000	2.607	0.0019	-.0001
2801100261	21:56	N/A	N/A	N/A	0.0369	N/A	0.7721	0.0045	-.0000	5.385	0.0016	-.0001
MBLANK	22:00	N/A	N/A	N/A	-.0041	N/A	0.0177	-.0001	0.0001	0.0252	-.0000	0.0002
MRL	22:04	N/A	N/A	N/A	0.051/.05	N/A	0.065	0.022/.02	0.001/.001	1.03/1	0.007/.005	0.057/.05
CCV	22:08	N/A	N/A	N/A	4.99/5	N/A	2.53	5.19/5	2.10/2	49.5/50	2.07/2	5.29
CCB	22:13	N/A	N/A	N/A	0.0008	N/A	0.0184	-.0000	0.0001	0.0065	0.0002	0.0000
MCV	22:17	N/A	N/A	N/A	2.49/2.5	N/A	1.28	2.65/2.5	1.06/1	24.9/25	1.04/1	2.70
MRL2007	22:20	N/A	N/A	N/A	0.044/.05	N/A	0.070	0.022/.02	0.001/.001	1.05/1	0.007/.005	0.058/.05
LCS2007	22:24	N/A	N/A	N/A	1.94/2	N/A	0.514	1.03/1	0.053/.05	49.7/50	0.217/.2	1.06/1
LCSD2007	22:27	N/A	N/A	N/A	1.93/2	N/A	0.526	1.03/1	0.053/.05	50.6/50	0.219/.2	1.07/1
2801080327	22:30	N/A	N/A	N/A	0.0559	N/A	0.1708	0.1710	-.0001	78.35	-.0005	-.0004
2801080327MS	22:34	N/A	N/A	N/A	2.107	N/A	0.6949	1.237	0.0545	129.0	0.2245	1.080
2801080327MSD	22:37	N/A	N/A	N/A	2.102	N/A	0.7020	1.237	0.0547	127.4	0.2274	1.095
2801090362	22:40	N/A	N/A	N/A	0.0140	N/A	0.3144	0.0068	-.0000	35.88	-.0004	0.0003
2801090362MS	22:44	N/A	N/A	N/A	2.081	N/A	0.8438	1.093	0.0560	87.72	0.2290	1.106
2801090362MSD	22:48	N/A	N/A	N/A	2.019	N/A	0.8314	1.077	0.0553	87.27	0.2234	1.083
2801030472	22:51	N/A	N/A	N/A	0.1018	N/A	0.1137	0.1056	-.0001	87.63	-.0008	-.0005
CCV	22:55	N/A	N/A	N/A	4.97/5	N/A	2.56	5.20/5	2.07/2	49.2/50	2.08/2	5.28
CCB	23:01	N/A	N/A	N/A	-.0007	N/A	0.0181	0.0000	0.0001	0.0062	0.0001	-.0000
2801040191	23:04	N/A	N/A	N/A	0.0144	N/A	0.4748	0.0149	-.0001	67.33	-.0008	0.0007
2801080328	23:08	N/A	N/A	N/A	0.0336	N/A	0.1658	0.1688	-.0001	77.57	-.0008	-.0002
2801080382	23:13	N/A	N/A	N/A	-.0036	N/A	0.6291	0.0661	-.0000	61.29	-.0008	-.0004

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Sample ID	Time	SCA	YR	AG	AL	AS	B	BA	BE	CA	CD	CO
2801080386	23:16	N/A	N/A	N/A	0.0412	N/A	0.1694	0.1705	-.0001	78.50	-.0006	-.0004
2801090356	23:21	N/A	N/A	N/A	1.081	N/A	0.3145	0.0453	-.0001	38.73	-.0002	0.0002
2801090449	23:25	N/A	N/A	N/A	0.0885	N/A	0.1630	0.1608	-.0001	71.66	-.0008	-.0002
2801090450	23:29	N/A	N/A	N/A	0.0860	N/A	0.1581	0.1622	-.0001	74.37	-.0007	-.0005
2801100002	23:34	N/A	N/A	N/A	6.332	N/A	0.1517	0.0791	0.0002	11.20	-.0002	0.0024
2801100065	23:37	N/A	N/A	N/A	0.0891	N/A	0.3528	0.1015	-.0001	92.98	-.0006	-.0004
2801040092_2X	23:41	N/A	N/A	N/A	0.0337	N/A	10.83	0.0325	-.0011	555.6	-.0021	0.0066
CCV	23:46	N/A	N/A	N/A	5.04/5	N/A	2.58	5.22/5	2.09/2	49.2/50	2.09/2	5.26
CCB	23:54	N/A	N/A	N/A	0.0017	N/A	0.0264	-.0001	0.0001	0.0052	0.0001	0.0000
MCV	23:57	N/A	N/A	N/A	2.51/2.5	N/A	1.32	2.66/2.5	1.06/1	24.9/25	1.06/1	2.70
2801040093_2X	0:01	N/A	N/A	N/A	0.0203	N/A	4.617	0.0432	-.0010	358.9	0.0004	-.0007
2801040172_2X	0:05	N/A	N/A	N/A	0.0450	N/A	1.200	0.0214	-.0001	48.93	-.0005	-.0004
2801080271_2X	0:10	N/A	N/A	N/A	0.0381	N/A	0.1493	1.188	0.0160	141.3	-.0006	0.0007
2801080272_2X	0:14	N/A	N/A	N/A	0.0292	N/A	0.1821	1.895	0.0159	200.5	-.0010	0.0014
2801080538_2X	0:18	N/A	N/A	N/A	0.0314	N/A	3.859	0.0251	-.0007	415.0	-.0012	0.0143
2801080667_2X	0:23	N/A	N/A	N/A	0.0331	N/A	3.908	0.0251	-.0007	420.4	-.0013	0.0159
Wash	0:27	N/A	N/A	N/A	-.0034	N/A	0.0311	-.0000	0.0000	0.0051	-.0001	-.0002
ECV	0:31	N/A	N/A	N/A	5.03/5	N/A	2.57	5.20/5	2.08/2	49.4/50	2.08/2	5.26
ECB	0:39	N/A	N/A	N/A	-.0001	N/A	0.0261	-.0001	0.0001	0.0051	0.0001	-.0000

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Sample ID	Time	CR	CU	FE	K	MG	MN	MO	NA	NI	PB	SB
ICV	16:58	10.1/10	10.2/10	9.97/10	99.2/100	100/100	10.2/10	10.1/10	99.9/100	10.1/10	10.1/10	10.0/10
LINEARITY	17:01	0.002	-.014	99.2	309	191	-.002	0.002	304/300	0.000	-.003	0.012
ICSA	17:05	-.001	-.014	96.9/100	0.234	234/250	-.002	0.000	0.110	-.001	-.037	-.003
ICSAB	17:09	0.256/.25	0.248/.25	96.9/100	0.102	236/250	0.258/.25	0.001	0.063	0.480/.5	0.473/.5	-.007
Wash	17:12	-.0001	0.0004	0.0145	0.0355	0.0019	-.0000	0.0005	0.0108	0.0001	0.0025	0.0007
QC-25 1ppm	17:19	1.094	1.074	1.034	9.775	1.071	1.129	1.054	1.041	1.146	1.136	0.9995
CCV	17:23	5.22/5	5.19/5	4.95/5	48.3/50	50.0/50	5.28/5	5.16/5	48.8/50	5.29/5	5.30/5	4.94/5
ICB	17:34	-.0001	0.0002	0.0022	0.0241	-.0010	-.0002	0.0011	-.0084	0.0005	0.0013	0.0061
MRL	17:37	0.011/.01	0.011/.01	0.024/.02	0.994/1	0.107/.1	0.002/.002	0.021/.02	0.983/1	0.023/.02	0.022/.02	0.047/.05
MRL/2	17:41	0.006/.01	0.005/.01	0.028/.02	0.512/1	0.052/.1	0.001/.002	0.011/.02	0.500(1)	0.011/.02	0.012/.02	0.024(.05)
MRL/5	17:44	0.002(.01)	0.002(.01)	0.006(.02)	0.199(1)	0.022(.1)	0.000(.002)	0.005(.02)	0.206(1)	0.005(.02)	0.006(.02)	0.014(.05)
FILTERCHECK	17:48	-.0002	0.0010	0.0046	0.0341	0.0038	-.0001	0.0005	-.0030	0.0007	0.0008	0.0042
MBLANK	17:52	-.0001	-.0001	0.0003	0.0411	-.0005	-.0002	0.0003	-.0130	0.0004	-.0007	0.0011
LCS	17:55	1.04/1	1.04/1	5.01/5	19.7/20	20.5/20	0.534/.5	1.02/1	48.9/50	0.525/.5	1.06/1	0.464/.5
LCSD	17:59	1.04/1	1.04/1	5.01/5	19.5/20	20.2/20	0.532/.5	1.02/1	48.7/50	0.525/.5	1.05/1	N/A
2801090364	18:02	-.0000	0.0002	-.0004	3.403	3.489	-.0006	0.0007	1.349	0.0002	-.0014	N/A
2801090364MS	18:06	0.9957	0.9773	4.909	22.42	23.03	0.5128	0.9598	49.25	0.5117	1.029	N/A
2801090364MSD	18:09	1.022	1.001	5.058	22.91	23.59	0.5245	0.9778	49.30	0.5158	1.034	N/A
2801090392	18:12	-.0003	0.0004	0.0008	0.1260	0.0023	-.0006	0.0016	0.0291	0.0008	-.0004	N/A
CCV	18:15	5.20/5	5.16/5	5.01/5	48.1/50	49.8/50	5.24/5	5.09/5	48.2/50	5.21/5	5.25/5	N/A
CCB	18:19	-.0001	-.0000	0.0012	0.0498	0.0010	-.0003	0.0024	-.0003	0.0006	0.0025	N/A
2801090455	18:22	-.0002	0.0003	0.0508	2.270	15.34	-.0000	0.0035	63.73	0.0000	-.0038	N/A
2801090696	18:26	-.0005	0.0022	-.0033	5.372	27.97	-.0006	0.0044	46.23	0.0017	-.0059	N/A
2801090697	18:31	-.0006	0.0022	-.0037	5.356	27.77	-.0006	0.0042	46.06	0.0011	-.0055	N/A
D801090647	18:35	-.0004	0.0012	-.0002	2.837	12.22	0.0155	0.0019	50.72	0.0005	-.0039	N/A
D801090648	18:39	0.0031	0.0023	0.0009	1.361	3.295	0.0004	0.0019	9.610	0.0004	-.0026	N/A
D801090649	18:43	-.0003	0.0008	-.0015	3.241	13.93	0.0017	0.0021	64.41	0.0009	-.0053	N/A
D801090650	18:47	-.0002	0.0008	-.0010	2.131	6.761	0.0192	0.0024	28.18	0.0007	-.0021	N/A
D801080327	18:51	-.0008	0.0016	-.0005	5.099	30.61	-.0001	0.0064	100.5	0.0013	-.0058	N/A
2801100325	18:55	-.0005	0.0013	-.0005	3.173	14.03	0.0009	0.0012	63.42	0.0009	-.0055	N/A
2801100325MS	18:59	1.007	0.9998	5.021	22.73	33.62	0.5220	0.9371	109.1	0.5083	1.014	N/A
CCV	19:02	5.17/5	5.17/5	5.01/5	47.4/50	49.6/50	5.23/5	5.13/5	47.8/50	5.25/5	5.28/5	N/A
CCB	19:06	-.0001	-.0000	0.0039	0.0702	0.0017	-.0003	0.0026	0.0218	0.0004	0.0002	N/A
MCV	19:09	2.62/2.5	2.61/2.5	2.49/2.5	23.5/25	25.0/25	2.67/2.5	2.60/2.5	23.9/25	2.69/2.5	2.70/2.5	N/A
2801100325MSD	19:13	1.001	0.9926	4.909	22.50	33.27	0.5182	0.9442	109.3	0.5074	1.019	N/A
D801080328	19:16	-.0007	0.0014	-.0030	4.948	30.24	-.0002	0.0090	98.48	0.0007	-.0058	N/A
D801080386	19:20	-.0008	0.0011	-.0028	5.027	30.08	-.0003	0.0063	98.47	0.0010	-.0050	N/A
D801080387	19:25	-.0007	0.0009	0.0014	4.995	30.22	0.0008	0.0059	99.00	0.0009	-.0041	N/A
D801090449	19:29	-.0006	0.0041	0.0032	5.094	30.64	0.0020	0.0051	99.96	0.0011	-.0050	N/A
D801090450	19:33	-.0008	0.0038	0.0070	4.963	29.94	0.0039	0.0050	97.39	0.0008	-.0060	N/A
D801090721	19:38	-.0003	0.0029	0.0225	1.439	12.37	0.0029	0.0016	7.352	0.0006	-.0032	N/A
2801100394	19:41	0.0001	0.0021	0.0050	4.194	7.595	0.0014	0.0033	52.53	0.0004	-.0025	N/A
2801100465	19:45	0.0107	0.0287	-.0291	48.26	221.0	-.0063	0.0234	207.0	-.0029	-.0579	N/A
2801100456	19:50	-.0080	0.3121	-.0292	47.81	219.5	-.0065	0.0092	288.4	-.0054	-.0512	N/A
CCV	19:54	5.13/5	5.13/5	4.98/5	48.1/50	49.6/50	5.19/5	5.02/5	48.1/50	5.13/5	5.19/5	N/A
CCB	19:57	-.0002	-.0002	0.0022	0.0347	0.0008	-.0004	0.0020	0.0084	0.0001	-.0008	N/A
MBLANK	20:01	-.0001	-.0001	0.0019	0.0531	-.0002	-.0003	0.0011	0.0151	0.0005	-.0000	N/A
MRL	20:04	0.010/.01	0.011/.01	0.021/.02	0.984/1	0.105/.1	0.002/.002	0.021/.02	0.991/1	0.023/.02	0.023/.02	N/A
LCS	20:08	1.02/1	1.03/1	4.97/5	19.3/20	20.1/20	0.524/.5	1.02/1	47.8/50	0.525/.5	1.05/1	N/A

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Sample ID	Time	CR	CU	FE	K	MG	MN	MO	NA	NI	PB	SB
LCSD	20:10	1.03/1	1.04/1	5.02/5	19.4/20	20.3/20	0.530/.5	1.01/1	48.4/50	0.523/.5	1.05/1	N/A
2801100438	20:13	-.0006	0.0014	0.0009	0.1047	0.0196	-.0007	0.0006	0.4643	0.0008	-.0005	N/A
2801100438MS	20:17	0.9897	0.9745	4.850	19.16	19.97	0.5072	0.9438	48.00	0.5107	1.025	N/A
2801100438MSD	20:19	1.009	0.9966	4.832	19.15	19.68	0.5167	0.9628	48.50	0.5156	1.040	N/A
2801100440	20:22	-.0003	0.0029	0.0101	2.276	14.98	0.0065	0.0059	31.90	-.0001	-.0055	N/A
2801100526	20:26	-.0007	-.0001	-.0021	1.216	6.258	-.0006	0.0018	6.459	0.0011	-.0032	N/A
2801100530	20:30	-.0007	0.0030	0.0494	1.218	6.251	0.0024	0.0013	2.081	0.0005	-.0033	N/A
CCV	20:33	5.10/5	5.07/5	4.96/5	47.2/50	49.2/50	5.16/5	5.05/5	47.5/50	5.17/5	5.22/5	N/A
CCB	20:37	-.0000	-.0002	-.0002	0.0225	0.0020	-.0004	0.0025	0.0050	0.0004	0.0005	N/A
MCV	20:40	2.61/2.5	2.61/2.5	2.51/2.5	23.5/25	25.0/25	2.67/2.5	2.58/2.5	23.9/25	2.67/2.5	2.68/2.5	N/A
2801100536	20:44	-.0002	-.0000	-.0005	3.289	3.083	-.0006	0.0010	4.195	0.0005	-.0010	N/A
2801100538	20:47	-.0006	0.0031	0.1447	5.910	29.24	0.0026	0.0013	57.41	-.0001	-.0054	N/A
2801100539	20:52	-.0009	-.0000	0.1827	1.733	25.46	0.1361	0.0032	4.087	-.0002	-.0054	N/A
2801100541	20:56	-.0004	0.0127	0.0005	0.0341	-.0006	-.0007	0.0001	0.4476	0.0002	-.0000	N/A
2801100542	21:00	-.0005	0.0136	0.0008	0.7884	4.640	-.0007	0.0008	2.237	0.0005	-.0021	N/A
2801100543	21:03	-.0004	-.0001	-.0007	3.549	3.267	-.0007	0.0001	2.298	0.0004	-.0025	N/A
2801100156	21:07	-.0003	0.0035	0.0011	1.963	9.118	0.0063	0.0009	36.09	0.0017	-.0034	N/A
2801100156MS	21:10	0.9962	0.9761	4.961	21.20	28.75	0.5223	0.9362	82.53	0.5110	1.027	N/A
2801100156MSD	21:14	1.016	0.9920	4.925	21.20	28.45	0.5320	0.9663	82.02	0.5214	1.045	N/A
2801100179	21:17	-.0001	0.0021	0.0013	1.766	12.63	0.0035	0.0023	31.17	0.0023	-.0030	N/A
CCV	21:20	5.22/5	5.16/5	5.02/5	47.8/50	49.9/50	5.25/5	5.11/5	48.1/50	5.23/5	5.28/5	N/A
CCB	21:23	-.0001	-.0002	0.0022	0.0568	0.0007	-.0004	0.0022	0.0289	0.0008	0.0008	N/A
2801100180	21:27	0.0017	0.0460	-.0027	3.020	12.09	-.0006	0.0045	38.27	0.0005	-.0032	N/A
2801100460	21:31	0.0013	0.0016	-.0030	4.832	22.15	-.0007	0.0019	20.70	-.0002	-.0059	N/A
2801100405	21:36	-.0005	0.0038	0.0042	2.578	3.225	0.0008	0.0010	18.63	0.0014	-.0015	N/A
2801100425	21:39	-.0004	0.0006	0.0017	2.531	3.165	0.0009	0.0007	25.64	0.0008	-.0039	N/A
2801100429	21:43	-.0004	0.0695	-.0009	4.076	21.96	-.0001	0.0039	80.83	0.0025	-.0034	N/A
2801100258	21:47	0.0005	0.0017	0.0016	0.5778	0.0082	0.0004	0.0038	76.13	-.0000	-.0019	N/A
2801100260	21:52	0.0004	0.0009	-.0021	0.5888	0.0063	-.0003	0.0037	76.10	-.0000	-.0017	N/A
2801100261	21:56	0.0004	0.0016	0.0080	0.7673	0.5829	0.0000	0.0037	74.57	-.0002	-.0024	N/A
MBLANK	22:00	-.0001	-.0001	0.0034	0.0191	-.0014	-.0004	0.0004	0.0431	0.0002	-.0021	N/A
MRL	22:04	0.011/.01	0.011/.01	0.019/.02	0.951/1	0.102/.1	0.002/.002	0.021/.02	0.987/1	0.023/.02	0.023/.02	N/A
CCV	22:08	5.22/5	5.16/5	4.98/5	47.4/50	49.6/50	5.24/5	5.11/5	47.6/50	5.22/5	5.28/5	N/A
CCB	22:13	-.0000	-.0000	0.0003	0.0301	-.0007	-.0003	0.0010	0.0083	-.0000	-.0006	N/A
MCV	22:17	2.63/2.5	2.62/2.5	2.50/2.5	23.6/25	25.1/25	2.68/2.5	2.59/2.5	23.9/25	2.68/2.5	2.70/2.5	N/A
MRL2007	22:20	0.011/.01	0.011/.01	0.021/.02	1.000/1	0.104/.1	0.002/.002	0.022/.02	1.02/1	0.023/.02	0.022/.02	N/A
LCS2007	22:24	1.03/1	1.05/1	4.95/5	19.2/20	20.0/20	0.527/.5	1.01/1	48.4/50	0.521/.5	1.05/1	N/A
LCSD2007	22:27	1.03/1	1.05/1	4.94/5	19.5/20	20.3/20	0.530/.5	1.03/1	49.1/50	0.531/.5	1.07/1	N/A
2801080327	22:30	-.0002	0.0009	0.0586	5.038	30.64	0.0040	0.0075	99.52	0.0007	-.0045	N/A
2801080327MS	22:34	1.059	1.096	5.251	25.85	51.10	0.5566	1.052	150.4	0.5330	1.065	N/A
2801080327MSD	22:37	1.061	1.099	5.205	25.33	50.55	0.5570	1.068	148.7	0.5392	1.080	N/A
2801090362	22:40	0.0000	0.0057	0.1402	14.11	8.655	0.0564	0.0116	81.26	0.0029	-.0034	N/A
2801090362MS	22:44	1.082	1.121	5.387	34.97	29.99	0.6120	1.076	133.4	0.5452	1.097	N/A
2801090362MSD	22:48	1.070	1.107	5.298	34.75	29.79	0.6033	1.059	130.7	0.5361	1.072	N/A
2801030472	22:51	-.0002	0.0029	0.0262	4.187	36.97	0.0018	0.0035	53.88	0.0004	-.0047	N/A
CCV	22:55	5.24/5	5.11/5	4.86/5	47.8/50	49.4/50	5.19/5	5.12/5	47.7/50	5.24/5	5.29/5	N/A
CCB	23:01	-.0001	-.0003	-.0023	0.0365	-.0014	-.0003	0.0009	0.0219	0.0005	0.0005	N/A
2801040191	23:04	0.0004	0.0028	3.900	15.79	23.24	0.1825	0.0042	163.5	0.0082	-.0033	N/A
2801080328	23:08	-.0002	0.0008	0.0296	4.950	30.40	0.0017	0.0076	98.61	0.0008	-.0046	N/A
2801080382	23:13	-.0007	-.0009	6.623	6.125	30.17	0.1723	0.0009	60.02	-.0001	-.0035	N/A

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Sample ID	Time	CR	CU	FE	K	MG	MN	MO	NA	NI	PB	SB
2801080386	23:16	-.0003	0.0012	0.0361	5.038	30.81	0.0017	0.0073	99.99	0.0007	-.0059	N/A
2801090356	23:21	0.0028	0.0653	0.6677	14.44	9.324	0.0266	0.0157	75.99	0.0025	-.0022	N/A
2801090449	23:25	-.0003	0.0027	0.0679	5.105	30.88	0.0039	0.0071	100.8	0.0009	-.0037	N/A
2801090450	23:29	-.0003	0.0021	0.0717	4.889	29.69	0.0055	0.0064	96.42	0.0008	-.0042	N/A
2801100002	23:34	0.0102	0.0098	6.409	3.543	11.82	0.0889	0.0020	24.66	0.0114	-.0000	N/A
2801100065	23:37	0.0014	0.0035	0.4559	1.036	1.997	0.0109	0.0024	74.52	-.0001	0.0002	N/A
2801040092_2X	23:41	0.9045	0.0034	6.534	51.08	373.3	1.014	0.1285	%2379.3	0.0230	-.0202	N/A
CCV	23:46	5.17/5	5.14/5	4.89/5	48.0/50	49.4/50	5.22/5	5.13/5	48.5/50	5.26/5	5.31/5	N/A
CCB	23:54	-.0001	-.0002	0.0013	-.0054	0.0000	-.0004	0.0004	0.1506	0.0000	-.0002	N/A
MCV	23:57	2.64/2.5	2.62/2.5	2.47/2.5	23.7/25	25.2/25	2.69/2.5	2.62/2.5	24.1/25	2.72/2.5	2.73/2.5	N/A
2801040093_2X	0:01	2.480	0.0083	0.8970	34.85	186.3	0.0922	0.0321	%1175.3	0.0019	-.0144	N/A
2801040172_2X	0:05	0.0010	0.0081	0.0310	20.28	26.10	0.0048	0.0062	186.7	0.0022	-.0081	N/A
2801080271_2X	0:10	-.0006	0.0001	2.230	25.68	38.81	0.8432	0.0026	177.9	0.0008	-.0049	N/A
2801080272_2X	0:14	0.0007	0.0025	3.781	30.49	52.84	1.284	0.0019	255.1	0.0024	0.0010	N/A
2801080538_2X	0:18	0.0352	0.0051	3.240	30.67	196.9	1.050	0.2515	%1406.9	0.0488	-.0161	N/A
2801080667_2X	0:23	0.0360	0.0050	3.340	31.19	199.1	1.057	0.2511	%1426.5	0.0490	-.0166	N/A
Wash	0:27	-.0000	-.0001	0.0014	0.0017	0.0002	-.0004	-.0001	0.3849	0.0003	-.0014	N/A
ECV	0:31	5.24/5	5.16/5	4.90/5	48.6/50	49.6/50	5.25/5	5.12/5	48.7/50	5.24/5	5.27/5	N/A
ECB	0:39	-.0000	-.0002	-.0002	0.0454	-.0007	-.0004	0.0006	0.1163	0.0002	-.0012	N/A

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Sample ID	Time	SE	TL	V	ZN	ALX	BEX
ICV	16:58	10.2/10	10.2/10	10.2/10	10.1/10	10.2/10	4.04/4
LINEARITY	17:01	0.060	0.027	-.004	0.025	0.003	-.000
ICSA	17:05	0.039	0.020	-.004	0.019	N/A	-.000
ICSAB	17:09	0.030(1)	0.020	0.250/.25	0.549/.5	N/A	0.251/.25
Wash	17:12	0.0020	0.0036	-.0002	0.0004	0.0009	0.0000
QC-25 1ppm	17:19	0.9993	1.146	1.059	1.098	1.035	1.026
CCV	17:23	5.17/5	5.42/5	5.18/5	5.30/5	5.12/5	2.09/2
ICB	17:34	0.0055	0.0022	-.0001	0.0002	-.0002	0.0000
MRL	17:37	0.100/.1	0.123/.1	0.002/.002	0.022/.02	0.052/.05	0.001/.001
MRL/2	17:41	0.049(.1)	0.060/.1	0.001/.002	0.011/.02	0.027/.05	0.001/.001
MRL/5	17:44	0.018(.1)	0.028(.1)	0.000(.002)	0.004(.02)	0.011(.05)	0.000(.001)
FILTERCHECK	17:48	-.0010	0.0029	-.0001	0.0844	0.0011	0.0000
MBLANK	17:52	0.0016	0.0022	-.0001	0.0004	0.0001	0.0000
LCS	17:55	1.04/1	1.10/1	1.04/1	1.07/1	1.99/2	0.053/.05
LCSD	17:59	N/A	N/A	1.04/1	1.06/1	N/A	N/A
2801090364	18:02	N/A	N/A	0.0000	-.0005	N/A	N/A
2801090364MS	18:06	N/A	N/A	0.9933	1.062	N/A	N/A
2801090364MSD	18:09	N/A	N/A	1.019	1.070	N/A	N/A
2801090392	18:12	N/A	N/A	-.0000	0.0350	N/A	N/A
CCV	18:15	N/A	N/A	5.15/5	5.22/5	N/A	N/A
CCB	18:19	N/A	N/A	-.0000	0.0003	N/A	N/A
2801090455	18:22	N/A	N/A	0.0044	0.4023	N/A	N/A
2801090696	18:26	N/A	N/A	0.0004	0.0098	N/A	N/A
2801090697	18:31	N/A	N/A	0.0003	-.0003	N/A	N/A
D801090647	18:35	N/A	N/A	0.0034	0.0005	N/A	N/A
D801090648	18:39	N/A	N/A	0.0017	0.0015	N/A	N/A
D801090649	18:43	N/A	N/A	0.0025	0.0002	N/A	N/A
D801090650	18:47	N/A	N/A	0.0011	0.0003	N/A	N/A
D801080327	18:51	N/A	N/A	0.0025	0.0016	N/A	N/A
2801100325	18:55	N/A	N/A	0.0024	-.0008	N/A	N/A
2801100325MS	18:59	N/A	N/A	1.009	1.072	N/A	N/A
CCV	19:02	N/A	N/A	5.14/5	5.25/5	N/A	N/A
CCB	19:06	N/A	N/A	-.0001	0.0002	N/A	N/A
MCV	19:09	N/A	N/A	2.59/2.5	2.68/2.5	N/A	N/A
2801100325MSD	19:13	N/A	N/A	1.002	1.069	N/A	N/A
D801080328	19:16	N/A	N/A	0.0026	0.0034	N/A	N/A
D801080386	19:20	N/A	N/A	0.0027	0.0075	N/A	N/A
D801080387	19:25	N/A	N/A	0.0027	0.0020	N/A	N/A
D801090449	19:29	N/A	N/A	0.0021	0.0162	N/A	N/A
D801090450	19:33	N/A	N/A	0.0027	0.0251	N/A	N/A
D801090721	19:38	N/A	N/A	0.0004	0.0131	N/A	N/A
2801100394	19:41	N/A	N/A	-.0000	0.0026	N/A	N/A
2801100465	19:45	N/A	N/A	0.0290	1.201	N/A	N/A
2801100456	19:50	N/A	N/A	0.0044	0.0671	N/A	N/A
CCV	19:54	N/A	N/A	5.09/5	5.14/5	N/A	N/A
CCB	19:57	N/A	N/A	-.0000	0.0001	N/A	N/A
MBLANK	20:01	N/A	N/A	-.0000	-.0001	N/A	N/A
MRL	20:04	N/A	N/A	0.002/.002	0.022/.02	N/A	N/A
LCS	20:08	N/A	N/A	1.02/1	1.09/1	N/A	N/A

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Sample ID	Time	SE	TL	V	ZN	ALX	BEX
LCSD	20:10	N/A	N/A	1.03/1	1.07/1	N/A	N/A
2801100438	20:13	N/A	N/A	-.0001	-.0005	N/A	N/A
2801100438MS	20:17	N/A	N/A	0.9881	1.065	N/A	N/A
2801100438MSD	20:19	N/A	N/A	1.008	1.077	N/A	N/A
2801100440	20:22	N/A	N/A	0.0010	0.0013	N/A	N/A
2801100526	20:26	N/A	N/A	0.0002	-.0015	N/A	N/A
2801100530	20:30	N/A	N/A	0.0000	0.0391	N/A	N/A
CCV	20:33	N/A	N/A	5.07/5	5.18/5	N/A	N/A
CCB	20:37	N/A	N/A	-.0000	0.0002	N/A	N/A
MCV	20:40	N/A	N/A	2.58/2.5	2.66/2.5	N/A	N/A
2801100536	20:44	N/A	N/A	0.0000	-.0005	N/A	N/A
2801100538	20:47	N/A	N/A	0.0004	0.0009	N/A	N/A
2801100539	20:52	N/A	N/A	0.0002	0.0013	N/A	N/A
2801100541	20:56	N/A	N/A	-.0000	0.0017	N/A	N/A
2801100542	21:00	N/A	N/A	-.0000	0.0005	N/A	N/A
2801100543	21:03	N/A	N/A	-.0000	-.0005	N/A	N/A
2801100156	21:07	N/A	N/A	0.0013	0.0065	N/A	N/A
2801100156MS	21:10	N/A	N/A	0.9941	1.079	N/A	N/A
2801100156MSD	21:14	N/A	N/A	1.014	1.098	N/A	N/A
2801100179	21:17	N/A	N/A	0.0014	-.0001	N/A	N/A
CCV	21:20	N/A	N/A	5.15/5	5.24/5	N/A	N/A
CCB	21:23	N/A	N/A	-.0000	0.0003	N/A	N/A
2801100180	21:27	N/A	N/A	0.0066	0.0044	N/A	N/A
2801100460	21:31	N/A	N/A	0.0029	0.0367	N/A	N/A
2801100405	21:36	N/A	N/A	0.0001	0.1807	N/A	N/A
2801100425	21:39	N/A	N/A	0.0007	0.1920	N/A	N/A
2801100429	21:43	N/A	N/A	0.0025	0.0458	N/A	N/A
2801100258	21:47	N/A	N/A	0.0521	-.0001	N/A	N/A
2801100260	21:52	N/A	N/A	0.0521	-.0012	N/A	N/A
2801100261	21:56	N/A	N/A	0.0506	0.0003	N/A	N/A
MBLANK	22:00	N/A	N/A	-.0001	0.0031	N/A	N/A
MRL	22:04	N/A	N/A	0.002/.002	0.021/.02	N/A	N/A
CCV	22:08	N/A	N/A	5.14/5	5.24/5	N/A	N/A
CCB	22:13	N/A	N/A	-.0000	0.0002	N/A	N/A
MCV	22:17	N/A	N/A	2.59/2.5	2.67/2.5	N/A	N/A
MRL2007	22:20	N/A	N/A	0.002/.002	0.025/.02	N/A	N/A
LCS2007	22:24	N/A	N/A	1.02/1	1.07/1	N/A	N/A
LCSD2007	22:27	N/A	N/A	1.03/1	1.08/1	N/A	N/A
2801080327	22:30	N/A	N/A	0.0030	0.0024	N/A	N/A
2801080327MS	22:34	N/A	N/A	1.067	1.108	N/A	N/A
2801080327MSD	22:37	N/A	N/A	1.069	1.120	N/A	N/A
2801090362	22:40	N/A	N/A	0.0016	0.0333	N/A	N/A
2801090362MS	22:44	N/A	N/A	1.082	1.157	N/A	N/A
2801090362MSD	22:48	N/A	N/A	1.070	1.139	N/A	N/A
2801030472	22:51	N/A	N/A	0.0019	0.0045	N/A	N/A
CCV	22:55	N/A	N/A	5.11/5	5.26/5	N/A	N/A
CCB	23:01	N/A	N/A	-.0001	0.0001	N/A	N/A
2801040191	23:04	N/A	N/A	0.0004	0.0557	N/A	N/A
2801080328	23:08	N/A	N/A	0.0028	0.0044	N/A	N/A
2801080382	23:13	N/A	N/A	-.0000	0.0081	N/A	N/A

Sample ID	Time	SE	TL	V	ZN	ALX	BEX
2801080386	23:16	N/A	N/A	0.0028	0.0029	N/A	N/A
2801090356	23:21	N/A	N/A	0.0050	0.1747	N/A	N/A
2801090449	23:25	N/A	N/A	0.0023	0.0037	N/A	N/A
2801090450	23:29	N/A	N/A	0.0027	0.0040	N/A	N/A
2801100002	23:34	N/A	N/A	0.0186	0.0312	N/A	N/A
2801100065	23:37	N/A	N/A	0.0043	0.0217	N/A	N/A
2801040092_2X	23:41	N/A	N/A	0.0076	0.0458	N/A	N/A
CCV	23:46	N/A	N/A	5.13/5	5.27/5	N/A	N/A
CCB	23:54	N/A	N/A	-.0000	-.0000	N/A	N/A
MCV	23:57	N/A	N/A	2.60/2.5	2.71/2.5	N/A	N/A
2801040093_2X	0:01	N/A	N/A	0.0217	0.0513	N/A	N/A
2801040172_2X	0:05	N/A	N/A	0.0044	0.0599	N/A	N/A
2801080271_2X	0:10	N/A	N/A	0.0004	0.0098	N/A	N/A
2801080272_2X	0:14	N/A	N/A	0.0003	0.0125	N/A	N/A
2801080538_2X	0:18	N/A	N/A	0.0349	0.0302	N/A	N/A
2801080667_2X	0:23	N/A	N/A	0.0351	0.0306	N/A	N/A
Wash	0:27	N/A	N/A	-.0002	-.0001	N/A	N/A
ECV	0:31	N/A	N/A	5.15/5	5.26/5	N/A	N/A
ECB	0:39	N/A	N/A	-.0001	0.0000	N/A	N/A

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	154.0 kPa	0.54 L/min

1/13/2008 14:50:11 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	343708.1
-1.6	15.0	478812.7
-1.2	15.0	617876.0
-0.8	15.0	753154.4
-0.4	15.0	827146.0
0.0	15.0	824654.7
0.4	15.0	751416.2
0.8	15.0	630853.1
1.2	15.0	500784.6
1.6	15.0	379711.9
2.0	15.0	270259.8
-0.4	10.0	9191.7
-0.4	10.5	29619.9
-0.4	11.0	48522.7
-0.4	11.5	73609.3
-0.4	12.0	112015.7
-0.4	12.5	237917.4
-0.4	13.0	325304.6
-0.4	13.5	441913.4
-0.4	14.0	574350.3
-0.4	14.5	794191.0
-0.4	15.0	835887.6
-0.4	15.5	800109.5
-0.4	16.0	708019.6
-0.4	16.5	473994.4
-0.4	17.0	359545.2
-0.4	17.5	253819.3
-0.4	18.0	181034.7
-0.4	18.5	121614.0
-0.4	19.0	34469.3
-0.4	19.5	14903.6
-0.4	20.0	6175.4
-1.2	15.0	634907.4
-0.8	15.0	754207.0
-0.4	15.0	825130.8
0.0	15.0	845568.9
0.4	15.0	765253.2
0.0	13.0	349545.4
0.0	13.5	453556.8
0.0	14.0	580644.0
0.0	14.5	783765.0
0.0	15.0	840790.1
0.0	15.5	796693.4
0.0	16.0	704528.8
0.0	16.5	476588.1
0.0	17.0	360085.6

1/13/2008 14:54:10 aligned for analyte Mn 257.610
X viewing position set to 0.0 mm having Peak intensity 840790.1 for Axial viewing
Y viewing position set to 15.0 mm having Peak intensity 840790.1 for Axial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	1047.0
-6.5	15.0	1166.0
-6.0	15.0	1481.8
-5.5	15.0	1896.1
-5.0	15.0	2830.6
-4.5	15.0	4606.5

-4.0	15.0	7883.8
-3.5	15.0	12355.1
-3.0	15.0	16590.9
-2.5	15.0	20783.1
-2.0	15.0	23920.4
-1.5	15.0	25447.9
-1.0	15.0	27627.1
-0.5	15.0	26629.0
0.0	15.0	27278.5
0.5	15.0	26002.6
1.0	15.0	22737.8
1.5	15.0	19678.2
2.0	15.0	15893.8
2.5	15.0	11151.1
3.0	15.0	7223.9
3.5	15.0	4420.9
4.0	15.0	3599.5
4.5	15.0	2993.5
5.0	15.0	2205.9
5.5	15.0	1647.6
6.0	15.0	1409.9
6.5	15.0	1310.3
7.0	15.0	1285.4

1/13/2008 14:58:20 aligned for analyte Mn 257.610
X viewing position set to -1.0 mm having Peak intensity 27627.1 for Radial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	669.6
-6.5	15.0	942.4
-6.0	15.0	1012.4
-5.5	15.0	1161.3
-5.0	15.0	1488.0
-4.5	15.0	1918.3
-4.0	15.0	2835.3
-3.5	15.0	4685.5
-3.0	15.0	7946.9
-2.5	15.0	12026.3
-2.0	15.0	16947.3
-1.5	15.0	21198.2
-1.0	15.0	23920.9
-0.5	15.0	25105.5
0.0	15.0	26636.3
0.5	15.0	27086.3
1.0	15.0	26883.4
1.5	15.0	26724.1
2.0	15.0	23571.4
2.5	15.0	19975.3
3.0	15.0	15487.6
3.5	15.0	11330.8
4.0	15.0	7145.2
4.5	15.0	4402.2
5.0	15.0	3616.7
5.5	15.0	3021.0
6.0	15.0	2220.7
6.5	15.0	1655.8
7.0	15.0	1422.6

1/13/2008 15:00:49 aligned for analyte Mn 257.610
X viewing position set to 0.5 mm having Peak intensity 27086.3 for Radial viewing

Align View X Radial for analyte Mn 257.610

X-position	Y-position	Intensity
-7.0	15.0	947.9
-6.5	15.0	1039.9
-6.0	15.0	1163.2
-5.5	15.0	1468.5
-5.0	15.0	1903.2
-4.5	15.0	2816.4

Analysis Begun

Start Time: 1/13/2008 16:51:18
Plasma On Time: 1/13/2008 14:48:31
Logged In Analyst: Administrator
Technique: ICP Continuous
Spectrometer Model: Optima 4300 DV, S/N 077N2121801Autosampler Model: AS-93plus

Sample Information File: C:\pe\Owner\Sample Information\080113.sif
Batch ID: 080113
Results Data Set: 080113
Results Library: C:\pe\Owner\Results\Results.mdb

Method Loaded
Method Name: 200.7&6010_070703
Method Last Saved: 12/31/2007 15:24:50
IEC File: 070703.iec
MSF File:
Method Description: 200.7/6010_070703

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: 1/13/2008 16:51:19
Analyst:
Data Type: Original
Initial Sample Wt:
Initial Sample Vol:
Dilution:
Sample Prep Vol:

Nebulizer Parameters: Calib Blank 1

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Sca	453197.8	811.93	0.18%	100	%
Yr	226212.7	369.77	0.16%	100	%
Ag†	481.5	77.17	16.03%	[0.00]	mg/L
Al†	81.9	24.14	29.46%	[0.00]	mg/L
As†	-27.5	11.40	41.53%	[0.00]	mg/L
B_†	165.2	4.30	2.60%	[0.00]	mg/L
Ba†	-34.9	3.49	9.99%	[0.00]	mg/L

Bet	-3989.1	52.36	1.31%	[0.00]	mg/L
Cat	493.4	2.86	0.58%	[0.00]	mg/L
Cdt	60.5	6.97	11.51%	[0.00]	mg/L
Cot	-68.6	1.30	1.89%	[0.00]	mg/L
Crt	323.1	11.71	3.62%	[0.00]	mg/L
Cut	2073.9	19.22	0.93%	[0.00]	mg/L
Fet	-7.1	0.03	0.46%	[0.00]	mg/L
Kt	-101.6	4.89	4.81%	[0.00]	mg/L
Mgt	-48.3	1.17	2.42%	[0.00]	mg/L
Mnt	598.2	4.17	0.70%	[0.00]	mg/L
Mot	28.6	3.08	10.77%	[0.00]	mg/L
Nat	-417.9	66.89	16.01%	[0.00]	mg/L
Nit	-44.7	5.51	12.33%	[0.00]	mg/L
Pbt	-10.2	2.08	20.38%	[0.00]	mg/L
Sbt	18.1	0.06	0.34%	[0.00]	mg/L
Set	2.7	3.18	116.16%	[0.00]	mg/L
Tlt	-41.5	0.82	1.98%	[0.00]	mg/L
Vt	204.3	10.99	5.38%	[0.00]	mg/L
Znt	139.2	7.05	5.07%	[0.00]	mg/L
Alxt	296.9	10.25	3.45%	[0.00]	ug/L
Bext	-3989.1	52.36	1.31%	[0.00]	ug/L

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

Autosampler Location: 15
Date Collected: 1/13/2008 16:55:06
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Standard 2

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: Standard 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Calib Units
Sca	431993.2	4863.91	1.13%	95.3	%
Yr	209786.7	378.12	0.18%	92.7	%
Agt	565182.2	5387.85	0.95%	[2]	mg/L
Alt	44251.6	687.44	1.55%	[10]	mg/L
Ast	21937.9	74.66	0.34%	[10]	mg/L
B_t	154335.1	1515.42	0.98%	[5.02]	mg/L
Bat	750491.4	6841.18	0.91%	[10]	mg/L
Bet	12460214.1	77145.53	0.62%	[4.01]	mg/L
Cat	686932.0	453.69	0.07%	[100]	mg/L
Cdt	139414.8	1532.64	1.10%	[5.01]	mg/L
Cot	203239.0	1003.09	0.49%	[10]	mg/L
Crt	794605.6	7279.33	0.92%	[9.97]	mg/L
Cut	3745658.0	30468.53	0.81%	[10]	mg/L
Fet	8766.7	127.11	1.45%	[9.98]	mg/L
Kt	115242.6	180.98	0.16%	[100]	mg/L
Mgt	257132.4	721.19	0.28%	[100]	mg/L
Mnt	5695179.9	54386.82	0.95%	[10]	mg/L
Mot	133536.8	1170.77	0.88%	[9.98]	mg/L
Nat	357694.7	1906.32	0.53%	[100]	mg/L
Nit	233111.2	1917.04	0.82%	[10]	mg/L
Pbt	51981.4	345.78	0.67%	[10]	mg/L
Sbt	16297.0	15.71	0.10%	[10]	mg/L
Set	13842.2	51.91	0.38%	[10]	mg/L
Tlt	28479.8	198.36	0.70%	[10]	mg/L
Vt	1731925.7	14663.62	0.85%	[10]	mg/L
Znt	506694.1	4181.09	0.83%	[10]	mg/L
Alxt	753674.3	6526.95	0.87%	[10000]	ug/L
Bext	12460214.1	77145.53	0.62%	[4010]	ug/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag	1	Lin, Calc Int	0.0	282600	0.00000	1.000000	
Al	1	Lin, Calc Int	0.0	4425	0.00000	1.000000	
As	1	Lin, Calc Int	0.0	2194	0.00000	1.000000	
B_	1	Lin, Calc Int	0.0	30740	0.00000	1.000000	
Ba	1	Lin, Calc Int	0.0	75050	0.00000	1.000000	
Be	1	Lin, Calc Int	0.0	3107000	0.00000	1.000000	
Ca	1	Lin, Calc Int	0.0	6869	0.00000	1.000000	
Cd	1	Lin, Calc Int	0.0	27830	0.00000	1.000000	
Co	1	Lin, Calc Int	0.0	20320	0.00000	1.000000	
Cr	1	Lin, Calc Int	0.0	79700	0.00000	1.000000	
Cu	1	Lin, Calc Int	0.0	374600	0.00000	1.000000	
Fe	1	Lin, Calc Int	-0.0	878.4	0.00000	1.000000	
K	1	Lin, Calc Int	-0.0	1152	0.00000	1.000000	
Mg	1	Lin, Calc Int	0.0	2571	0.00000	1.000000	
Mn	1	Lin, Calc Int	0.0	569500	0.00000	1.000000	
Mo	1	Lin, Calc Int	0.0	13380	0.00000	1.000000	
Na	1	Lin, Calc Int	0.0	3577	0.00000	1.000000	
Ni	1	Lin, Calc Int	0.0	23310	0.00000	1.000000	
Pb	1	Lin, Calc Int	0.0	5198	0.00000	1.000000	
Sb	1	Lin, Calc Int	0.0	1630	0.00000	1.000000	
Se	1	Lin, Calc Int	0.0	1384	0.00000	1.000000	
Tl	1	Lin, Calc Int	0.0	2848	0.00000	1.000000	

V	1	Lin, Calc Int	0.0	173200	0.00000	1.000000
Zn	1	Lin, Calc Int	-0.0	50670	0.00000	1.000000
Alx	1	Lin, Calc Int	0.0	75.37	0.00000	1.000000
Bex	1	Lin, Calc Int	-0.0	3107	0.00000	1.000000

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

Autosampler Location: 15
Date Collected: 1/13/2008 16:58:24
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICV

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	426392.2	94.1	%	0.17				0.19%
Yr	208355.0	92.1	%	0.26				0.29%
Agt	573357.7	2.03	mg/L	0.013	2.03	mg/L	0.013	0.62%
QC value within limits for Ag	Recovery = 101.45%							
Alt	44141.4	9.98	mg/L	0.102	9.98	mg/L	0.102	1.02%
QC value within limits for Al	Recovery = 99.75%							
Ast	22094.5	10.1	mg/L	0.14	10.1	mg/L	0.14	1.43%
QC value within limits for As	Recovery = 100.71%							
B_t	157243.7	5.09	mg/L	0.042	5.09	mg/L	0.042	0.83%
QC value within limits for B_	Recovery = 101.88%							
Bat	762574.4	10.2	mg/L	0.04	10.2	mg/L	0.04	0.43%
QC value within limits for Ba	Recovery = 101.61%							
Bet	12566335.3	4.04	mg/L	0.009	4.04	mg/L	0.009	0.23%
QC value within limits for Be	Recovery = 101.10%							
Cat	684905.7	99.7	mg/L	0.24	99.7	mg/L	0.24	0.24%
QC value within limits for Ca	Recovery = 99.71%							
Cdt	141539.7	4.95	mg/L	0.020	4.95	mg/L	0.020	0.40%
QC value within limits for Cd	Recovery = 99.01%							
Cot	207448.1	10.2	mg/L	0.01	10.2	mg/L	0.01	0.07%
QC value within limits for Co	Recovery = 102.07%							
Crt	805288.5	10.1	mg/L	0.06	10.1	mg/L	0.06	0.60%
QC value within limits for Cr	Recovery = 101.04%							
Cut	3815202.7	10.2	mg/L	0.06	10.2	mg/L	0.06	0.61%
QC value within limits for Cu	Recovery = 101.95%							
Fet	8761.9	9.97	mg/L	0.090	9.97	mg/L	0.090	0.90%
QC value within limits for Fe	Recovery = 99.75%							
Kt	114365.1	99.2	mg/L	0.17	99.2	mg/L	0.17	0.17%
QC value within limits for K	Recovery = 99.24%							
Mgt	258308.8	100	mg/L	0.1	100	mg/L	0.1	0.08%
QC value within limits for Mg	Recovery = 100.46%							
Mnt	5785137.6	10.2	mg/L	0.05	10.2	mg/L	0.05	0.52%
QC value within limits for Mn	Recovery = 101.58%							
Mot	135737.0	10.1	mg/L	0.04	10.1	mg/L	0.04	0.42%
QC value within limits for Mo	Recovery = 101.44%							
Nat	357184.5	99.9	mg/L	0.32	99.9	mg/L	0.32	0.32%
QC value within limits for Na	Recovery = 99.86%							
Nit	236238.5	10.1	mg/L	0.05	10.1	mg/L	0.05	0.53%
QC value within limits for Ni	Recovery = 101.34%							
Pbt	52595.2	10.1	mg/L	0.14	10.1	mg/L	0.14	1.38%
QC value within limits for Pb	Recovery = 101.18%							
Sbt	16561.4	10.0	mg/L	0.05	10.0	mg/L	0.05	0.54%
QC value within limits for Sb	Recovery = 100.02%							
Set	14058.4	10.2	mg/L	0.15	10.2	mg/L	0.15	1.44%
QC value within limits for Se	Recovery = 101.76%							
Tlt	28971.7	10.2	mg/L	0.12	10.2	mg/L	0.12	1.15%
QC value within limits for Tl	Recovery = 102.01%							
Vt	1755722.2	10.2	mg/L	0.06	10.2	mg/L	0.06	0.60%
QC value within limits for V	Recovery = 101.93%							
Znt	514454.7	10.1	mg/L	0.05	10.1	mg/L	0.05	0.49%
QC value within limits for Zn	Recovery = 100.84%							
Alxt	765617.4	10200	ug/L	67.1	10.2	mg/L	0.07	0.66%
QC value within limits for Alx	Recovery = 101.58%							
Bext	12566335.3	4040	ug/L	9.3	4.04	mg/L	0.009	0.23%
QC value within limits for Bex	Recovery = 101.10%							

All analyte(s) passed QC.

Sequence No.: 4
Sample ID: LINEARITY
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 1/13/2008 17:01:43
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LINEARITY

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: LINEARITY

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	400349.7	88.3	%	0.20				0.23%
Yr	201771.1	89.2	%	0.19				0.21%
Agt	-10745.4	-0.0380	mg/L	0.00032	-0.0380	mg/L	0.00032	0.84%
QC value within limits for Ag	Recovery = Not calculated							
Alt	-76.4	-0.0173	mg/L	0.00126	-0.0173	mg/L	0.00126	7.32%
QC value within limits for Al	Recovery = Not calculated							
Ast	-266.9	-0.0618	mg/L	0.00425	-0.0618	mg/L	0.00425	6.88%
QC value within limits for As	Recovery = Not calculated							
B_t	759.1	0.0247	mg/L	0.00120	0.0247	mg/L	0.00120	4.88%
QC value within limits for B_	Recovery = Not calculated							
Bat	143.4	0.00191	mg/L	0.000092	0.00191	mg/L	0.000092	4.81%
QC value within limits for Ba	Recovery = Not calculated							
Bet	-813.6	-0.00026	mg/L	0.000020	-0.00026	mg/L	0.000020	7.57%
QC value within limits for Be	Recovery = Not calculated							
Cat	2022796.3	294	mg/L	0.7	294	mg/L	0.7	0.23%
QC value within limits for Ca	Recovery = 98.16%							
Cdt	-29.4	0.00107	mg/L	0.000199	0.00107	mg/L	0.000199	18.67%
QC value within limits for Cd	Recovery = Not calculated							
Cot	37.6	0.00185	mg/L	0.000196	0.00185	mg/L	0.000196	10.59%
QC value within limits for Co	Recovery = Not calculated							
Crt	135.3	0.00170	mg/L	0.000139	0.00170	mg/L	0.000139	8.19%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-5169.1	-0.0138	mg/L	0.00005	-0.0138	mg/L	0.00005	0.38%
QC value within limits for Cu	Recovery = Not calculated							
Fet	87112.2	99.2	mg/L	0.53	99.2	mg/L	0.53	0.54%
QC value within limits for Fe	Recovery = 99.17%							
Kt	355753.7	309	mg/L	2.3	309	mg/L	2.3	0.74%
QC value within limits for K	Recovery = 102.90%							
Mgt	492068.3	191	mg/L	0.4	191	mg/L	0.4	0.21%
QC value within limits for Mg	Recovery = Not calculated							
Mnt	-1415.6	-0.00249	mg/L	0.000018	-0.00249	mg/L	0.000018	0.74%
QC value within limits for Mn	Recovery = Not calculated							
Mot	25.3	0.00189	mg/L	0.000234	0.00189	mg/L	0.000234	12.37%
QC value within limits for Mo	Recovery = Not calculated							
Nat	1087424.9	304	mg/L	1.4	304	mg/L	1.4	0.46%
QC value within limits for Na	Recovery = 101.34%							
Nit	8.1	0.00035	mg/L	0.000390	0.00035	mg/L	0.000390	112.14%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	-17.0	-0.00328	mg/L	0.000289	-0.00328	mg/L	0.000289	8.81%
QC value within limits for Pb	Recovery = Not calculated							
Sbt	18.9	0.0116	mg/L	0.00207	0.0116	mg/L	0.00207	17.85%
QC value within limits for Sb	Recovery = Not calculated							
Set	-184.4	0.0598	mg/L	0.01193	0.0598	mg/L	0.01193	19.96%
QC value within limits for Se	Recovery = Not calculated							
Tlt	77.1	0.0270	mg/L	0.00422	0.0270	mg/L	0.00422	15.62%
QC value within limits for Tl	Recovery = Not calculated							
Vt	-633.4	-0.00365	mg/L	0.000117	-0.00365	mg/L	0.000117	3.20%
QC value within limits for V	Recovery = Not calculated							
Znt	1284.9	0.0254	mg/L	0.00007	0.0254	mg/L	0.00007	0.26%
QC value within limits for Zn	Recovery = Not calculated							
Alxt	220.9	2.93	ug/L	0.103	0.00293	mg/L	0.000103	3.52%
QC value within limits for Alx	Recovery = Not calculated							
Bext	-813.6	-0.262	ug/L	0.0198	-0.00026	mg/L	0.000020	7.57%
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: 1/13/2008 17:05:26
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSA

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	414164.3	91.4	%	1.13				1.24%
Yr	205819.9	91.0	%	0.20				0.22%
Agt	-10454.7	-0.0370	mg/L	0.00023	-0.0370	mg/L	0.00023	0.62%
QC value within limits for Ag	Recovery = Not calculated							
Alt	1067802.8	241	mg/L	1.3	241	mg/L	1.3	0.55%
QC value within limits for Al	Recovery = 96.52%							
Ast	-424.2	-0.135	mg/L	0.0048	-0.135	mg/L	0.0048	3.55%
QC value within limits for As	Recovery = Not calculated							
B_t	472.7	0.0154	mg/L	0.00035	0.0154	mg/L	0.00035	2.28%
QC value within limits for B_	Recovery = Not calculated							
Bat	173.2	0.00231	mg/L	0.000011	0.00231	mg/L	0.000011	0.47%
QC value within limits for Ba	Recovery = Not calculated							
Bet	-910.1	-0.00029	mg/L	0.000005	-0.00029	mg/L	0.000005	1.71%
QC value within limits for Be	Recovery = Not calculated							
Cat	1692838.7	246	mg/L	1.8	246	mg/L	1.8	0.74%
QC value within limits for Ca	Recovery = 98.57%							
Cdt	-36.4	0.00206	mg/L	0.000090	0.00206	mg/L	0.000090	4.38%
QC value within limits for Cd	Recovery = Not calculated							
Cot	17.4	0.00086	mg/L	0.000257	0.00086	mg/L	0.000257	30.11%
QC value within limits for Co	Recovery = Not calculated							
Crt	-42.3	-0.00053	mg/L	0.000207	-0.00053	mg/L	0.000207	39.01%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-5348.6	-0.0143	mg/L	0.00026	-0.0143	mg/L	0.00026	1.84%
QC value within limits for Cu	Recovery = Not calculated							
Fet	85108.0	96.9	mg/L	0.01	96.9	mg/L	0.01	0.01%
QC value within limits for Fe	Recovery = 96.89%							
Kt	270.0	0.234	mg/L	0.0121	0.234	mg/L	0.0121	5.16%
QC value within limits for K	Recovery = Not calculated							
Mgt	602231.9	234	mg/L	1.6	234	mg/L	1.6	0.68%
QC value within limits for Mg	Recovery = 93.68%							
Mnt	-1246.8	-0.00219	mg/L	0.000171	-0.00219	mg/L	0.000171	7.79%
QC value within limits for Mn	Recovery = Not calculated							
Mot	4.0	0.00030	mg/L	0.000355	0.00030	mg/L	0.000355	118.29%
QC value within limits for Mo	Recovery = Not calculated							
Nat	393.2	0.110	mg/L	0.0148	0.110	mg/L	0.0148	13.42%
QC value within limits for Na	Recovery = Not calculated							
Nit	-12.8	-0.00055	mg/L	0.000345	-0.00055	mg/L	0.000345	62.94%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	-192.0	-0.0369	mg/L	0.00124	-0.0369	mg/L	0.00124	3.37%
QC value within limits for Pb	Recovery = Not calculated							
Sbt	-4.6	-0.00282	mg/L	0.002739	-0.00282	mg/L	0.002739	97.24%
QC value within limits for Sb	Recovery = Not calculated							
Set	-207.1	0.0389	mg/L	0.00220	0.0389	mg/L	0.00220	5.65%
QC value within limits for Se	Recovery = Not calculated							
Tlt	55.6	0.0195	mg/L	0.00203	0.0195	mg/L	0.00203	10.42%
QC value within limits for Tl	Recovery = Not calculated							
Vt	-638.9	-0.00369	mg/L	0.000155	-0.00369	mg/L	0.000155	4.21%
QC value within limits for V	Recovery = Not calculated							
Znt	968.0	0.0191	mg/L	0.00048	0.0191	mg/L	0.00048	2.50%
QC value within limits for Zn	Recovery = Not calculated							
Alxt	Saturated2							
Unable to evaluate QC.								
Bext	-910.1	-0.293	ug/L	0.0050	-0.00029	mg/L	0.000005	1.71%
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: 1/13/2008 17:09:09
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICSAB

Analyte	Back Pressure	Flow
All	211.0 kPa	0.65 L/min

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	408882.4	90.2	%	0.07				0.08%
Yr	203925.4	90.1	%	0.50				0.56%
Agt	135873.7	0.481	mg/L	0.0059	0.481	mg/L	0.0059	1.23%
QC value within limits for Ag Recovery = 96.16%								
Alt	1077494.8	243	mg/L	4.1	243	mg/L	4.1	1.70%
QC value within limits for Al Recovery = 97.40%								
Ast	-434.4	-0.140	mg/L	0.0010	-0.140	mg/L	0.0010	0.73%
QC value less than the lower limit for As Recovery = Not calculated								
B_t	362.6	0.0113	mg/L	0.00138	0.0113	mg/L	0.00138	12.20%
QC value within limits for B_ Recovery = Not calculated								
Bat	19970.6	0.266	mg/L	0.0005	0.266	mg/L	0.0005	0.18%
QC value within limits for Ba Recovery = 106.44%								
Bet	780561.3	0.251	mg/L	0.0020	0.251	mg/L	0.0020	0.81%
QC value within limits for Be Recovery = 100.48%								
Cat	1706771.3	248	mg/L	4.8	248	mg/L	4.8	1.94%
QC value within limits for Ca Recovery = 99.39%								
Cdt	13946.0	0.506	mg/L	0.0013	0.506	mg/L	0.0013	0.26%
QC value within limits for Cd Recovery = 101.11%								
Cot	4999.4	0.246	mg/L	0.0001	0.246	mg/L	0.0001	0.04%
QC value within limits for Co Recovery = 98.40%								
Crt	20365.7	0.256	mg/L	0.0003	0.256	mg/L	0.0003	0.13%
QC value within limits for Cr Recovery = 102.21%								
Cut	92651.6	0.248	mg/L	0.0034	0.248	mg/L	0.0034	1.36%
QC value within limits for Cu Recovery = 99.04%								
Fet	85133.3	96.9	mg/L	0.46	96.9	mg/L	0.46	0.48%
QC value within limits for Fe Recovery = 96.92%								
Kt	117.5	0.102	mg/L	0.0041	0.102	mg/L	0.0041	4.03%
QC value within limits for K Recovery = Not calculated								
Mgt	607145.9	236	mg/L	4.4	236	mg/L	4.4	1.84%
QC value within limits for Mg Recovery = 94.45%								
Mnt	147173.8	0.258	mg/L	0.0024	0.258	mg/L	0.0024	0.92%
QC value within limits for Mn Recovery = 103.37%								
Mot	13.5	0.00101	mg/L	0.000181	0.00101	mg/L	0.000181	17.93%
QC value within limits for Mo Recovery = Not calculated								
Nat	226.4	0.0633	mg/L	0.00006	0.0633	mg/L	0.00006	0.10%
QC value within limits for Na Recovery = Not calculated								
Nit	11185.6	0.480	mg/L	0.0009	0.480	mg/L	0.0009	0.19%
QC value within limits for Ni Recovery = 95.97%								
Pbt	2456.8	0.473	mg/L	0.0011	0.473	mg/L	0.0011	0.24%
QC value within limits for Pb Recovery = 94.53%								
Sbt	-5.2	-0.00730	mg/L	0.002430	-0.00730	mg/L	0.002430	33.26%
QC value within limits for Sb Recovery = Not calculated								
Set	-219.9	0.0297	mg/L	0.01333	0.0297	mg/L	0.01333	44.81%
QC value within limits for Se Recovery = Not calculated								
Tlt	54.5	0.0198	mg/L	0.00019	0.0198	mg/L	0.00019	0.95%
QC value within limits for Tl Recovery = Not calculated								
Vt	42973.0	0.250	mg/L	0.0018	0.250	mg/L	0.0018	0.74%
QC value within limits for V Recovery = 99.81%								
Znt	27971.3	0.549	mg/L	0.0006	0.549	mg/L	0.0006	0.11%
QC value within limits for Zn Recovery = 109.75%								
Alxt	Saturated2							
Unable to evaluate QC.								
Bext	780561.3	251	ug/L	2.0	0.251	mg/L	0.0020	0.81%
QC value within limits for Bex Recovery = 100.48%								

QC Failed. Continue with analysis.

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

Autosampler Location: 0
Date Collected: 1/13/2008 17:12:52
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Wash

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: Wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	448685.8	99.0	%	0.69				0.70%
Yr	226144.5	100.0	%	0.95				0.95%
Ag†	-30.8	-0.00011	mg/L	0.000257	-0.00011	mg/L	0.000257	235.10%
QC value within limits for Ag	Recovery = Not calculated							
Al†	37.3	0.00843	mg/L	0.000797	0.00843	mg/L	0.000797	9.46%
QC value within limits for Al	Recovery = Not calculated							
As†	2.2	0.00101	mg/L	0.000040	0.00101	mg/L	0.000040	4.00%
QC value within limits for As	Recovery = Not calculated							
B_†	534.3	0.0174	mg/L	0.00031	0.0174	mg/L	0.00031	1.77%
QC value within limits for B_	Recovery = Not calculated							
Ba†	3.1	0.00004	mg/L	0.000004	0.00004	mg/L	0.000004	10.23%
QC value within limits for Ba	Recovery = Not calculated							
Be†	17.2	0.00001	mg/L	0.000028	0.00001	mg/L	0.000028	513.21%
QC value within limits for Be	Recovery = Not calculated							
Ca†	7.2	0.00105	mg/L	0.000604	0.00105	mg/L	0.000604	57.45%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	8.4	0.00029	mg/L	0.000014	0.00029	mg/L	0.000014	4.80%
QC value within limits for Cd	Recovery = Not calculated							
Co†	2.8	0.00014	mg/L	0.000001	0.00014	mg/L	0.000001	0.60%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-9.1	-0.00011	mg/L	0.000050	-0.00011	mg/L	0.000050	44.18%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	155.3	0.00041	mg/L	0.000292	0.00041	mg/L	0.000292	70.39%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	12.7	0.0145	mg/L	0.00141	0.0145	mg/L	0.00141	9.75%
QC value within limits for Fe	Recovery = Not calculated							
K†	40.9	0.0355	mg/L	0.00997	0.0355	mg/L	0.00997	28.07%
QC value within limits for K	Recovery = Not calculated							
Mg†	4.9	0.00192	mg/L	0.000251	0.00192	mg/L	0.000251	13.07%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-28.2	-0.00005	mg/L	0.000001	-0.00005	mg/L	0.000001	2.13%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	7.0	0.00052	mg/L	0.000100	0.00052	mg/L	0.000100	19.03%
QC value within limits for Mo	Recovery = Not calculated							
Na†	38.5	0.0108	mg/L	0.01298	0.0108	mg/L	0.01298	120.53%
QC value within limits for Na	Recovery = Not calculated							
Ni†	3.1	0.00013	mg/L	0.000055	0.00013	mg/L	0.000055	41.28%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	13.2	0.00254	mg/L	0.001001	0.00254	mg/L	0.001001	39.39%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	1.1	0.00068	mg/L	0.001532	0.00068	mg/L	0.001532	226.87%
QC value within limits for Sb	Recovery = Not calculated							
Se†	2.7	0.00196	mg/L	0.003331	0.00196	mg/L	0.003331	169.75%
QC value within limits for Se	Recovery = Not calculated							
Tl†	10.2	0.00359	mg/L	0.000219	0.00359	mg/L	0.000219	6.10%
QC value within limits for Tl	Recovery = Not calculated							
V†	-41.4	-0.00024	mg/L	0.000270	-0.00024	mg/L	0.000270	112.42%
QC value within limits for V	Recovery = Not calculated							
Zn†	18.1	0.00036	mg/L	0.000026	0.00036	mg/L	0.000026	7.36%
QC value within limits for Zn	Recovery = Not calculated							
Alx†	66.4	0.881	ug/L	0.1581	0.00088	mg/L	0.000158	17.95%
QC value within limits for Alx	Recovery = Not calculated							
Bex†	17.2	0.00553	ug/L	0.028376	0.00001	mg/L	0.000028	513.21%
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: 1/13/2008 17:16:16
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	453811.5	100	%	0.6				0.64%
Yr	220164.2	97.3	%	0.72				0.74%
Ag†	283247.9	1.00	mg/L	0.004	1.00	mg/L	0.004	0.40%
QC value within limits for Ag Recovery = 100.23%								
Al†	4509.7	1.02	mg/L	0.002	1.02	mg/L	0.002	0.21%
QC value within limits for Al Recovery = 101.91%								
As†	2234.7	1.02	mg/L	0.009	1.02	mg/L	0.009	0.93%
QC value within limits for As Recovery = 101.85%								
B_†	30882.9	1.00	mg/L	0.005	1.00	mg/L	0.005	0.47%
QC value within limits for B_ Recovery = 100.22%								
Ba†	84878.7	1.13	mg/L	0.007	1.13	mg/L	0.007	0.63%
QC value greater than the upper limit for Ba Recovery = 113.10%								
Be†	3202440.1	1.03	mg/L	0.002	1.03	mg/L	0.002	0.17%
QC value within limits for Be Recovery = 103.06%								
Ca†	7253.6	1.06	mg/L	0.002	1.06	mg/L	0.002	0.23%
QC value within limits for Ca Recovery = 105.59%								
Cd†	28998.1	1.03	mg/L	0.006	1.03	mg/L	0.006	0.54%
QC value within limits for Cd Recovery = 102.88%								
Co†	23241.6	1.14	mg/L	0.001	1.14	mg/L	0.001	0.08%
QC value greater than the upper limit for Co Recovery = 114.36%								
Cr†	87850.7	1.10	mg/L	0.007	1.10	mg/L	0.007	0.67%
QC value greater than the upper limit for Cr Recovery = 110.23%								
Cu†	403474.1	1.08	mg/L	0.004	1.08	mg/L	0.004	0.35%
QC value within limits for Cu Recovery = 107.83%								
Fe†	916.7	1.04	mg/L	0.003	1.04	mg/L	0.003	0.31%
QC value within limits for Fe Recovery = 104.35%								
K†	11339.9	9.84	mg/L	0.001	9.84	mg/L	0.001	0.01%
QC value within limits for K Recovery = 98.40%								
Mg†	2797.4	1.09	mg/L	0.005	1.09	mg/L	0.005	0.46%
QC value within limits for Mg Recovery = 108.79%								
Mn†	645853.6	1.13	mg/L	0.002	1.13	mg/L	0.002	0.18%
QC value greater than the upper limit for Mn Recovery = 113.40%								
Mo†	14162.2	1.06	mg/L	0.007	1.06	mg/L	0.007	0.67%
QC value within limits for Mo Recovery = 105.84%								
Na†	3693.1	1.03	mg/L	0.016	1.03	mg/L	0.016	1.52%
QC value within limits for Na Recovery = 103.25%								
Ni†	26931.3	1.16	mg/L	0.006	1.16	mg/L	0.006	0.53%
QC value greater than the upper limit for Ni Recovery = 115.53%								
Pb†	5940.1	1.14	mg/L	0.007	1.14	mg/L	0.007	0.62%
QC value greater than the upper limit for Pb Recovery = 114.27%								
Sb†	1659.1	1.00	mg/L	0.006	1.00	mg/L	0.006	0.65%
QC value within limits for Sb Recovery = 100.03%								
Se†	1392.9	1.01	mg/L	0.006	1.01	mg/L	0.006	0.64%
QC value within limits for Se Recovery = 100.83%								
Tl†	3250.8	1.14	mg/L	0.007	1.14	mg/L	0.007	0.65%
QC value greater than the upper limit for Tl Recovery = 114.44%								
V†	183214.5	1.06	mg/L	0.007	1.06	mg/L	0.007	0.65%
QC value within limits for V Recovery = 106.39%								
Zn†	56321.5	1.10	mg/L	0.007	1.10	mg/L	0.007	0.65%
QC value greater than the upper limit for Zn Recovery = 110.37%								
Alx†	78484.0	1040	ug/L	0.8	1.04	mg/L	0.001	0.08%
QC value within limits for Alx Recovery = 104.14%								
Bex†	3202440.1	1030	ug/L	1.7	1.03	mg/L	0.002	0.17%
QC value within limits for Bex Recovery = 103.06%								

QC Failed. Retry.

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

Autosampler Location: 4
Date Collected: 1/13/2008 17:23:20
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	431779.2	95.3	%	0.08				0.08%
Yr	215350.3	95.2	%	0.82				0.86%
Agt	284465.6	1.01	mg/L	0.003	1.01	mg/L	0.003	0.25%
QC value within limits for Ag	Recovery = 100.66%							
Alt	21703.4	4.90	mg/L	0.004	4.90	mg/L	0.004	0.07%
QC value within limits for Al	Recovery = 98.09%							
Ast	10981.9	5.01	mg/L	0.005	5.01	mg/L	0.005	0.09%
QC value within limits for As	Recovery = 100.11%							
B_t	79599.4	2.58	mg/L	0.008	2.58	mg/L	0.008	0.30%
QC value within limits for B_	Recovery = 103.14%							
Bat	391457.3	5.22	mg/L	0.002	5.22	mg/L	0.002	0.05%
QC value within limits for Ba	Recovery = 104.32%							
Bet	6484140.1	2.09	mg/L	0.005	2.09	mg/L	0.005	0.26%
QC value within limits for Be	Recovery = 104.34%							
Cat	341842.4	49.8	mg/L	0.01	49.8	mg/L	0.01	0.02%
QC value within limits for Ca	Recovery = 99.53%							
Cdt	57759.6	2.01	mg/L	0.001	2.01	mg/L	0.001	0.04%
QC value within limits for Cd	Recovery = 100.45%							
Cot	107437.0	5.29	mg/L	0.017	5.29	mg/L	0.017	0.32%
QC value within limits for Co	Recovery = 105.72%							
Crt	416013.3	5.22	mg/L	0.001	5.22	mg/L	0.001	0.02%
QC value within limits for Cr	Recovery = 104.40%							
Cut	1940298.7	5.19	mg/L	0.016	5.19	mg/L	0.016	0.31%
QC value within limits for Cu	Recovery = 103.70%							
Fet	4347.1	4.95	mg/L	0.009	4.95	mg/L	0.009	0.18%
QC value within limits for Fe	Recovery = 98.97%							
Kt	55703.2	48.3	mg/L	0.08	48.3	mg/L	0.08	0.16%
QC value within limits for K	Recovery = 96.67%							
Mgt	128452.0	50.0	mg/L	0.04	50.0	mg/L	0.04	0.07%
QC value within limits for Mg	Recovery = 99.91%							
Mnt	3005301.9	5.28	mg/L	0.002	5.28	mg/L	0.002	0.03%
QC value within limits for Mn	Recovery = 105.54%							
Mot	69095.3	5.16	mg/L	0.010	5.16	mg/L	0.010	0.19%
QC value within limits for Mo	Recovery = 103.28%							
Nat	174411.9	48.8	mg/L	0.08	48.8	mg/L	0.08	0.17%
QC value within limits for Na	Recovery = 97.52%							
Nit	123429.1	5.29	mg/L	0.007	5.29	mg/L	0.007	0.14%
QC value within limits for Ni	Recovery = 105.90%							
Pbt	27573.6	5.30	mg/L	0.015	5.30	mg/L	0.015	0.28%
QC value within limits for Pb	Recovery = 106.09%							
Sbt	8180.2	4.94	mg/L	0.007	4.94	mg/L	0.007	0.14%
QC value within limits for Sb	Recovery = 98.73%							
Set	7141.6	5.17	mg/L	0.009	5.17	mg/L	0.009	0.18%
QC value within limits for Se	Recovery = 103.38%							
Tlt	15401.3	5.42	mg/L	0.005	5.42	mg/L	0.005	0.10%
QC value within limits for Tl	Recovery = 108.45%							
Vt	892742.4	5.18	mg/L	0.008	5.18	mg/L	0.008	0.15%
QC value within limits for V	Recovery = 103.67%							
Znt	270293.7	5.30	mg/L	0.009	5.30	mg/L	0.009	0.17%
QC value within limits for Zn	Recovery = 105.97%							
Alxt	385538.9	5120	ug/L	19.8	5.12	mg/L	0.020	0.39%
QC value within limits for Alx	Recovery = 102.31%							
Bext	6484140.1	2090	ug/L	5.4	2.09	mg/L	0.005	0.26%
QC value within limits for Bex	Recovery = 104.34%							

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: QC-25 1ppm
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 1/13/2008 17:19:03
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: QC-25 1ppm

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: QC-25 1ppm

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	454058.4	100	%	0.5				0.47%
Yr	222195.9	98.2	%	0.83				0.84%
Agt	283989.2	1.00	mg/L	0.004	1.00	mg/L	0.004	0.39%
QC value within limits for Ag Recovery = 100.49%								
Alt	4461.4	1.01	mg/L	0.011	1.01	mg/L	0.011	1.13%
QC value within limits for Al Recovery = 100.82%								
Ast	2233.1	1.02	mg/L	0.006	1.02	mg/L	0.006	0.55%
QC value within limits for As Recovery = 101.78%								
B_t	30803.9	1.000	mg/L	0.0087	1.000	mg/L	0.0087	0.87%
QC value within limits for B_ Recovery = 99.97%								
Bat	84252.3	1.12	mg/L	0.008	1.12	mg/L	0.008	0.75%
QC value greater than the upper limit for Ba Recovery = 112.26%								
Bet	3187590.1	1.03	mg/L	0.000	1.03	mg/L	0.000	0.00%
QC value within limits for Be Recovery = 102.58%								
Cat	7140.7	1.04	mg/L	0.008	1.04	mg/L	0.008	0.74%
QC value within limits for Ca Recovery = 103.95%								
Cdt	28804.6	1.02	mg/L	0.004	1.02	mg/L	0.004	0.40%
QC value within limits for Cd Recovery = 102.18%								
Cot	23022.1	1.13	mg/L	0.006	1.13	mg/L	0.006	0.56%
QC value greater than the upper limit for Co Recovery = 113.28%								
Crt	87194.7	1.09	mg/L	0.010	1.09	mg/L	0.010	0.94%
QC value within limits for Cr Recovery = 109.40%								
Cut	401960.0	1.07	mg/L	0.001	1.07	mg/L	0.001	0.12%
QC value within limits for Cu Recovery = 107.42%								
Fet	908.4	1.03	mg/L	0.003	1.03	mg/L	0.003	0.32%
QC value within limits for Fe Recovery = 103.41%								
Kt	11265.1	9.78	mg/L	0.038	9.78	mg/L	0.038	0.39%
QC value within limits for K Recovery = 97.75%								
Mgt	2753.3	1.07	mg/L	0.006	1.07	mg/L	0.006	0.57%
QC value within limits for Mg Recovery = 107.08%								
Mnt	642795.1	1.13	mg/L	0.000	1.13	mg/L	0.000	0.03%
QC value greater than the upper limit for Mn Recovery = 112.87%								
Mot	14108.3	1.05	mg/L	0.005	1.05	mg/L	0.005	0.47%
QC value within limits for Mo Recovery = 105.44%								
Nat	3723.7	1.04	mg/L	0.004	1.04	mg/L	0.004	0.34%
QC value within limits for Na Recovery = 104.10%								
Nit	26716.7	1.15	mg/L	0.011	1.15	mg/L	0.011	0.92%
QC value greater than the upper limit for Ni Recovery = 114.61%								
Pbt	5904.8	1.14	mg/L	0.003	1.14	mg/L	0.003	0.25%
QC value greater than the upper limit for Pb Recovery = 113.59%								
Sbt	1657.6	1.000	mg/L	0.0030	1.000	mg/L	0.0030	0.30%
QC value within limits for Sb Recovery = 99.95%								
Set	1380.5	0.999	mg/L	0.0110	0.999	mg/L	0.0110	1.10%
QC value within limits for Se Recovery = 99.93%								
Tlt	3254.3	1.15	mg/L	0.006	1.15	mg/L	0.006	0.53%
QC value greater than the upper limit for Tl Recovery = 114.56%								
Vt	182316.8	1.06	mg/L	0.011	1.06	mg/L	0.011	1.00%
QC value within limits for V Recovery = 105.87%								
Znt	56006.9	1.10	mg/L	0.011	1.10	mg/L	0.011	1.02%
QC value within limits for Zn Recovery = 109.75%								
Alxt	78036.3	1040	ug/L	8.5	1.04	mg/L	0.009	0.82%
QC value within limits for Alx Recovery = 103.54%								
Bext	3187590.1	1030	ug/L	0.0	1.03	mg/L	0.000	0.00%
QC value within limits for Bex Recovery = 102.58%								

QC Failed. Continue with analysis.

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

Autosampler Location: 0
Date Collected: 1/13/2008 17:31:43
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	454388.7	100	%	0.5				0.46%
Yr	225758.4	99.8	%	0.26				0.26%
Agt	-21.8	-0.00008	mg/L	0.000315	-0.00008	mg/L	0.000315	407.49%
QC value within limits for Ag	Recovery = Not calculated							
Alt	-19.3	-0.00435	mg/L	0.005825	-0.00435	mg/L	0.005825	133.81%
QC value within limits for Al	Recovery = Not calculated							
Ast	5.8	0.00264	mg/L	0.000974	0.00264	mg/L	0.000974	36.83%
QC value within limits for As	Recovery = Not calculated							
B_t	635.6	0.0207	mg/L	0.00003	0.0207	mg/L	0.00003	0.14%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Bat	-4.2	-0.00006	mg/L	0.000023	-0.00006	mg/L	0.000023	41.05%
QC value within limits for Ba	Recovery = Not calculated							
Bet	95.5	0.00003	mg/L	0.000027	0.00003	mg/L	0.000027	88.54%
QC value within limits for Be	Recovery = Not calculated							
Cat	7.0	0.00102	mg/L	0.001211	0.00102	mg/L	0.001211	118.30%
QC value within limits for Ca	Recovery = Not calculated							
Cdt	5.2	0.00014	mg/L	0.000098	0.00014	mg/L	0.000098	70.54%
QC value within limits for Cd	Recovery = Not calculated							
Cot	-3.8	-0.00019	mg/L	0.000217	-0.00019	mg/L	0.000217	116.90%
QC value within limits for Co	Recovery = Not calculated							
Crt	-16.9	-0.00021	mg/L	0.000236	-0.00021	mg/L	0.000236	111.21%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-11.7	-0.00003	mg/L	0.000209	-0.00003	mg/L	0.000209	663.66%
QC value within limits for Cu	Recovery = Not calculated							
Fet	1.9	0.00216	mg/L	0.000901	0.00216	mg/L	0.000901	41.76%
QC value within limits for Fe	Recovery = Not calculated							
Kt	62.9	0.0546	mg/L	0.03468	0.0546	mg/L	0.03468	63.51%
QC value within limits for K	Recovery = Not calculated							
Mgt	0.1	0.00004	mg/L	0.001505	0.00004	mg/L	0.001505	>999.9%
QC value within limits for Mg	Recovery = Not calculated							
Mnt	-99.6	-0.00017	mg/L	0.000001	-0.00017	mg/L	0.000001	0.65%
QC value within limits for Mn	Recovery = Not calculated							
Mot	8.4	0.00063	mg/L	0.000236	0.00063	mg/L	0.000236	37.61%
QC value within limits for Mo	Recovery = Not calculated							
Nat	11.0	0.00308	mg/L	0.009030	0.00308	mg/L	0.009030	293.62%
QC value within limits for Na	Recovery = Not calculated							
Nit	6.4	0.00027	mg/L	0.000365	0.00027	mg/L	0.000365	133.02%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	7.6	0.00145	mg/L	0.000278	0.00145	mg/L	0.000278	19.14%
QC value within limits for Pb	Recovery = Not calculated							
Sbt	11.1	0.00683	mg/L	0.002865	0.00683	mg/L	0.002865	41.94%
QC value within limits for Sb	Recovery = Not calculated							
Set	1.1	0.00079	mg/L	0.000240	0.00079	mg/L	0.000240	30.44%
QC value within limits for Se	Recovery = Not calculated							
Tlt	10.8	0.00380	mg/L	0.000654	0.00380	mg/L	0.000654	17.22%
QC value within limits for Tl	Recovery = Not calculated							
Vt	-6.6	-0.00004	mg/L	0.000353	-0.00004	mg/L	0.000353	900.45%
QC value within limits for V	Recovery = Not calculated							
Znt	10.1	0.00020	mg/L	0.000092	0.00020	mg/L	0.000092	46.70%
QC value within limits for Zn	Recovery = Not calculated							
Alxt	-8.8	-0.117	ug/L	0.2735	-0.00012	mg/L	0.000274	233.42%
QC value within limits for Alx	Recovery = Not calculated							
Bext	95.5	0.0307	ug/L	0.02721	0.00003	mg/L	0.000027	88.54%
QC value within limits for Bex	Recovery = Not calculated							

QC Failed. Retry.

Sequence No.: 14
Sample ID: ICB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/13/2008 17:34:17
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ICB

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: ICB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	451158.7	99.6	%	0.02				0.02%
Yr	224260.8	99.1	%	0.11				0.11%
Ag†	-21.3	-0.00008	mg/L	0.000012	-0.00008	mg/L	0.000012	15.38%
QC value within limits for Ag	Recovery = Not calculated							
Al†	-12.0	-0.00270	mg/L	0.002019	-0.00270	mg/L	0.002019	74.67%
QC value within limits for Al	Recovery = Not calculated							
As†	4.7	0.00212	mg/L	0.003061	0.00212	mg/L	0.003061	144.07%
QC value within limits for As	Recovery = Not calculated							
B_†	597.6	0.0194	mg/L	0.00028	0.0194	mg/L	0.00028	1.43%
QC value within limits for B_	Recovery = Not calculated							
Ba†	-4.0	-0.00005	mg/L	0.000144	-0.00005	mg/L	0.000144	268.24%
QC value within limits for Ba	Recovery = Not calculated							
Be†	69.1	0.00002	mg/L	0.000002	0.00002	mg/L	0.000002	10.34%
QC value within limits for Be	Recovery = Not calculated							
Ca†	2.0	0.00029	mg/L	0.001684	0.00029	mg/L	0.001684	571.16%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	6.2	0.00019	mg/L	0.000353	0.00019	mg/L	0.000353	190.70%
QC value within limits for Cd	Recovery = Not calculated							
Co†	2.6	0.00013	mg/L	0.000270	0.00013	mg/L	0.000270	208.90%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-10.8	-0.00014	mg/L	0.000117	-0.00014	mg/L	0.000117	86.48%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	74.5	0.00020	mg/L	0.000167	0.00020	mg/L	0.000167	83.73%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	2.0	0.00223	mg/L	0.000678	0.00223	mg/L	0.000678	30.38%
QC value within limits for Fe	Recovery = Not calculated							
K†	27.8	0.0241	mg/L	0.02357	0.0241	mg/L	0.02357	97.69%
QC value within limits for K	Recovery = Not calculated							
Mg†	-2.6	-0.00102	mg/L	0.000195	-0.00102	mg/L	0.000195	19.19%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-88.9	-0.00016	mg/L	0.000017	-0.00016	mg/L	0.000017	11.01%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	14.3	0.00107	mg/L	0.000070	0.00107	mg/L	0.000070	6.59%
QC value within limits for Mo	Recovery = Not calculated							
Na†	-29.9	-0.00836	mg/L	0.009957	-0.00836	mg/L	0.009957	119.07%
QC value within limits for Na	Recovery = Not calculated							
Ni†	11.3	0.00049	mg/L	0.000009	0.00049	mg/L	0.000009	1.84%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	6.5	0.00126	mg/L	0.001459	0.00126	mg/L	0.001459	116.07%
QC value within limits for Pb	Recovery = Not calculated							
Sb†	9.9	0.00607	mg/L	0.000953	0.00607	mg/L	0.000953	15.72%
QC value within limits for Sb	Recovery = Not calculated							
Se†	7.6	0.00551	mg/L	0.003490	0.00551	mg/L	0.003490	63.37%
QC value within limits for Se	Recovery = Not calculated							
Tl†	6.3	0.00222	mg/L	0.001218	0.00222	mg/L	0.001218	54.98%
QC value within limits for Tl	Recovery = Not calculated							
V†	-13.7	-0.00008	mg/L	0.000218	-0.00008	mg/L	0.000218	272.81%
QC value within limits for V	Recovery = Not calculated							
Zn†	8.9	0.00017	mg/L	0.000086	0.00017	mg/L	0.000086	49.80%
QC value within limits for Zn	Recovery = Not calculated							
Alx†	-13.5	-0.179	ug/L	0.3656	-0.00018	mg/L	0.000366	204.77%
QC value within limits for Alx	Recovery = Not calculated							
Bex†	69.1	0.0222	ug/L	0.00230	0.00002	mg/L	0.000002	10.34%
QC value within limits for Bex	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 15
Sample ID: MRL
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 1/13/2008 17:37:41
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	456796.9	101	%	0.0				0.01%
Yr	224470.8	99.2	%	0.82				0.82%
Ag†	2898.4	0.0103	mg/L	0.00013	0.0103	mg/L	0.00013	1.30%
QC value within limits for Ag	Recovery = 102.56%							
Al†	204.9	0.0463	mg/L	0.00115	0.0463	mg/L	0.00115	2.49%
QC value within limits for Al	Recovery = 92.59%							
As†	214.4	0.0978	mg/L	0.00110	0.0978	mg/L	0.00110	1.12%
QC value within limits for As	Recovery = 97.75%							
B_†	2058.8	0.0669	mg/L	0.00101	0.0669	mg/L	0.00101	1.51%
QC value within limits for B_	Recovery = 133.70%							
Ba†	1628.2	0.0217	mg/L	0.00002	0.0217	mg/L	0.00002	0.11%
QC value within limits for Ba	Recovery = 108.48%							
Be†	3542.6	0.00114	mg/L	0.000009	0.00114	mg/L	0.000009	0.75%
QC value within limits for Be	Recovery = 114.01%							
Ca†	7098.7	1.03	mg/L	0.002	1.03	mg/L	0.002	0.16%
QC value within limits for Ca	Recovery = 103.34%							
Cd†	183.6	0.00511	mg/L	0.000317	0.00511	mg/L	0.000317	6.20%
QC value within limits for Cd	Recovery = 102.28%							
Co†	1145.3	0.0564	mg/L	0.00019	0.0564	mg/L	0.00019	0.33%
QC value within limits for Co	Recovery = 112.70%							
Cr†	875.8	0.0110	mg/L	0.00001	0.0110	mg/L	0.00001	0.13%
QC value within limits for Cr	Recovery = 109.89%							
Cu†	4056.1	0.0109	mg/L	0.00016	0.0109	mg/L	0.00016	1.49%
QC value within limits for Cu	Recovery = 108.82%							
Fe†	21.5	0.0244	mg/L	0.00190	0.0244	mg/L	0.00190	7.78%
QC value within limits for Fe	Recovery = 122.14%							
K†	1145.8	0.994	mg/L	0.0038	0.994	mg/L	0.0038	0.38%
QC value within limits for K	Recovery = 99.43%							
Mg†	274.5	0.107	mg/L	0.0013	0.107	mg/L	0.0013	1.25%
QC value within limits for Mg	Recovery = 106.74%							
Mn†	1215.6	0.00213	mg/L	0.000007	0.00213	mg/L	0.000007	0.31%
QC value within limits for Mn	Recovery = 106.72%							
Mo†	285.4	0.0213	mg/L	0.00011	0.0213	mg/L	0.00011	0.54%
QC value within limits for Mo	Recovery = 106.65%							
Na†	3517.7	0.983	mg/L	0.0041	0.983	mg/L	0.0041	0.42%
QC value within limits for Na	Recovery = 98.34%							
Ni†	533.0	0.0229	mg/L	0.00024	0.0229	mg/L	0.00024	1.06%
QC value within limits for Ni	Recovery = 114.32%							
Pb†	114.1	0.0220	mg/L	0.00043	0.0220	mg/L	0.00043	1.96%
QC value within limits for Pb	Recovery = 109.76%							
Sb†	76.7	0.0468	mg/L	0.00163	0.0468	mg/L	0.00163	3.49%
QC value within limits for Sb	Recovery = 93.66%							
Se†	137.9	0.0997	mg/L	0.00510	0.0997	mg/L	0.00510	5.11%
QC value within limits for Se	Recovery = 99.66%							
Tl†	350.2	0.123	mg/L	0.0007	0.123	mg/L	0.0007	0.57%
QC value within limits for Tl	Recovery = 122.97%							
V†	337.7	0.00201	mg/L	0.000096	0.00201	mg/L	0.000096	4.76%
QC value within limits for V	Recovery = 100.52%							
Zn†	1125.2	0.0221	mg/L	0.00021	0.0221	mg/L	0.00021	0.94%
QC value within limits for Zn	Recovery = 110.25%							
Alx†	3917.8	52.0	ug/L	0.54	0.0520	mg/L	0.00054	1.04%
QC value within limits for Alx	Recovery = 103.96%							
Bex†	3542.6	1.14	ug/L	0.009	0.00114	mg/L	0.000009	0.75%
QC value within limits for Bex	Recovery = 114.01%							

All analyte(s) passed QC.

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

Autosampler Location: 16
Date Collected: 1/13/2008 17:41:18
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL/2

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: MRL/2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	454055.5	100	%	0.4				0.43%
Yr	224787.0	99.4	%	1.39				1.40%
Agt	1380.0	0.00488	mg/L	0.000134	0.00488	mg/L	0.000134	2.73%
Alt	94.6	0.0214	mg/L	0.01560	0.0214	mg/L	0.01560	72.99%
Ast	107.1	0.0488	mg/L	0.00117	0.0488	mg/L	0.00117	2.40%
B_t	1251.2	0.0406	mg/L	0.00010	0.0406	mg/L	0.00010	0.25%
Bat	811.0	0.0108	mg/L	0.00001	0.0108	mg/L	0.00001	0.09%
Bet	1869.6	0.00060	mg/L	0.000030	0.00060	mg/L	0.000030	4.96%
Cat	3619.7	0.527	mg/L	0.0001	0.527	mg/L	0.0001	0.02%
Cdt	97.1	0.00275	mg/L	0.000099	0.00275	mg/L	0.000099	3.60%
Cot	568.5	0.0280	mg/L	0.00010	0.0280	mg/L	0.00010	0.36%
Crt	463.4	0.00581	mg/L	0.000105	0.00581	mg/L	0.000105	1.81%
Cut	2029.5	0.00544	mg/L	0.000065	0.00544	mg/L	0.000065	1.18%
Fet	24.3	0.0277	mg/L	0.00610	0.0277	mg/L	0.00610	22.03%
Kt	590.5	0.512	mg/L	0.0140	0.512	mg/L	0.0140	2.73%
Mgt	134.6	0.0523	mg/L	0.00012	0.0523	mg/L	0.00012	0.23%
Mnt	580.8	0.00102	mg/L	0.000004	0.00102	mg/L	0.000004	0.36%
Mot	147.0	0.0110	mg/L	0.00005	0.0110	mg/L	0.00005	0.45%
Nat	1787.3	0.500	mg/L	0.0033	0.500	mg/L	0.0033	0.65%
Nit	267.3	0.0115	mg/L	0.00004	0.0115	mg/L	0.00004	0.32%
Pbt	60.5	0.0116	mg/L	0.00031	0.0116	mg/L	0.00031	2.70%
Sbt	40.0	0.0244	mg/L	0.00032	0.0244	mg/L	0.00032	1.33%
Set	67.3	0.0487	mg/L	0.00077	0.0487	mg/L	0.00077	1.57%
Tlt	171.9	0.0604	mg/L	0.00035	0.0604	mg/L	0.00035	0.59%
Vt	201.1	0.00119	mg/L	0.000352	0.00119	mg/L	0.000352	29.52%
Znt	559.8	0.0110	mg/L	0.00003	0.0110	mg/L	0.00003	0.25%
Alxt	2048.2	27.2	ug/L	0.87	0.0272	mg/L	0.00087	3.20%
Bext	1869.6	0.602	ug/L	0.0298	0.00060	mg/L	0.000030	4.96%

Sequence No.: 17
Sample ID: MRL/5
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 17
Date Collected: 1/13/2008 17:44:53
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL/5

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: MRL/5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	455066.7	100	%	1.0				0.95%
Yr	223401.9	98.8	%	0.84				0.85%
Agt	595.3	0.00211	mg/L	0.000054	0.00211	mg/L	0.000054	2.54%
Alt	22.2	0.00501	mg/L	0.013463	0.00501	mg/L	0.013463	268.59%
Ast	43.6	0.0199	mg/L	0.00320	0.0199	mg/L	0.00320	16.12%
B_t	744.0	0.0242	mg/L	0.00014	0.0242	mg/L	0.00014	0.56%
Bat	327.3	0.00436	mg/L	0.000031	0.00436	mg/L	0.000031	0.70%
Bet	841.5	0.00027	mg/L	0.000017	0.00027	mg/L	0.000017	6.40%
Cat	1502.2	0.219	mg/L	0.0038	0.219	mg/L	0.0038	1.74%
Cdt	42.6	0.00123	mg/L	0.000106	0.00123	mg/L	0.000106	8.65%
Cot	230.1	0.0113	mg/L	0.00008	0.0113	mg/L	0.00008	0.72%
Crt	157.2	0.00197	mg/L	0.000011	0.00197	mg/L	0.000011	0.54%
Cut	848.8	0.00228	mg/L	0.000205	0.00228	mg/L	0.000205	9.02%
Fet	5.4	0.00613	mg/L	0.000983	0.00613	mg/L	0.000983	16.02%
Kt	229.1	0.199	mg/L	0.0310	0.199	mg/L	0.0310	15.57%
Mgt	56.0	0.0218	mg/L	0.00049	0.0218	mg/L	0.00049	2.24%
Mnt	161.7	0.00028	mg/L	0.000008	0.00028	mg/L	0.000008	2.85%
Mot	61.8	0.00462	mg/L	0.000249	0.00462	mg/L	0.000249	5.39%
Nat	737.0	0.206	mg/L	0.0015	0.206	mg/L	0.0015	0.73%
Nit	110.1	0.00472	mg/L	0.000064	0.00472	mg/L	0.000064	1.35%
Pbt	29.3	0.00564	mg/L	0.000589	0.00564	mg/L	0.000589	10.44%
Sbt	22.9	0.0140	mg/L	0.00205	0.0140	mg/L	0.00205	14.63%
Set	24.8	0.0179	mg/L	0.00417	0.0179	mg/L	0.00417	23.25%
Tlt	79.0	0.0278	mg/L	0.00027	0.0278	mg/L	0.00027	0.96%
Vt	20.9	0.00013	mg/L	0.000007	0.00013	mg/L	0.000007	5.43%
Znt	208.3	0.00408	mg/L	0.000154	0.00408	mg/L	0.000154	3.78%
Alxt	834.6	11.1	ug/L	0.52	0.0111	mg/L	0.00052	4.69%
Bext	841.5	0.271	ug/L	0.0173	0.00027	mg/L	0.000017	6.40%

Sequence No.: 18
Sample ID: FILTERCHECK
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 18
Date Collected: 1/13/2008 17:48:29
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: FILTERCHECK

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: FILTERCHECK

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	453780.0	100	%	0.4				0.43%
Yr	224583.8	99.3	%	0.15				0.16%
Agt	-99.1	-0.00035	mg/L	0.000140	-0.00035	mg/L	0.000140	39.85%
Alt	15.7	0.00356	mg/L	0.002329	0.00356	mg/L	0.002329	65.46%
Ast	4.2	0.00193	mg/L	0.000024	0.00193	mg/L	0.000024	1.22%
B_t	388.3	0.0126	mg/L	0.00014	0.0126	mg/L	0.00014	1.09%
Bat	111.9	0.00149	mg/L	0.000006	0.00149	mg/L	0.000006	0.37%
Bet	154.7	0.00005	mg/L	0.000014	0.00005	mg/L	0.000014	27.80%
Cat	431.2	0.0628	mg/L	0.00128	0.0628	mg/L	0.00128	2.04%
Cdt	5.3	0.00016	mg/L	0.000209	0.00016	mg/L	0.000209	131.89%
Cot	-0.0	0.00000	mg/L	0.000299	0.00000	mg/L	0.000299	>999.9%
Crt	-16.8	-0.00021	mg/L	0.000010	-0.00021	mg/L	0.000010	4.86%
Cut	373.5	0.00100	mg/L	0.000054	0.00100	mg/L	0.000054	5.44%
Fet	4.0	0.00460	mg/L	0.000955	0.00460	mg/L	0.000955	20.76%
Kt	39.3	0.0341	mg/L	0.01825	0.0341	mg/L	0.01825	53.48%
Mgt	9.8	0.00381	mg/L	0.001036	0.00381	mg/L	0.001036	27.20%
Mnt	-49.5	-0.00009	mg/L	0.000014	-0.00009	mg/L	0.000014	16.01%
Mot	7.0	0.00053	mg/L	0.000635	0.00053	mg/L	0.000635	121.01%
Nat	-10.6	-0.00296	mg/L	0.019986	-0.00296	mg/L	0.019986	674.64%
Nit	16.4	0.00071	mg/L	0.000321	0.00071	mg/L	0.000321	45.48%
Pbt	4.2	0.00080	mg/L	0.000783	0.00080	mg/L	0.000783	97.97%
Sbt	6.8	0.00417	mg/L	0.000442	0.00417	mg/L	0.000442	10.59%
Set	-1.5	-0.00104	mg/L	0.001575	-0.00104	mg/L	0.001575	151.38%
Tlt	8.2	0.00287	mg/L	0.001192	0.00287	mg/L	0.001192	41.48%
Vt	-18.6	-0.00011	mg/L	0.000106	-0.00011	mg/L	0.000106	97.49%
Znt	4274.8	0.0844	mg/L	0.00050	0.0844	mg/L	0.00050	0.59%
Alxt	79.3	1.05	ug/L	0.440	0.00105	mg/L	0.000440	41.79%
Bext	154.7	0.0498	ug/L	0.01384	0.00005	mg/L	0.000014	27.80%

Sequence No.: 86
Sample ID: MBLANK
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 92
Date Collected: 1/13/2008 22:00:47
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MBLANK

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: MBLANK

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	465856.1	103	%	0.9				0.90%
Yr	226274.4	100	%	0.4				0.45%
Alt	-18.4	-0.00415	mg/L	0.010514	-0.00415	mg/L	0.010514	253.44%
B_t	544.3	0.0177	mg/L	0.00073	0.0177	mg/L	0.00073	4.12%
Bat	-4.6	-0.00006	mg/L	0.000006	-0.00006	mg/L	0.000006	10.04%
Bet	161.3	0.00005	mg/L	0.000011	0.00005	mg/L	0.000011	20.98%
Cat	172.9	0.0252	mg/L	0.00111	0.0252	mg/L	0.00111	4.41%
Cdt	-0.4	-0.00001	mg/L	0.000168	-0.00001	mg/L	0.000168	>999.9%
Cot	4.3	0.00021	mg/L	0.000028	0.00021	mg/L	0.000028	13.33%
Crt	-8.3	-0.00010	mg/L	0.000103	-0.00010	mg/L	0.000103	98.95%
Cut	-36.3	-0.00010	mg/L	0.000153	-0.00010	mg/L	0.000153	158.62%
Fet	3.0	0.00344	mg/L	0.001862	0.00344	mg/L	0.001862	54.10%
Kt	22.0	0.0191	mg/L	0.00748	0.0191	mg/L	0.00748	39.20%
Mgt	-3.7	-0.00144	mg/L	0.000533	-0.00144	mg/L	0.000533	36.92%
Mnt	-238.8	-0.00042	mg/L	0.000009	-0.00042	mg/L	0.000009	2.05%
Mot	5.6	0.00042	mg/L	0.000154	0.00042	mg/L	0.000154	36.94%
Nat	154.3	0.0431	mg/L	0.00318	0.0431	mg/L	0.00318	7.38%
Nit	4.0	0.00017	mg/L	0.000049	0.00017	mg/L	0.000049	28.69%
Pbt	-11.0	-0.00212	mg/L	0.000945	-0.00212	mg/L	0.000945	44.57%
Vt	-22.8	-0.00013	mg/L	0.000056	-0.00013	mg/L	0.000056	42.39%
Znt	158.0	0.00312	mg/L	0.000034	0.00312	mg/L	0.000034	1.10%

Sequence No.: 87
Sample ID: MRL
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 22
Date Collected: 1/13/2008 22:04:25
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: MRL

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	457854.1	101	%	0.4				0.42%
Yr	224747.0	99.4	%	0.93				0.94%
Al†	227.4	0.0514	mg/L	0.00315	0.0514	mg/L	0.00315	6.13%
B_†	2005.5	0.0651	mg/L	0.00048	0.0651	mg/L	0.00048	0.74%
Ba†	1620.8	0.0216	mg/L	0.00004	0.0216	mg/L	0.00004	0.16%
Be†	3592.2	0.00116	mg/L	0.000000	0.00116	mg/L	0.000000	0.03%
Ca†	7058.5	1.03	mg/L	0.006	1.03	mg/L	0.006	0.56%
Cd†	185.6	0.00689	mg/L	0.000136	0.00689	mg/L	0.000136	1.97%
Co†	1150.4	0.0566	mg/L	0.00028	0.0566	mg/L	0.00028	0.50%
Cr†	837.1	0.0105	mg/L	0.00023	0.0105	mg/L	0.00023	2.16%
Cu†	4096.5	0.0110	mg/L	0.00009	0.0110	mg/L	0.00009	0.81%
Fe†	17.0	0.0194	mg/L	0.00291	0.0194	mg/L	0.00291	14.98%
K†	1096.4	0.951	mg/L	0.0395	0.951	mg/L	0.0395	4.15%
Mg†	262.2	0.102	mg/L	0.0017	0.102	mg/L	0.0017	1.63%
Mn†	1073.9	0.00189	mg/L	0.000002	0.00189	mg/L	0.000002	0.12%
Mo†	279.8	0.0209	mg/L	0.00020	0.0209	mg/L	0.00020	0.94%
Na†	3530.8	0.987	mg/L	0.0049	0.987	mg/L	0.0049	0.50%
Ni†	530.6	0.0228	mg/L	0.00008	0.0228	mg/L	0.00008	0.35%
Pb†	117.5	0.0226	mg/L	0.00077	0.0226	mg/L	0.00077	3.42%
V†	342.7	0.00204	mg/L	0.000058	0.00204	mg/L	0.000058	2.87%
Zn†	1095.1	0.0215	mg/L	0.00007	0.0215	mg/L	0.00007	0.31%

Sequence No.: 88
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/13/2008 22:08:01
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	431116.2	95.1	%	0.02				0.02%
Yr	212304.2	93.9	%	1.99				2.12%
Al†	22064.9	4.99	mg/L	0.087	4.99	mg/L	0.087	1.75%
QC value within limits for Al Recovery = 99.72%								
B_†	78194.8	2.53	mg/L	0.017	2.53	mg/L	0.017	0.68%
QC value within limits for B_ Recovery = 101.31%								
Ba†	389629.7	5.19	mg/L	0.015	5.19	mg/L	0.015	0.29%
QC value within limits for Ba Recovery = 103.83%								
Be†	6519442.7	2.10	mg/L	0.002	2.10	mg/L	0.002	0.07%
QC value within limits for Be Recovery = 104.91%								
Ca†	339903.6	49.5	mg/L	0.11	49.5	mg/L	0.11	0.21%
QC value within limits for Ca Recovery = 98.96%								
Cd†	57107.0	2.07	mg/L	0.010	2.07	mg/L	0.010	0.49%
QC value within limits for Cd Recovery = 103.64%								
Co†	107466.0	5.29	mg/L	0.014	5.29	mg/L	0.014	0.26%
QC value within limits for Co Recovery = 105.75%								
Cr†	415774.2	5.22	mg/L	0.019	5.22	mg/L	0.019	0.36%
QC value within limits for Cr Recovery = 104.34%								
Cu†	1930838.8	5.16	mg/L	0.014	5.16	mg/L	0.014	0.27%
QC value within limits for Cu Recovery = 103.20%								
Fe†	4374.2	4.98	mg/L	0.062	4.98	mg/L	0.062	1.25%
QC value within limits for Fe Recovery = 99.59%								
K†	54610.9	47.4	mg/L	0.07	47.4	mg/L	0.07	0.15%
QC value within limits for K Recovery = 94.78%								
Mg†	127415.2	49.6	mg/L	0.20	49.6	mg/L	0.20	0.41%
QC value within limits for Mg Recovery = 99.10%								
Mn†	2982719.2	5.24	mg/L	0.007	5.24	mg/L	0.007	0.13%
QC value within limits for Mn Recovery = 104.75%								
Mo†	68409.8	5.11	mg/L	0.028	5.11	mg/L	0.028	0.55%
QC value within limits for Mo Recovery = 102.25%								
Na†	170415.0	47.6	mg/L	0.15	47.6	mg/L	0.15	0.31%
QC value within limits for Na Recovery = 95.29%								
Ni†	121783.2	5.22	mg/L	0.019	5.22	mg/L	0.019	0.36%
QC value within limits for Ni Recovery = 104.49%								
Pb†	27429.4	5.28	mg/L	0.030	5.28	mg/L	0.030	0.56%
QC value within limits for Pb Recovery = 105.54%								
V†	885201.8	5.14	mg/L	0.016	5.14	mg/L	0.016	0.32%
QC value within limits for V Recovery = 102.80%								
Zn†	267262.3	5.24	mg/L	0.035	5.24	mg/L	0.035	0.67%
QC value within limits for Zn Recovery = 104.78%								

All analyte(s) passed QC.

Sequence No.: 89
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/13/2008 22:11:13
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	457162.2	101	%	0.7				0.73%
Yr	224060.0	99.0	%	0.51				0.52%
Al†	-7.8	-0.00176	mg/L	0.001396	-0.00176	mg/L	0.001396	79.26%
QC value within limits for Al	Recovery = Not calculated							
B_†	647.1	0.0210	mg/L	0.00107	0.0210	mg/L	0.00107	5.08%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Ba†	2.3	0.00003	mg/L	0.000078	0.00003	mg/L	0.000078	260.91%
QC value within limits for Ba	Recovery = Not calculated							
Be†	226.4	0.00007	mg/L	0.000039	0.00007	mg/L	0.000039	53.53%
QC value within limits for Be	Recovery = Not calculated							
Ca†	36.5	0.00532	mg/L	0.000067	0.00532	mg/L	0.000067	1.25%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	5.5	0.00020	mg/L	0.000105	0.00020	mg/L	0.000105	53.14%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-3.9	-0.00019	mg/L	0.000083	-0.00019	mg/L	0.000083	43.10%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-18.0	-0.00023	mg/L	0.000044	-0.00023	mg/L	0.000044	19.51%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-85.6	-0.00023	mg/L	0.000164	-0.00023	mg/L	0.000164	71.89%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	1.8	0.00205	mg/L	0.002219	0.00205	mg/L	0.002219	108.21%
QC value within limits for Fe	Recovery = Not calculated							
K†	46.2	0.0401	mg/L	0.00591	0.0401	mg/L	0.00591	14.74%
QC value within limits for K	Recovery = Not calculated							
Mg†	-0.9	-0.00036	mg/L	0.000285	-0.00036	mg/L	0.000285	78.77%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-144.6	-0.00025	mg/L	0.000019	-0.00025	mg/L	0.000019	7.46%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	25.2	0.00188	mg/L	0.000504	0.00188	mg/L	0.000504	26.74%
QC value within limits for Mo	Recovery = Not calculated							
Na†	24.3	0.00680	mg/L	0.007016	0.00680	mg/L	0.007016	103.12%
QC value within limits for Na	Recovery = Not calculated							
Ni†	11.6	0.00050	mg/L	0.000027	0.00050	mg/L	0.000027	5.33%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-2.8	-0.00054	mg/L	0.001537	-0.00054	mg/L	0.001537	285.15%
QC value within limits for Pb	Recovery = Not calculated							
V†	-6.9	-0.00004	mg/L	0.000051	-0.00004	mg/L	0.000051	123.12%
QC value within limits for V	Recovery = Not calculated							
Zn†	6.7	0.00013	mg/L	0.000035	0.00013	mg/L	0.000035	26.86%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Retry.

Sequence No.: 90
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/13/2008 22:13:47
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	210.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	449966.3	99.3	%	0.04				0.04%
Yr	223902.4	99.0	%	0.54				0.55%
Al†	3.5	0.00080	mg/L	0.006318	0.00080	mg/L	0.006318	790.68%
QC value within limits for Al	Recovery = Not calculated							
B_†	565.9	0.0184	mg/L	0.00044	0.0184	mg/L	0.00044	2.41%
QC value within limits for B_	Recovery = Not calculated							
Ba†	-3.0	-0.00004	mg/L	0.000036	-0.00004	mg/L	0.000036	89.39%
QC value within limits for Ba	Recovery = Not calculated							
Be†	215.6	0.00007	mg/L	0.000014	0.00007	mg/L	0.000014	20.86%
QC value within limits for Be	Recovery = Not calculated							
Ca†	44.4	0.00646	mg/L	0.001439	0.00646	mg/L	0.001439	22.27%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	5.5	0.00020	mg/L	0.000149	0.00020	mg/L	0.000149	74.63%
QC value within limits for Cd	Recovery = Not calculated							
Co†	0.7	0.00004	mg/L	0.000315	0.00004	mg/L	0.000315	856.65%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-3.0	-0.00004	mg/L	0.000057	-0.00004	mg/L	0.000057	153.80%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-11.6	-0.00003	mg/L	0.000109	-0.00003	mg/L	0.000109	350.57%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	0.2	0.00028	mg/L	0.000738	0.00028	mg/L	0.000738	259.88%
QC value within limits for Fe	Recovery = Not calculated							
K†	34.6	0.0301	mg/L	0.01678	0.0301	mg/L	0.01678	55.81%
QC value within limits for K	Recovery = Not calculated							
Mg†	-1.9	-0.00073	mg/L	0.000060	-0.00073	mg/L	0.000060	8.26%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-147.4	-0.00026	mg/L	0.000009	-0.00026	mg/L	0.000009	3.56%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	13.2	0.00098	mg/L	0.000322	0.00098	mg/L	0.000322	32.71%
QC value within limits for Mo	Recovery = Not calculated							
Na†	29.8	0.00833	mg/L	0.006030	0.00833	mg/L	0.006030	72.39%
QC value within limits for Na	Recovery = Not calculated							
Ni†	-0.5	-0.00002	mg/L	0.000186	-0.00002	mg/L	0.000186	914.65%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-3.1	-0.00059	mg/L	0.000754	-0.00059	mg/L	0.000754	127.65%
QC value within limits for Pb	Recovery = Not calculated							
V†	-2.5	-0.00001	mg/L	0.000300	-0.00001	mg/L	0.000300	>999.9%
QC value within limits for V	Recovery = Not calculated							
Zn†	9.0	0.00018	mg/L	0.000121	0.00018	mg/L	0.000121	68.17%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 91
Sample ID: MCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 1/13/2008 22:17:10
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MCV

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: MCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Sca	438175.0	96.7	%	0.51				0.52%
Yr	215143.0	95.1	%	0.23				0.24%
Al†	11012.3	2.49	mg/L	0.012	2.49	mg/L	0.012	0.47%
QC value within limits for Al	Recovery = 99.54%							
B_†	39500.0	1.28	mg/L	0.012	1.28	mg/L	0.012	0.90%
QC value within limits for B_	Recovery = 102.35%							
Ba†	198606.3	2.65	mg/L	0.001	2.65	mg/L	0.001	0.03%
QC value within limits for Ba	Recovery = 105.85%							
Be†	3299255.4	1.06	mg/L	0.002	1.06	mg/L	0.002	0.20%
QC value within limits for Be	Recovery = 106.18%							
Ca†	170904.5	24.9	mg/L	0.07	24.9	mg/L	0.07	0.30%
QC value within limits for Ca	Recovery = 99.52%							
Cd†	28779.7	1.04	mg/L	0.010	1.04	mg/L	0.010	0.91%
QC value within limits for Cd	Recovery = 104.47%							
Co†	54899.5	2.70	mg/L	0.010	2.70	mg/L	0.010	0.36%
QC value within limits for Co	Recovery = 108.05%							
Cr†	209548.0	2.63	mg/L	0.004	2.63	mg/L	0.004	0.17%
QC value within limits for Cr	Recovery = 105.17%							
Cu†	982200.5	2.62	mg/L	0.001	2.62	mg/L	0.001	0.05%
QC value within limits for Cu	Recovery = 104.99%							
Fe†	2194.2	2.50	mg/L	0.003	2.50	mg/L	0.003	0.12%
QC value within limits for Fe	Recovery = 99.91%							
K†	27166.0	23.6	mg/L	0.11	23.6	mg/L	0.11	0.47%
QC value within limits for K	Recovery = 94.29%							
Mg†	64491.9	25.1	mg/L	0.02	25.1	mg/L	0.02	0.07%
QC value within limits for Mg	Recovery = 100.32%							
Mn†	1528469.6	2.68	mg/L	0.005	2.68	mg/L	0.005	0.20%
QC value within limits for Mn	Recovery = 107.35%							
Mo†	34700.7	2.59	mg/L	0.013	2.59	mg/L	0.013	0.52%
QC value within limits for Mo	Recovery = 103.74%							
Na†	85391.7	23.9	mg/L	0.14	23.9	mg/L	0.14	0.59%
QC value within limits for Na	Recovery = 95.49%							
Ni†	62481.2	2.68	mg/L	0.018	2.68	mg/L	0.018	0.69%
QC value within limits for Ni	Recovery = 107.21%							
Pb†	14054.9	2.70	mg/L	0.025	2.70	mg/L	0.025	0.93%
QC value within limits for Pb	Recovery = 108.15%							
V†	446589.3	2.59	mg/L	0.004	2.59	mg/L	0.004	0.14%
QC value within limits for V	Recovery = 103.72%							
Zn†	136353.0	2.67	mg/L	0.018	2.67	mg/L	0.018	0.67%
QC value within limits for Zn	Recovery = 106.91%							

All analyte(s) passed QC.

Sequence No.: 92
Sample ID: MRL2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 93
Date Collected: 1/13/2008 22:20:56
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MRL2007

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: MRL2007

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	463200.1	102	%	0.4				0.39%
Yr	231171.6	102	%	0.1				0.08%
Alt	192.8	0.0436	mg/L	0.00128	0.0436	mg/L	0.00128	2.95%
B_t	2141.0	0.0695	mg/L	0.00006	0.0695	mg/L	0.00006	0.09%
Bat	1658.0	0.0221	mg/L	0.00000	0.0221	mg/L	0.00000	0.01%
Bet	3681.4	0.00118	mg/L	0.000025	0.00118	mg/L	0.000025	2.09%
Cat	7206.0	1.05	mg/L	0.006	1.05	mg/L	0.006	0.55%
Cdt	192.0	0.00712	mg/L	0.000065	0.00712	mg/L	0.000065	0.91%
Cot	1178.3	0.0580	mg/L	0.00030	0.0580	mg/L	0.00030	0.52%
Crt	864.0	0.0108	mg/L	0.00013	0.0108	mg/L	0.00013	1.16%
Cut	4191.3	0.0112	mg/L	0.00015	0.0112	mg/L	0.00015	1.30%
Fet	18.7	0.0212	mg/L	0.00120	0.0212	mg/L	0.00120	5.65%
Kt	1152.1	1.000	mg/L	0.0035	1.000	mg/L	0.0035	0.35%
Mgt	267.9	0.104	mg/L	0.0009	0.104	mg/L	0.0009	0.88%
Mnt	1143.4	0.00201	mg/L	0.000008	0.00201	mg/L	0.000008	0.41%
Mot	299.7	0.0224	mg/L	0.00040	0.0224	mg/L	0.00040	1.78%
Nat	3664.7	1.02	mg/L	0.006	1.02	mg/L	0.006	0.59%
Nit	536.6	0.0230	mg/L	0.00002	0.0230	mg/L	0.00002	0.08%
Pbt	115.2	0.0222	mg/L	0.00112	0.0222	mg/L	0.00112	5.07%
Vt	366.7	0.00218	mg/L	0.000011	0.00218	mg/L	0.000011	0.49%
Znt	1266.8	0.0248	mg/L	0.00004	0.0248	mg/L	0.00004	0.15%

Sequence No.: 93
Sample ID: LCS2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 94
Date Collected: 1/13/2008 22:24:34
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCS2007

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: LCS2007

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	450124.7	99.3	%	0.10				0.10%
Yr	222635.0	98.4	%	0.21				0.21%
Al†	8598.3	1.94	mg/L	0.025	1.94	mg/L	0.025	1.28%
B_†	15860.1	0.514	mg/L	0.0086	0.514	mg/L	0.0086	1.67%
Ba†	77373.4	1.03	mg/L	0.009	1.03	mg/L	0.009	0.88%
Be†	164247.9	0.0529	mg/L	0.00007	0.0529	mg/L	0.00007	0.14%
Ca†	341159.2	49.7	mg/L	0.00	49.7	mg/L	0.00	0.00%
Cd†	5918.6	0.217	mg/L	0.0013	0.217	mg/L	0.0013	0.60%
Co†	21623.4	1.06	mg/L	0.011	1.06	mg/L	0.011	1.06%
Cr†	81779.8	1.03	mg/L	0.002	1.03	mg/L	0.002	0.15%
Cu†	392237.1	1.05	mg/L	0.005	1.05	mg/L	0.005	0.45%
Fe†	4349.9	4.95	mg/L	0.027	4.95	mg/L	0.027	0.55%
K†	22154.5	19.2	mg/L	0.19	19.2	mg/L	0.19	0.97%
Mg†	51550.8	20.0	mg/L	0.11	20.0	mg/L	0.11	0.57%
Mn†	300226.2	0.527	mg/L	0.0014	0.527	mg/L	0.0014	0.26%
Mo†	13525.0	1.01	mg/L	0.008	1.01	mg/L	0.008	0.83%
Na†	172991.7	48.4	mg/L	0.02	48.4	mg/L	0.02	0.04%
Ni†	12154.3	0.521	mg/L	0.0070	0.521	mg/L	0.0070	1.35%
Pb†	5472.6	1.05	mg/L	0.002	1.05	mg/L	0.002	0.18%
V†	176415.6	1.02	mg/L	0.002	1.02	mg/L	0.002	0.16%
Zn†	54210.2	1.07	mg/L	0.015	1.07	mg/L	0.015	1.38%

Sequence No.: 94
Sample ID: LCSD2007
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 95
Date Collected: 1/13/2008 22:27:00
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: LCSD2007

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: LCSD2007

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	444610.2	98.1	%	0.47				0.47%
Yr	221351.6	97.9	%	0.05				0.06%
Alt	8560.7	1.93	mg/L	0.017	1.93	mg/L	0.017	0.90%
B_t	16249.3	0.526	mg/L	0.0013	0.526	mg/L	0.0013	0.25%
Bat	77512.1	1.03	mg/L	0.001	1.03	mg/L	0.001	0.12%
Bet	164888.5	0.0531	mg/L	0.00003	0.0531	mg/L	0.00003	0.06%
Cat	347818.4	50.6	mg/L	0.14	50.6	mg/L	0.14	0.27%
Cdt	5973.3	0.219	mg/L	0.0000	0.219	mg/L	0.0000	0.02%
Cot	21795.7	1.07	mg/L	0.002	1.07	mg/L	0.002	0.17%
Crt	82255.3	1.03	mg/L	0.001	1.03	mg/L	0.001	0.10%
Cut	393210.5	1.05	mg/L	0.001	1.05	mg/L	0.001	0.10%
Fet	4336.6	4.94	mg/L	0.008	4.94	mg/L	0.008	0.15%
Kt	22460.9	19.5	mg/L	0.00	19.5	mg/L	0.00	0.01%
Mgt	52213.9	20.3	mg/L	0.01	20.3	mg/L	0.01	0.03%
Mnt	301696.5	0.530	mg/L	0.0011	0.530	mg/L	0.0011	0.22%
Mot	13771.5	1.03	mg/L	0.001	1.03	mg/L	0.001	0.06%
Nat	175610.0	49.1	mg/L	0.08	49.1	mg/L	0.08	0.15%
Nit	12389.4	0.531	mg/L	0.0006	0.531	mg/L	0.0006	0.11%
Pbt	5583.2	1.07	mg/L	0.000	1.07	mg/L	0.000	0.05%
Vt	177670.8	1.03	mg/L	0.001	1.03	mg/L	0.001	0.08%
Znt	55091.0	1.08	mg/L	0.001	1.08	mg/L	0.001	0.08%

Sequence No.: 95
Sample ID: 2801080327
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 96
Date Collected: 1/13/2008 22:30:06
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801080327

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: 2801080327

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	430980.2	95.1	%	0.19				0.20%
Yr	218643.2	96.7	%	0.59				0.61%
Alt	247.4	0.0559	mg/L	0.00657	0.0559	mg/L	0.00657	11.75%
B_t	5250.1	0.171	mg/L	0.0000	0.171	mg/L	0.0000	0.02%
Bat	12835.8	0.171	mg/L	0.0005	0.171	mg/L	0.0005	0.31%
Bet	-319.2	-0.00010	mg/L	0.000012	-0.00010	mg/L	0.000012	11.76%
Cat	538192.9	78.3	mg/L	0.16	78.3	mg/L	0.16	0.21%
Cdt	-13.9	-0.00050	mg/L	0.000047	-0.00050	mg/L	0.000047	9.29%
Cot	-7.9	-0.00039	mg/L	0.000269	-0.00039	mg/L	0.000269	69.11%
Crt	-16.8	-0.00021	mg/L	0.000056	-0.00021	mg/L	0.000056	26.80%
Cut	352.6	0.00094	mg/L	0.000104	0.00094	mg/L	0.000104	11.06%
Fet	51.5	0.0586	mg/L	0.00031	0.0586	mg/L	0.00031	0.53%
Kt	5806.2	5.04	mg/L	0.064	5.04	mg/L	0.064	1.26%
Mgt	78786.3	30.6	mg/L	0.00	30.6	mg/L	0.00	0.01%
Mnt	2268.8	0.00398	mg/L	0.000039	0.00398	mg/L	0.000039	0.97%
Mot	100.8	0.00753	mg/L	0.000544	0.00753	mg/L	0.000544	7.22%
Nat	355993.6	99.5	mg/L	0.02	99.5	mg/L	0.02	0.02%
Nit	16.6	0.00071	mg/L	0.000076	0.00071	mg/L	0.000076	10.67%
Pbt	-23.4	-0.00450	mg/L	0.001300	-0.00450	mg/L	0.001300	28.90%
Vt	512.6	0.00296	mg/L	0.000015	0.00296	mg/L	0.000015	0.49%
Znt	120.2	0.00237	mg/L	0.000078	0.00237	mg/L	0.000078	3.28%

Sequence No.: 96
Sample ID: 2801080327MS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 97
Date Collected: 1/13/2008 22:34:24
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801080327MS

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: 2801080327MS

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	433135.5	95.6	%	0.04				0.05%
Yr	214625.7	94.9	%	0.51				0.54%
Alt	9323.2	2.11	mg/L	0.011	2.11	mg/L	0.011	0.54%
B_t	21430.5	0.695	mg/L	0.0056	0.695	mg/L	0.0056	0.81%
Bat	92838.6	1.24	mg/L	0.003	1.24	mg/L	0.003	0.28%
Bet	169495.0	0.0545	mg/L	0.00027	0.0545	mg/L	0.00027	0.49%
Cat	886243.9	129	mg/L	0.0	129	mg/L	0.0	0.02%
Cdt	6131.1	0.225	mg/L	0.0002	0.225	mg/L	0.0002	0.09%
Cot	21956.8	1.08	mg/L	0.005	1.08	mg/L	0.005	0.48%
Crt	84376.8	1.06	mg/L	0.004	1.06	mg/L	0.004	0.39%
Cut	410091.2	1.10	mg/L	0.003	1.10	mg/L	0.003	0.26%
Fet	4612.8	5.25	mg/L	0.001	5.25	mg/L	0.001	0.02%
Kt	29792.7	25.9	mg/L	0.09	25.9	mg/L	0.09	0.34%
Mgt	131397.1	51.1	mg/L	0.00	51.1	mg/L	0.00	0.01%
Mnt	317007.4	0.557	mg/L	0.0018	0.557	mg/L	0.0018	0.33%
Mot	14075.3	1.05	mg/L	0.003	1.05	mg/L	0.003	0.33%
Nat	537845.5	150	mg/L	0.4	150	mg/L	0.4	0.26%
Nit	12423.8	0.533	mg/L	0.0027	0.533	mg/L	0.0027	0.50%
Pbt	5538.2	1.07	mg/L	0.006	1.07	mg/L	0.006	0.52%
Vt	183821.6	1.07	mg/L	0.004	1.07	mg/L	0.004	0.40%
Znt	56347.3	1.11	mg/L	0.002	1.11	mg/L	0.002	0.16%

Sequence No.: 97
Sample ID: 2801080327MSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 98
Date Collected: 1/13/2008 22:37:31
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801080327MSD

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: 2801080327MSD

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	428465.4	94.5	%	1.01				1.07%
Yr	215727.2	95.4	%	0.72				0.76%
Al†	9299.7	2.10	mg/L	0.009	2.10	mg/L	0.009	0.42%
B_†	21650.0	0.702	mg/L	0.0116	0.702	mg/L	0.0116	1.65%
Ba†	92845.7	1.24	mg/L	0.003	1.24	mg/L	0.003	0.23%
Be†	170051.6	0.0547	mg/L	0.00018	0.0547	mg/L	0.00018	0.32%
Ca†	874995.1	127	mg/L	0.2	127	mg/L	0.2	0.17%
Cd†	6209.9	0.227	mg/L	0.0034	0.227	mg/L	0.0034	1.51%
Co†	22263.1	1.10	mg/L	0.009	1.10	mg/L	0.009	0.85%
Cr†	84590.5	1.06	mg/L	0.003	1.06	mg/L	0.003	0.24%
Cu†	411095.0	1.10	mg/L	0.000	1.10	mg/L	0.000	0.04%
Fe†	4572.4	5.21	mg/L	0.035	5.21	mg/L	0.035	0.67%
K†	29192.2	25.3	mg/L	0.12	25.3	mg/L	0.12	0.47%
Mg†	129975.7	50.5	mg/L	0.21	50.5	mg/L	0.21	0.41%
Mn†	317232.9	0.557	mg/L	0.0012	0.557	mg/L	0.0012	0.21%
Mo†	14289.4	1.07	mg/L	0.019	1.07	mg/L	0.019	1.77%
Na†	532015.3	149	mg/L	2.9	149	mg/L	2.9	1.98%
Ni†	12568.8	0.539	mg/L	0.0100	0.539	mg/L	0.0100	1.86%
Pb†	5612.1	1.08	mg/L	0.015	1.08	mg/L	0.015	1.43%
V†	184135.1	1.07	mg/L	0.003	1.07	mg/L	0.003	0.24%
Zn†	56957.1	1.12	mg/L	0.017	1.12	mg/L	0.017	1.56%

Sequence No.: 98
Sample ID: 2801090362
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 99
Date Collected: 1/13/2008 22:40:38
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801090362

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: 2801090362

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	442146.5	97.6	%	0.69				0.70%
Yr	221868.4	98.1	%	0.16				0.16%
Alt	62.1	0.0140	mg/L	0.01117	0.0140	mg/L	0.01117	79.63%
B_t	9665.4	0.314	mg/L	0.0006	0.314	mg/L	0.0006	0.20%
Bat	512.5	0.00683	mg/L	0.000058	0.00683	mg/L	0.000058	0.86%
Bet	-116.2	-0.00004	mg/L	0.000009	-0.00004	mg/L	0.000009	24.50%
Cat	246485.8	35.9	mg/L	0.09	35.9	mg/L	0.09	0.24%
Cdt	-11.0	-0.00039	mg/L	0.000055	-0.00039	mg/L	0.000055	14.07%
Cot	6.5	0.00032	mg/L	0.000011	0.00032	mg/L	0.000011	3.58%
Crt	3.0	0.00004	mg/L	0.000049	0.00004	mg/L	0.000049	131.33%
Cut	2146.2	0.00573	mg/L	0.000038	0.00573	mg/L	0.000038	0.66%
Fet	123.2	0.140	mg/L	0.0003	0.140	mg/L	0.0003	0.18%
Kt	16265.8	14.1	mg/L	0.03	14.1	mg/L	0.03	0.21%
Mgt	22253.9	8.65	mg/L	0.015	8.65	mg/L	0.015	0.18%
Mnt	32093.7	0.0564	mg/L	0.00021	0.0564	mg/L	0.00021	0.38%
Mot	155.0	0.0116	mg/L	0.00030	0.0116	mg/L	0.00030	2.62%
Nat	290660.9	81.3	mg/L	0.19	81.3	mg/L	0.19	0.23%
Nit	68.7	0.00295	mg/L	0.000309	0.00295	mg/L	0.000309	10.49%
Pbt	-17.6	-0.00338	mg/L	0.000641	-0.00338	mg/L	0.000641	18.96%
Vt	279.9	0.00162	mg/L	0.000088	0.00162	mg/L	0.000088	5.45%
Znt	1689.9	0.0333	mg/L	0.00027	0.0333	mg/L	0.00027	0.80%

Sequence No.: 99
Sample ID: 2801090362MS
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 100
Date Collected: 1/13/2008 22:44:57
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801090362MS

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: 2801090362MS

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	436041.4	96.2	%	0.49				0.51%
Yr	216362.3	95.6	%	1.58				1.66%
Alt	9210.7	2.08	mg/L	0.028	2.08	mg/L	0.028	1.35%
B_t	26010.2	0.844	mg/L	0.0075	0.844	mg/L	0.0075	0.89%
Bat	81991.4	1.09	mg/L	0.000	1.09	mg/L	0.000	0.02%
Bet	173980.4	0.0560	mg/L	0.00000	0.0560	mg/L	0.00000	0.00%
Cat	602583.1	87.7	mg/L	0.36	87.7	mg/L	0.36	0.42%
Cdt	6253.3	0.229	mg/L	0.0014	0.229	mg/L	0.0014	0.61%
Cot	22485.8	1.11	mg/L	0.002	1.11	mg/L	0.002	0.21%
Crt	86235.5	1.08	mg/L	0.002	1.08	mg/L	0.002	0.17%
Cut	419426.3	1.12	mg/L	0.001	1.12	mg/L	0.001	0.13%
Fet	4731.8	5.39	mg/L	0.038	5.39	mg/L	0.038	0.71%
Kt	40305.6	35.0	mg/L	0.05	35.0	mg/L	0.05	0.13%
Mgt	77114.7	30.0	mg/L	0.50	30.0	mg/L	0.50	1.67%
Mnt	348520.6	0.612	mg/L	0.0004	0.612	mg/L	0.0004	0.06%
Mot	14396.3	1.08	mg/L	0.006	1.08	mg/L	0.006	0.52%
Nat	477195.7	133	mg/L	0.3	133	mg/L	0.3	0.22%
Nit	12709.9	0.545	mg/L	0.0041	0.545	mg/L	0.0041	0.75%
Pbt	5700.3	1.10	mg/L	0.012	1.10	mg/L	0.012	1.13%
Vt	186419.7	1.08	mg/L	0.001	1.08	mg/L	0.001	0.10%
Znt	58827.3	1.16	mg/L	0.008	1.16	mg/L	0.008	0.68%

Sequence No.: 100
Sample ID: 2801090362MSD
Analyst:
Initial Sample Wt:
Dilution: 1X

Autosampler Location: 101
Date Collected: 1/13/2008 22:48:04
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801090362MSD

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: 2801090362MSD

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	434769.3	95.9	%	0.09				0.09%
Yr	215443.0	95.2	%	0.90				0.94%
Alt	8935.0	2.02	mg/L	0.028	2.02	mg/L	0.028	1.41%
B_t	25628.8	0.831	mg/L	0.0067	0.831	mg/L	0.0067	0.81%
Bat	80834.8	1.08	mg/L	0.001	1.08	mg/L	0.001	0.05%
Bet	171905.1	0.0553	mg/L	0.00007	0.0553	mg/L	0.00007	0.13%
Cat	599498.8	87.3	mg/L	0.05	87.3	mg/L	0.05	0.06%
Cdt	6098.9	0.223	mg/L	0.0008	0.223	mg/L	0.0008	0.38%
Cot	22007.4	1.08	mg/L	0.001	1.08	mg/L	0.001	0.08%
Crt	85240.8	1.07	mg/L	0.002	1.07	mg/L	0.002	0.16%
Cut	414315.4	1.11	mg/L	0.001	1.11	mg/L	0.001	0.05%
Fet	4653.5	5.30	mg/L	0.084	5.30	mg/L	0.084	1.59%
Kt	40051.4	34.8	mg/L	0.01	34.8	mg/L	0.01	0.03%
Mgt	76598.0	29.8	mg/L	0.54	29.8	mg/L	0.54	1.81%
Mnt	343617.2	0.603	mg/L	0.0005	0.603	mg/L	0.0005	0.09%
Mot	14168.8	1.06	mg/L	0.007	1.06	mg/L	0.007	0.69%
Nat	467386.4	131	mg/L	0.4	131	mg/L	0.4	0.32%
Nit	12497.6	0.536	mg/L	0.0014	0.536	mg/L	0.0014	0.25%
Pbt	5570.9	1.07	mg/L	0.001	1.07	mg/L	0.001	0.07%
Vt	184360.1	1.07	mg/L	0.003	1.07	mg/L	0.003	0.24%
Znt	57921.8	1.14	mg/L	0.007	1.14	mg/L	0.007	0.59%

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

Autosampler Location: 4
Date Collected: 1/13/2008 22:55:30
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	435502.0	96.1	%	0.41				0.43%
Yr	214369.2	94.8	%	0.65				0.68%
Al†	21982.4	4.97	mg/L	0.051	4.97	mg/L	0.051	1.03%
QC value within limits for Al	Recovery = 99.35%							
B_†	79055.5	2.56	mg/L	0.009	2.56	mg/L	0.009	0.36%
QC value within limits for B_	Recovery = 102.43%							
Ba†	390470.7	5.20	mg/L	0.020	5.20	mg/L	0.020	0.38%
QC value within limits for Ba	Recovery = 104.06%							
Be†	6427024.7	2.07	mg/L	0.010	2.07	mg/L	0.010	0.49%
QC value within limits for Be	Recovery = 103.42%							
Ca†	337677.0	49.2	mg/L	0.14	49.2	mg/L	0.14	0.28%
QC value within limits for Ca	Recovery = 98.31%							
Cd†	57409.1	2.08	mg/L	0.006	2.08	mg/L	0.006	0.28%
QC value within limits for Cd	Recovery = 104.18%							
Co†	107287.2	5.28	mg/L	0.023	5.28	mg/L	0.023	0.43%
QC value within limits for Co	Recovery = 105.58%							
Cr†	417463.6	5.24	mg/L	0.024	5.24	mg/L	0.024	0.46%
QC value within limits for Cr	Recovery = 104.76%							
Cu†	1913733.3	5.11	mg/L	0.023	5.11	mg/L	0.023	0.44%
QC value within limits for Cu	Recovery = 102.28%							
Fe†	4270.3	4.86	mg/L	0.023	4.86	mg/L	0.023	0.47%
QC value within limits for Fe	Recovery = 97.23%							
K†	55029.8	47.8	mg/L	0.00	47.8	mg/L	0.00	0.00%
QC value within limits for K	Recovery = 95.50%							
Mg†	126914.0	49.4	mg/L	0.19	49.4	mg/L	0.19	0.39%
QC value within limits for Mg	Recovery = 98.71%							
Mn†	2954726.4	5.19	mg/L	0.004	5.19	mg/L	0.004	0.07%
QC value within limits for Mn	Recovery = 103.76%							
Mo†	68539.8	5.12	mg/L	0.023	5.12	mg/L	0.023	0.45%
QC value within limits for Mo	Recovery = 102.45%							
Na†	170713.0	47.7	mg/L	0.05	47.7	mg/L	0.05	0.11%
QC value within limits for Na	Recovery = 95.45%							
Ni†	122167.3	5.24	mg/L	0.025	5.24	mg/L	0.025	0.48%
QC value within limits for Ni	Recovery = 104.81%							
Pb†	27507.0	5.29	mg/L	0.015	5.29	mg/L	0.015	0.28%
QC value within limits for Pb	Recovery = 105.83%							
V†	879821.4	5.11	mg/L	0.011	5.11	mg/L	0.011	0.22%
QC value within limits for V	Recovery = 102.18%							
Zn†	268082.0	5.26	mg/L	0.019	5.26	mg/L	0.019	0.37%
QC value within limits for Zn	Recovery = 105.10%							

All analyte(s) passed QC.

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

Autosampler Location: 0
Date Collected: 1/13/2008 22:58:42
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	447762.2	98.8	%	0.83				0.84%
Yr	222732.7	98.5	%	0.57				0.58%
Al†	-2.8	-0.00063	mg/L	0.009713	-0.00063	mg/L	0.009713	>999.9%
QC value within limits for Al Recovery = Not calculated								
B_†	664.1	0.0216	mg/L	0.00032	0.0216	mg/L	0.00032	1.47%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-3.4	-0.00004	mg/L	0.000070	-0.00004	mg/L	0.000070	156.52%
QC value within limits for Ba Recovery = Not calculated								
Be†	233.4	0.00008	mg/L	0.000044	0.00008	mg/L	0.000044	57.91%
QC value within limits for Be Recovery = Not calculated								
Ca†	33.5	0.00488	mg/L	0.000433	0.00488	mg/L	0.000433	8.88%
QC value within limits for Ca Recovery = Not calculated								
Cd†	8.9	0.00032	mg/L	0.000040	0.00032	mg/L	0.000040	12.38%
QC value within limits for Cd Recovery = Not calculated								
Co†	2.1	0.00010	mg/L	0.000293	0.00010	mg/L	0.000293	283.99%
QC value within limits for Co Recovery = Not calculated								
Cr†	-3.9	-0.00005	mg/L	0.000022	-0.00005	mg/L	0.000022	45.16%
QC value within limits for Cr Recovery = Not calculated								
Cu†	-14.0	-0.00004	mg/L	0.000055	-0.00004	mg/L	0.000055	148.17%
QC value within limits for Cu Recovery = Not calculated								
Fe†	0.6	0.00065	mg/L	0.002954	0.00065	mg/L	0.002954	455.97%
QC value within limits for Fe Recovery = Not calculated								
K†	18.9	0.0164	mg/L	0.00932	0.0164	mg/L	0.00932	56.79%
QC value within limits for K Recovery = Not calculated								
Mg†	1.8	0.00071	mg/L	0.001272	0.00071	mg/L	0.001272	178.34%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-182.9	-0.00032	mg/L	0.000019	-0.00032	mg/L	0.000019	5.93%
QC value within limits for Mn Recovery = Not calculated								
Mo†	23.8	0.00178	mg/L	0.000424	0.00178	mg/L	0.000424	23.81%
QC value within limits for Mo Recovery = Not calculated								
Na†	169.0	0.0472	mg/L	0.01670	0.0472	mg/L	0.01670	35.36%
QC value within limits for Na Recovery = Not calculated								
Ni†	4.5	0.00019	mg/L	0.000026	0.00019	mg/L	0.000026	13.30%
QC value within limits for Ni Recovery = Not calculated								
Pb†	2.1	0.00040	mg/L	0.000968	0.00040	mg/L	0.000968	239.13%
QC value within limits for Pb Recovery = Not calculated								
V†	8.2	0.00005	mg/L	0.000024	0.00005	mg/L	0.000024	51.52%
QC value within limits for V Recovery = Not calculated								
Zn†	8.9	0.00017	mg/L	0.000005	0.00017	mg/L	0.000005	2.65%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Retry.

Sequence No.: 104
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/13/2008 23:01:16
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	454647.4	100	%	0.6				0.57%
Yr	224035.2	99.0	%	0.51				0.52%
Al†	-3.2	-0.00072	mg/L	0.008073	-0.00072	mg/L	0.008073	>999.9%
QC value within limits for Al	Recovery = Not calculated							
B_†	556.1	0.0181	mg/L	0.00006	0.0181	mg/L	0.00006	0.32%
QC value within limits for B_	Recovery = Not calculated							
Ba†	1.0	0.00001	mg/L	0.000062	0.00001	mg/L	0.000062	458.29%
QC value within limits for Ba	Recovery = Not calculated							
Be†	300.3	0.00010	mg/L	0.000011	0.00010	mg/L	0.000011	11.28%
QC value within limits for Be	Recovery = Not calculated							
Ca†	42.8	0.00622	mg/L	0.000600	0.00622	mg/L	0.000600	9.65%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	2.2	0.00008	mg/L	0.000115	0.00008	mg/L	0.000115	145.94%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-0.8	-0.00004	mg/L	0.000080	-0.00004	mg/L	0.000080	194.15%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-8.0	-0.00010	mg/L	0.000034	-0.00010	mg/L	0.000034	34.17%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-93.8	-0.00025	mg/L	0.000108	-0.00025	mg/L	0.000108	43.30%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	-2.0	-0.00226	mg/L	0.001582	-0.00226	mg/L	0.001582	69.99%
QC value within limits for Fe	Recovery = Not calculated							
K†	42.0	0.0365	mg/L	0.01310	0.0365	mg/L	0.01310	35.92%
QC value within limits for K	Recovery = Not calculated							
Mg†	-3.7	-0.00143	mg/L	0.001335	-0.00143	mg/L	0.001335	93.04%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-194.3	-0.00034	mg/L	0.000001	-0.00034	mg/L	0.000001	0.20%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	11.5	0.00086	mg/L	0.000111	0.00086	mg/L	0.000111	12.96%
QC value within limits for Mo	Recovery = Not calculated							
Na†	78.4	0.0219	mg/L	0.00503	0.0219	mg/L	0.00503	22.95%
QC value within limits for Na	Recovery = Not calculated							
Ni†	11.8	0.00050	mg/L	0.000321	0.00050	mg/L	0.000321	63.53%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	2.6	0.00049	mg/L	0.002009	0.00049	mg/L	0.002009	408.09%
QC value within limits for Pb	Recovery = Not calculated							
V†	-11.7	-0.00007	mg/L	0.000224	-0.00007	mg/L	0.000224	328.50%
QC value within limits for V	Recovery = Not calculated							
Zn†	5.9	0.00011	mg/L	0.000112	0.00011	mg/L	0.000112	98.79%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 115
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/13/2008 23:46:01
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCV

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	432042.1	95.3	%	0.03				0.03%
Yr	214413.4	94.8	%	1.23				1.30%
Al†	22289.5	5.04	mg/L	0.001	5.04	mg/L	0.001	0.02%
QC value within limits for Al		Recovery = 100.74%						
B_†	79799.4	2.58	mg/L	0.002	2.58	mg/L	0.002	0.08%
QC value within limits for B_		Recovery = 103.40%						
Ba†	391574.7	5.22	mg/L	0.011	5.22	mg/L	0.011	0.21%
QC value within limits for Ba		Recovery = 104.35%						
Be†	6498185.9	2.09	mg/L	0.006	2.09	mg/L	0.006	0.28%
QC value within limits for Be		Recovery = 104.56%						
Ca†	338199.6	49.2	mg/L	0.14	49.2	mg/L	0.14	0.28%
QC value within limits for Ca		Recovery = 98.47%						
Cd†	57541.7	2.09	mg/L	0.008	2.09	mg/L	0.008	0.39%
QC value within limits for Cd		Recovery = 104.41%						
Co†	106987.3	5.26	mg/L	0.005	5.26	mg/L	0.005	0.10%
QC value within limits for Co		Recovery = 105.28%						
Cr†	411806.8	5.17	mg/L	0.032	5.17	mg/L	0.032	0.61%
QC value within limits for Cr		Recovery = 103.34%						
Cu†	1924179.4	5.14	mg/L	0.000	5.14	mg/L	0.000	0.00%
QC value within limits for Cu		Recovery = 102.84%						
Fe†	4294.9	4.89	mg/L	0.010	4.89	mg/L	0.010	0.20%
QC value within limits for Fe		Recovery = 97.79%						
K†	55348.1	48.0	mg/L	0.34	48.0	mg/L	0.34	0.71%
QC value within limits for K		Recovery = 96.05%						
Mg†	127074.7	49.4	mg/L	0.17	49.4	mg/L	0.17	0.34%
QC value within limits for Mg		Recovery = 98.84%						
Mn†	2973821.8	5.22	mg/L	0.016	5.22	mg/L	0.016	0.30%
QC value within limits for Mn		Recovery = 104.43%						
Mo†	68689.4	5.13	mg/L	0.015	5.13	mg/L	0.015	0.29%
QC value within limits for Mo		Recovery = 102.67%						
Na†	173658.3	48.5	mg/L	0.18	48.5	mg/L	0.18	0.37%
QC value within limits for Na		Recovery = 97.10%						
Ni†	122659.5	5.26	mg/L	0.001	5.26	mg/L	0.001	0.02%
QC value within limits for Ni		Recovery = 105.24%						
Pb†	27582.9	5.31	mg/L	0.028	5.31	mg/L	0.028	0.52%
QC value within limits for Pb		Recovery = 106.13%						
V†	883215.6	5.13	mg/L	0.032	5.13	mg/L	0.032	0.62%
QC value within limits for V		Recovery = 102.56%						
Zn†	268928.7	5.27	mg/L	0.011	5.27	mg/L	0.011	0.21%
QC value within limits for Zn		Recovery = 105.43%						

All analyte(s) passed QC.

Sequence No.: 116
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/13/2008 23:49:14
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	454444.6	100	%	0.6				0.55%
Yr	223503.6	98.8	%	0.06				0.06%
Al†	6.5	0.00148	mg/L	0.000562	0.00148	mg/L	0.000562	38.02%
QC value within limits for Al Recovery = Not calculated								
B_†	1030.9	0.0335	mg/L	0.00090	0.0335	mg/L	0.00090	2.69%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-0.3	0.00000	mg/L	0.000057	0.00000	mg/L	0.000057	>999.9%
QC value within limits for Ba Recovery = Not calculated								
Be†	252.4	0.00008	mg/L	0.000005	0.00008	mg/L	0.000005	6.46%
QC value within limits for Be Recovery = Not calculated								
Ca†	31.5	0.00459	mg/L	0.000482	0.00459	mg/L	0.000482	10.51%
QC value within limits for Ca Recovery = Not calculated								
Cd†	5.9	0.00021	mg/L	0.000029	0.00021	mg/L	0.000029	13.81%
QC value within limits for Cd Recovery = Not calculated								
Co†	2.3	0.00011	mg/L	0.000125	0.00011	mg/L	0.000125	109.08%
QC value within limits for Co Recovery = Not calculated								
Cr†	10.1	0.00013	mg/L	0.000068	0.00013	mg/L	0.000068	53.64%
QC value within limits for Cr Recovery = Not calculated								
Cu†	-32.2	-0.00009	mg/L	0.000039	-0.00009	mg/L	0.000039	45.43%
QC value within limits for Cu Recovery = Not calculated								
Fe†	2.5	0.00279	mg/L	0.000233	0.00279	mg/L	0.000233	8.33%
QC value within limits for Fe Recovery = Not calculated								
K†	49.5	0.0430	mg/L	0.04568	0.0430	mg/L	0.04568	106.28%
QC value within limits for K Recovery = Not calculated								
Mg†	-0.7	-0.00028	mg/L	0.000506	-0.00028	mg/L	0.000506	182.16%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-211.0	-0.00037	mg/L	0.000001	-0.00037	mg/L	0.000001	0.40%
QC value within limits for Mn Recovery = Not calculated								
Mo†	25.6	0.00191	mg/L	0.000357	0.00191	mg/L	0.000357	18.64%
QC value within limits for Mo Recovery = Not calculated								
Na†	951.3	0.266	mg/L	0.0148	0.266	mg/L	0.0148	5.58%
QC value within limits for Na Recovery = Not calculated								
Ni†	4.6	0.00020	mg/L	0.000076	0.00020	mg/L	0.000076	38.39%
QC value within limits for Ni Recovery = Not calculated								
Pb†	-3.6	-0.00068	mg/L	0.000370	-0.00068	mg/L	0.000370	54.11%
QC value within limits for Pb Recovery = Not calculated								
V†	-6.4	-0.00004	mg/L	0.000043	-0.00004	mg/L	0.000043	118.57%
QC value within limits for V Recovery = Not calculated								
Zn†	4.4	0.00009	mg/L	0.000038	0.00009	mg/L	0.000038	43.82%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Retry.

Sequence No.: 117
Sample ID: CCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/13/2008 23:51:48
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	452594.7	99.9	%	0.95				0.95%
Yr	223519.5	98.8	%	0.36				0.36%
Al†	-2.4	-0.00054	mg/L	0.010340	-0.00054	mg/L	0.010340	>999.9%
QC value within limits for Al Recovery = Not calculated								
B_†	900.4	0.0293	mg/L	0.00004	0.0293	mg/L	0.00004	0.12%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-0.6	-0.00001	mg/L	0.000015	-0.00001	mg/L	0.000015	188.76%
QC value within limits for Ba Recovery = Not calculated								
Be†	205.3	0.00007	mg/L	0.000003	0.00007	mg/L	0.000003	5.06%
QC value within limits for Be Recovery = Not calculated								
Ca†	34.1	0.00497	mg/L	0.000610	0.00497	mg/L	0.000610	12.29%
QC value within limits for Ca Recovery = Not calculated								
Cd†	5.1	0.00018	mg/L	0.000044	0.00018	mg/L	0.000044	24.11%
QC value within limits for Cd Recovery = Not calculated								
Co†	-0.8	-0.00004	mg/L	0.000003	-0.00004	mg/L	0.000003	6.66%
QC value within limits for Co Recovery = Not calculated								
Cr†	-2.4	-0.00003	mg/L	0.000000	-0.00003	mg/L	0.000000	1.35%
QC value within limits for Cr Recovery = Not calculated								
Cu†	-95.1	-0.00025	mg/L	0.000328	-0.00025	mg/L	0.000328	129.22%
QC value within limits for Cu Recovery = Not calculated								
Fe†	1.5	0.00168	mg/L	0.000293	0.00168	mg/L	0.000293	17.42%
QC value within limits for Fe Recovery = Not calculated								
K†	29.3	0.0254	mg/L	0.06972	0.0254	mg/L	0.06972	274.09%
QC value within limits for K Recovery = Not calculated								
Mg†	3.7	0.00145	mg/L	0.000236	0.00145	mg/L	0.000236	16.26%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-223.0	-0.00039	mg/L	0.000005	-0.00039	mg/L	0.000005	1.31%
QC value within limits for Mn Recovery = Not calculated								
Mo†	14.8	0.00110	mg/L	0.000206	0.00110	mg/L	0.000206	18.67%
QC value within limits for Mo Recovery = Not calculated								
Na†	751.1	0.210	mg/L	0.0001	0.210	mg/L	0.0001	0.07%
QC value within limits for Na Recovery = Not calculated								
Ni†	0.7	0.00003	mg/L	0.000177	0.00003	mg/L	0.000177	565.41%
QC value within limits for Ni Recovery = Not calculated								
Pb†	-0.4	-0.00009	mg/L	0.000730	-0.00009	mg/L	0.000730	849.82%
QC value within limits for Pb Recovery = Not calculated								
V†	-8.5	-0.00005	mg/L	0.000045	-0.00005	mg/L	0.000045	92.42%
QC value within limits for V Recovery = Not calculated								
Zn†	0.6	0.00001	mg/L	0.000041	0.00001	mg/L	0.000041	374.11%
QC value within limits for Zn Recovery = Not calculated								
QC Failed. Retry.								

Sequence No.: 118 **Autosampler Location: 0**
Sample ID: CCB **Date Collected: 1/13/2008 23:54:21**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Nebulizer Parameters: CCB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: CCB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	454650.6	100	%	0.1				0.09%
Yr	223132.0	98.6	%	1.21				1.22%
Al†	7.5	0.00170	mg/L	0.002104	0.00170	mg/L	0.002104	123.96%
QC value within limits for Al Recovery = Not calculated								
B_†	811.4	0.0264	mg/L	0.00016	0.0264	mg/L	0.00016	0.62%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-8.3	-0.00011	mg/L	0.000085	-0.00011	mg/L	0.000085	77.18%
QC value within limits for Ba Recovery = Not calculated								
Be†	179.3	0.00006	mg/L	0.000016	0.00006	mg/L	0.000016	28.50%
QC value within limits for Be Recovery = Not calculated								
Ca†	36.0	0.00523	mg/L	0.000202	0.00523	mg/L	0.000202	3.87%

QC value within limits for Ca Recovery = Not calculated
Cdt 2.0 0.00007 mg/L 0.000071 0.00007 mg/L 0.000071 96.86%
QC value within limits for Cd Recovery = Not calculated
Cot 0.3 0.00001 mg/L 0.000066 0.00001 mg/L 0.000066 465.45%
QC value within limits for Co Recovery = Not calculated
Crt -4.7 -0.00006 mg/L 0.000100 -0.00006 mg/L 0.000100 170.48%
QC value within limits for Cr Recovery = Not calculated
Cut -69.7 -0.00019 mg/L 0.000050 -0.00019 mg/L 0.000050 26.86%
QC value within limits for Cu Recovery = Not calculated
Fet 1.1 0.00127 mg/L 0.000563 0.00127 mg/L 0.000563 44.25%
QC value within limits for Fe Recovery = Not calculated
Kt -6.2 -0.00535 mg/L 0.009454 -0.00535 mg/L 0.009454 176.55%
QC value within limits for K Recovery = Not calculated
Mgt 0.0 0.00000 mg/L 0.000319 0.00000 mg/L 0.000319 >999.9%
QC value within limits for Mg Recovery = Not calculated
Mnt -221.2 -0.00039 mg/L 0.000000 -0.00039 mg/L 0.000000 0.11%
QC value within limits for Mn Recovery = Not calculated
Mot 6.0 0.00045 mg/L 0.000210 0.00045 mg/L 0.000210 47.15%
QC value within limits for Mo Recovery = Not calculated
Nat 538.9 0.151 mg/L 0.0095 0.151 mg/L 0.0095 6.29%
QC value within limits for Na Recovery = Not calculated
Nit 1.1 0.00005 mg/L 0.000149 0.00005 mg/L 0.000149 310.43%
QC value within limits for Ni Recovery = Not calculated
Pbt -1.2 -0.00023 mg/L 0.000795 -0.00023 mg/L 0.000795 344.81%
QC value within limits for Pb Recovery = Not calculated
Vt -5.4 -0.00003 mg/L 0.000084 -0.00003 mg/L 0.000084 264.56%
QC value within limits for V Recovery = Not calculated
Znt -1.3 -0.00003 mg/L 0.000026 -0.00003 mg/L 0.000026 99.03%
QC value within limits for Zn Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 119
Sample ID: MCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 1/13/2008 23:57:44
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: MCV

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: MCV

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	434677.1	95.9	%	0.06				0.06%
Yr	215114.6	95.1	%	0.37				0.39%
Alt	11108.8	2.51	mg/L	0.004	2.51	mg/L	0.004	0.15%
QC value within limits for Al		Recovery = 100.42%						
B_†	40637.5	1.32	mg/L	0.008	1.32	mg/L	0.008	0.64%
QC value within limits for B_		Recovery = 105.31%						
Bat	199318.6	2.66	mg/L	0.002	2.66	mg/L	0.002	0.09%
QC value within limits for Ba		Recovery = 106.23%						
Bet	3308480.6	1.06	mg/L	0.001	1.06	mg/L	0.001	0.10%
QC value within limits for Be		Recovery = 106.47%						
Cat	170908.6	24.9	mg/L	0.01	24.9	mg/L	0.01	0.04%
QC value within limits for Ca		Recovery = 99.52%						
Cdt	29148.4	1.06	mg/L	0.006	1.06	mg/L	0.006	0.61%
QC value within limits for Cd		Recovery = 105.79%						
Cot	54819.7	2.70	mg/L	0.003	2.70	mg/L	0.003	0.11%
QC value within limits for Co		Recovery = 107.89%						
Crt	210666.1	2.64	mg/L	0.011	2.64	mg/L	0.011	0.40%
QC value within limits for Cr		Recovery = 105.73%						
Cut	980342.9	2.62	mg/L	0.005	2.62	mg/L	0.005	0.21%
QC value within limits for Cu		Recovery = 104.79%						
Fet	2171.3	2.47	mg/L	0.008	2.47	mg/L	0.008	0.33%
QC value within limits for Fe		Recovery = 98.87%						
Kt	27274.7	23.7	mg/L	0.14	23.7	mg/L	0.14	0.58%
QC value within limits for K		Recovery = 94.67%						
Mgt	64678.8	25.2	mg/L	0.01	25.2	mg/L	0.01	0.02%
QC value within limits for Mg		Recovery = 100.62%						
Mnt	1534140.9	2.69	mg/L	0.001	2.69	mg/L	0.001	0.03%
QC value within limits for Mn		Recovery = 107.75%						
Mot	35078.5	2.62	mg/L	0.004	2.62	mg/L	0.004	0.17%
QC value within limits for Mo		Recovery = 104.86%						
Nat	86077.4	24.1	mg/L	0.02	24.1	mg/L	0.02	0.06%
QC value within limits for Na		Recovery = 96.26%						
Nit	63396.5	2.72	mg/L	0.006	2.72	mg/L	0.006	0.23%
QC value within limits for Ni		Recovery = 108.78%						
Pbt	14215.7	2.73	mg/L	0.019	2.73	mg/L	0.019	0.70%
QC value within limits for Pb		Recovery = 109.39%						
Vt	448328.1	2.60	mg/L	0.006	2.60	mg/L	0.006	0.24%
QC value within limits for V		Recovery = 104.13%						
Znt	138259.5	2.71	mg/L	0.008	2.71	mg/L	0.008	0.31%
QC value within limits for Zn		Recovery = 108.41%						

All analyte(s) passed QC.

Sequence No.: 124
Sample ID: 2801080538_2X
Analyst:
Initial Sample Wt:
Dilution: 2X

Autosampler Location: 117
Date Collected: 1/14/2008 00:18:54
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: 2801080538_2X

Analyte	Back Pressure	Flow
All	208.0 kPa	0.65 L/min

Mean Data: 2801080538_2X

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
Sca	389693.9	86.0	%	0.10				0.12%
Yr	205517.2	90.9	%	0.70				0.77%
Alt	69.5	0.0157	mg/L	0.00076	0.0314	mg/L	0.00152	4.83%
B_t	59322.2	1.93	mg/L	0.013	3.86	mg/L	0.025	0.65%
Bat	943.3	0.0126	mg/L	0.00001	0.0251	mg/L	0.00001	0.04%
Bet	-1030.1	-0.00033	mg/L	0.000003	-0.00066	mg/L	0.000006	0.85%
Cat	1425358.0	207	mg/L	0.5	415	mg/L	1.0	0.24%
Cdt	-17.3	-0.00059	mg/L	0.000231	-0.00119	mg/L	0.000462	38.85%
Cot	145.5	0.00716	mg/L	0.000164	0.0143	mg/L	0.00033	2.29%
Crt	1404.0	0.0176	mg/L	0.00005	0.0352	mg/L	0.00011	0.30%
Cut	957.8	0.00256	mg/L	0.000075	0.00513	mg/L	0.000151	2.94%
Fet	1423.3	1.62	mg/L	0.011	3.24	mg/L	0.023	0.70%
Kt	17671.9	15.3	mg/L	0.01	30.7	mg/L	0.02	0.08%
Mgt	253203.8	98.5	mg/L	0.33	197	mg/L	0.7	0.34%
Mnt	298901.5	0.525	mg/L	0.0015	1.05	mg/L	0.003	0.29%
Mot	1682.5	0.126	mg/L	0.0002	0.251	mg/L	0.0004	0.16%
Nat	2516194.4	703	mg/L	3.9	1410	mg/L	7.8	0.56%
Nit	568.8	0.0244	mg/L	0.00003	0.0488	mg/L	0.00006	0.13%
Pbt	-41.9	-0.00805	mg/L	0.000102	-0.0161	mg/L	0.00020	1.27%
Vt	3005.6	0.0175	mg/L	0.00009	0.0349	mg/L	0.00017	0.50%
Znt	772.4	0.0151	mg/L	0.00003	0.0302	mg/L	0.00006	0.19%

Sequence No.: 126
Sample ID: Wash
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/14/2008 00:27:38
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: Wash

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: Wash

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	454021.8	100	%	0.6				0.56%
Yr	224155.4	99.1	%	1.15				1.16%
Al†	-15.1	-0.00341	mg/L	0.006766	-0.00341	mg/L	0.006766	198.47%
QC value within limits for Al	Recovery = Not calculated							
B_†	955.7	0.0311	mg/L	0.00057	0.0311	mg/L	0.00057	1.84%
QC value within limits for B_	Recovery = Not calculated							
Ba†	-1.3	-0.00002	mg/L	0.000076	-0.00002	mg/L	0.000076	448.38%
QC value within limits for Ba	Recovery = Not calculated							
Be†	130.3	0.00004	mg/L	0.000034	0.00004	mg/L	0.000034	81.19%
QC value within limits for Be	Recovery = Not calculated							
Ca†	34.9	0.00508	mg/L	0.001680	0.00508	mg/L	0.001680	33.05%
QC value within limits for Ca	Recovery = Not calculated							
Cd†	-2.1	-0.00008	mg/L	0.000215	-0.00008	mg/L	0.000215	278.78%
QC value within limits for Cd	Recovery = Not calculated							
Co†	-3.4	-0.00017	mg/L	0.000164	-0.00017	mg/L	0.000164	98.46%
QC value within limits for Co	Recovery = Not calculated							
Cr†	-2.6	-0.00003	mg/L	0.000180	-0.00003	mg/L	0.000180	542.86%
QC value within limits for Cr	Recovery = Not calculated							
Cu†	-54.4	-0.00015	mg/L	0.000106	-0.00015	mg/L	0.000106	73.10%
QC value within limits for Cu	Recovery = Not calculated							
Fe†	1.3	0.00142	mg/L	0.004212	0.00142	mg/L	0.004212	295.78%
QC value within limits for Fe	Recovery = Not calculated							
K†	1.9	0.00166	mg/L	0.008682	0.00166	mg/L	0.008682	521.48%
QC value within limits for K	Recovery = Not calculated							
Mg†	0.5	0.00018	mg/L	0.000626	0.00018	mg/L	0.000626	354.34%
QC value within limits for Mg	Recovery = Not calculated							
Mn†	-224.3	-0.00039	mg/L	0.000011	-0.00039	mg/L	0.000011	2.78%
QC value within limits for Mn	Recovery = Not calculated							
Mo†	-1.4	-0.00011	mg/L	0.000005	-0.00011	mg/L	0.000005	4.77%
QC value within limits for Mo	Recovery = Not calculated							
Na†	1376.9	0.385	mg/L	0.0059	0.385	mg/L	0.0059	1.53%
QC value within limits for Na	Recovery = Not calculated							
Ni†	7.9	0.00034	mg/L	0.000280	0.00034	mg/L	0.000280	82.58%
QC value within limits for Ni	Recovery = Not calculated							
Pb†	-7.2	-0.00138	mg/L	0.000027	-0.00138	mg/L	0.000027	1.97%
QC value within limits for Pb	Recovery = Not calculated							
V†	-37.1	-0.00021	mg/L	0.000122	-0.00021	mg/L	0.000122	56.78%
QC value within limits for V	Recovery = Not calculated							
Zn†	-3.0	-0.00006	mg/L	0.000072	-0.00006	mg/L	0.000072	118.10%
QC value within limits for Zn	Recovery = Not calculated							

All analyte(s) passed QC.

Sequence No.: 127
Sample ID: ECV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 1/14/2008 00:31:02
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ECV

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: ECV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Sca	433877.3	95.7	%	0.40				0.42%
Yr	213669.5	94.5	%	0.07				0.08%
Al†	22275.9	5.03	mg/L	0.032	5.03	mg/L	0.032	0.64%
QC value within limits for Al		Recovery = 100.68%						
B_†	79316.8	2.57	mg/L	0.011	2.57	mg/L	0.011	0.43%
QC value within limits for B_		Recovery = 102.77%						
Ba†	390076.4	5.20	mg/L	0.014	5.20	mg/L	0.014	0.26%
QC value within limits for Ba		Recovery = 103.95%						
Be†	6451072.6	2.08	mg/L	0.007	2.08	mg/L	0.007	0.33%
QC value within limits for Be		Recovery = 103.81%						
Ca†	339176.2	49.4	mg/L	0.08	49.4	mg/L	0.08	0.17%
QC value within limits for Ca		Recovery = 98.75%						
Cd†	57436.9	2.08	mg/L	0.003	2.08	mg/L	0.003	0.15%
QC value within limits for Cd		Recovery = 104.22%						
Co†	106882.8	5.26	mg/L	0.006	5.26	mg/L	0.006	0.12%
QC value within limits for Co		Recovery = 105.18%						
Cr†	417954.3	5.24	mg/L	0.024	5.24	mg/L	0.024	0.46%
QC value within limits for Cr		Recovery = 104.88%						
Cu†	1931534.6	5.16	mg/L	0.026	5.16	mg/L	0.026	0.51%
QC value within limits for Cu		Recovery = 103.23%						
Fe†	4305.6	4.90	mg/L	0.007	4.90	mg/L	0.007	0.14%
QC value within limits for Fe		Recovery = 98.03%						
K†	55988.7	48.6	mg/L	0.35	48.6	mg/L	0.35	0.72%
QC value within limits for K		Recovery = 97.17%						
Mg†	127662.3	49.6	mg/L	0.05	49.6	mg/L	0.05	0.10%
QC value within limits for Mg		Recovery = 99.30%						
Mn†	2987363.6	5.25	mg/L	0.018	5.25	mg/L	0.018	0.34%
QC value within limits for Mn		Recovery = 104.91%						
Mo†	68446.6	5.12	mg/L	0.015	5.12	mg/L	0.015	0.29%
QC value within limits for Mo		Recovery = 102.31%						
Na†	174033.4	48.7	mg/L	0.31	48.7	mg/L	0.31	0.63%
QC value within limits for Na		Recovery = 97.31%						
Ni†	122249.7	5.24	mg/L	0.024	5.24	mg/L	0.024	0.47%
QC value within limits for Ni		Recovery = 104.89%						
Pb†	27409.4	5.27	mg/L	0.027	5.27	mg/L	0.027	0.52%
QC value within limits for Pb		Recovery = 105.46%						
V†	886701.4	5.15	mg/L	0.028	5.15	mg/L	0.028	0.54%
QC value within limits for V		Recovery = 102.97%						
Zn†	268263.9	5.26	mg/L	0.015	5.26	mg/L	0.015	0.28%
QC value within limits for Zn		Recovery = 105.17%						

All analyte(s) passed QC.

Sequence No.: 128
Sample ID: ECB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/14/2008 00:34:14
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ECB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: ECB

Analyte	Mean Corrected Intensity	Conc.	Calib Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Sca	452282.0	99.8	%	0.40				0.40%
Yr	222211.1	98.2	%	0.98				1.00%
Alt	-29.4	-0.00664	mg/L	0.005058	-0.00664	mg/L	0.005058	76.22%
QC value within limits for Al	Recovery = Not calculated							
B_t	999.4	0.0325	mg/L	0.00056	0.0325	mg/L	0.00056	1.71%
QC value greater than the upper limit for B_	Recovery = Not calculated							
Bat	-5.3	-0.00007	mg/L	0.000030	-0.00007	mg/L	0.000030	42.75%
QC value within limits for Ba	Recovery = Not calculated							
Bet	219.3	0.00007	mg/L	0.000031	0.00007	mg/L	0.000031	44.44%
QC value within limits for Be	Recovery = Not calculated							
Cat	40.0	0.00583	mg/L	0.000839	0.00583	mg/L	0.000839	14.41%
QC value within limits for Ca	Recovery = Not calculated							
Cdt	5.9	0.00021	mg/L	0.000027	0.00021	mg/L	0.000027	12.92%
QC value within limits for Cd	Recovery = Not calculated							
Cot	-6.9	-0.00034	mg/L	0.000041	-0.00034	mg/L	0.000041	12.24%
QC value within limits for Co	Recovery = Not calculated							
Crt	-8.5	-0.00011	mg/L	0.000105	-0.00011	mg/L	0.000105	98.44%
QC value within limits for Cr	Recovery = Not calculated							
Cut	-86.7	-0.00023	mg/L	0.000098	-0.00023	mg/L	0.000098	42.10%
QC value within limits for Cu	Recovery = Not calculated							
Fet	0.9	0.00099	mg/L	0.002634	0.00099	mg/L	0.002634	266.95%
QC value within limits for Fe	Recovery = Not calculated							
Kt	9.0	0.00780	mg/L	0.019164	0.00780	mg/L	0.019164	245.82%
QC value within limits for K	Recovery = Not calculated							
Mgt	-1.5	-0.00059	mg/L	0.000519	-0.00059	mg/L	0.000519	87.57%
QC value within limits for Mg	Recovery = Not calculated							
Mnt	-205.2	-0.00036	mg/L	0.000003	-0.00036	mg/L	0.000003	0.71%
QC value within limits for Mn	Recovery = Not calculated							
Mot	22.6	0.00169	mg/L	0.000203	0.00169	mg/L	0.000203	11.99%
QC value within limits for Mo	Recovery = Not calculated							
Nat	559.4	0.156	mg/L	0.0041	0.156	mg/L	0.0041	2.59%
QC value within limits for Na	Recovery = Not calculated							
Nit	9.4	0.00040	mg/L	0.000120	0.00040	mg/L	0.000120	29.86%
QC value within limits for Ni	Recovery = Not calculated							
Pbt	-2.6	-0.00050	mg/L	0.000027	-0.00050	mg/L	0.000027	5.33%
QC value within limits for Pb	Recovery = Not calculated							
Vt	-8.5	-0.00005	mg/L	0.000051	-0.00005	mg/L	0.000051	101.65%
QC value within limits for V	Recovery = Not calculated							
Znt	8.6	0.00017	mg/L	0.000071	0.00017	mg/L	0.000071	42.21%
QC value within limits for Zn	Recovery = Not calculated							

QC Failed. Retry.

Sequence No.: 129
Sample ID: ECB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/14/2008 00:36:48
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ECB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: ECB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	451052.7	99.5	%	1.03				1.03%
Yr	224525.2	99.3	%	0.85				0.86%
Al†	-13.9	-0.00314	mg/L	0.002749	-0.00314	mg/L	0.002749	87.51%
QC value within limits for Al Recovery = Not calculated								
B_†	883.4	0.0287	mg/L	0.00012	0.0287	mg/L	0.00012	0.43%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-0.5	-0.00001	mg/L	0.000048	-0.00001	mg/L	0.000048	751.30%
QC value within limits for Ba Recovery = Not calculated								
Be†	157.8	0.00005	mg/L	0.000006	0.00005	mg/L	0.000006	12.62%
QC value within limits for Be Recovery = Not calculated								
Ca†	21.7	0.00316	mg/L	0.000437	0.00316	mg/L	0.000437	13.83%
QC value within limits for Ca Recovery = Not calculated								
Cd†	7.3	0.00026	mg/L	0.000174	0.00026	mg/L	0.000174	66.59%
QC value within limits for Cd Recovery = Not calculated								
Co†	-1.8	-0.00009	mg/L	0.000042	-0.00009	mg/L	0.000042	46.36%
QC value within limits for Co Recovery = Not calculated								
Cr†	-3.1	-0.00004	mg/L	0.000023	-0.00004	mg/L	0.000023	59.51%
QC value within limits for Cr Recovery = Not calculated								
Cu†	-112.5	-0.00030	mg/L	0.000101	-0.00030	mg/L	0.000101	33.71%
QC value within limits for Cu Recovery = Not calculated								
Fe†	2.0	0.00227	mg/L	0.001456	0.00227	mg/L	0.001456	64.10%
QC value within limits for Fe Recovery = Not calculated								
K†	-4.0	-0.00343	mg/L	0.040801	-0.00343	mg/L	0.040801	>999.9%
QC value within limits for K Recovery = Not calculated								
Mg†	0.5	0.00018	mg/L	0.000901	0.00018	mg/L	0.000901	509.21%
QC value within limits for Mg Recovery = Not calculated								
Mn†	-204.4	-0.00036	mg/L	0.000024	-0.00036	mg/L	0.000024	6.80%
QC value within limits for Mn Recovery = Not calculated								
Mo†	12.2	0.00091	mg/L	0.000200	0.00091	mg/L	0.000200	21.92%
QC value within limits for Mo Recovery = Not calculated								
Na†	505.9	0.141	mg/L	0.0010	0.141	mg/L	0.0010	0.71%
QC value within limits for Na Recovery = Not calculated								
Ni†	8.0	0.00035	mg/L	0.000056	0.00035	mg/L	0.000056	16.29%
QC value within limits for Ni Recovery = Not calculated								
Pb†	-1.5	-0.00029	mg/L	0.000142	-0.00029	mg/L	0.000142	49.52%
QC value within limits for Pb Recovery = Not calculated								
V†	41.3	0.00024	mg/L	0.000034	0.00024	mg/L	0.000034	14.41%
QC value within limits for V Recovery = Not calculated								
Zn†	5.5	0.00011	mg/L	0.000039	0.00011	mg/L	0.000039	36.73%
QC value within limits for Zn Recovery = Not calculated								

QC Failed. Retry.

Sequence No.: 130
Sample ID: ECB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 1/14/2008 00:39:21
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Nebulizer Parameters: ECB

Analyte	Back Pressure	Flow
All	209.0 kPa	0.65 L/min

Mean Data: ECB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Sca	454358.6	100	%	0.8				0.80%
Yr	223586.2	98.8	%	0.39				0.40%
Al†	-0.5	-0.00012	mg/L	0.006203	-0.00012	mg/L	0.006203	>999.9%
QC value within limits for Al Recovery = Not calculated								
B_†	803.1	0.0261	mg/L	0.00035	0.0261	mg/L	0.00035	1.33%
QC value greater than the upper limit for B_ Recovery = Not calculated								
Ba†	-4.4	-0.00006	mg/L	0.000052	-0.00006	mg/L	0.000052	89.03%
QC value within limits for Ba Recovery = Not calculated								
Be†	178.2	0.00006	mg/L	0.000011	0.00006	mg/L	0.000011	19.56%
QC value within limits for Be Recovery = Not calculated								
Ca†	35.0	0.00510	mg/L	0.000043	0.00510	mg/L	0.000043	0.84%

QC value within limits for Ca Recovery = Not calculated

Cd†	1.9	0.00007 mg/L	0.000004	0.00007 mg/L	0.000004	5.42%

QC value within limits for Cd Recovery = Not calculated

Co†	-0.2	-0.00001 mg/L	0.000101	-0.00001 mg/L	0.000101	863.19%

QC value within limits for Co Recovery = Not calculated

Cr†	-0.1	0.00000 mg/L	0.000063	0.00000 mg/L	0.000063	>999.9%

QC value within limits for Cr Recovery = Not calculated

Cu†	-73.5	-0.00020 mg/L	0.000082	-0.00020 mg/L	0.000082	41.67%

QC value within limits for Cu Recovery = Not calculated

Fe†	-0.2	-0.00023 mg/L	0.000441	-0.00023 mg/L	0.000441	189.67%

QC value within limits for Fe Recovery = Not calculated

K†	52.3	0.0454 mg/L	0.04782	0.0454 mg/L	0.04782	105.30%

QC value within limits for K Recovery = Not calculated

Mg†	-1.9	-0.00075 mg/L	0.000628	-0.00075 mg/L	0.000628	84.20%

QC value within limits for Mg Recovery = Not calculated

Mn†	-219.6	-0.00039 mg/L	0.000003	-0.00039 mg/L	0.000003	0.73%

QC value within limits for Mn Recovery = Not calculated

Mo†	7.6	0.00057 mg/L	0.000491	0.00057 mg/L	0.000491	85.89%

QC value within limits for Mo Recovery = Not calculated

Na†	415.9	0.116 mg/L	0.0184	0.116 mg/L	0.0184	15.85%

QC value within limits for Na Recovery = Not calculated

Ni†	4.5	0.00019 mg/L	0.000272	0.00019 mg/L	0.000272	139.99%

QC value within limits for Ni Recovery = Not calculated

Pb†	-6.2	-0.00120 mg/L	0.000612	-0.00120 mg/L	0.000612	50.92%

QC value within limits for Pb Recovery = Not calculated

V†	-16.7	-0.00010 mg/L	0.000011	-0.00010 mg/L	0.000011	11.05%

QC value within limits for V Recovery = Not calculated

Zn†	0.6	0.00001 mg/L	0.000031	0.00001 mg/L	0.000031	299.33%

QC value within limits for Zn Recovery = Not calculated

QC Failed. Continue with analysis.

Analytical Sequence
Method: 200.7&6010_070703

Seq.	Loc.	ID	Status
1	0	Calib Blank 1	Applied
2	15	Standard 2	Applied
3	15	ICV	QC Passed
4	9	LINEARITY	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 Failed
13	0	ICB	QC Failed
14	0	ICB	QC Passed
15	20	MRL	QC Passed
16	16	MRL/2	Analyzed
17	17	MRL/5	Analyzed
18	18	FILTERCHECK	Analyzed
19	38	MBLANK	Analyzed
20	39	LCS	Analyzed
21	40	LCSD	Analyzed
22	41	2801090364	Analyzed
23	42	2801090364MS	Analyzed
24	43	2801090364MSD	Analyzed
25	44	2801090392	Analyzed
26	4	CCV	QC Passed
27	0	CCB	QC Passed
28	45	2801090455	Analyzed
29	46	2801090696	Analyzed
30	47	2801090697	Analyzed
31	48	D801090647	Analyzed
32	49	D801090648	Analyzed
33	50	D801090649	Analyzed
34	51	D801090650	Analyzed
35	52	D801080327	Analyzed
36	53	2801100328 325	Analyzed
37	54	2801100328MS	Analyzed
38	4	CCV 325	QC Passed
39	0	CCB	QC Passed
40	5	MCV 325	QC Passed
41	55	2801100328MSD	Analyzed
42	56	D801080328	Analyzed
43	57	D801080386	Analyzed
44	58	D801080387	Analyzed
45	59	D801090449	Analyzed
46	60	D801090450	Analyzed
47	61	D801090721	Analyzed
48	62	2801100394	Analyzed
49	63	2801100465	Analyzed
50	64	2801100456	Analyzed
51	4	CCV	QC Passed
52	0	CCB	QC Passed
53	65	MBLANK	Analyzed
54	21	MRL	Analyzed
55	66	LCS	Analyzed
56	67	LCSD	Analyzed
57	68	2801100438	Analyzed
58	69	2801100438MS	Analyzed
59	70	2801100438MSD	Analyzed
60	71	2801100440	Analyzed
61	72	2801100526	Analyzed
62	73	2801100530	Analyzed
63	4	CCV	QC Passed
64	0	CCB	QC Passed
65	5	MCV	QC Passed
66	74	2801100536	Analyzed
67	75	2801100538	Analyzed
68	76	2801100539	Analyzed

69	77	2801100541	Analyzed
70	78	2801100542	Analyzed
71	79	2801100543	Analyzed
72	80	2801100156	Analyzed
73	81	2801100156MS	Analyzed
74	82	2801100156MSD	Analyzed
75	83	2801100179	Analyzed
76	4	CCV	QC Passed
77	0	CCB	QC Passed
78	84	2801100180	Analyzed
79	85	2801100460	Analyzed
80	86	2801100405	Analyzed
81	87	2801100425	Analyzed
82	88	2801100429	Analyzed
83	89	2801100258	Analyzed
84	90	2801100260	Analyzed
85	91	2801100261	Analyzed
86	92	MBLANK	Analyzed
87	22	MRL	Analyzed
88	4	CCV	QC Passed
89	0	CCB	QC Failed
90	0	CCB	QC Passed
91	5	MCV	QC Passed
92	93	MRL2007	Analyzed
93	94	LCS2007	Analyzed
94	95	LCSD2007	Analyzed
95	96	2801080327	Analyzed
96	97	2801080327MS	Analyzed
97	98	2801080327MSD	Analyzed
98	99	2801090362	Analyzed
99	100	2801090362MS	Analyzed
100	101	2801090362MSD	Analyzed
101	102	2801030472	Analyzed
102	4	CCV	QC Passed
103	0	CCB	QC Failed
104	0	CCB	QC Passed
105	103	2801040191	Analyzed
106	104	2801080328	Analyzed
107	105	2801080382	Analyzed
108	106	2801080386	Analyzed
109	107	2801090356	Analyzed
110	108	2801090449	Analyzed
111	109	2801090450	Analyzed
112	110	2801100002	Analyzed
113	111	2801100065	Analyzed
114	112	2801040092_2X	Analyzed
115	4	CCV	QC Passed
116	0	CCB	QC Failed
117	0	CCB	QC Failed
118	0	CCB	QC Failed
119	5	MCV	QC Passed
120	113	2801040093_2X	Analyzed
121	114	2801040172_2X	Analyzed
122	115	2801080271_2X	Analyzed
123	116	2801080272_2X	Analyzed
124	117	2801080538_2X	Analyzed
125	118	2801080667_2X	Analyzed
126	0	Wash	QC Passed
127	4	ECV	QC Passed
128	0	ECB	QC Failed
129	0	ECB	QC Failed
130	0	ECB	QC Failed

Sample Information Detail Report
Document Name: 080115B

File Description
080115B

Parameters Common to All Samples

Batch ID	080115B
Volume Units	mL
Weight Units	g

Parameters That Vary By Sample

Sample No	A/S Location	Sample ID	Initial Sample Wt.
1	16	MRL/2	
2	17	MRL/5	
3	18	FILTERCHECK	
4	38	MBLANK	
5	39	LCS	
6	40	LCSD	
7	41	2801090364	
8	42	2801090364MS	
9	43	2801090364MSD	
10	44	2801100438	
11	45	2801100440	
12	46	2801100526	
13	47	2801100530	
14	48	2801100536	
15	49	2801100538	
16	50	2801100539	
17	51	2801100541	
18	52	2801100542	
19	53	2801100543	
20	54	2801100543MS	
21	55	2801100543MSD	
22	56	2801110373	
23	57	2801110374	
24	58	2801110375	
25	59	2801100388	
26	60	2801100389	
27	61	2801100390	
28	62	2801120001	
29	63	2801120002	
30	64	2801120003	
31	65	MBLANK	
32	21	MRL	
33	66	LCS	
34	67	LCSD	
35	68	2801100462	
36	69	2801100462MS	
37	70	2801100462MSD	
38	71	D801100065	
39	72	2801100262	
40	73	2801100263	
41	74	2801100456_10X	
42	75	2801100465_10X	
43	76	2801110040	
44	77	2801110360	
45	78	2801110368	
46	79	2801110370_10X	
47	80	2801110512	
48	81	2801110512MS	
49	82	2801110512MSD	
50	83	2801110371_20X	
51	84		
52	85		
53	86		
54	87		

55	88		
56	89		
57	90		
58	91		
59	92	MBLANK2007	
60	22	MRL	
61	93	MRL2007	
62	94	LCS2007C	
63	95	LCSD2007	
64	96	2801090362	
65	97	2801090362MS	
66	98	2801090362MSD	
67	99	2801080667_10X	

Sample No	Sample Prep. Vol.	Aliquot Volume	Diluted To Vol.
1		1	1
2		1	1
3		1	2
4		1	2
5		1	2
6		1	2
7		1	2
8		1	2
9		1	2
10		1	1
11		1	1
12		1	1
13		1	2
14		1	2
15		1	2
16		1	2
17		1	2
18		1	2
19		1	2
20		1	2
21		1	2
22		1	1
23		1	1
24		1	1
25		1	1
26		1	1
27		1	1
28		1	1
29		1	1
30		1	1
31		1	1
32		1	1
33		1	1
34		1	1
35		1	1
36		1	1
37		1	1
38		1	1
39		1	1
40		1	1
41		1	10
42		1	10
43		1	1
44		1	1
45		1	1
46		1	10
47		1	1
48		1	1
49		1	1
50		1	20
51		1	1

Standard Preparation Worksheet & Certificate of Analysis

Reagent	Lot #			
HNO3 R# 100450		HCL R# 100446		
IS = Yttrium(ME0709008)0.75mL + Scandium (ME0710007)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/ECV	MCV
CCV/MCV/ECV	ME0710008	(04/17/09)	1:20 ME0710008	1:40 ME0710008
(Prepare daily)				
Spike/LCS	ME0709009	(03/11/09)	1:100 ME0601006	
(Prepare daily)	ME0710001	~~(04~~/04/02/08)	1:100	
	ME0709007	~~(08~~/16/08)	1:200	
MRL	ME0709021	(03/20/08)	1:100 ME0603015	
(Prepare daily)				
ICSA	ME0712003	(6/1/2008)		
ICSAB	ME0712004	(6/1/2008)		
QCS	ME0610005	(04/10/08)		
Linearity	ME0711002	(05/06/08)		
Method Sr/Ti/Sn/SiO2				
Calibration	ME0710004	(04/11/08)		
CCV/ECV	ME0711003	(02/06/08)		
QCS	ME0711004	(02/06/08)		
Spike/LCS	ME0712006	(6/1/2008)	1:100	
(Prepare daily)				
MRL	ME0712005	(6/1/2008)	1:100	
(Prepare daily)				
Method Li				
Std/ICV/MRL	ME0711001	(05/01/08)	1:1000, 200, 40, 10	
(Prepare daily)				
QCS	ME0707002	(01/10/08)	1:10	
(Prepare daily)				
LCS/Spike	ME0707002	(01/10/08)	1:50	
(Prepare daily)				
ccv	ME0707002	(01/10/08)	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.

Intial: wbh
Date: 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

INORGANIC VENTURES

CERTIFICATE OF ANALYSIS

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 Principals."

2.0 **DESCRIPTION OF CRM** Custom Solution

M8070403

Catalog No.: MWH-ICAP-CAL-1

Lot Number: **A2-MEB235010**

Matrix: 5% HNO3(abs)

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, Tl, 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, Cr3	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: 1.066 g/mL (measured at 22° C)

Intial: WBH
Date: 4/23/07

METALS STANDARD DOCUMENTATION

Standard:	ICPCalibration Stock Std #2	**ME #:**	0704024
Date Received/Prepped:	4/23/2007	**By:**	wbh
Date Expired:	5/1/2008	**Lot #:**	A2-MEB235011
Manufacturer:	Inorganic Ventures	**Certificate:**	Y
Matrix:	5% Nitric Acid + Trace HF	**NIST SRM:**	Varies
Amount:	500 mL	**Storage:**	Room Temp

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

INORGANIC VENTURES

CERTIFICATE OF ANALYSIS

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 Principals."

M20704024

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: MWH-ICAP-CAL-2

Lot Number: **A2-MEB235011**

Matrix: tr. HF, 5% HNO3(abs)

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:

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

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

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_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.

Intial: STE
Date: 10/19/07

METALS STANDARD DOCUMENTATION

Standard: ICP CCV/MCV/QCS Stock Standard
Date Received/Prepped: 10/19/2007
Date Expired: 4/17/2009
Manufacturer: CPI
Matrix: 5% HNO3 = tr HF
Amount: 100 mL x 10

ME #: 0710008
By: STE
Lot #: 07J154
Certificate: Y
NIST SRM: Various
Storage: Room Temp

Component	Comment	Conc. Unit:
Ag	P/N 4400-061003RH01	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

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Innovative Solutions in Analytical Science and Technology

Expiry: 4/17/2009

Certificate of Analysis

Part Number: **4400-061003RH01**
Lot Number: **07J154**
Shelf Life: **18 months**

ME 07J0008

MWH
Custom Multi
5% HNO3 + tr HF

Concentrations in ug/mL ± 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 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.

Intial: STE
Date: 9/13/07

METALS STANDARD DOCUMENTATION

Standard: ICP CCV/MCV Stock Standard
Date Received/Prepped: 9/13/2007
Date Expired: 3/11/2009
Manufacturer: CPI International
Matrix: 5% HNO3 AND 0.1% HF
Amount: 100 mL

ME #: 0709009
By: STE
Lot #: 07I040
Certificate:
NIST SRM:
Storage: Room Temp.

Component	Comment	Conc. Unit:
Fe	P/N 4400-050314RH01	500
Al	(10 bottles)	200
Ba		100
Co		100
Cr		100
Cu		100
Mo		100
Sr		100
Ti		100
V		100
Zn		50
Ag		50
Ba		50
Mn		50
Ni		50
Sb		50
As		20
Cd		20
Pb		20
Se		20
Tl		20
Sn		100
Be		5
U		20

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Innovative Solutions in Analytical Science and Technology

Expiry: 3/11/2009

Certificate of Analysis

Part Number: **4400-050314RH01**
Lot Number: **07I040**
Shelf Life: **18 months**

ME 07 09 009

MWH Labs
5% HNO3 + 0.1% HF
#REF!

Concentrations in ug/mL ± 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 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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Intial: WBH
Date: 10/17/06

METALS STANDARD DOCUMENTATION

Standard:	ICP CCV/ECV working Standard	**ME #:**	0610006
Date Received/Prepped:	10/17/2006	**By:**	WBH
Date Expired:	4/10/2008	**Lot #:**	
Manufacturer:	MWH-WBH	**Certificate:**	Y
Matrix:	2% HNO3 + 2% HCl	**NIST SRM:**	Varius
Amount:	Prep daily	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
Ag		1	ppm
Al		5	ppm
As		5	ppm
B		2.5	ppm
Ba		5	ppm
Be		2	ppm
Ca		50	ppm
Cd		2.5	ppm
Co		5	ppm
Cr		5	ppm
Cu		5	ppm
Fe		5	ppm
K		50	ppm
Mg		50	ppm
Mn		5	ppm
Mo		5	ppm
Na		50	ppm
Ni		5	ppm
Pb		5	ppm
Sb		5	ppm
Se		5	ppm
Tl		5	ppm
V		5	ppm
Zn		5	ppm
Sr		1	ppm
Sn		1	ppm
Ti		1	ppm

Intial: STE
Date: 9/20/07

METALS STANDARD DOCUMENTATION

Standard: ICP MRL Working Stock Solution **ME #:** 0704021

Date Received/Prepped: 9/20/2007 **By:** STE
Date Expired: 3/20/2008 **Lot #:**
Manufacturer: MWH-STE **Certificate:** Y
Matrix: 5% HNO3 **NIST SRM:**
Amount: 100 mL Room temp. storage

Component	Comment	Conc. Unit:
Al	P/N 4400-060915RHO1	5 ppm
Sb		5 ppm
As		10 ppm
Ba		2 ppm
Be		0.1 ppm
Ba		5 ppm
Cd		0.5 ppm
Ca		100 ppm
Cr		1 ppm
Co		5 ppm
Cu		1 ppm
Fe		2 ppm
Pb		2 ppm
Li		10 ppm

Intial: STE
Date: 12/1/07

METALS STANDARD DOCUMENTATION

Standard:	Interference Check Standard (ICSA)	**ME #:**	0712003
Date Received/Prepped:	12/1/2007	**By:**	STE
Date Expired:	6/1/2008	**Lot #:**	
Manufacturer:	MWH-STE	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	500 mL	Room temp. storage	

Component	Comment	Conc. Unit:
Al	P/N 4400-INTA1-500	250 ppm
Ca	25 mL in 500 mL	250 ppm
Fe		100 ppm
Mg		250 ppm

Intial: ST
Date: 1/16/09

METALS STANDARD DOCUMENTATION

Standard:	Interference Check Standard (ICSAB	**ME #:**	0712004
Date Received/Prepped:	12/1/2007	**By:**	STE
Date Expired:	6/1/2008	**Lot #:**	
Manufacturer:	MWH-STE	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	500 mL	Room temp. storage	

Component	Comment	Conc. Unit:
Al	P/N 4400-INTA1-500 (25 mL)	250 ppm
Ca	P/N 4400-INTB1-100 (2.5 mL)	250 ppm
Fe		100 ppm
Mg		250 ppm
Ag		0.5 ppm
Ba		0.25 ppm
Be		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

Intial: WBH
Date: 10/17/06

METALS STANDARD DOCUMENTATION

Standard:	ICP CCV/MCV Stock Standard	**ME #:**	0610005
Date Received/Prepped:	10/17/2006	**By:**	WBH
Date Expired:	4/10/2008	**Lot #:**	06j053
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	5% HNO3 = tr HF	**NIST SRM:**	Varius
Amount:	100 mL x 10	**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
Ti		100	ppm
V		100	ppm
Zn		100	ppm
Sr		20	ppm
Sn		20	ppm
Ti		20	ppm

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Expiry: 4/10/2008

Certificate of Analysis

M20610.025

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

MWH
Custom Multi
5% HNO3 + tr HF

Concentrations in ug/mL ± 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 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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Intial: STE
Date: 11/6/07

METALS STANDARD DOCUMENTATION

Standard: ICP LINEARITY CHECK
Date Received/Prepped 11/6/2007
Date Expired: STE 11/6/07 ~~5/6/2008~~ ~~2/6/2008~~
Manufacturer: MWH-STE
Matrix: 5% HNO3
Amount: 500 mL

ME #: 0711002
By: STE
Lot #: VARIOUS
Certificate:
NIST SRM:
Storage: Room Temp.

Component	Comment	Conc. Unit:
Ca	15.0 mL ME0702002/500 mL	300 ppm
K	15.0 mL ME0702005/ 500 mL	300 ppm
Mg	10.0 mL ME0702004/ 500 mL	200 ppm
Na	15 mL ME0702003/ 500 mL	300 ppm
Fe	5.0 mL ME0701008/ 500 mL	100 ppm

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

Standard:	Potassium 10000ppm Stock Std	**ME #:**	0702005
Date Received/Prepped:	2/20/2007	**By:**	WBH
Date Expired:	8/16/2008	**Lot #:**	07B056
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	1% HNO3	**NIST SRM:**	3141
Amount:	250 mL	Room temp. storage	

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

AUG 16 '09

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CERTIFICATE OF ANALYSIS

M20702005

P/N 4400-10M411
P/N S4400-10M411

Single-Element Potassium Standard
K in 1% HNO_3
10,000 ± 30 µg/mL

Lot # 07B056

Material Source: Potassium Nitrate (KNO_3)
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	Tl	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
Cd	ND	0.1	Hf	ND	0.1	Ni	0.4	0.1	Si	50	20	Yb	ND	0.1
Ca	82	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	19	1	Zn	2.9	1
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.

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

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

Standard:	Magnessium 10000ppm Stock Std	**ME #:**	0702004
Date Received/Prepped:	2/20/2007	**By:**	WBH
Date Expired:	8/16/2008	**Lot #:**	07B058
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	4% HNO3	**NIST SRM:**	3131
Amount:	250 mL	Room temp. storage	

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

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CERTIFICATE OF ANALYSIS

M70702004

P/N 4400-10M311
P/N S4400-10M311

Single-Element Magnesium Standard
Mg in 4% HNO_3
10,000 ± 30 µg/mL

Lot # 07B058

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.

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

Intial: UBJ
Date: 2/14/22

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% HNO3	**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

M20702003

P/N 4400-10M521
P/N S4400-10M521

Single-Element Sodium Standard
Na in 1% HNO_3
10,000 ± 30 µg/mL

Lot # 07B057

Material Source: Sodium Nitrate ($NaNO_3$)
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.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
Al	1.5	0.1	Cu	0.45	0.1	Pb	ND	0.1	K	ND	70	Tl	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.

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

Intial: WBH
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

'180702602

Single-Element Calcium Standard
Ca in 4% HNO_3
10,000 ± 30 µg/mL

Lot # 07B065

Material Source: Calcium Carbonate ($CaCO_3$)
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	Tl	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.

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

Intial: WBH
Date: 1/26/07

METALS STANDARD DOCUMENTATION

Standard:	FE 10000ppm Stock Std	**ME #:**	701008
Date Received/Prepped:	1/26/2007	**By:**	WBH
Date Expired:	7/19/2008	**Lot #:**	06I143
Manufacturer:	CPI	**Certificate:**	
Matrix:	4% HNO3	**NIST SRM:**	3126a
Amount:	100 mL	**Storage:**	Room Temp

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

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CERTIFICATE OF ANALYSIS

MZ0701605

P/N 4400-10M261
P/N S4400-10M261

Single-Element Iron Standard
Fe in 4% HNO_3
10,000 ± 30 µg/mL

Lot # 06I143

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.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
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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Standard Preparation Worksheet & Certificate of Analysis

01/13/08 Analysis Batch

Reagent Lot #

HNO3 R# 100450 HCL R# 100446
IS = Yttrium(ME0709008)0.75mL + Scandium (ME0710007)0.5mL to 1000mL w/ 2% HNO3

Standards	Lot #	Exp. Date	Dilution	
Calibration	ME0712001	(12/01/08)	1:10 ME0801001	
(Prepare daily)	ME0712001	(12/01/08)	1:10	
			CCV/ECV	MCV
CCV/MCV/ECV	ME0710008	(04/17/09)	1:20 ME0801002	1:40 ME0801003
(Prepare daily)				
Spike/LCS	ME0709009	(03/11/09)	1:100 ME0801005	
(Prepare daily)	ME0801004	(07/11/08)	1:100	
	ME0709007	(08/16/08)	1:200	
MRL	ME0801007	(07/11/08)	1:100 ME0801008	
(Prepare daily)				
ICSA	ME0712003	(06/01/08)		
ICSAB	ME0712004	(06/01/08)		
QCS	ME0610005	(04/10/08)		
1ppm Check	ME0801010	(07/11/08)		
Linearity	ME0711002	(05/06/08)		
Method Sr/Ti/Sn/SiO2				
Calibration	ME0801012	(07/11/08)		
CCV/ECV	ME0801013	(03/31/08)		
QCS	ME0801012	(07/11/08)		
Spike/LCS	ME0801015	(03/31/08)	1:100	
(Prepare daily)				
MRL	ME0801014	(07/11/08)	1:100	
(Prepare daily)				
Method Li				
Std/ICV/MRL	ME0801009	(07/11/08)	1:1000, 200, 40, 10	
(Prepare daily)				
QCS	ME0801011	(07/11/08)	1:10	
(Prepare daily)				
LCS/Spike	ME0801011	(07/11/08)	1:50	
(Prepare daily)				
ccv	ME0801011	(07/11/08)	1:40	
(Prepare daily)				

From May 2005: the calibration std for Li should be ME0505010,011 not ME0408010

Intial: wbh
Date: 11/1/08

METALS STANDARD DOCUMENTATION

Standard:	ICP Calibration STD	**ME #:**	0801001
Date Received/Prepped:	Prep Daily	**By:**	wbh
Date Expired:	12/1/2008	**Lot #:**	
Manufacturer:	MWH-wbh	**Certificate:**	NO
Matrix:	2% HNO3 + 5% HCl	**NIST SRM:**	
Amount:		**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
Mo	1:10 ME0712002	10	ug/ml
Sb		10	ug/ml
Sn		10	ug/ml
Ti		10	ug/ml
B		5	ug/ml
Ca	1:10 ME0712001	100	ug/ml
K		100	ug/ml
Mg		100	ug/ml
Na		100	ug/ml
Al		10	ug/ml
As		10	ug/ml
Ba		10	ug/ml
Co		10	ug/ml
Cr		10	ug/ml
Cu		10	ug/ml
Fe		10	ug/ml
Mn		10	ug/ml
Ni		10	ug/ml
Pb		10	ug/ml
Se		10	ug/ml
Tl		10	ug/ml
V		10	ug/ml
Zn		10	ug/ml
Cd		5	ug/ml
Be		4	ug/ml
SR		3	ug/ml
Ag		2	ug/ml

Intial: STE
Date: 12/21/07

METALS STANDARD DOCUMENTATION

Standard: ICPCalibration Stock Std #1
Date Received/Prepped: 12/1/2007
Date Expired: 12/1/2008
Manufacturer: Inorganic Ventures
Matrix: 5% Nitric Acid
Amount: 500 mL

ME #: 0712001
By: STE
Lot #: A2-MEB243151
Certificate: Y
NIST SRM: Varies
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

INORGANIC VENTURES™

CERTIFICATE OF ANALYSIS

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 Principals."

2.0 **DESCRIPTION OF CRM** Custom Solution

Catalog No.: MWH-ICAP-CAL-1

Lot Number: **A2-MEB243151**

Matrix: 5% HNO3(abs)

ME 07120 01

1,000.00 µg/mL ea:
Ca, K, Mg, Na,

100.00 µg/mL ea:
Al, As, Ba, Co, Cr3, Cu, Fe, Mn, Ni, Pb, Se, Tl, V, Zn,

50.00 µg/mL ea:
Cd,

40.00 µg/mL ea:
Be,

30.00 µg/mL ea:
Sr,

20.00 µg/mL ea:
Ag

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE	ELEMENT	CERTIFIED VALUE
Aluminum, Al	100.4 ± 0.3 µg/mL	Arsenic, As	100.1 ± 0.3 µg/mL	Barium, Ba	99.6 ± 0.4 µg/mL
Beryllium, Be	40.04 ± 0.08 µg/mL	Cadmium, Cd	50.15 ± 0.12 µg/mL	Calcium, Ca	1,000 ± 2 µg/mL
Chromium+3, Cr3	100.0 ± 0.2 µg/mL	Cobalt, Co	99.9 ± 0.2 µg/mL	Copper, Cu	100.0 ± 0.2 µg/mL
Iron, Fe	99.6 ± 0.1 µg/mL	Lead, Pb	100.0 ± 0.3 µg/mL	Magnesium, Mg	1,000 ± 4 µg/mL
Manganese, Mn	100.0 ± 0.3 µg/mL	Nickel, Ni	100.0 ± 0.3 µg/mL	Potassium, K	1,001 ± 5 µg/mL
Selenium, Se	100.0 ± 0.2 µg/mL	Silver, Ag	20.04 ± 0.02 µg/mL	Sodium, Na	1,002 ± 5 µg/mL
Strontium, Sr	30.04 ± 0.18 µg/mL	Thallium, Tl	99.7 ± 0.1 µg/mL	Vanadium, V	100.0 ± 0.3 µg/mL
Zinc, Zn	100.0 ± 0.3 µg/mL				

Certified Density: 1.055 g/mL (measured at 22° C)

Intial: STE
Date: 12/01/08

METALS STANDARD DOCUMENTATION

Standard:	ICPCalibration Stock Std #2	**ME #:**	0712002
Date Received/Prepped:	12/1/2007	**By:**	STE
Date Expired:	12/1/2008	**Lot #:**	A2-MEB243152
Manufacturer:	Inorganic Ventures	**Certificate:**	Y
Matrix:	5% Nitric Acid + Trace HF	**NIST SRM:**	Varies
Amount:	500 mL	**Storage:**	Room Temp

Component	Comment	Conc. Unit:
Mo	(P/N MWH-ICAP-CAL-2)	100 ug/ml
Sb		100 ug/ml
Sn		100 ug/ml
Ti		100 ug/ml
B		50 ug/ml
Mo		100 ug/ml

INORGANIC VENTURES

CERTIFICATE OF ANALYSIS

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 Principals."

2.0 **DESCRIPTION OF CRM** Custom Solution

HE 0712 062

Catalog No.: MWH-ICAP-CAL-2

Lot Number: **A2-MEB243152**

Matrix: tr. HF, 5% HNO3(abs)

100.00 µg/mL ea:
Mo, Sb, Sn, Ti,

50.00 µg/mL ea:
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	49.85 ± 0.20 µg/mL	Molybdenum, Mo	100.2 ± 0.3 µg/mL
Tin, Sn	100.2 ± 0.3 µg/mL	Titanium, Ti	100.4 ± 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:

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

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

$(\bar{x})$ = mean
x_i = individual results
n = number of measurements
Σs_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 TRACEBILITY 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.

Intial: WBh
Date: 4/17/09

METALS STANDARD DOCUMENTATION

Standard:	ICP MCV Working Standard	**ME #:**	0801003
Date Received/Prepped:	Daily	**By:**	Wbh
Date Expired:	4/17/2009	**Lot #:**	
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	2%HNO3 + 5% HCL	**NIST SRM:**	Various
Amount:	100 mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
Ag	5ml ME0710008 / 100mL	0.5	ppm
Al		2.5	ppm
As		2.5	ppm
B		1.25	ppm
Ba		2.5	ppm
bE		1	ppm
Ca		25	ppm
Cd		1	ppm
Co		2.5	ppm
Cr		2.5	ppm
Cu		2.5	ppm
Fe		2.5	ppm
K		25	ppm
Mg		25	ppm
Mn		2.5	ppm
Mo		2.5	ppm
Na		25	ppm
Ni		2.5	ppm
Pb		2.5	ppm
Sb		2.5	ppm
Se		2.5	ppm
Tl		2.5	ppm
V		2.5	ppm
Zn		2.5	ppm
Sr		0.5	ppm
Sn		0.5	ppm
Ti		0.5	ppm

Intial: STE
Date: 10/19/07

METALS STANDARD DOCUMENTATION

Standard: ICP CCV/MCV/QCS Stock Standard
Date Received/Prepped: 10/19/2007
Date Expired: 4/17/2009
Manufacturer: CPI
Matrix: 5% HNO3 = tr HF
Amount: 100 mL x 10

ME #: 0710008
By: STE
Lot #: 07J154
Certificate: Y
NIST SRM: Various
Storage: Room Temp

Component	Comment	Conc. Unit:
Ag	P/N 4400-061003RH01	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
Ti		100 ppm
V		100 ppm
Zn		100 ppm
Sr		20 ppm
Sn		20 ppm
Ti		20 ppm

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Expiry: 4/17/2009

Certificate of Analysis

Part Number: **4400-061003RH01**
Lot Number: **07J154**
Shelf Life: **18 months**

ME 0710008
[illegible] : 10/19/07
STE

MWH
Custom Multi
5% HNO3 + tr HF

Concentrations in ug/mL ± 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 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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Intial: WBH
Date: 1/14/08

METALS STANDARD DOCUMENTATION

Standard:	Spike and LCS std for ICP	**ME #:**	0801005
Date Received/Prepped:	prep daily	**By:**	WBH
Date Expired:	7/11/2008	**Lot #:**	
Manufacturer:	MWH-wbh	**Certificate:**	N
Matrix:	2% HNO3 + 5% HCl	**NIST SRM:**	
Amount:		**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
CA	1:200 ME0709007	50	ppm
K		20	ppm
MG		20	ppm
NA		50	ppm
Iron	1:100 ME0709009	5	mg/L
Aluminum		2	mg/L
Barium		1	mg/L
Cobalt		1	mg/L
Chromium		1	mg/L
Copper		1	mg/L
Molybdenum		1	mg/L
Strontium		1	mg/L
Titanium		1	mg/L
Vanadium		1	mg/L
Zinc		1	mg/L
Tin		1	mg/L
Silver		0.5	mg/L
Boron		0.5	mg/L
Manganese		0.5	mg/L
Nickel		0.5	mg/L
Antimony		0.5	mg/L
Arsenic		0.2	mg/L
Cadmium		0.2	mg/L
Lead		0.2	mg/L
Selenium		0.2	mg/L
Thallium		0.2	mg/L
Uraium		0.2	mg/L
Beryllium		0.05	mg/L
AS	1:100 ME0801004	0.8	mg/L
PB		0.8	mg/L
SE		0.8	mg/L
TL		0.8	mg/L

Intial: WBH
Date: 7/11/08

METALS STANDARD DOCUMENTATION

Standard:	ICP Spike Solution	**ME #:**	0801004
Date Received/Prepped:	1/11/2008	**By:**	Wbh
Date Expired:	7/11/2008	**Lot #:**	VARIOUS
Manufacturer:	MWH-wbh	**Certificate:**	
Matrix:	2%HNO3	**NIST SRM:**	
Amount:	100mL	**Storage:**	Room Temp

Component	Comment	Conc.	Unit:
AS	8.0mL ME07090023/100mL	80	ppm
PB	8.0mL ME0704013/100mL	80	ppm
SE	8.0mL ME0703001/100mL	80	ppm
TL	8.0mL ME0702006/100mL	80	ppm

Intial: STE
Date: 9/24/07

METALS STANDARD DOCUMENTATION

Standard:	As Stock Standard	**ME #:**	0709023
Date Received/Prepped:	9/24/2007	**By:**	STE
Date Expired:	10/1/2008	**Lot #:**	A2-AS02035
Manufacturer:	Inorganic Ventures	**Certificate:**	Y
Matrix:	1.4% HNO3	**NIST SRM:**	
Amount:	100 mL X2	**Storage:**	Room Temp

Component	Comment	Conc. Unit:
As	PN: CGAS1-1	1000 ug/ml

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info@inorganicventures.com

CERTIFICATE OF ANALYSIS

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 Principals."

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:	**A2-AS02035**
Starting Material:	As Polycrystaline lump
Starting Material Purity (%):	99.998288
Starting Material Lot No:	23444
Matrix:	1.4% (abs) HNO3

ME0709023

3.0 **CERTIFIED VALUES AND UNCERTAINTIES**

Certified Concentration: 1000 ± 6 µg/mL

Certified Density: 1.010 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:

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

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

($\bar{x}$) = mean
x_i = individual results
n = number of measurements
Σs_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 Method #1** **1000 ± 6 µg/mL**
ICP Assay NIST SRM 3103a Lot Number: 010713

Assay Method #2 **1001 ± 5 µg/mL**
Gravimetric NIST SRM Lot Number: See Sec. 4.2

Intial: WBH
Date: 4/16/07

METALS STANDARD DOCUMENTATION

Standard:	Lead Stock Standard	**ME #:**	0704013
Date Received/Prepped:	4/16/2007	**By:**	WBH
Date Expired:	10/11/2008	**Lot #:**	07A097
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	2% HNO3	**NIST SRM:**	3128
Amount:	100 mL	Room temp. storage	

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

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CERTIFICATE OF ANALYSIS

P/N S4400-1000281
P/N 4400-1000281

1220704013

Single-Element Lead Standard
Pb in 2% HNO_3
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-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 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.

Intial: WBH
Date: 3/5/07

METALS STANDARD DOCUMENTATION

Standard:	Selenium Stock Standard	**ME #:**	0703001
Date Received/Prepped:	3/5/2007	**By:**	wbh
Date Expired:	8/22/2008	**Lot #:**	6.00E+228
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	2% HNO3	**NIST SRM:**	3148
Amount:	100 mL	**Storage:**	Room Temp

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

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CERTIFICATE OF ANALYSIS

M70703001

P/N 4400-1000491
P/N S4400-1000491

Single-Element Selenium Standard
Se in 2% HNO_3
1000 ± 3 µg/mL

Lot # 06E228

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.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
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.

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

Standard:	Thallium 1000ppm Stock Std	**ME #:**	0702006
Date Received/Prepped:	2/20/2007	**By:**	WBH
Date Expired:	8/16/2008	**Lot #:**	06H213
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	2% HNO3	**NIST SRM:**	3158
Amount:	100 mL	Room temp. storage	

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

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MF0702006

CERTIFICATE OF ANALYSIS

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

Single Element Thallium Standard
Tl in 2% HNO_3
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.

	ppb	DL		ppb	DL		Ppb	DL		ppb	DL		ppb	DL
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.

Intial: STE
Date: 9/13/07

METALS STANDARD DOCUMENTATION

Standard:	ICP CCV/MCV Stock Standard	**ME #:**	0709009
Date Received/Prepped:	9/13/2007	**By:**	STE
Date Expired:	3/11/2009	**Lot #:**	07I040
Manufacturer:	CPI International	**Certificate:**	
Matrix:	5% HNO3 AND 0.1% HF	**NIST SRM:**	
Amount:	100 mL	**Storage:**	Room Temp.

Component	Comment	Conc. Unit:
Fe	P/N 4400-050314RH01	500
Al	(10 bottles)	200
Ba		100
Co		100
Cr		100
Cu		100
Mo		100
Sr		100
Ti		100
V		100
Zn		50
Ag		50
Ba		50
Mn		50
Ni		50
Sb		50
As		20
Cd		20
Pb		20
Se		20
Tl		20
Sn		100
Be		5
U		20

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Expiry: 3/11/2009

Certificate of Analysis

Part Number: **4400-050314RH01**
Lot Number: **07I040**
Shelf Life: **18 months**

ME 07 09 009

MWH Labs
5% HNO3 + 0.1% HF
#REF!

Concentrations in ug/mL ± 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 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.

Date: WBH 4/11/08

METALS STANDARD DOCUMENTATION

Standard:	ICP MRL Working Stock Solution	**ME #:**	0801008
Date Received/Prepped:	Daily	**By:**	Wbh
Date Expired:	7/11/2008	**Lot #:**	
Manufacturer:	MWH-wbh	**Certificate:**	Y
5% HNO3	2% HNO3 + 5% Hcl	**NIST SRM:**	
Amount:	100 mL		Room temp. storage

Component	Comment	Conc.	Unit:
Al	0.1mL ME0801007 / 10mL	0.05	ppm
Sb		0.05	ppm
As		0.1	ppm
Ba		0.02	ppm
Be		0.001	ppm
Ba		0.05	ppm
Cd		0.005	ppm
Ca		1	ppm
Cr		0.01	ppm
Co		0.05	ppm
Cu		0.01	ppm
Fe		0.02	ppm
Pb		0.02	ppm
Li		0.1	ppm
Mg		0.002	ppm
Mn		0.02	ppm
Mo		0.02	ppm
Ni		1	ppm
K		0.1	ppm
Se		0.01	ppm
Ag		1	ppm
Na		0.02	ppm
Tl		0.002	ppm
V		0.1	ppm
Zn		0.001	ppm
Ti		0.02	ppm
Sr		0.01	ppm
Sn		0.2	ppm

Date: 1/11/08

METALS STANDARD DOCUMENTATION

Standard:	ICP MRL Working Stock Solu	**ME #:**	0801007
Date Received/Prepped:	1/11/2008	**By:**	Wbh
Date Expired:	7/11/2008	**Lot #:**	
Manufacturer:	MWH-wbh	**Certificate:**	Y
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	100 mL	Room temp. storage	

Component	Comment	Conc.	Unit:
Al	10mL ME0709020 / 100mL	5	ppm
Sb		5	ppm
As		10	ppm
Ba		2	ppm
Be		0.1	ppm
Ba		5	ppm
Cd		0.5	ppm
Ca		100	ppm
Cr		1	ppm
Co		5	ppm
Cu		1	ppm
Fe		2	ppm
Pb		2	ppm
Li		10	ppm
Mg		0.2	ppm
Mn		2	ppm
Mo		2	ppm
Ni		100	ppm
K		10	ppm
Se		1	ppm
Ag		100	ppm
Na		2	ppm
Tl		0.2	ppm
V		10	ppm
Zn		0.1	ppm
Ti		2	ppm
Sr		1	ppm
Sn		20	ppm

Intial: STE
Date: 9/20/07

METALS STANDARD DOCUMENTATION

Standard:	ICP MRL Stock Standard	**ME #:** 0709020	
Date Received/Prepped:	9/20/2007	**By:**	
Date Expired:	9/18/2008	**Lot #:** 06I162	
Manufacturer:	CPI	**Certificate:** Y	
Matrix:	2% HNO3 + tr HF	**NIST SRM:**	
Amount:	100 mL	Room temp. storage	

Component	Comment	Conc. Unit:
Al	P/N 4400-060915RHO1	50 ppm
Sb		50 ppm
As		100 ppm
Ba		20 ppm
Be		1 ppm
Ba		50 ppm
Cd		5 ppm
Ca		1000 ppm
Cr		10 ppm
Co		50 ppm
Cu		10 ppm
Fe		20 ppm
Pb		20 ppm
Li		1 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
Tl		100 ppm
V		2 ppm
Zn		20 ppm
Ti		20 ppm
Sr		10 ppm
Sn		200 ppm

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ME0709020

Expiry 9/18/2008

Certificate of Analysis

Part Number: **4400-060915RH01**
Lot Number: **06I162**
Shelf Life: **12 months**

MWH
Custom Standard
2% HNO3 + tr HF

Concentrations in ug/mL ± 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.

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Intial: STE
Date: 12/01/07

METALS STANDARD DOCUMENTATION

Standard:	Interference Check Standard (ICSA)	**ME #:**	0712003
Date Received/Prepped:	12/1/2007	**By:**	STE
Date Expired:	6/1/2008	**Lot #:**	
Manufacturer:	MWH-STE	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	500 mL	Room temp. storage	

Component	Comment	Conc. Unit:
Al	P/N 4400-INTA1-500	250 ppm
Ca	25 mL in 500 mL	250 ppm
Fe		100 ppm
Mg		250 ppm

Intial:
Date: 1/31/08

METALS STANDARD DOCUMENTATION

Standard:	Interference Check Standard (ICSAB	**ME #:**	0712004
Date Received/Prepped:	12/1/2007	**By:**	STE
Date Expired:	6/1/2008	**Lot #:**	
Manufacturer:	MWH-STE	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	500 mL	Room temp. storage	

Component	Comment	Conc. Unit:
Al	P/N 4400-INTA1-500 (25 mL)	250 ppm
Ca	P/N 4400-INTB1-100 (2.5 mL)	250 ppm
Fe		100 ppm
Mg		250 ppm
Ag		0.5 ppm
Ba		0.25 ppm
Be		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

Intial: WBH
Date: 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

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Expiry: 4/10/2008

Certificate of Analysis

M20610025

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

MWH
Custom Multi
5% HNO3 + tr HF

Concentrations in ug/mL ± 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 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.

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Intial: WBH
Date: 1/11/08

METALS STANDARD DOCUMENTATION

Standard:	ICP 1 PPM CHECK	**ME #:**	0801010
Date Received/Prepped	1/11/2008	**By:**	Wbh
Date Expired:	7/11/2008	**Lot #:**	VARIOUS
Manufacturer:	MWH-wbh	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	500 mL	**Storage:**	Room Tem

Component	Comment	Conc.	Unit:
Ag	5mL ME0708011 /500mL	1	mg/L
Al		1	mg/L
B		1	mg/L
Ba		1	mg/L
K		10	mg/L
Na		1	mg/L
Si		1	mg/L
As	5mL ME0708012 /500mL	1	mg/L
Be		1	mg/L
Ca		1	mg/L
Cd		1	mg/L
Co		1	mg/L
Cr		1	mg/L
Cu		1	mg/L
Fe		1	mg/L
Li		1	mg/L
Mg		1	mg/L
Mn		1	mg/L
Mo		1	mg/L
Ni		1	mg/L
Pb		1	mg/L
Sb		1	mg/L
Se		1	mg/L
Sr		1	mg/L
Ti		1	mg/L
Tl		1	mg/L
V		1	mg/L
Zn		1	mg/L

Intial: STE
Date: 8/27/07

METALS STANDARD DOCUMENTATION

Standard:	QC Check Standard 21	**ME #:** 0708012	
Date Received/Prepped:	8/27/2007	**By:** STE	
Date Expired:	8/31/2008	**Lot #:** 074438H	
Manufacturer:	Crescent Chemical Co. Inc.	**Certificate:**	
Matrix:	5% HNO3/tr. F/tr Tartaric Acid	**NIST SRM:**	
Amount:	100 mL	Room temp. storage	

Component	Comment	Conc. Unit:
As	Catalog No: QC-021.1	100 ug/mL
Be		100 ug/mL
Ca		100 ug/mL
Cd		100 ug/mL
Co		100 ug/mL
Cu		100 ug/mL
Fe		100 ug/mL
Li		100 ug/mL
Mg		100 ug/mL
Mn		100 ug/mL
Mo		100 ug/mL
Ni		100 ug/mL
Pb		100 ug/mL
Sb		100 ug/mL
Se		100 ug/mL
Sr		100 ug/mL
Ti		100 ug/mL
Tl		100 ug/mL
V		100 ug/mL
Zn		100 ug/mL

ME 0708012

Laboratory Report - Certificate of Analysis

Environmental Multielement Standard

QC Check Standard 21

CATALOG NO: QC-021.1

CONTENTS: See Below

MATRIX: 5% HNO_3/tr. F^-/tr. Tartaric Acid **LOT NO.:** 074438H

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 2008

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 Dive, Islandia, NY 11749
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ME070[illegible]011

Intial: STE
Date: 8/27/07

METALS STANDARD DOCUMENTATION

Standard:	QC Check Standard 7	**ME #:** 070[illegible]011	
Date Received/Prepped:	8/27/2007	**By:** STE	
Date Expired:	8/31/2007	**Lot #:** 074438I	
Manufacturer:	Crescent Chemical Co. Inc.	**Certificate:**	
Matrix:	5% HNO3	**NIST SRM:**	
Amount:	100	**Storage:** Room Temp.	

Component	Comment	Conc. Unit:
Ag	Catalog No: QC-007.1	100 ug/mL
Al		100 ug/mL
B		100 ug/mL
Ba		100 ug/mL
K		1000 +/- 5 ug/mL
Na		100 ug/mL
Si		50 ug/mL

ME 07 08 011

Laboratory Report - Certificate of Analysis

Environmental Multielement Standard

QC Check Standard 7

CATALOG NO: QC-007.1

CONTENTS: See Below

MATRIX: 5% HNO_3/tr. F^- **LOT NO.:** 074438I

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 2008

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

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Intial: STE
Date: 11/6/07

METALS STANDARD DOCUMENTATION

Standard: ICP LINEARITY CHECK
Date Received/Prepped 11/6/2007
Date Expired: STE 11/6/07 ~~5/6/2008~~ ~~2/6/2008~~
Manufacturer: MWH-STE
Matrix: 5% HNO3
Amount: 500 mL

ME #: 0711002
By: STE
Lot #: VARIOUS
Certificate:
NIST SRM:
Storage: Room Temp.

Component	Comment	Conc. Unit:
Ca	15.0 mL ME0702002/500 mL	300 ppm
K	15.0 mL ME0702005/ 500 mL	300 ppm
Mg	10.0 mL ME0702004/ 500 mL	200 ppm
Na	15 mL ME0702003/ 500 mL	300 ppm
Fe	5.0 mL ME0701008/ 500 mL	100 ppm

Intial: WBH
Date: 2/20/07

METALS STANDARD DOCUMENTATION

Standard:	Potassium 10000ppm Stock Std	**ME #:**	0702005
Date Received/Prepped:	2/20/2007	**By:**	WBH
Date Expired:	8/16/2008	**Lot #:**	07B056
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	1% HNO3	**NIST SRM:**	3141
Amount:	250 mL	Room temp. storage	

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

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CERTIFICATE OF ANALYSIS

M20702005

P/N 4400-10M411
P/N S4400-10M411

Single-Element Potassium Standard
K in 1% HNO_3
10,000 ± 30 µg/mL

Lot # 07B056

Material Source: Potassium Nitrate (KNO_3)
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	Tl	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
Cd	ND	0.1	Hf	ND	0.1	Ni	0.4	0.1	Si	50	20	Yb	ND	0.1
Ca	82	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	19	1	Zn	2.9	1
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.

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

Intial: WB
Date: 2/20/07

METALS STANDARD DOCUMENTATION

Standard:	Magnessium 10000ppm Stock Std	**ME #:**	0702004
Date Received/Prepped:	2/20/2007	**By:**	WBH
Date Expired:	8/16/2008	**Lot #:**	07B058
Manufacturer:	CPI	**Certificate:**	Y
Matrix:	4% HNO3	**NIST SRM:**	3131
Amount:	250 mL	Room temp. storage	

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

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CERTIFICATE OF ANALYSIS

4/20/2004

P/N 4400-10M311
P/N S4400-10M311

Single-Element Magnesium Standard
Mg in 4% HNO_3
10,000 ± 30 µg/mL

Lot # 07B058

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.

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

Intial: WBH
Date: 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% HNO3	**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

M20702003

P/N 4400-10M521
P/N S4400-10M521

Single-Element Sodium Standard
Na in 1% HNO_3
10,000 ± 30 µg/mL

Lot # 07B057

Material Source: Sodium Nitrate ($NaNO_3$)
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.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
Al	1.5	0.1	Cu	0.45	0.1	Pb	ND	0.1	K	ND	70	Tl	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.

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

Intial: WBH
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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Innovative Solutions in Analytical Science and Technology

CERTIFICATE OF ANALYSIS

P/N 4400-10M91
P/N S4400-10M91

'160702602

Single-Element Calcium Standard
Ca in 4% HNO_3
10,000 ± 30 µg/mL

Lot # 07B065

Material Source: Calcium Carbonate ($CaCO_3$)
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	Tl	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.

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

Intial: WBH
Date: 1/26/07

METALS STANDARD DOCUMENTATION

Standard:	FE 10000ppm Stock Std	**ME #:**	701008
Date Received/Prepped:	1/26/2007	**By:**	WBH
Date Expired:	7/19/2008	**Lot #:**	06I143
Manufacturer:	CPI	**Certificate:**	
Matrix:	4% HNO3	**NIST SRM:**	3126a
Amount:	100 mL	**Storage:**	Room Temp

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

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JUL 19 '06

CERTIFICATE OF ANALYSIS

PTE-070108

P/N 4400-10M261
P/N S4400-10M261

Single-Element Iron Standard
Fe in 4% HNO_3
10,000 ± 30 µg/mL

Lot # 06I143

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.

	ppb	DL		ppb	DL		ppb	DL		ppb	DL		ppb	DL
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.

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