2	Al 308.215	4200.1	152.9	0.0047 mg/L	0.0047 ppm
2	As 188.979	121.4	-6.8	-0.0006 mg/L	-0.0006 ppm
2	Ba 233.527	23487.3	23538.1	0.0555 mg/L	0.0555 ppm
2	Be 313.107	-570.6	-352.2	-0.0001 mg/L	-0.0001 ppm
2	Ca 227.547	13948.6	13337.3	54.32 mg/L	54.32 ppm
2	Cd 228.802	232.8	-5.5	0.0000 mg/L	0.0000 ppm
2	Co 228.616	-317.6	-13.9	-0.0001 mg/L	-0.0001 ppm
2	Cr 267.716	-181.1	119.9	0.0013 mg/L	0.0013 ppm
2	Cu 324.754	4057.6	917.2	0.0031 mg/L	0.0031 ppm
2	Fe 273.955	13129.5	12481.7	0.2778 mg/L	0.2778 ppm
2	K 766.491	53379.5	56002.0	2.542 mg/L	2.542 ppm
2	Mg 279.079	754349.9	749063.0	17.80 mg/L	17.80 ppm
2	Mn 257.610	2204.5	1395.0	0.0010 mg/L	0.0010 ppm
2	Mo 202.030	-11.3	46.4	0.0025 mg/L	0.0025 ppm
2	Na 330.237	19896.9	13178.5	19.30 mg/L	19.30 ppm
2	Ni 231.604	-40.5	39.9	0.0008 mg/L	0.0008 ppm
2	Pb 220.353	-173.3	1.9	0.0001 mg/L	0.0001 ppm
2	Sb 206.833	-6.3	4.9	0.0012 mg/L	0.0012 ppm
2	Se 196.026	57.2	5.4	0.0017 mg/L	0.0017 ppm
2	Tl 190.800	207.6	1.7	0.0005 mg/L	0.0005 ppm
2	V 292.402	352.1	211.2	0.0016 mg/L	0.0016 ppm
2	Zn 213.856	-171.4	438.1	0.0041 mg/L	0.0041 ppm
3	Ag 328.068	52.1	123.4	0.0006 mg/L	0.0006 ppm
3	Al 308.215	4265.5	218.3	0.0067 mg/L	0.0067 ppm
3	As 188.979	132.8	4.6	0.0033 mg/L	0.0033 ppm
3	Ba 233.527	23246.6	23297.3	0.0550 mg/L	0.0550 ppm
3	Be 313.107	-595.5	-377.1	-0.0001 mg/L	-0.0001 ppm
3	Ca 227.547	14007.1	13395.9	54.56 mg/L	54.56 ppm
3	Cd 228.802	251.5	13.2	0.0001 mg/L	0.0001 ppm
3	Co 228.616	-336.4	-32.7	-0.0003 mg/L	-0.0003 ppm
3	Cr 267.716	-200.7	100.3	0.0011 mg/L	0.0011 ppm
3	Cu 324.754	3955.8	815.4	0.0027 mg/L	0.0027 ppm
3	Fe 273.955	12930.7	12282.9	0.2734 mg/L	0.2734 ppm
3	K 766.491	53402.5	56025.0	2.543 mg/L	2.543 ppm
3	Mg 279.079	751044.1	745757.2	17.72 mg/L	17.72 ppm
3	Mn 257.610	2160.1	1350.7	0.0010 mg/L	0.0010 ppm
3	Mo 202.030	2.8	60.5	0.0033 mg/L	0.0033 ppm
3	Na 330.237	19746.2	13027.8	19.08 mg/L	19.08 ppm
3	Ni 231.604	-32.3	48.1	0.0010 mg/L	0.0010 ppm
3	Pb 220.353	-170.4	4.8	0.0003 mg/L	0.0003 ppm
3	Sb 206.833	-8.2	3.0	0.0007 mg/L	0.0007 ppm
3	Se 196.026	58.3	6.4	0.0020 mg/L	0.0020 ppm
3	Tl 190.800	222.6	16.8	0.0045 mg/L	0.0045 ppm
3	V 292.402	160.7	19.8	0.0002 mg/L	0.0002 ppm
3	Zn 213.856	-165.8	443.7	0.0041 mg/L	0.0041 ppm

ean Data ----------

D: 2809-3 F=1 Seq. No.: 25 Sample No.: 12 A/S Pos: 21
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 12:45:59 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	154.7	0.0008	0.00032	mg/L	0.0008	0.00032	ppm	42.28%
l 308.215	225.2	0.0070	0.00235	mg/L	0.0070	0.00235	ppm	33.78%
s 188.979	-0.1	0.0017	0.00206	mg/L	0.0017	0.00206	ppm	124.55%
a 233.527	23297.4	0.0550	0.00057	mg/L	0.0550	0.00057	ppm	1.03%
e 313.107	-352.6	-0.0001	0.00001	mg/L	-0.0001	0.00001	ppm	6.90%
a 227.547	13309.6	54.21	0.419	mg/L	54.21	0.419	ppm	0.77%
d 228.802	1.4	0.0000	0.00008	mg/L	0.0000	0.00008	ppm	747.86%
o 228.616	-17.5	-0.0002	0.00013	mg/L	-0.0002	0.00013	ppm	79.10%
r 267.716	114.0	0.0012	0.00013	mg/L	0.0012	0.00013	ppm	10.47%
u 324.754	901.1	0.0030	0.00026	mg/L	0.0030	0.00026	ppm	8.75%
e 273.955	12319.9	0.2742	0.00327	mg/L	0.2742	0.00327	ppm	1.19%
766.491	55293.7	2.511	0.0547	mg/L	2.511	0.0547	ppm	2.18%
g 279.079	743121.2	17.65	0.181	mg/L	17.65	0.181	ppm	1.02%
n 257.610	1367.8	0.0010	0.00002	mg/L	0.0010	0.00002	ppm	1.74%
o 202.030	55.8	0.0030	0.00044	mg/L	0.0030	0.00044	ppm	14.63%
u 330.237	13040.6	19.10	0.192	mg/L	19.10	0.192	ppm	1.01%
. 231.604	44.5	0.0009	0.00008	mg/L	0.0009	0.00008	ppm	9.45%
o 220.353	9.8	0.0006	0.00071	mg/L	0.0006	0.00071	ppm	114.92%

b 206.833	4.2	0.0011	0.00027 mg/L	0.0011	0.00027 ppm	25.41%
e 196.026	5.4	0.0017	0.00030 mg/L	0.0017	0.00030 ppm	17.62%
l 190.800	8.8	0.0024	0.00205 mg/L	0.0024	0.00205 ppm	86.33%
292.402	132.3	0.0010	0.00076 mg/L	0.0010	0.00076 ppm	75.60%
n 213.856	440.6	0.0041	0.00003 mg/L	0.0041	0.00003 ppm	0.65%

eplicate Data

D: 2809-5 F=1 Date: 4/23/03 12:49:26 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-236.4	-165.1	-0.0008	mg/L	-0.0008	ppm
1	Al 308.215	4336.3	289.1	0.0089	mg/L	0.0089	ppm
1	As 188.979	123.6	-4.6	-0.0004	mg/L	-0.0004	ppm
1	Ba 233.527	78630.9	78681.6	0.1857	mg/L	0.1857	ppm
1	Be 313.107	-538.5	-320.2	-0.0001	mg/L	-0.0001	ppm
1	Ca 227.547	10012.8	9401.5	38.29	mg/L	38.29	ppm
1	Cd 228.802	240.6	2.3	0.0000	mg/L	0.0000	ppm
1	Co 228.616	-308.8	-5.1	0.0000	mg/L	0.0000	ppm
1	Cr 267.716	-196.2	104.8	0.0011	mg/L	0.0011	ppm
1	Cu 324.754	3506.1	365.7	0.0012	mg/L	0.0012	ppm
1	Fe 273.955	280934.5	280286.8	6.238	mg/L	6.238	ppm
1	K 766.491	46139.2	48761.6	2.224	mg/L	2.224	ppm
1	Mg 279.079	662497.0	657210.0	15.61	mg/L	15.61	ppm
1	Mn 257.610	95035.2	94225.7	0.0708	mg/L	0.0708	ppm
1	Mo 202.030	-37.2	20.4	0.0011	mg/L	0.0011	ppm
1	Na 330.237	28462.7	21744.3	31.73	mg/L	31.73	ppm
1	Ni 231.604	53.3	133.7	0.0027	mg/L	0.0027	ppm
1	Pb 220.353	-159.0	16.1	0.0010	mg/L	0.0010	ppm
1	Sb 206.833	-0.9	10.3	0.0026	mg/L	0.0026	ppm
1	Se 196.026	56.8	4.9	0.0031	mg/L	0.0031	ppm
1	Tl 190.800	218.3	12.5	0.0022	mg/L	0.0022	ppm
1	V 292.402	32.9	-108.0	-0.0008	mg/L	-0.0008	ppm
1	Zn 213.856	-117.7	491.8	0.0046	mg/L	0.0046	ppm
2	Ag 328.068	-63.6	7.7	0.0000	mg/L	0.0000	ppm
2	Al 308.215	4339.3	292.1	0.0090	mg/L	0.0090	ppm
2	As 188.979	119.8	-8.4	-0.0017	mg/L	-0.0017	ppm
2	Ba 233.527	81422.7	81473.5	0.1923	mg/L	0.1923	ppm
2	Be 313.107	-485.6	-267.3	-0.0001	mg/L	-0.0001	ppm
2	Ca 227.547	9900.7	9289.5	37.83	mg/L	37.83	ppm
2	Cd 228.802	231.1	-7.2	-0.0001	mg/L	-0.0001	ppm
2	Co 228.616	-304.5	-0.8	0.0000	mg/L	0.0000	ppm
2	Cr 267.716	-194.1	106.8	0.0012	mg/L	0.0012	ppm
2	Cu 324.754	3484.5	344.1	0.0011	mg/L	0.0011	ppm
2	Fe 273.955	291224.1	290576.4	6.467	mg/L	6.467	ppm
2	K 766.491	48704.5	51327.0	2.337	mg/L	2.337	ppm
2	Mg 279.079	687534.2	682247.2	16.21	mg/L	16.21	ppm
2	Mn 257.610	98005.4	97195.9	0.0730	mg/L	0.0730	ppm
2	Mo 202.030	-40.7	17.0	0.0009	mg/L	0.0009	ppm
2	Na 330.237	29284.6	22566.1	32.92	mg/L	32.92	ppm
2	Ni 231.604	49.5	129.9	0.0026	mg/L	0.0026	ppm
2	Pb 220.353	-167.5	7.6	0.0005	mg/L	0.0005	ppm
2	Sb 206.833	-5.7	5.5	0.0014	mg/L	0.0014	ppm
2	Se 196.026	57.1	5.2	0.0033	mg/L	0.0033	ppm
2	Tl 190.800	217.4	11.6	0.0019	mg/L	0.0019	ppm
2	V 292.402	94.9	-46.0	-0.0004	mg/L	-0.0004	ppm
2	Zn 213.856	-130.1	479.3	0.0044	mg/L	0.0044	ppm
3	Ag 328.068	62.4	133.7	0.0007	mg/L	0.0007	ppm
3	Al 308.215	4357.5	310.3	0.0096	mg/L	0.0096	ppm
3	As 188.979	126.6	-1.6	0.0007	mg/L	0.0007	ppm
3	Ba 233.527	81934.7	81985.5	0.1935	mg/L	0.1935	ppm
3	Be 313.107	-548.2	-329.9	-0.0001	mg/L	-0.0001	ppm
3	Ca 227.547	10025.6	9414.3	38.34	mg/L	38.34	ppm
3	Cd 228.802	246.0	7.7	0.0001	mg/L	0.0001	ppm
3	Co 228.616	-299.7	4.0	0.0000	mg/L	0.0000	ppm
3	Cr 267.716	-177.3	123.7	0.0014	mg/L	0.0014	ppm
3	Cu 324.754	3494.8	354.4	0.0012	mg/L	0.0012	ppm
3	Fe 273.955	293650.1	293002.4	6.521	mg/L	6.521	ppm
3	K 766.491	50369.1	52991.6	2.410	mg/L	2.410	ppm

3 Mg 279.079	692714.9	687427.9	16.33 mg/L	16.33 ppm
3 Mn 257.610	99054.7	98245.2	0.0738 mg/L	0.0738 ppm
3 Mo 202.030	-32.7	25.0	0.0014 mg/L	0.0014 ppm
3 Na 330.237	29668.2	22949.8	33.47 mg/L	33.47 ppm
3 Ni 231.604	29.6	110.0	0.0022 mg/L	0.0022 ppm
3 Pb 220.353	-190.4	-15.3	-0.0010 mg/L	-0.0010 ppm
3 Sb 206.833	-16.9	-5.7	-0.0014 mg/L	-0.0014 ppm
3 Se 196.026	63.0	11.2	0.0052 mg/L	0.0052 ppm
3 Tl 190.800	217.5	11.7	0.0020 mg/L	0.0020 ppm
3 V 292.402	193.2	52.3	0.0004 mg/L	0.0004 ppm
3 Zn 213.856	-113.0	496.5	0.0046 mg/L	0.0046 ppm

ean Data ----------

D: 2809-5 F=1 Seq. No.: 26 Sample No.: 13 A/S Pos: 22
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 12:49:26 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	-7.9	0.0000	0.00074	mg/L	0.0000	0.00074	ppm	>999.9%
l 308.215	297.2	0.0092	0.00035	mg/L	0.0092	0.00035	ppm	3.86%
s 188.979	-4.9	-0.0005	0.00120	mg/L	-0.0005	0.00120	ppm	245.46%
a 233.527	80713.5	0.1905	0.00420	mg/L	0.1905	0.00420	ppm	2.20%
e 313.107	-305.8	-0.0001	0.00001	mg/L	-0.0001	0.00001	ppm	11.02%
a 227.547	9368.4	38.16	0.280	mg/L	38.16	0.280	ppm	0.73%
d 228.802	0.9	0.0000	0.00006	mg/L	0.0000	0.00006	ppm	816.13%
o 228.616	-0.6	0.0000	0.00004	mg/L	0.0000	0.00004	ppm	700.85%
r 267.716	111.8	0.0012	0.00011	mg/L	0.0012	0.00011	ppm	9.27%
u 324.754	354.7	0.0012	0.00004	mg/L	0.0012	0.00004	ppm	3.05%
e 273.955	287955.2	6.409	0.1502	mg/L	6.409	0.1502	ppm	2.34%
766.491	51026.7	2.324	0.0937	mg/L	2.324	0.0937	ppm	4.03%
g 279.079	675628.4	16.05	0.384	mg/L	16.05	0.384	ppm	2.39%
n 257.610	96555.6	0.0725	0.00157	mg/L	0.0725	0.00157	ppm	2.16%
o 202.030	20.8	0.0011	0.00022	mg/L	0.0011	0.00022	ppm	19.40%
a 330.237	22420.1	32.71	0.890	mg/L	32.71	0.890	ppm	2.72%
i 231.604	124.5	0.0025	0.00026	mg/L	0.0025	0.00026	ppm	10.24%
o 220.353	2.8	0.0002	0.00102	mg/L	0.0002	0.00102	ppm	575.84%
o 206.833	3.4	0.0008	0.00207	mg/L	0.0008	0.00207	ppm	244.32%
e 196.026	7.1	0.0038	0.00114	mg/L	0.0038	0.00114	ppm	29.73%
l 190.800	11.9	0.0020	0.00016	mg/L	0.0020	0.00016	ppm	7.88%
292.402	-33.9	-0.0003	0.00061	mg/L	-0.0003	0.00061	ppm	238.35%
n 213.856	489.2	0.0045	0.00008	mg/L	0.0045	0.00008	ppm	1.81%

eplicate Data ----------

D: 2809-6 F=1 Date: 4/23/03 12:52:51 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	149.7	220.9	0.0011	mg/L	0.0011	ppm
1 Al 308.215	4307.0	259.8	0.0080	mg/L	0.0080	ppm
1 As 188.979	123.1	-5.1	-0.0018	mg/L	-0.0018	ppm
1 Ba 233.527	10894.1	10944.9	0.0258	mg/L	0.0258	ppm
1 Be 313.107	-503.2	-284.9	-0.0001	mg/L	-0.0001	ppm
1 Ca 227.547	6618.7	6007.4	24.47	mg/L	24.47	ppm
1 Cd 228.802	247.4	9.1	0.0001	mg/L	0.0001	ppm
1 Co 228.616	-330.6	-26.9	-0.0003	mg/L	-0.0003	ppm
1 Cr 267.716	-92.9	208.1	0.0023	mg/L	0.0023	ppm
1 Cu 324.754	3666.2	525.8	0.0018	mg/L	0.0018	ppm
1 Fe 273.955	12015.8	11368.1	0.2530	mg/L	0.2530	ppm
1 K 766.491	40805.4	43427.9	1.989	mg/L	1.989	ppm
1 Mg 279.079	515175.7	509888.8	12.11	mg/L	12.11	ppm
1 Mn 257.610	90961.4	90152.0	0.0677	mg/L	0.0677	ppm
1 Mo 202.030	95.9	153.6	0.0083	mg/L	0.0083	ppm
1 Na 330.237	32873.3	26154.9	38.09	mg/L	38.09	ppm
1 Ni 231.604	-17.4	63.0	0.0013	mg/L	0.0013	ppm
1 Pb 220.353	-164.7	10.4	0.0007	mg/L	0.0007	ppm
1 Sb 206.833	4.8	16.0	0.0040	mg/L	0.0040	ppm
1 Se 196.026	61.7	9.8	0.0031	mg/L	0.0031	ppm
1 Tl 190.800	214.3	8.5	0.0023	mg/L	0.0023	ppm
1 V 292.402	443.5	302.6	0.0023	mg/L	0.0023	ppm
1 Zn 213.856	122.1	731.6	0.0068	mg/L	0.0068	ppm

2 Ag 328.068	162.8	234.0	0.0012 mg/L	0.0012 ppm
2 Al 308.215	4373.1	325.9	0.0101 mg/L	0.0101 ppm
2 As 188.979	135.9	7.7	0.0027 mg/L	0.0027 ppm
2 Ba 233.527	10161.0	10211.8	0.0241 mg/L	0.0241 ppm
2 Be 313.107	-499.4	-281.0	-0.0001 mg/L	-0.0001 ppm
2 Ca 227.547	6602.2	5990.9	24.40 mg/L	24.40 ppm
2 Cd 228.802	219.6	-18.7	-0.0001 mg/L	-0.0001 ppm
2 Co 228.616	-337.2	-33.5	-0.0003 mg/L	-0.0003 ppm
2 Cr 267.716	-85.3	215.6	0.0024 mg/L	0.0024 ppm
2 Cu 324.754	3274.5	134.1	0.0004 mg/L	0.0004 ppm
2 Fe 273.955	11353.7	10706.0	0.2383 mg/L	0.2383 ppm
2 K 766.491	37986.2	40608.6	1.864 mg/L	1.864 ppm
2 Mg 279.079	488503.9	483216.9	11.48 mg/L	11.48 ppm
2 Mn 257.610	86093.0	85283.6	0.0641 mg/L	0.0641 ppm
2 Mo 202.030	85.2	142.8	0.0077 mg/L	0.0077 ppm
2 Na 330.237	31472.1	24753.6	36.08 mg/L	36.08 ppm
2 Ni 231.604	10.9	91.3	0.0018 mg/L	0.0018 ppm
2 Pb 220.353	-172.3	2.8	0.0002 mg/L	0.0002 ppm
2 Sb 206.833	-8.3	2.9	0.0007 mg/L	0.0007 ppm
2 Se 196.026	49.0	-2.9	-0.0009 mg/L	-0.0009 ppm
2 Tl 190.800	214.5	8.7	0.0023 mg/L	0.0023 ppm
2 V 292.402	415.4	274.5	0.0021 mg/L	0.0021 ppm
2 Zn 213.856	127.9	737.4	0.0068 mg/L	0.0068 ppm
3 Ag 328.068	-26.0	45.2	0.0002 mg/L	0.0002 ppm
3 Al 308.215	4260.7	213.5	0.0066 mg/L	0.0066 ppm
3 As 188.979	126.8	-1.4	-0.0005 mg/L	-0.0005 ppm
3 Ba 233.527	10372.1	10422.9	0.0246 mg/L	0.0246 ppm
3 Be 313.107	-529.4	-311.0	-0.0001 mg/L	-0.0001 ppm
3 Ca 227.547	6681.4	6070.2	24.72 mg/L	24.72 ppm
3 Cd 228.802	230.0	-8.3	-0.0001 mg/L	-0.0001 ppm
3 Co 228.616	-330.1	-26.4	-0.0003 mg/L	-0.0003 ppm
3 Cr 267.716	-68.5	232.5	0.0025 mg/L	0.0025 ppm
3 Cu 324.754	3371.6	231.2	0.0008 mg/L	0.0008 ppm
3 Fe 273.955	11387.1	10739.3	0.2390 mg/L	0.2390 ppm
3 K 766.491	38821.8	41444.2	1.901 mg/L	1.901 ppm
3 Mg 279.079	496268.8	490981.8	11.66 mg/L	11.66 ppm
3 Mn 257.610	87502.8	86693.3	0.0651 mg/L	0.0651 ppm
3 Mo 202.030	83.1	140.8	0.0076 mg/L	0.0076 ppm
3 Na 330.237	31956.7	25238.3	36.77 mg/L	36.77 ppm
3 Ni 231.604	20.6	101.0	0.0020 mg/L	0.0020 ppm
3 Pb 220.353	-183.0	-7.9	-0.0005 mg/L	-0.0005 ppm
3 Sb 206.833	-5.6	5.6	0.0014 mg/L	0.0014 ppm
3 Se 196.026	62.9	11.1	0.0035 mg/L	0.0035 ppm
3 Tl 190.800	208.6	2.7	0.0007 mg/L	0.0007 ppm
3 V 292.402	464.2	323.3	0.0025 mg/L	0.0025 ppm
3 Zn 213.856	140.6	750.1	0.0070 mg/L	0.0070 ppm

ean Data ----------

): 2809-6 F=1 Seq. No.: 27 Sample No.: 14 A/S Pos: 23

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 12:52:51 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	166.7	0.0008	0.00052	mg/L	0.0008	0.00052	ppm	63.24%
l 308.215	266.4	0.0082	0.00175	mg/L	0.0082	0.00175	ppm	21.21%
s 188.979	0.4	0.0001	0.00228	mg/L	0.0001	0.00228	ppm	>999.9%
a 233.527	10526.5	0.0248	0.00089	mg/L	0.0248	0.00089	ppm	3.59%
e 313.107	-292.3	-0.0001	0.00001	mg/L	-0.0001	0.00001	ppm	5.59%
a 227.547	6022.8	24.53	0.170	mg/L	24.53	0.170	ppm	0.69%
d 228.802	-6.0	0.0000	0.00011	mg/L	0.0000	0.00011	ppm	235.08%
o 228.616	-28.9	-0.0003	0.00004	mg/L	-0.0003	0.00004	ppm	13.80%
r 267.716	218.7	0.0024	0.00014	mg/L	0.0024	0.00014	ppm	5.71%
u 324.754	297.0	0.0010	0.00068	mg/L	0.0010	0.00068	ppm	68.67%
e 273.955	10937.8	0.2434	0.00830	mg/L	0.2434	0.00830	ppm	3.41%
766.491	41826.9	1.918	0.0640	mg/L	1.918	0.0640	ppm	3.34%
g 279.079	494695.8	11.75	0.326	mg/L	11.75	0.326	ppm	2.77%
n 257.610	87376.3	0.0656	0.00188	mg/L	0.0656	0.00188	ppm	2.87%
o 202.030	145.7	0.0079	0.00037	mg/L	0.0079	0.00037	ppm	4.72%
a 330.237	25382.3	36.98	1.025	mg/L	36.98	1.025	ppm	2.77%

i 231.604	85.1	0.0017	0.00040 mg/L	0.0017	0.00040 ppm	23.23%
b 220.353	1.8	0.0001	0.00058 mg/L	0.0001	0.00058 ppm	514.72%
b 206.833	8.2	0.0021	0.00174 mg/L	0.0021	0.00174 ppm	84.85%
e 196.026	6.0	0.0019	0.00246 mg/L	0.0019	0.00246 ppm	128.80%
l 190.800	6.6	0.0018	0.00091 mg/L	0.0018	0.00091 ppm	50.89%
292.402	300.2	0.0023	0.00019 mg/L	0.0023	0.00019 ppm	8.16%
n 213.856	739.7	0.0069	0.00009 mg/L	0.0069	0.00009 ppm	1.28%

eplicate Data ----------

D: 2809-7 F=1 Date: 4/23/03 12:56:18 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1 Ag 328.068	-43.1	28.2	0.0001 mg/L	0.0001 ppm
1 Al 308.215	4284.2	237.0	0.0073 mg/L	0.0073 ppm
1 As 188.979	129.9	1.7	0.0006 mg/L	0.0006 ppm
1 Ba 233.527	14585.3	14636.1	0.0345 mg/L	0.0345 ppm
1 Be 313.107	-527.1	-308.7	-0.0001 mg/L	-0.0001 ppm
1 Ca 227.547	4645.7	4034.4	16.43 mg/L	16.43 ppm
1 Cd 228.802	231.0	-7.3	-0.0001 mg/L	-0.0001 ppm
1 Co 228.616	-283.8	19.9	0.0002 mg/L	0.0002 ppm
1 Cr 267.716	-86.2	214.8	0.0023 mg/L	0.0023 ppm
1 Cu 324.754	4018.2	877.8	0.0029 mg/L	0.0029 ppm
1 Fe 273.955	58087.2	57439.4	1.278 mg/L	1.278 ppm
1 K 766.491	38834.4	41456.9	1.902 mg/L	1.902 ppm
1 Mg 279.079	477024.6	471737.6	11.21 mg/L	11.21 ppm
1 Mn 257.610	267228.7	266419.2	0.2002 mg/L	0.2002 ppm
1 Mo 202.030	105.8	163.5	0.0089 mg/L	0.0089 ppm
1 Na 330.237	31835.6	25117.1	36.60 mg/L	36.60 ppm
1 Ni 231.604	51.4	131.8	0.0026 mg/L	0.0026 ppm
1 Pb 220.353	-169.2	6.0	0.0004 mg/L	0.0004 ppm
1 Sb 206.833	-5.2	6.0	0.0015 mg/L	0.0015 ppm
1 Se 196.026	63.9	12.0	0.0038 mg/L	0.0038 ppm
1 Tl 190.800	213.4	7.5	0.0020 mg/L	0.0020 ppm
1 V 292.402	285.4	144.5	0.0011 mg/L	0.0011 ppm
1 Zn 213.856	54.2	663.7	0.0062 mg/L	0.0062 ppm
2 Ag 328.068	-26.5	44.7	0.0002 mg/L	0.0002 ppm
2 Al 308.215	4283.3	236.0	0.0073 mg/L	0.0073 ppm
2 As 188.979	135.3	7.1	0.0025 mg/L	0.0025 ppm
2 Ba 233.527	14599.1	14649.9	0.0346 mg/L	0.0346 ppm
2 Be 313.107	-687.6	-469.2	-0.0002 mg/L	-0.0002 ppm
2 Ca 227.547	4626.1	4014.8	16.35 mg/L	16.35 ppm
2 Cd 228.802	199.3	-39.0	-0.0003 mg/L	-0.0003 ppm
2 Co 228.616	-324.1	-20.4	-0.0002 mg/L	-0.0002 ppm
2 Cr 267.716	-88.4	212.5	0.0023 mg/L	0.0023 ppm
2 Cu 324.754	4007.4	867.0	0.0029 mg/L	0.0029 ppm
2 Fe 273.955	57835.1	57187.4	1.273 mg/L	1.273 ppm
2 K 766.491	39183.9	41806.4	1.917 mg/L	1.917 ppm
2 Mg 279.079	474816.8	469529.8	11.15 mg/L	11.15 ppm
2 Mn 257.610	265046.9	264237.4	0.1985 mg/L	0.1985 ppm
2 Mo 202.030	107.0	164.6	0.0089 mg/L	0.0089 ppm
2 Na 330.237	31955.8	25237.3	36.77 mg/L	36.77 ppm
2 Ni 231.604	30.0	110.4	0.0022 mg/L	0.0022 ppm
2 Pb 220.353	-159.0	16.1	0.0010 mg/L	0.0010 ppm
2 Sb 206.833	-12.5	-1.3	-0.0003 mg/L	-0.0003 ppm
2 Se 196.026	59.3	7.4	0.0024 mg/L	0.0024 ppm
2 Tl 190.800	211.4	5.6	0.0015 mg/L	0.0015 ppm
2 V 292.402	203.3	62.3	0.0005 mg/L	0.0005 ppm
2 Zn 213.856	42.4	651.9	0.0060 mg/L	0.0060 ppm
3 Ag 328.068	-161.1	-89.8	-0.0004 mg/L	-0.0004 ppm
3 Al 308.215	4615.5	568.3	0.0176 mg/L	0.0176 ppm
3 As 188.979	121.1	-7.1	-0.0025 mg/L	-0.0025 ppm
3 Ba 233.527	14808.6	14859.4	0.0351 mg/L	0.0351 ppm
3 Be 313.107	-612.9	-394.6	-0.0001 mg/L	-0.0001 ppm
3 Ca 227.547	4671.3	4060.1	16.54 mg/L	16.54 ppm
3 Cd 228.802	226.6	-11.7	-0.0001 mg/L	-0.0001 ppm
3 Co 228.616	-305.8	-2.1	0.0000 mg/L	0.0000 ppm
3 Cr 267.716	-88.6	212.4	0.0023 mg/L	0.0023 ppm
3 Cu 324.754	4020.1	879.7	0.0029 mg/L	0.0029 ppm

3 Fe 273.955	58583.5	57935.7	1.289 mg/L	1.289 ppm
3 K 766.491	40632.9	43255.4	1.981 mg/L	1.981 ppm
3 Mg 279.079	484031.6	478744.6	11.37 mg/L	11.37 ppm
3 Mn 257.610	269814.5	269005.0	0.2021 mg/L	0.2021 ppm
3 Mo 202.030	107.8	165.5	0.0090 mg/L	0.0090 ppm
3 Na 330.237	32538.9	25820.5	37.61 mg/L	37.61 ppm
3 Ni 231.604	36.2	116.6	0.0023 mg/L	0.0023 ppm
3 Pb 220.353	-169.0	6.1	0.0004 mg/L	0.0004 ppm
3 Sb 206.833	-2.5	8.7	0.0022 mg/L	0.0022 ppm
3 Se 196.026	58.1	6.2	0.0020 mg/L	0.0020 ppm
3 Tl 190.800	209.2	3.4	0.0009 mg/L	0.0009 ppm
3 V 292.402	254.2	113.3	0.0009 mg/L	0.0009 ppm
3 Zn 213.856	42.5	652.0	0.0060 mg/L	0.0060 ppm

ean Data ----------

D: 2809-7 F=1 Seq. No.: 28 Sample No.: 15 A/S Pos: 24
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 12:56:18 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-5.6	0.0000	0.00036	mg/L	0.0000	0.00036	ppm	>999.9%
l 308.215	347.1	0.0107	0.00592	mg/L	0.0107	0.00592	ppm	55.19%
s 188.979	0.6	0.0002	0.00249	mg/L	0.0002	0.00249	ppm	>999.9%
a 233.527	14715.1	0.0347	0.00030	mg/L	0.0347	0.00030	ppm	0.85%
e 313.107	-390.8	-0.0001	0.00003	mg/L	-0.0001	0.00003	ppm	20.55%
a 227.547	4036.4	16.44	0.092	mg/L	16.44	0.092	ppm	0.56%
d 228.802	-19.3	-0.0001	0.00013	mg/L	-0.0001	0.00013	ppm	89.08%
o 228.616	-0.9	0.0000	0.00020	mg/L	0.0000	0.00020	ppm	>999.9%
r 267.716	213.2	0.0023	0.00001	mg/L	0.0023	0.00001	ppm	0.62%
u 324.754	874.8	0.0029	0.00002	mg/L	0.0029	0.00002	ppm	0.79%
e 273.955	57520.9	1.280	0.0085	mg/L	1.280	0.0085	ppm	0.66%
766.491	42172.9	1.934	0.0421	mg/L	1.934	0.0421	ppm	2.18%
g 279.079	473337.3	11.24	0.114	mg/L	11.24	0.114	ppm	1.02%
n 257.610	266553.9	0.2003	0.00179	mg/L	0.2003	0.00179	ppm	0.90%
o 202.030	164.5	0.0089	0.00005	mg/L	0.0089	0.00005	ppm	0.62%
a 330.237	25391.7	36.99	0.542	mg/L	36.99	0.542	ppm	1.47%
i 231.604	119.6	0.0024	0.00022	mg/L	0.0024	0.00022	ppm	9.23%
o 220.353	9.4	0.0006	0.00037	mg/L	0.0006	0.00037	ppm	61.68%
o 206.833	4.5	0.0011	0.00130	mg/L	0.0011	0.00130	ppm	115.39%
e 196.026	8.6	0.0027	0.00098	mg/L	0.0027	0.00098	ppm	35.86%
l 190.800	5.5	0.0015	0.00056	mg/L	0.0015	0.00056	ppm	37.78%
292.402	106.7	0.0008	0.00032	mg/L	0.0008	0.00032	ppm	38.86%
n 213.856	655.9	0.0061	0.00006	mg/L	0.0061	0.00006	ppm	1.03%

eplicate Data ----------

D: 2809-8 F=1 Date: 4/23/03 12:59:43 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-159.1	-87.8	-0.0004	mg/L	-0.0004	ppm
1 Al 308.215	4093.6	46.4	0.0014	mg/L	0.0014	ppm
1 As 188.979	124.2	-4.0	-0.0014	mg/L	-0.0014	ppm
1 Ba 233.527	29.2	80.0	0.0002	mg/L	0.0002	ppm
1 Be 313.107	-605.5	-387.2	-0.0001	mg/L	-0.0001	ppm
1 Ca 227.547	624.9	13.6	0.0555	mg/L	0.0555	ppm
1 Cd 228.802	252.1	13.8	0.0001	mg/L	0.0001	ppm
1 Co 228.616	-333.4	-29.7	-0.0003	mg/L	-0.0003	ppm
1 Cr 267.716	-133.5	167.5	0.0018	mg/L	0.0018	ppm
1 Cu 324.754	3784.1	643.7	0.0021	mg/L	0.0021	ppm
1 Fe 273.955	826.3	178.5	0.0040	mg/L	0.0040	ppm
1 K 766.491	-1986.5	635.9	0.0750	mg/L	0.0750	ppm
1 Mg 279.079	3800.7	-1486.3	-0.0353	mg/L	-0.0353	ppm
1 Mn 257.610	1439.8	630.3	0.0005	mg/L	0.0005	ppm
1 Mo 202.030	-58.9	-1.2	-0.0001	mg/L	-0.0001	ppm
1 Na 330.237	7056.6	338.1	0.4904	mg/L	0.4904	ppm
1 Ni 231.604	16.5	96.9	0.0019	mg/L	0.0019	ppm
1 Pb 220.353	-154.3	20.9	0.0013	mg/L	0.0013	ppm
1 Sb 206.833	-10.4	0.8	0.0002	mg/L	0.0002	ppm
1 Se 196.026	45.1	-6.8	-0.0022	mg/L	-0.0022	ppm
1 Tl 190.800	209.3	3.5	0.0009	mg/L	0.0009	ppm

1 V 292.402	90.5	-50.4	-0.0004 mg/L	-0.0004 ppm
1 Zn 213.856	-217.6	391.9	0.0036 mg/L	0.0036 ppm
2 Ag 328.068	-57.9	13.4	0.0001 mg/L	0.0001 ppm
2 Al 308.215	4154.4	107.2	0.0033 mg/L	0.0033 ppm
2 As 188.979	121.8	-6.4	-0.0022 mg/L	-0.0022 ppm
2 Ba 233.527	-15.9	34.8	0.0001 mg/L	0.0001 ppm
2 Be 313.107	-512.0	-293.6	-0.0001 mg/L	-0.0001 ppm
2 Ca 227.547	615.8	4.5	0.0185 mg/L	0.0185 ppm
2 Cd 228.802	229.3	-9.0	-0.0001 mg/L	-0.0001 ppm
2 Co 228.616	-342.0	-38.3	-0.0004 mg/L	-0.0004 ppm
2 Cr 267.716	-112.5	188.5	0.0021 mg/L	0.0021 ppm
2 Cu 324.754	3835.5	695.1	0.0023 mg/L	0.0023 ppm
2 Fe 273.955	752.2	104.4	0.0023 mg/L	0.0023 ppm
2 K 766.491	-2491.0	131.5	0.0521 mg/L	0.0521 ppm
2 Mg 279.079	3764.2	-1522.8	-0.0362 mg/L	-0.0362 ppm
2 Mn 257.610	1072.8	263.3	0.0002 mg/L	0.0002 ppm
2 Mo 202.030	-57.5	0.2	0.0000 mg/L	0.0000 ppm
2 Na 330.237	6776.3	57.8	0.0773 mg/L	0.0773 ppm
2 Ni 231.604	17.8	98.2	0.0020 mg/L	0.0020 ppm
2 Pb 220.353	-188.3	-13.2	-0.0008 mg/L	-0.0008 ppm
2 Sb 206.833	-8.9	2.3	0.0006 mg/L	0.0006 ppm
2 Se 196.026	53.7	1.8	0.0006 mg/L	0.0006 ppm
2 Tl 190.800	200.1	-5.8	-0.0016 mg/L	-0.0016 ppm
2 V 292.402	23.9	-117.0	-0.0009 mg/L	-0.0009 ppm
2 Zn 213.856	-222.6	386.9	0.0036 mg/L	0.0036 ppm
3 Ag 328.068	-186.4	-115.2	-0.0006 mg/L	-0.0006 ppm
3 Al 308.215	4099.4	52.2	0.0016 mg/L	0.0016 ppm
3 As 188.979	126.4	-1.8	-0.0006 mg/L	-0.0006 ppm
3 Ba 233.527	-83.2	-32.4	-0.0001 mg/L	-0.0001 ppm
3 Be 313.107	-627.7	-409.4	-0.0002 mg/L	-0.0002 ppm
3 Ca 227.547	622.1	10.8	0.0440 mg/L	0.0440 ppm
3 Cd 228.802	234.9	-3.4	0.0000 mg/L	0.0000 ppm
3 Co 228.616	-334.9	-31.3	-0.0003 mg/L	-0.0003 ppm
3 Cr 267.716	-131.7	169.3	0.0018 mg/L	0.0018 ppm
3 Cu 324.754	3956.3	815.9	0.0027 mg/L	0.0027 ppm
3 Fe 273.955	782.4	134.7	0.0030 mg/L	0.0030 ppm
3 K 766.491	-2029.2	593.2	0.0730 mg/L	0.0730 ppm
3 Mg 279.079	3746.9	-1540.0	-0.0366 mg/L	-0.0366 ppm
3 Mn 257.610	1252.0	442.5	0.0003 mg/L	0.0003 ppm
3 Mo 202.030	-68.4	-10.7	-0.0006 mg/L	-0.0006 ppm
3 Na 330.237	7032.9	314.5	0.4556 mg/L	0.4556 ppm
3 Ni 231.604	43.0	123.4	0.0025 mg/L	0.0025 ppm
3 Pb 220.353	-169.5	5.7	0.0004 mg/L	0.0004 ppm
3 Sb 206.833	-8.7	2.5	0.0006 mg/L	0.0006 ppm
3 Se 196.026	54.8	2.9	0.0009 mg/L	0.0009 ppm
3 Tl 190.800	204.9	-0.9	-0.0003 mg/L	-0.0003 ppm
3 V 292.402	107.5	-33.4	-0.0003 mg/L	-0.0003 ppm
3 Zn 213.856	-222.4	387.0	0.0036 mg/L	0.0036 ppm

ean Data ----------

): 2809-8 F=1 Seq. No.: 29 Sample No.: 16 A/S Pos: 25

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 12:59:43 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
328.068	-63.2	-0.0003	0.00033	mg/L	-0.0003	0.00033	ppm	107.12%
308.215	68.6	0.0021	0.00104	mg/L	0.0021	0.00104	ppm	48.92%
188.979	-4.1	-0.0014	0.00080	mg/L	-0.0014	0.00080	ppm	56.63%
233.527	27.5	0.0001	0.00013	mg/L	0.0001	0.00013	ppm	206.02%
313.107	-363.4	-0.0001	0.00002	mg/L	-0.0001	0.00002	ppm	16.90%
227.547	9.7	0.0393	0.01891	mg/L	0.0393	0.01891	ppm	48.07%
228.802	0.5	0.0000	0.00009	mg/L	0.0000	0.00009	ppm	>999.9%
228.616	-33.1	-0.0003	0.00004	mg/L	-0.0003	0.00004	ppm	13.75%
267.716	175.1	0.0019	0.00013	mg/L	0.0019	0.00013	ppm	6.64%
324.754	718.2	0.0024	0.00029	mg/L	0.0024	0.00029	ppm	12.31%
273.955	139.2	0.0031	0.00083	mg/L	0.0031	0.00083	ppm	26.77%
766.491	453.6	0.0667	0.01268	mg/L	0.0667	0.01268	ppm	19.01%
279.079	-1516.4	-0.0360	0.00065	mg/L	-0.0360	0.00065	ppm	1.81%
257.610	445.4	0.0003	0.00014	mg/L	0.0003	0.00014	ppm	41.21%

o 202.030	-3.9	-0.0002	0.00032 mg/L	-0.0002	0.00032 ppm	151.21%
a 330.237	236.8	0.3411	0.22911 mg/L	0.3411	0.22911 ppm	67.17%
i 231.604	106.2	0.0021	0.00030 mg/L	0.0021	0.00030 ppm	14.10%
b 220.353	4.4	0.0003	0.00107 mg/L	0.0003	0.00107 ppm	383.20%
b 206.833	1.9	0.0005	0.00023 mg/L	0.0005	0.00023 ppm	48.42%
e 196.026	-0.7	-0.0002	0.00170 mg/L	-0.0002	0.00170 ppm	785.44%
l 190.800	-1.1	-0.0003	0.00125 mg/L	-0.0003	0.00125 ppm	428.78%
292.402	-66.9	-0.0005	0.00034 mg/L	-0.0005	0.00034 ppm	66.07%
n 213.856	388.6	0.0036	0.00003 mg/L	0.0036	0.00003 ppm	0.73%

eplicate Data ----------

D: 2822-1 F=1 Date: 4/23/03 1:03:07 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-52.3	18.9	0.0001	mg/L	0.0001	ppm
1	Al 308.215	4003.4	-43.8	-0.0014	mg/L	-0.0014	ppm
1	As 188.979	122.2	-6.0	-0.0021	mg/L	-0.0021	ppm
1	Ba 233.527	132.8	183.6	0.0004	mg/L	0.0004	ppm
1	Be 313.107	-762.7	-544.3	-0.0002	mg/L	-0.0002	ppm
1	Ca 227.547	642.4	31.1	0.1267	mg/L	0.1267	ppm
1	Cd 228.802	223.0	-15.3	-0.0001	mg/L	-0.0001	ppm
1	Co 228.616	-331.5	-27.8	-0.0003	mg/L	-0.0003	ppm
1	Cr 267.716	-252.0	49.0	0.0005	mg/L	0.0005	ppm
1	Cu 324.754	3077.3	-63.1	-0.0002	mg/L	-0.0002	ppm
1	Fe 273.955	290.7	-357.0	-0.0079	mg/L	-0.0079	ppm
1	K 766.491	-2441.1	181.3	0.0544	mg/L	0.0544	ppm
1	Mg 279.079	5801.9	515.0	0.0122	mg/L	0.0122	ppm
1	Mn 257.610	477.8	-331.7	-0.0002	mg/L	-0.0002	ppm
1	Mo 202.030	-72.1	-14.4	-0.0008	mg/L	-0.0008	ppm
1	Na 330.237	6888.8	170.3	0.2431	mg/L	0.2431	ppm
1	Ni 231.604	-100.8	-20.4	-0.0004	mg/L	-0.0004	ppm
1	Pb 220.353	-177.2	-2.0	-0.0001	mg/L	-0.0001	ppm
1	Sb 206.833	-0.3	10.9	0.0027	mg/L	0.0027	ppm
1	Se 196.026	58.6	6.7	0.0021	mg/L	0.0021	ppm
1	Tl 190.800	203.1	-2.7	-0.0007	mg/L	-0.0007	ppm
1	V 292.402	143.1	2.2	0.0000	mg/L	0.0000	ppm
1	Zn 213.856	-639.6	-30.1	-0.0003	mg/L	-0.0003	ppm
2	Ag 328.068	-97.8	-26.5	-0.0001	mg/L	-0.0001	ppm
2	Al 308.215	3825.1	-222.1	-0.0069	mg/L	-0.0069	ppm
2	As 188.979	129.0	0.8	0.0003	mg/L	0.0003	ppm
2	Ba 233.527	127.9	178.6	0.0004	mg/L	0.0004	ppm
2	Be 313.107	-574.5	-356.2	-0.0001	mg/L	-0.0001	ppm
2	Ca 227.547	643.3	32.1	0.1306	mg/L	0.1306	ppm
2	Cd 228.802	179.9	-58.4	-0.0005	mg/L	-0.0005	ppm
2	Co 228.616	-309.7	-6.0	-0.0001	mg/L	-0.0001	ppm
2	Cr 267.716	-281.8	19.2	0.0002	mg/L	0.0002	ppm
2	Cu 324.754	2813.9	-326.5	-0.0011	mg/L	-0.0011	ppm
2	Fe 273.955	436.3	-211.4	-0.0047	mg/L	-0.0047	ppm
2	K 766.491	-2408.8	213.7	0.0558	mg/L	0.0558	ppm
2	Mg 279.079	5828.2	541.3	0.0129	mg/L	0.0129	ppm
2	Mn 257.610	327.4	-482.0	-0.0004	mg/L	-0.0004	ppm
2	Mo 202.030	-63.3	-5.7	-0.0003	mg/L	-0.0003	ppm
2	Na 330.237	6873.2	154.8	0.2202	mg/L	0.2202	ppm
2	Ni 231.604	-80.4	-0.0	0.0000	mg/L	0.0000	ppm
2	Pb 220.353	-175.0	0.1	0.0000	mg/L	0.0000	ppm
2	Sb 206.833	-3.4	7.8	0.0020	mg/L	0.0020	ppm
2	Se 196.026	59.9	8.1	0.0026	mg/L	0.0026	ppm
2	Tl 190.800	201.3	-4.6	-0.0012	mg/L	-0.0012	ppm
2	V 292.402	104.9	-36.0	-0.0003	mg/L	-0.0003	ppm
2	Zn 213.856	-623.8	-14.3	-0.0001	mg/L	-0.0001	ppm
3	Ag 328.068	126.9	198.1	0.0010	mg/L	0.0010	ppm
3	Al 308.215	4183.4	136.2	0.0042	mg/L	0.0042	ppm
3	As 188.979	127.1	-1.1	-0.0004	mg/L	-0.0004	ppm
3	Ba 233.527	110.4	161.2	0.0004	mg/L	0.0004	ppm
3	Be 313.107	-617.6	-399.2	-0.0001	mg/L	-0.0001	ppm
3	Ca 227.547	661.8	50.5	0.2058	mg/L	0.2058	ppm
3	Cd 228.802	213.4	-24.9	-0.0002	mg/L	-0.0002	ppm
3	Co 228.616	-293.4	10.3	0.0001	mg/L	0.0001	ppm

3 Cr 267.716	-279.0	22.0	0.0002 mg/L	0.0002 ppm
3 Cu 324.754	3122.5	-17.9	-0.0001 mg/L	-0.0001 ppm
3 Fe 273.955	371.2	-276.6	-0.0062 mg/L	-0.0062 ppm
3 K 766.491	-2442.7	179.8	0.0543 mg/L	0.0543 ppm
3 Mg 279.079	5484.7	197.8	0.0047 mg/L	0.0047 ppm
3 Mn 257.610	422.6	-386.9	-0.0003 mg/L	-0.0003 ppm
3 Mo 202.030	-59.5	-1.8	-0.0001 mg/L	-0.0001 ppm
3 Na 330.237	6976.5	258.0	0.3724 mg/L	0.3724 ppm
3 Ni 231.604	-73.2	7.2	0.0001 mg/L	0.0001 ppm
3 Pb 220.353	-188.3	-13.1	-0.0008 mg/L	-0.0008 ppm
3 Sb 206.833	-16.4	-5.2	-0.0013 mg/L	-0.0013 ppm
3 Se 196.026	67.7	15.8	0.0050 mg/L	0.0050 ppm
3 Tl 190.800	203.3	-2.5	-0.0007 mg/L	-0.0007 ppm
3 V 292.402	25.3	-115.6	-0.0009 mg/L	-0.0009 ppm
3 Zn 213.856	-645.0	-35.5	-0.0003 mg/L	-0.0003 ppm

ean Data ----------

D: 2822-1 F=1 Seq. No.: 30 Sample No.: 17 A/S Pos: 26
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 1:03:07 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	63.5	0.0003	0.00059	mg/L	0.0003	0.00059	ppm	187.05%
l 308.215	-43.2	-0.0013	0.00554	mg/L	-0.0013	0.00554	ppm	414.48%
s 188.979	-2.1	-0.0007	0.00121	mg/L	-0.0007	0.00121	ppm	166.06%
a 233.527	174.5	0.0004	0.00003	mg/L	0.0004	0.00003	ppm	6.75%
e 313.107	-433.2	-0.0002	0.00004	mg/L	-0.0002	0.00004	ppm	22.75%
a 227.547	37.9	0.1544	0.04458	mg/L	0.1544	0.04458	ppm	28.88%
d 228.802	-32.9	-0.0003	0.00018	mg/L	-0.0003	0.00018	ppm	68.74%
o 228.616	-7.8	-0.0001	0.00019	mg/L	-0.0001	0.00019	ppm	244.23%
r 267.716	30.0	0.0003	0.00018	mg/L	0.0003	0.00018	ppm	54.81%
u 324.754	-135.8	-0.0005	0.00055	mg/L	-0.0005	0.00055	ppm	122.70%
e 273.955	-281.7	-0.0063	0.00162	mg/L	-0.0063	0.00162	ppm	25.89%
766.491	191.6	0.0548	0.00087	mg/L	0.0548	0.00087	ppm	1.58%
g 279.079	418.0	0.0099	0.00454	mg/L	0.0099	0.00454	ppm	45.74%
n 257.610	-400.2	-0.0003	0.00006	mg/L	-0.0003	0.00006	ppm	19.00%
o 202.030	-7.3	-0.0004	0.00035	mg/L	-0.0004	0.00035	ppm	88.18%
a 330.237	194.4	0.2785	0.08207	mg/L	0.2785	0.08207	ppm	29.46%
i 231.604	-4.4	-0.0001	0.00029	mg/L	-0.0001	0.00029	ppm	326.21%
b 220.353	-5.0	-0.0003	0.00045	mg/L	-0.0003	0.00045	ppm	142.47%
o 206.833	4.5	0.0011	0.00215	mg/L	0.0011	0.00215	ppm	189.39%
e 196.026	10.2	0.0032	0.00156	mg/L	0.0032	0.00156	ppm	48.12%
l 190.800	-3.3	-0.0009	0.00031	mg/L	-0.0009	0.00031	ppm	34.43%
292.402	-49.8	-0.0004	0.00046	mg/L	-0.0004	0.00046	ppm	120.73%
n 213.856	-26.6	-0.0002	0.00010	mg/L	-0.0002	0.00010	ppm	41.34%

eplicate Data ----------

D: 2820-5 F=1 Date: 4/23/03 1:06:36 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	-134.9	-63.7	-0.0003	mg/L	-0.0003	ppm
1 Al 308.215	5456.1	1408.9	0.0436	mg/L	0.0436	ppm
1 As 188.979	131.9	3.7	0.0013	mg/L	0.0013	ppm
1 Ba 233.527	26478.0	26528.8	0.0626	mg/L	0.0626	ppm
1 Be 313.107	-660.0	-441.6	-0.0002	mg/L	-0.0002	ppm
1 Ca 227.547	3196.2	2585.0	10.53	mg/L	10.53	ppm
1 Cd 228.802	231.0	-7.3	-0.0001	mg/L	-0.0001	ppm
1 Co 228.616	-267.1	36.5	0.0004	mg/L	0.0004	ppm
1 Cr 267.716	-47.6	253.4	0.0028	mg/L	0.0028	ppm
1 Cu 324.754	3648.5	508.1	0.0017	mg/L	0.0017	ppm
1 Fe 273.955	46684.1	46036.4	1.025	mg/L	1.025	ppm
1 K 766.491	657011.5	659634.0	25.45	mg/L	25.45	ppm
1 Mg 279.079	651833.7	646546.7	15.36	mg/L	15.36	ppm
1 Mn 257.610	62891.6	62082.1	0.0466	mg/L	0.0466	ppm
1 Mo 202.030	508.6	566.2	0.0307	mg/L	0.0307	ppm
1 Na 330.237	231769.0	225050.6	303.1	mg/L	303.1	ppm
1 Ni 231.604	80.0	160.3	0.0032	mg/L	0.0032	ppm
1 Pb 220.353	-146.6	28.6	0.0018	mg/L	0.0018	ppm
1 Sb 206.833	-10.1	1.1	0.0003	mg/L	0.0003	ppm

1 Se 196.026	66.8	14.9	0.0047 mg/L	0.0047 ppm
1 Tl 190.800	210.2	4.3	0.0012 mg/L	0.0012 ppm
1 V 292.402	2289.7	2148.8	0.0163 mg/L	0.0163 ppm
1 Zn 213.856	-50.2	559.3	0.0052 mg/L	0.0052 ppm
2 Ag 328.068	-169.2	-98.0	-0.0005 mg/L	-0.0005 ppm
2 Al 308.215	5560.1	1512.9	0.0468 mg/L	0.0468 ppm
2 As 188.979	137.4	9.2	0.0032 mg/L	0.0032 ppm
2 Ba 233.527	26487.7	26538.5	0.0626 mg/L	0.0626 ppm
2 Be 313.107	-514.5	-296.1	-0.0001 mg/L	-0.0001 ppm
2 Ca 227.547	3208.7	2597.4	10.58 mg/L	10.58 ppm
2 Cd 228.802	238.6	0.3	0.0000 mg/L	0.0000 ppm
2 Co 228.616	-287.8	15.9	0.0002 mg/L	0.0002 ppm
2 Cr 267.716	-39.6	261.4	0.0029 mg/L	0.0029 ppm
2 Cu 324.754	3688.0	547.6	0.0018 mg/L	0.0018 ppm
2 Fe 273.955	46641.6	45993.8	1.024 mg/L	1.024 ppm
2 K 766.491	613255.7	615878.2	23.97 mg/L	23.97 ppm
2 Mg 279.079	656018.9	650731.9	15.46 mg/L	15.46 ppm
2 Mn 257.610	63296.7	62487.2	0.0469 mg/L	0.0469 ppm
2 Mo 202.030	522.9	580.6	0.0315 mg/L	0.0315 ppm
2 Na 330.237	233289.5	226571.0	305.0 mg/L	305.0 ppm
2 Ni 231.604	55.1	135.5	0.0027 mg/L	0.0027 ppm
2 Pb 220.353	-159.0	16.2	0.0010 mg/L	0.0010 ppm
2 Sb 206.833	-15.2	-4.0	-0.0010 mg/L	-0.0010 ppm
2 Se 196.026	62.0	10.1	0.0032 mg/L	0.0032 ppm
2 Tl 190.800	209.9	4.0	0.0011 mg/L	0.0011 ppm
2 V 292.402	2385.7	2244.8	0.0171 mg/L	0.0171 ppm
2 Zn 213.856	-34.4	575.1	0.0053 mg/L	0.0053 ppm
3 Ag 328.068	-208.0	-136.7	-0.0007 mg/L	-0.0007 ppm
3 Al 308.215	5781.7	1734.4	0.0536 mg/L	0.0536 ppm
3 As 188.979	139.8	11.7	0.0040 mg/L	0.0040 ppm
3 Ba 233.527	27712.1	27762.8	0.0655 mg/L	0.0655 ppm
3 Be 313.107	-664.0	-445.6	-0.0002 mg/L	-0.0002 ppm
3 Ca 227.547	3204.5	2593.3	10.56 mg/L	10.56 ppm
3 Cd 228.802	255.8	17.5	0.0001 mg/L	0.0001 ppm
3 Co 228.616	-272.5	31.2	0.0003 mg/L	0.0003 ppm
3 Cr 267.716	-55.4	245.6	0.0027 mg/L	0.0027 ppm
3 Cu 324.754	3895.1	754.7	0.0025 mg/L	0.0025 ppm
3 Fe 273.955	48258.2	47610.4	1.060 mg/L	1.060 ppm
3 K 766.491	621451.4	624073.9	24.25 mg/L	24.25 ppm
3 Mg 279.079	683019.4	677732.4	16.10 mg/L	16.10 ppm
3 Mn 257.610	65684.6	64875.1	0.0487 mg/L	0.0487 ppm
3 Mo 202.030	513.6	571.2	0.0310 mg/L	0.0310 ppm
3 Na 330.237	242460.5	235742.1	316.3 mg/L	316.3 ppm
3 Ni 231.604	52.5	132.9	0.0027 mg/L	0.0027 ppm
3 Pb 220.353	-168.7	6.4	0.0004 mg/L	0.0004 ppm
3 Sb 206.833	1.2	12.3	0.0031 mg/L	0.0031 ppm
3 Se 196.026	53.3	1.5	0.0005 mg/L	0.0005 ppm
3 Tl 190.800	211.9	6.0	0.0016 mg/L	0.0016 ppm
3 V 292.402	2594.7	2453.8	0.0187 mg/L	0.0187 ppm
3 Zn 213.856	-60.8	548.7	0.0051 mg/L	0.0051 ppm

ean Data ----------

): 2820-5 F=1 Seq. No.: 31 Sample No.: 18 A/S Pos: 27

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 1:06:36 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
328.068	-99.5	-0.0005	0.00018	mg/L	-0.0005	0.00018	ppm	36.75%
308.215	1552.1	0.0480	0.00514	mg/L	0.0480	0.00514	ppm	10.71%
188.979	8.2	0.0028	0.00141	mg/L	0.0028	0.00141	ppm	49.85%
233.527	26943.4	0.0636	0.00167	mg/L	0.0636	0.00167	ppm	2.63%
313.107	-394.5	-0.0001	0.00003	mg/L	-0.0001	0.00003	ppm	21.60%
227.547	2591.9	10.56	0.026	mg/L	10.56	0.026	ppm	0.25%
228.802	3.5	0.0000	0.00010	mg/L	0.0000	0.00010	ppm	364.24%
228.616	27.9	0.0003	0.00010	mg/L	0.0003	0.00010	ppm	38.54%
267.716	253.5	0.0028	0.00009	mg/L	0.0028	0.00009	ppm	3.12%
324.754	603.5	0.0020	0.00044	mg/L	0.0020	0.00044	ppm	21.95%
273.955	46546.9	1.036	0.0205	mg/L	1.036	0.0205	ppm	1.98%
766.491	633195.3	24.56	0.784	mg/L	24.56	0.784	ppm	3.19%

g 279.079	658337.0	15.64	0.402 mg/L	15.64	0.402 ppm	2.57%
n 257.610	63148.1	0.0474	0.00113 mg/L	0.0474	0.00113 ppm	2.39%
o 202.030	572.7	0.0311	0.00040 mg/L	0.0311	0.00040 ppm	1.27%
a 330.237	229121.2	308.1	7.14 mg/L	308.1	7.14 ppm	2.32%
i 231.604	142.9	0.0029	0.00030 mg/L	0.0029	0.00030 ppm	10.59%
b 220.353	17.1	0.0011	0.00070 mg/L	0.0011	0.00070 ppm	65.13%
b 206.833	3.2	0.0008	0.00211 mg/L	0.0008	0.00211 ppm	264.99%
e 196.026	8.8	0.0028	0.00217 mg/L	0.0028	0.00217 ppm	76.97%
l 190.800	4.8	0.0013	0.00029 mg/L	0.0013	0.00029 ppm	22.59%
292.402	2282.5	0.0174	0.00119 mg/L	0.0174	0.00119 ppm	6.83%
n 213.856	561.0	0.0052	0.00012 mg/L	0.0052	0.00012 ppm	2.37%

eplicate Data

D: CCV 1447B Date: 4/23/03 1:10:17 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	204348.5	204419.7	1.008	mg/L		
1	Al 308.215	168938.1	164890.8	5.099	mg/L		
1	As 188.979	1546.7	1418.5	0.4968	mg/L		
1	Ba 233.527	2207221.3	2207272.1	5.208	mg/L		
1	Be 313.107	1346850.0	1347068.3	0.5016	mg/L		
1	Ca 227.547	13239.3	12628.1	51.43	mg/L		
1	Cd 228.802	132828.8	132590.5	1.027	mg/L		
1	Co 228.616	213098.5	213402.2	2.072	mg/L		
1	Cr 267.716	46621.0	46922.0	0.5123	mg/L		
1	Cu 324.754	616469.1	613328.7	2.042	mg/L		
1	Fe 273.955	230187.9	229540.2	5.109	mg/L		
1	K 766.491	365509.3	368131.7	15.15	mg/L		
1	Mg 279.079	1093757.0	1088470.0	25.86	mg/L		
1	Mn 257.610	2714459.4	2713649.9	2.039	mg/L		
1	Mo 202.030	37495.4	37553.1	2.037	mg/L		
1	Na 330.237	77351.5	70633.0	100.9	mg/L		
1	Ni 231.604	103361.5	103441.9	2.072	mg/L		
1	Pb 220.353	7902.6	8077.8	0.5079	mg/L		
1	Sb 206.833	8000.5	8011.7	2.004	mg/L		
1	Se 196.026	1673.2	1621.4	0.5170	mg/L		
1	Tl 190.800	2051.6	1845.7	0.4988	mg/L		
1	V 292.402	268832.8	268691.9	2.044	mg/L		
1	Zn 213.856	220202.8	220812.3	2.049	mg/L		
2	Ag 328.068	195535.1	195606.4	0.9647	mg/L		
2	Al 308.215	162038.4	157991.2	4.886	mg/L		
2	As 188.979	1546.3	1418.1	0.4964	mg/L		
2	Ba 233.527	2109002.8	2109053.6	4.977	mg/L		
2	Be 313.107	1340696.6	1340914.9	0.4993	mg/L		
2	Ca 227.547	12596.9	11985.7	48.82	mg/L		
2	Cd 228.802	127311.3	127073.0	0.9841	mg/L		
2	Co 228.616	203865.2	204168.9	1.983	mg/L		
2	Cr 267.716	44477.6	44778.6	0.4889	mg/L		
2	Cu 324.754	592373.1	589232.7	1.962	mg/L		
2	Fe 273.955	220487.9	219840.1	4.893	mg/L		
2	K 766.491	364192.2	366814.7	15.10	mg/L		
2	Mg 279.079	1047006.0	1041719.1	24.75	mg/L		
2	Mn 257.610	2697890.9	2697081.4	2.026	mg/L		
2	Mo 202.030	36017.3	36074.9	1.957	mg/L		
2	Na 330.237	74444.9	67726.4	96.90	mg/L		
2	Ni 231.604	99084.0	99164.3	1.987	mg/L		
2	Pb 220.353	7962.4	8137.5	0.5117	mg/L		
2	Sb 206.833	8062.5	8073.6	2.021	mg/L		
2	Se 196.026	1692.2	1640.3	0.5229	mg/L		
2	Tl 190.800	2089.0	1883.1	0.5089	mg/L		
2	V 292.402	256352.8	256211.9	1.949	mg/L		
2	Zn 213.856	211578.6	212188.1	1.969	mg/L		
3	Ag 328.068	205575.6	205646.8	1.014	mg/L		
3	Al 308.215	170096.9	166049.7	5.135	mg/L		
3	As 188.979	1556.0	1427.8	0.5000	mg/L		
3	Ba 233.527	2217319.8	2217370.6	5.232	mg/L		
3	Be 313.107	1346466.6	1346684.9	0.5015	mg/L		
3	Ca 227.547	13189.2	12578.0	51.23	mg/L		

3	Cd 228.802	133700.9	133462.6	1.034 mg/L
3	Co 228.616	214587.6	214891.3	2.087 mg/L
3	Cr 267.716	46827.2	47128.2	0.5145 mg/L
3	Cu 324.754	618871.7	615731.3	2.050 mg/L
3	Fe 273.955	231442.2	230794.5	5.136 mg/L
3	K 766.491	365070.6	367693.0	15.13 mg/L
3	Mg 279.079	1101901.6	1096614.6	26.05 mg/L
3	Mn 257.610	2713819.8	2713010.3	2.038 mg/L
3	Mo 202.030	37895.2	37952.8	2.059 mg/L
3	Na 330.237	77906.9	71188.5	101.7 mg/L
3	Ni 231.604	103951.9	104032.3	2.084 mg/L
3	Pb 220.353	7983.2	8158.3	0.5130 mg/L
3	Sb 206.833	8066.0	8077.2	2.021 mg/L
3	Se 196.026	1676.5	1624.6	0.5180 mg/L
3	Tl 190.800	2078.5	1872.7	0.5061 mg/L
3	V 292.402	270945.0	270804.1	2.060 mg/L
3	Zn 213.856	221459.8	222069.3	2.061 mg/L

ean Data ----------

D: CCV 1447B Seq. No.: 32 Sample No.: 5 A/S Pos: 6

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 1:10:17 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	201891.0	0.9957	0.02701	mg/L				2.71%
l 308.215	162977.2	5.040	0.1347	mg/L				2.67%
s 188.979	1421.5	0.4977	0.00198	mg/L				0.40%
a 233.527	2177898.8	5.139	0.1412	mg/L				2.75%
e 313.107	1344889.4	0.5008	0.00128	mg/L				0.26%
a 227.547	12397.2	50.49	1.455	mg/L				2.88%
d 228.802	131042.1	1.015	0.0268	mg/L				2.64%
o 228.616	210820.8	2.047	0.0564	mg/L				2.76%
r 267.716	46276.2	0.5052	0.01421	mg/L				2.81%
u 324.754	606097.6	2.018	0.0488	mg/L				2.42%
e 273.955	226724.9	5.046	0.1334	mg/L				2.64%
766.491	367546.5	15.12	0.025	mg/L				0.17%
g 279.079	1075601.2	25.55	0.704	mg/L				2.75%
n 257.610	2707913.9	2.034	0.0071	mg/L				0.35%
o 202.030	37193.6	2.018	0.0537	mg/L				2.66%
a 330.237	69849.3	99.85	2.581	mg/L				2.59%
i 231.604	102212.8	2.048	0.0532	mg/L				2.60%
o 220.353	8124.5	0.5109	0.00263	mg/L				0.51%
o 206.833	8054.2	2.015	0.0094	mg/L				0.47%
e 196.026	1628.8	0.5193	0.00319	mg/L				0.61%
l 190.800	1867.2	0.5046	0.00521	mg/L				1.03%
292.402	265236.0	2.018	0.0600	mg/L				2.97%
n 213.856	218356.5	2.026	0.0499	mg/L				2.46%

eplicate Data ----------

D: CCB Date: 4/23/03 1:13:48 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-118.9	-47.6	-0.0002	mg/L		
1	Al 308.215	3818.8	-228.4	-0.0071	mg/L		
1	As 188.979	127.0	-1.2	-0.0004	mg/L		
1	Ba 233.527	408.4	459.2	0.0011	mg/L		
1	Be 313.107	146.4	364.7	0.0001	mg/L		
1	Ca 227.547	601.1	-10.1	-0.0413	mg/L		
1	Cd 228.802	261.6	23.3	0.0002	mg/L		
1	Co 228.616	-252.9	50.8	0.0005	mg/L		
1	Cr 267.716	-297.8	3.2	0.0000	mg/L		
1	Cu 324.754	4057.9	917.5	0.0031	mg/L		
1	Fe 273.955	335.8	-312.0	-0.0069	mg/L		
1	K 766.491	-2711.7	-89.3	0.0421	mg/L		
1	Mg 279.079	2714.5	-2572.5	-0.0611	mg/L		
1	Mn 257.610	1721.3	911.9	0.0007	mg/L		
1	Mo 202.030	-22.1	35.5	0.0019	mg/L		
1	Na 330.237	6921.6	203.2	0.2915	mg/L		
1	Ni 231.604	-47.3	33.1	0.0007	mg/L		

1 Pb 220.353	-177.6	-2.5	-0.0002	mg/L
1 Sb 206.833	-5.6	5.6	0.0014	mg/L
1 Se 196.026	53.5	1.7	0.0005	mg/L
1 Tl 190.800	201.3	-4.6	-0.0012	mg/L
1 V 292.402	133.3	-7.6	-0.0001	mg/L
1 Zn 213.856	-649.4	-39.9	-0.0004	mg/L
2 Ag 328.068	89.8	161.0	0.0008	mg/L
2 Al 308.215	3858.6	-188.7	-0.0058	mg/L
2 As 188.979	123.8	-4.4	-0.0015	mg/L
2 Ba 233.527	232.0	282.8	0.0007	mg/L
2 Be 313.107	-92.0	126.3	0.0000	mg/L
2 Ca 227.547	606.2	-5.0	-0.0205	mg/L
2 Cd 228.802	256.2	17.9	0.0001	mg/L
2 Co 228.616	-267.6	36.1	0.0004	mg/L
2 Cr 267.716	-322.5	-21.5	-0.0002	mg/L
2 Cu 324.754	3837.4	697.0	0.0023	mg/L
2 Fe 273.955	303.6	-344.1	-0.0077	mg/L
2 K 766.491	-2157.4	465.1	0.0672	mg/L
2 Mg 279.079	2661.9	-2625.1	-0.0624	mg/L
2 Mn 257.610	1245.5	436.1	0.0003	mg/L
2 Mo 202.030	-35.6	22.0	0.0012	mg/L
2 Na 330.237	6911.8	193.4	0.2771	mg/L
2 Ni 231.604	-76.9	3.5	0.0001	mg/L
2 Pb 220.353	-183.2	-8.0	-0.0005	mg/L
2 Sb 206.833	-6.1	5.1	0.0013	mg/L
2 Se 196.026	57.9	6.0	0.0019	mg/L
2 Tl 190.800	198.4	-7.5	-0.0020	mg/L
2 V 292.402	160.8	19.9	0.0002	mg/L
2 Zn 213.856	-651.2	-41.7	-0.0004	mg/L
3 Ag 328.068	-87.2	-16.0	-0.0001	mg/L
3 Al 308.215	3861.8	-185.4	-0.0057	mg/L
3 As 188.979	133.0	4.8	0.0017	mg/L
3 Ba 233.527	85.2	135.9	0.0003	mg/L
3 Be 313.107	-370.9	-152.6	-0.0001	mg/L
3 Ca 227.547	624.5	13.2	0.0538	mg/L
3 Cd 228.802	214.9	-23.4	-0.0002	mg/L
3 Co 228.616	-287.6	16.1	0.0002	mg/L
3 Cr 267.716	-304.7	-3.7	0.0000	mg/L
3 Cu 324.754	3715.1	574.7	0.0019	mg/L
3 Fe 273.955	238.5	-409.2	-0.0091	mg/L
3 K 766.491	-2266.5	355.9	0.0623	mg/L
3 Mg 279.079	2710.5	-2576.5	-0.0612	mg/L
3 Mn 257.610	932.8	123.3	0.0001	mg/L
3 Mo 202.030	-46.4	11.2	0.0006	mg/L
3 Na 330.237	6939.4	221.0	0.3178	mg/L
3 Ni 231.604	-84.2	-3.8	-0.0001	mg/L
3 Pb 220.353	-185.6	-10.5	-0.0007	mg/L
3 Sb 206.833	-11.2	0.0	0.0000	mg/L
3 Se 196.026	67.1	15.2	0.0048	mg/L
3 Tl 190.800	207.4	1.6	0.0004	mg/L
3 V 292.402	146.8	5.9	0.0000	mg/L
3 Zn 213.856	-658.8	-49.3	-0.0005	mg/L

ean Data ----------

): CCB Seq. No.: 33 Sample No.: 6 A/S Pos: 1

mple Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 1:13:48 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
328.068	32.5	0.0002	0.00055	mg/L				346.30%
308.215	-200.8	-0.0062	0.00074	mg/L				11.92%
188.979	-0.3	-0.0001	0.00162	mg/L				>999.9%
233.527	292.6	0.0007	0.00038	mg/L				55.31%
313.107	112.8	0.0000	0.00010	mg/L				229.53%
227.547	-0.6	-0.0026	0.05001	mg/L				>999.9%
228.802	5.9	0.0000	0.00020	mg/L				430.59%
228.616	34.3	0.0003	0.00017	mg/L				50.78%
267.716	-7.3	-0.0001	0.00014	mg/L				173.50%
324.754	729.7	0.0024	0.00058	mg/L				23.80%

e 273.955	-355.1	-0.0079	0.00110 mg/L	13.96%
766.491	243.9	0.0572	0.01332 mg/L	23.28%
g 279.079	-2591.4	-0.0616	0.00070 mg/L	1.13%
n 257.610	490.4	0.0004	0.00030 mg/L	80.96%
o 202.030	22.9	0.0012	0.00066 mg/L	53.09%
a 330.237	205.8	0.2954	0.02065 mg/L	6.99%
i 231.604	10.9	0.0002	0.00039 mg/L	178.68%
b 220.353	-7.0	-0.0004	0.00026 mg/L	58.45%
b 206.833	3.6	0.0009	0.00077 mg/L	86.24%
e 196.026	7.6	0.0024	0.00220 mg/L	90.59%
l 190.800	-3.5	-0.0009	0.00125 mg/L	132.06%
292.402	6.1	0.0000	0.00010 mg/L	227.02%
n 213.856	-43.6	-0.0004	0.00005 mg/L	11.53%

eplicate Data ----------

D: 2820-6 F=1 Date: 4/23/03 1:17:17 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	319.0	390.3	0.0019	mg/L	0.0019	ppm
1	Al 308.215	5038.3	991.1	0.0306	mg/L	0.0306	ppm
1	As 188.979	141.2	13.0	0.0045	mg/L	0.0045	ppm
1	Ba 233.527	26401.3	26452.0	0.0624	mg/L	0.0624	ppm
1	Be 313.107	-527.5	-309.1	-0.0001	mg/L	-0.0001	ppm
1	Ca 227.547	3476.9	2865.6	11.67	mg/L	11.67	ppm
1	Cd 228.802	247.9	9.6	0.0001	mg/L	0.0001	ppm
1	Co 228.616	-287.1	16.6	0.0002	mg/L	0.0002	ppm
1	Cr 267.716	-87.7	213.3	0.0023	mg/L	0.0023	ppm
1	Cu 324.754	5307.3	2166.9	0.0072	mg/L	0.0072	ppm
1	Fe 273.955	40284.2	39636.5	0.8821	mg/L	0.8821	ppm
1	K 766.491	630741.4	633363.9	24.57	mg/L	24.57	ppm
1	Mg 279.079	696509.4	691222.4	16.42	mg/L	16.42	ppm
1	Mn 257.610	61275.3	60465.8	0.0454	mg/L	0.0454	ppm
1	Mo 202.030	475.3	533.0	0.0289	mg/L	0.0289	ppm
1	Na 330.237	216912.7	210194.3	284.6	mg/L	284.6	ppm
1	Ni 231.604	40.4	120.8	0.0024	mg/L	0.0024	ppm
1	Pb 220.353	-157.5	17.6	0.0011	mg/L	0.0011	ppm
1	Sb 206.833	29.8	41.0	0.0103	mg/L	0.0103	ppm
1	Se 196.026	54.6	2.7	0.0009	mg/L	0.0009	ppm
1	Tl 190.800	219.9	14.0	0.0038	mg/L	0.0038	ppm
1	V 292.402	2673.3	2532.4	0.0193	mg/L	0.0193	ppm
1	Zn 213.856	-61.9	547.6	0.0051	mg/L	0.0051	ppm
2	Ag 328.068	152.3	223.5	0.0011	mg/L	0.0011	ppm
2	Al 308.215	5188.5	1141.3	0.0353	mg/L	0.0353	ppm
2	As 188.979	136.0	7.8	0.0027	mg/L	0.0027	ppm
2	Ba 233.527	26325.0	26375.8	0.0622	mg/L	0.0622	ppm
2	Be 313.107	-550.8	-332.4	-0.0001	mg/L	-0.0001	ppm
2	Ca 227.547	3462.2	2850.9	11.61	mg/L	11.61	ppm
2	Cd 228.802	248.3	10.0	0.0001	mg/L	0.0001	ppm
2	Co 228.616	-311.6	-7.9	-0.0001	mg/L	-0.0001	ppm
2	Cr 267.716	-95.3	205.7	0.0022	mg/L	0.0022	ppm
2	Cu 324.754	5209.0	2068.6	0.0069	mg/L	0.0069	ppm
2	Fe 273.955	40338.6	39690.9	0.8833	mg/L	0.8833	ppm
2	K 766.491	644103.5	646726.0	25.02	mg/L	25.02	ppm
2	Mg 279.079	699321.3	694034.3	16.49	mg/L	16.49	ppm
2	Mn 257.610	61509.1	60699.6	0.0456	mg/L	0.0456	ppm
2	Mo 202.030	471.2	528.8	0.0287	mg/L	0.0287	ppm
2	Na 330.237	218001.0	211282.6	285.9	mg/L	285.9	ppm
2	Ni 231.604	12.8	93.1	0.0019	mg/L	0.0019	ppm
2	Pb 220.353	-172.3	2.8	0.0002	mg/L	0.0002	ppm
2	Sb 206.833	5.2	16.4	0.0041	mg/L	0.0041	ppm
2	Se 196.026	72.9	21.0	0.0067	mg/L	0.0067	ppm
2	Tl 190.800	216.4	10.5	0.0028	mg/L	0.0028	ppm
2	V 292.402	2494.4	2353.5	0.0179	mg/L	0.0179	ppm
2	Zn 213.856	-78.7	530.8	0.0049	mg/L	0.0049	ppm
3	Ag 328.068	209.0	280.3	0.0014	mg/L	0.0014	ppm
3	Al 308.215	5111.9	1064.7	0.0329	mg/L	0.0329	ppm
3	As 188.979	137.6	9.4	0.0032	mg/L	0.0032	ppm
3	Ba 233.527	26093.3	26144.1	0.0617	mg/L	0.0617	ppm

3 Be 313.107	-686.0	-467.7	-0.0002 mg/L	-0.0002 ppm
3 Ca 227.547	3497.8	2886.6	11.76 mg/L	11.76 ppm
3 Cd 228.802	223.2	-15.1	-0.0001 mg/L	-0.0001 ppm
3 Co 228.616	-306.5	-2.8	0.0000 mg/L	0.0000 ppm
3 Cr 267.716	-106.8	194.2	0.0021 mg/L	0.0021 ppm
3 Cu 324.754	5322.8	2182.4	0.0073 mg/L	0.0073 ppm
3 Fe 273.955	39676.7	39029.0	0.8686 mg/L	0.8686 ppm
3 K 766.491	649213.3	651835.8	25.19 mg/L	25.19 ppm
3 Mg 279.079	690931.4	685644.4	16.29 mg/L	16.29 ppm
3 Mn 257.610	60754.0	59944.5	0.0450 mg/L	0.0450 ppm
3 Mo 202.030	466.0	523.6	0.0284 mg/L	0.0284 ppm
3 Na 330.237	216017.4	209299.0	283.5 mg/L	283.5 ppm
3 Ni 231.604	30.0	110.4	0.0022 mg/L	0.0022 ppm
3 Pb 220.353	-153.9	21.2	0.0013 mg/L	0.0013 ppm
3 Sb 206.833	7.4	18.6	0.0047 mg/L	0.0047 ppm
3 Se 196.026	64.6	12.8	0.0041 mg/L	0.0041 ppm
3 Tl 190.800	218.6	12.7	0.0034 mg/L	0.0034 ppm
3 V 292.402	2460.6	2319.7	0.0176 mg/L	0.0176 ppm
3 Zn 213.856	-97.1	512.4	0.0048 mg/L	0.0048 ppm

ean Data ----------

D: 2820-6 F=1 Seq. No.: 34 Sample No.: 19 A/S Pos: 28

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 1:17:17 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	298.0	0.0015	0.00042	mg/L	0.0015	0.00042	ppm	28.45%
l 308.215	1065.7	0.0330	0.00232	mg/L	0.0330	0.00232	ppm	7.05%
s 188.979	10.0	0.0035	0.00092	mg/L	0.0035	0.00092	ppm	26.57%
a 233.527	26324.0	0.0621	0.00038	mg/L	0.0621	0.00038	ppm	0.61%
e 313.107	-369.7	-0.0001	0.00003	mg/L	-0.0001	0.00003	ppm	23.16%
a 227.547	2867.7	11.68	0.073	mg/L	11.68	0.073	ppm	0.63%
d 228.802	1.5	0.0000	0.00011	mg/L	0.0000	0.00011	ppm	958.07%
o 228.616	2.0	0.0000	0.00013	mg/L	0.0000	0.00013	ppm	654.61%
r 267.716	204.4	0.0022	0.00010	mg/L	0.0022	0.00010	ppm	4.70%
u 324.754	2139.3	0.0071	0.00021	mg/L	0.0071	0.00021	ppm	2.89%
e 273.955	39452.1	0.8780	0.00818	mg/L	0.8780	0.00818	ppm	0.93%
766.491	643975.2	24.92	0.321	mg/L	24.92	0.321	ppm	1.29%
g 279.079	690300.4	16.40	0.101	mg/L	16.40	0.101	ppm	0.62%
n 257.610	60370.0	0.0454	0.00029	mg/L	0.0454	0.00029	ppm	0.64%
o 202.030	528.5	0.0287	0.00025	mg/L	0.0287	0.00025	ppm	0.89%
a 330.237	210258.6	284.7	1.24	mg/L	284.7	1.24	ppm	0.44%
i 231.604	108.1	0.0022	0.00028	mg/L	0.0022	0.00028	ppm	12.91%
b 220.353	13.9	0.0009	0.00061	mg/L	0.0009	0.00061	ppm	70.13%
b 206.833	25.3	0.0064	0.00342	mg/L	0.0064	0.00342	ppm	53.65%
e 196.026	12.2	0.0039	0.00291	mg/L	0.0039	0.00291	ppm	75.05%
l 190.800	12.4	0.0034	0.00047	mg/L	0.0034	0.00047	ppm	14.12%
292.402	2401.9	0.0183	0.00087	mg/L	0.0183	0.00087	ppm	4.76%
n 213.856	530.3	0.0049	0.00016	mg/L	0.0049	0.00016	ppm	3.32%

eplicate Data ----------

D: 2820-9 F=1 Date: 4/23/03 1:20:51 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-296.0	-224.8	-0.0011	mg/L	-0.0011	ppm
1 Al 308.215	8894.3	4847.1	0.1499	mg/L	0.1499	ppm
1 As 188.979	132.6	4.4	0.0015	mg/L	0.0015	ppm
1 Ba 233.527	30497.9	30548.6	0.0721	mg/L	0.0721	ppm
1 Be 313.107	-670.2	-451.9	-0.0002	mg/L	-0.0002	ppm
1 Ca 227.547	5301.5	4690.3	19.10	mg/L	19.10	ppm
1 Cd 228.802	238.1	-0.2	0.0000	mg/L	0.0000	ppm
1 Co 228.616	-297.9	5.8	0.0001	mg/L	0.0001	ppm
1 Cr 267.716	-129.3	171.7	0.0019	mg/L	0.0019	ppm
1 Cu 324.754	3320.5	180.1	0.0006	mg/L	0.0006	ppm
1 Fe 273.955	29915.0	29267.2	0.6514	mg/L	0.6514	ppm
1 K 766.491	Saturated					
1 Mg 279.079	1529312.4	1524025.5	36.21	mg/L	36.21	ppm
1 Mn 257.610	110551.0	109741.5	0.0824	mg/L	0.0824	ppm
1 Mo 202.030	367.5	425.2	0.0231	mg/L	0.0231	ppm

1 Na 330.237	512115.5	505397.1	623.7 mg/L	623.7 ppm
1 Ni 231.604	64.0	144.4	0.0029 mg/L	0.0029 ppm
1 Pb 220.353	-163.9	11.2	0.0007 mg/L	0.0007 ppm
1 Sb 206.833	1.7	12.9	0.0033 mg/L	0.0033 ppm
1 Se 196.026	67.3	15.5	0.0049 mg/L	0.0049 ppm
1 Tl 190.800	222.1	16.2	0.0044 mg/L	0.0044 ppm
1 V 292.402	1820.2	1679.3	0.0128 mg/L	0.0128 ppm
1 Zn 213.856	-353.6	255.9	0.0024 mg/L	0.0024 ppm
2 Ag 328.068	-46.8	24.5	0.0001 mg/L	0.0001 ppm
2 Al 308.215	9129.1	5081.9	0.1572 mg/L	0.1572 ppm
2 As 188.979	131.4	3.2	0.0011 mg/L	0.0011 ppm
2 Ba 233.527	28672.2	28723.0	0.0678 mg/L	0.0678 ppm
2 Be 313.107	-681.8	-463.4	-0.0002 mg/L	-0.0002 ppm
2 Ca 227.547	5365.2	4754.0	19.36 mg/L	19.36 ppm
2 Cd 228.802	246.5	8.2	0.0001 mg/L	0.0001 ppm
2 Co 228.616	-275.6	28.1	0.0003 mg/L	0.0003 ppm
2 Cr 267.716	-134.1	166.9	0.0018 mg/L	0.0018 ppm
2 Cu 324.754	3547.5	407.1	0.0014 mg/L	0.0014 ppm
2 Fe 273.955	32387.6	31739.9	0.7064 mg/L	0.7064 ppm
2 K 766.491	Saturated			
2 Mg 279.079	1446169.3	1440882.3	34.23 mg/L	34.23 ppm
2 Mn 257.610	108997.1	108187.6	0.0813 mg/L	0.0813 ppm
2 Mo 202.030	363.8	421.4	0.0229 mg/L	0.0229 ppm
2 Na 330.237	481241.0	474522.6	590.7 mg/L	590.7 ppm
2 Ni 231.604	64.3	144.6	0.0029 mg/L	0.0029 ppm
2 Pb 220.353	-173.2	2.0	0.0001 mg/L	0.0001 ppm
2 Sb 206.833	-2.3	8.9	0.0022 mg/L	0.0022 ppm
2 Se 196.026	76.5	24.7	0.0078 mg/L	0.0078 ppm
2 Tl 190.800	219.9	14.1	0.0038 mg/L	0.0038 ppm
2 V 292.402	1716.0	1575.1	0.0120 mg/L	0.0120 ppm
2 Zn 213.856	-358.9	250.5	0.0023 mg/L	0.0023 ppm
3 Ag 328.068	-75.8	-4.5	0.0000 mg/L	0.0000 ppm
3 Al 308.215	8770.6	4723.4	0.1461 mg/L	0.1461 ppm
3 As 188.979	140.4	12.2	0.0042 mg/L	0.0042 ppm
3 Ba 233.527	28787.3	28838.1	0.0680 mg/L	0.0680 ppm
3 Be 313.107	-594.6	-376.3	-0.0001 mg/L	-0.0001 ppm
3 Ca 227.547	5297.3	4686.0	19.09 mg/L	19.09 ppm
3 Cd 228.802	247.3	9.0	0.0001 mg/L	0.0001 ppm
3 Co 228.616	-294.8	8.8	0.0001 mg/L	0.0001 ppm
3 Cr 267.716	-114.5	186.5	0.0020 mg/L	0.0020 ppm
3 Cu 324.754	3593.3	452.9	0.0015 mg/L	0.0015 ppm
3 Fe 273.955	27474.5	26826.8	0.5970 mg/L	0.5970 ppm
3 K 766.491	Saturated			
3 Mg 279.079	1464571.7	1459284.7	34.67 mg/L	34.67 ppm
3 Mn 257.610	105031.6	104222.1	0.0783 mg/L	0.0783 ppm
3 Mo 202.030	365.8	423.4	0.0230 mg/L	0.0230 ppm
3 Na 330.237	488654.6	481936.2	598.6 mg/L	598.6 ppm
3 Ni 231.604	58.8	139.2	0.0028 mg/L	0.0028 ppm
3 Pb 220.353	-192.4	-17.2	-0.0011 mg/L	-0.0011 ppm
3 Sb 206.833	-22.3	-11.1	-0.0028 mg/L	-0.0028 ppm
3 Se 196.026	57.5	5.6	0.0018 mg/L	0.0018 ppm
3 Tl 190.800	222.1	16.2	0.0044 mg/L	0.0044 ppm
3 V 292.402	1778.0	1637.1	0.0125 mg/L	0.0125 ppm
3 Zn 213.856	-357.9	251.6	0.0023 mg/L	0.0023 ppm

ean Data

): 2820-9 F=1 Seq. No.: 35 Sample No.: 20 A/S Pos: 29

mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 1:20:51 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
328.068	-68.3	-0.0003	0.00067	mg/L	-0.0003	0.00067	ppm	199.65%
308.215	4884.1	0.1510	0.00563	mg/L	0.1510	0.00563	ppm	3.73%
188.979	6.6	0.0023	0.00169	mg/L	0.0023	0.00169	ppm	73.69%
233.527	29369.9	0.0693	0.00241	mg/L	0.0693	0.00241	ppm	3.48%
313.107	-430.5	-0.0002	0.00002	mg/L	-0.0002	0.00002	ppm	11.00%
227.547	4710.1	19.18	0.155	mg/L	19.18	0.155	ppm	0.81%
228.802	5.7	0.0000	0.00004	mg/L	0.0000	0.00004	ppm	90.67%
228.616	14.2	0.0001	0.00012	mg/L	0.0001	0.00012	ppm	84.92%

r 267.716	175.0	0.0019	0.00011 mg/L	0.0019	0.00011 ppm	5.83%
u 324.754	346.7	0.0012	0.00049 mg/L	0.0012	0.00049 ppm	42.13%
e 273.955	29278.0	0.6516	0.05467 mg/L	0.6516	0.05467 ppm	8.39%
766.491	Saturated					
g 279.079	1474730.9	35.03	1.037 mg/L	35.03	1.037 ppm	2.96%
n 257.610	107383.7	0.0807	0.00214 mg/L	0.0807	0.00214 ppm	2.65%
o 202.030	423.3	0.0230	0.00010 mg/L	0.0230	0.00010 ppm	0.44%
a 330.237	487285.3	604.3	17.22 mg/L	604.3	17.22 ppm	2.85%
i 231.604	142.8	0.0029	0.00006 mg/L	0.0029	0.00006 ppm	2.15%
b 220.353	-1.3	-0.0001	0.00091 mg/L	-0.0001	0.00091 ppm	>999.9%
b 206.833	3.6	0.0009	0.00324 mg/L	0.0009	0.00324 ppm	360.71%
e 196.026	15.3	0.0049	0.00303 mg/L	0.0049	0.00303 ppm	62.38%
l 190.800	15.5	0.0042	0.00033 mg/L	0.0042	0.00033 ppm	7.93%
292.402	1630.5	0.0124	0.00040 mg/L	0.0124	0.00040 ppm	3.22%
n 213.856	252.7	0.0023	0.00003 mg/L	0.0023	0.00003 ppm	1.12%

alibration Summary

ethod: 23ME ICP-M Date: 4/23/03 1:25:12 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	202761.6	0.00000	0.999942
l 308.215	3	Linear-thru-Zero	0.0	32338.0	0.00000	0.999862
s 188.979	3	Linear-thru-Zero	0.0	2888.4	0.00000	0.999757
a 233.527	3	Linear-thru-Zero	0.0	423784.1	0.00000	0.999473
e 313.107	3	Linear-thru-Zero	0.0	2685329.9	0.00000	0.999950
a 227.547	3	Linear-thru-Zero	0.0	245.5	0.00000	0.999922
d 228.802	3	Linear-thru-Zero	0.0	129120.3	0.00000	0.999828
o 228.616	3	Linear-thru-Zero	0.0	102978.0	0.00000	0.999552
r 267.716	3	Linear-thru-Zero	0.0	91592.9	0.00000	0.999623
u 324.754	3	Linear-thru-Zero	0.0	300295.6	0.00000	0.999782
e 273.955	3	Linear-thru-Zero	0.0	44932.6	0.00000	0.998106
766.491	3	Non-Linear	-1017.1	22038.8	154.06843	0.998652
g 279.079	3	Linear-thru-Zero	0.0	42093.4	0.00000	0.999596
n 257.610	3	Linear-thru-Zero	0.0	1331037.4	0.00000	0.999760
o 202.030	3	Linear-thru-Zero	0.0	18433.2	0.00000	0.999852
a 330.237	3	Non-Linear	5.4	678.4	0.21158	0.999846
i 231.604	3	Linear-thru-Zero	0.0	49912.8	0.00000	0.999403
o 220.353	3	Linear-thru-Zero	0.0	15903.3	0.00000	0.999856
o 206.833	3	Linear-thru-Zero	0.0	3967.7	0.00000	0.999819
e 196.026	3	Linear-thru-Zero	0.0	3144.1	0.00000	0.999666
l 190.800	3	Linear-thru-Zero	0.0	3700.4	0.00000	0.999381
292.402	3	Linear-thru-Zero	0.0	131430.3	0.00000	0.999694
n 213.856	3	Linear-thru-Zero	0.0	107770.3	0.00000	0.999875

eplicate Data

D: 2820-9 F=10 Date: 4/23/03 1:26:30 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-233.0	-161.7	-0.0008	mg/L	-0.0080	ppm
1	Al 308.215	4418.3	371.0	0.0115	mg/L	0.1147	ppm
1	As 188.979	123.4	-4.8	-0.0017	mg/L	-0.0166	ppm
1	Ba 233.527	2872.3	2923.1	0.0069	mg/L	0.0690	ppm
1	Be 313.107	-547.9	-329.5	-0.0001	mg/L	-0.0012	ppm
1	Ca 227.547	1113.2	501.9	2.044	mg/L	20.44	ppm
1	Cd 228.802	190.7	-47.6	-0.0004	mg/L	-0.0037	ppm
1	Co 228.616	-299.7	4.0	0.0000	mg/L	0.0004	ppm
1	Cr 267.716	-285.2	15.8	0.0002	mg/L	0.0017	ppm
1	Cu 324.754	2977.1	-163.3	-0.0005	mg/L	-0.0054	ppm
1	Fe 273.955	3251.7	2603.9	0.0580	mg/L	0.5795	ppm
1	K 766.491	86176.1	88798.5	3.965	mg/L	39.65	ppm
1	Mg 279.079	168720.7	163433.7	3.883	mg/L	38.83	ppm
1	Mn 257.610	12001.2	11191.7	0.0084	mg/L	0.0841	ppm
1	Mo 202.030	-15.8	41.8	0.0023	mg/L	0.0227	ppm
1	Na 330.237	51058.7	44340.2	64.07	mg/L	640.7	ppm
1	Ni 231.604	-107.1	-26.7	-0.0005	mg/L	-0.0054	ppm
1	Pb 220.353	-190.8	-15.6	-0.0010	mg/L	-0.0098	ppm
1	Sb 206.833	-4.9	6.3	0.0016	mg/L	0.0159	ppm
1	Se 196.026	47.6	-4.2	-0.0013	mg/L	-0.0134	ppm

1	Tl 190.800	201.4	-4.4	-0.0012 mg/L	-0.0119 ppm
1	V 292.402	191.2	50.3	0.0004 mg/L	0.0038 ppm
1	Zn 213.856	-677.6	-68.2	-0.0006 mg/L	-0.0063 ppm
2	Ag 328.068	-193.7	-122.4	-0.0006 mg/L	-0.0060 ppm
2	Al 308.215	4356.6	309.4	0.0096 mg/L	0.0957 ppm
2	As 188.979	126.7	-1.5	-0.0005 mg/L	-0.0050 ppm
2	Ba 233.527	2846.9	2897.6	0.0068 mg/L	0.0684 ppm
2	Be 313.107	-637.0	-418.6	-0.0002 mg/L	-0.0016 ppm
2	Ca 227.547	1114.6	503.3	2.050 mg/L	20.50 ppm
2	Cd 228.802	192.2	-46.1	-0.0004 mg/L	-0.0036 ppm
2	Co 228.616	-321.3	-17.6	-0.0002 mg/L	-0.0017 ppm
2	Cr 267.716	-297.2	3.8	0.0000 mg/L	0.0004 ppm
2	Cu 324.754	3068.8	-71.6	-0.0002 mg/L	-0.0024 ppm
2	Fe 273.955	3142.4	2494.7	0.0555 mg/L	0.5552 ppm
2	K 766.491	85592.7	88215.2	3.940 mg/L	39.40 ppm
2	Mg 279.079	164715.9	159428.9	3.788 mg/L	37.88 ppm
2	Mn 257.610	11647.9	10838.4	0.0081 mg/L	0.0814 ppm
2	Mo 202.030	-28.4	29.2	0.0016 mg/L	0.0158 ppm
2	Na 330.237	49705.9	42987.4	62.15 mg/L	621.5 ppm
2	Ni 231.604	-93.5	-13.1	-0.0003 mg/L	-0.0026 ppm
2	Pb 220.353	-174.1	1.1	0.0001 mg/L	0.0007 ppm
2	Sb 206.833	-14.4	-3.2	-0.0008 mg/L	-0.0082 ppm
2	Se 196.026	61.4	9.5	0.0030 mg/L	0.0304 ppm
2	Tl 190.800	208.9	3.1	0.0008 mg/L	0.0083 ppm
2	V 292.402	347.1	206.2	0.0016 mg/L	0.0157 ppm
2	Zn 213.856	-684.4	-74.9	-0.0007 mg/L	-0.0070 ppm
3	Ag 328.068	-59.9	11.4	0.0001 mg/L	0.0006 ppm
3	Al 308.215	4449.4	402.2	0.0124 mg/L	0.1244 ppm
3	As 188.979	128.1	-0.1	0.0000 mg/L	-0.0002 ppm
3	Ba 233.527	2834.3	2885.1	0.0068 mg/L	0.0681 ppm
3	Be 313.107	-797.6	-579.3	-0.0002 mg/L	-0.0022 ppm
3	Ca 227.547	1118.2	506.9	2.065 mg/L	20.65 ppm
3	Cd 228.802	196.8	-41.5	-0.0003 mg/L	-0.0032 ppm
3	Co 228.616	-324.1	-20.4	-0.0002 mg/L	-0.0020 ppm
3	Cr 267.716	-295.2	5.8	0.0001 mg/L	0.0006 ppm
3	Cu 324.754	3248.8	108.4	0.0004 mg/L	0.0036 ppm
3	Fe 273.955	3053.5	2405.7	0.0535 mg/L	0.5354 ppm
3	K 766.491	88097.0	90719.4	4.048 mg/L	40.48 ppm
3	Mg 279.079	168391.2	163104.2	3.875 mg/L	38.75 ppm
3	Mn 257.610	11753.7	10944.2	0.0082 mg/L	0.0822 ppm
3	Mo 202.030	-15.5	42.1	0.0023 mg/L	0.0228 ppm
3	Na 330.237	51107.5	44389.1	64.14 mg/L	641.4 ppm
3	Ni 231.604	-88.7	-8.3	-0.0002 mg/L	-0.0017 ppm
3	Pb 220.353	-175.0	0.2	0.0000 mg/L	0.0001 ppm
3	Sb 206.833	2.4	13.6	0.0034 mg/L	0.0342 ppm
3	Se 196.026	55.3	3.5	0.0011 mg/L	0.0110 ppm
3	Tl 190.800	201.2	-4.6	-0.0013 mg/L	-0.0126 ppm
3	V 292.402	150.9	10.0	0.0001 mg/L	0.0008 ppm
3	Zn 213.856	-679.8	-70.3	-0.0007 mg/L	-0.0065 ppm

ean Data ----------

D: 2820-9 F=10 Seq. No.: 36 Sample No.: 1 A/S Pos: 29
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 10.0
Data: Original Date: 4/23/03 1:26:30 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Sample Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-90.9	-0.0004	0.00045	mg/L	-0.0045	0.00448	ppm	99.82%
l 308.215	360.9	0.0112	0.00146	mg/L	0.1116	0.01460	ppm	13.09%
s 188.979	-2.1	-0.0007	0.00084	mg/L	-0.0073	0.00839	ppm	115.43%
a 233.527	2901.9	0.0068	0.00005	mg/L	0.0685	0.00046	ppm	0.67%
e 313.107	-442.5	-0.0002	0.00005	mg/L	-0.0016	0.00047	ppm	28.61%
a 227.547	504.1	2.053	0.0105	mg/L	20.53	0.105	ppm	0.51%
d 228.802	-45.1	-0.0003	0.00002	mg/L	-0.0035	0.00025	ppm	7.08%
o 228.616	-11.3	-0.0001	0.00013	mg/L	-0.0011	0.00130	ppm	118.11%
r 267.716	8.4	0.0001	0.00007	mg/L	0.0009	0.00070	ppm	76.25%
u 324.754	-42.2	-0.0001	0.00046	mg/L	-0.0014	0.00460	ppm	327.85%
e 273.955	2501.4	0.0557	0.00221	mg/L	0.5567	0.02209	ppm	3.97%
766.491	89244.4	3.985	0.0563	mg/L	39.85	0.563	ppm	1.41%
g 279.079	161988.9	3.848	0.0528	mg/L	38.48	0.528	ppm	1.37%

n 257.610	10991.4	0.0083	0.00014 mg/L	0.0826	0.00136 ppm	1.65%
o 202.030	37.7	0.0020	0.00040 mg/L	0.0205	0.00400 ppm	19.56%
a 330.237	43905.6	63.46	1.128 mg/L	634.6	11.28 ppm	1.78%
i 231.604	-16.1	-0.0003	0.00019 mg/L	-0.0032	0.00191 ppm	59.44%
b 220.353	-4.8	-0.0003	0.00059 mg/L	-0.0030	0.00591 ppm	196:33%
b 206.833	5.5	0.0014	0.00212 mg/L	0.0140	0.02125 ppm	152.01%
e 196.026	2.9	0.0009	0.00219 mg/L	0.0093	0.02193 ppm	235.75%
l 190.800	-2.0	-0.0005	0.00119 mg/L	-0.0054	0.01185 ppm	218.90%
292.402	88.8	0.0007	0.00079 mg/L	0.0068	0.00788 ppm	116.62%
n 213.856	-71.1	-0.0007	0.00003 mg/L	-0.0066	0.00032 ppm	4.86%

eplicate Data ----------

D: 2805-19 F=1 Date: 4/23/03 1:30:00 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	65.0	136.2	0.0007	mg/L	0.0007	ppm
1	Al 308.215	5382.2	1335.0	0.0413	mg/L	0.0413	ppm
1	As 188.979	141.5	13.3	0.0046	mg/L	0.0046	ppm
1	Ba 233.527	22530.6	22581.4	0.0533	mg/L	0.0533	ppm
1	Be 313.107	-571.1	-352.7	-0.0001	mg/L	-0.0001	ppm
1	Ca 227.547	4980.6	4369.3	17.80	mg/L	17.80	ppm
1	Cd 228.802	227.7	-10.6	-0.0001	mg/L	-0.0001	ppm
1	Co 228.616	-265.2	38.5	0.0004	mg/L	0.0004	ppm
1	Cr 267.716	-84.9	216.0	0.0024	mg/L	0.0024	ppm
1	Cu 324.754	3542.9	402.5	0.0013	mg/L	0.0013	ppm
1	Fe 273.955	69869.1	69221.4	1.541	mg/L	1.541	ppm
1	K 766.491	Saturated					
1	Mg 279.079	1828139.7	1822852.8	43.30	mg/L	43.30	ppm
1	Mn 257.610	156339.3	155529.8	0.1168	mg/L	0.1168	ppm
1	Mo 202.030	604.9	662.6	0.0359	mg/L	0.0359	ppm
1	Na 330.237	972760.5	966042.1	1068	mg/L	1068	ppm
1	Ni 231.604	187.6	268.0	0.0054	mg/L	0.0054	ppm
1	Pb 220.353	-175.7	-0.6	0.0000	mg/L	0.0000	ppm
1	Sb 206.833	9.8	21.0	0.0053	mg/L	0.0053	ppm
1	Se 196.026	68.2	16.4	0.0052	mg/L	0.0052	ppm
1	Tl 190.800	226.6	20.7	0.0056	mg/L	0.0056	ppm
1	V 292.402	1880.4	1739.5	0.0132	mg/L	0.0132	ppm
1	Zn 213.856	78.2	687.7	0.0064	mg/L	0.0064	ppm
2	Ag 328.068	9.2	80.5	0.0004	mg/L	0.0004	ppm
2	Al 308.215	5432.1	1384.9	0.0428	mg/L	0.0428	ppm
2	As 188.979	125.8	-2.4	-0.0008	mg/L	-0.0008	ppm
2	Ba 233.527	21698.8	21749.5	0.0513	mg/L	0.0513	ppm
2	Be 313.107	-733.9	-515.5	-0.0002	mg/L	-0.0002	ppm
2	Ca 227.547	5028.0	4416.8	17.99	mg/L	17.99	ppm
2	Cd 228.802	229.1	-9.2	-0.0001	mg/L	-0.0001	ppm
2	Co 228.616	-262.4	41.3	0.0004	mg/L	0.0004	ppm
2	Cr 267.716	-86.1	214.9	0.0023	mg/L	0.0023	ppm
2	Cu 324.754	3536.3	395.9	0.0013	mg/L	0.0013	ppm
2	Fe 273.955	67519.2	66871.4	1.488	mg/L	1.488	ppm
2	K 766.491	Saturated					
2	Mg 279.079	1767827.0	1762540.0	41.87	mg/L	41.87	ppm
2	Mn 257.610	150902.1	150092.6	0.1128	mg/L	0.1128	ppm
2	Mo 202.030	609.1	666.8	0.0362	mg/L	0.0362	ppm
2	Na 330.237	940249.1	933530.7	1039	mg/L	1039	ppm
2	Ni 231.604	163.6	243.9	0.0049	mg/L	0.0049	ppm
2	Pb 220.353	-184.0	-8.8	-0.0006	mg/L	-0.0006	ppm
2	Sb 206.833	10.0	21.2	0.0053	mg/L	0.0053	ppm
2	Se 196.026	53.7	1.8	0.0006	mg/L	0.0006	ppm
2	Tl 190.800	217.6	11.8	0.0032	mg/L	0.0032	ppm
2	V 292.402	1798.5	1657.6	0.0126	mg/L	0.0126	ppm
2	Zn 213.856	88.4	697.8	0.0065	mg/L	0.0065	ppm
3	Ag 328.068	77.2	148.5	0.0007	mg/L	0.0007	ppm
3	Al 308.215	5201.7	1154.5	0.0357	mg/L	0.0357	ppm
3	As 188.979	128.5	0.3	0.0001	mg/L	0.0001	ppm
3	Ba 233.527	21784.9	21835.7	0.0515	mg/L	0.0515	ppm
3	Be 313.107	-727.0	-508.7	-0.0002	mg/L	-0.0002	ppm
3	Ca 227.547	5007.3	4396.0	17.90	mg/L	17.90	ppm
3	Cd 228.802	247.6	9.3	0.0001	mg/L	0.0001	ppm

3 Co 228.616	-266.8	36.9	0.0004 mg/L	0.0004 ppm
3 Cr 267.716	-93.5	207.5	0.0023 mg/L	0.0023 ppm
3 Cu 324.754	3454.9	314.5	0.0010 mg/L	0.0010 ppm
3 Fe 273.955	68091.6	67443.8	1.501 mg/L	1.501 ppm
3 K 766.491	Saturated			
3 Mg 279.079	1785522.5	1780235.5	42.29 mg/L	42.29 ppm
3 Mn 257.610	152545.5	151736.0	0.1140 mg/L	0.1140 ppm
3 Mo 202.030	618.7	676.3	0.0367 mg/L	0.0367 ppm
3 Na 330.237	949249.0	942530.6	1047 mg/L	1047 ppm
3 Ni 231.604	180.2	260.6	0.0052 mg/L	0.0052 ppm
3 Pb 220.353	-167.7	7.4	0.0005 mg/L	0.0005 ppm
3 Sb 206.833	16.0	27.2	0.0069 mg/L	0.0069 ppm
3 Se 196.026	52.8	0.9	0.0003 mg/L	0.0003 ppm
3 Tl 190.800	236.7	30.9	0.0083 mg/L	0.0083 ppm
3 V 292.402	1684.9	1544.0	0.0117 mg/L	0.0117 ppm
3 Zn 213.856	114.9	724.4	0.0067 mg/L	0.0067 ppm

ean Data ----------

D: 2805-19 F=1 Seq. No.: 37 Sample No.: 21 A/S Pos: 30
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 1:30:00 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	121.7	0.0006	0.00018	mg/L	0.0006	0.00018	ppm	29.77%
l 308.215	1291.4	0.0399	0.00375	mg/L	0.0399	0.00375	ppm	9.39%
s 188.979	3.7	0.0013	0.00290	mg/L	0.0013	0.00290	ppm	224.37%
a 233.527	22055.5	0.0520	0.00108	mg/L	0.0520	0.00108	ppm	2.07%
e 313.107	-459.0	-0.0002	0.00003	mg/L	-0.0002	0.00003	ppm	20.06%
a 227.547	4394.0	17.90	0.097	mg/L	17.90	0.097	ppm	0.54%
d 228.802	-3.5	0.0000	0.00009	mg/L	0.0000	0.00009	ppm	318.21%
o 228.616	38.9	0.0004	0.00002	mg/L	0.0004	0.00002	ppm	5.72%
r 267.716	212.8	0.0023	0.00005	mg/L	0.0023	0.00005	ppm	2.17%
u 324.754	371.0	0.0012	0.00016	mg/L	0.0012	0.00016	ppm	13.21%
e 273.955	67845.5	1.510	0.0273	mg/L	1.510	0.0273	ppm	1.81%
766.491	Saturated							
g 279.079	1788542.8	42.49	0.737	mg/L	42.49	0.737	ppm	1.73%
n 257.610	152452.8	0.1145	0.00210	mg/L	0.1145	0.00210	ppm	1.83%
o 202.030	668.6	0.0363	0.00038	mg/L	0.0363	0.00038	ppm	1.05%
a 330.237	947367.8	1052	14.9	mg/L	1052	14.9	ppm	1.42%
i 231.604	257.5	0.0052	0.00025	mg/L	0.0052	0.00025	ppm	4.79%
b 220.353	-0.6	0.0000	0.00051	mg/L	0.0000	0.00051	ppm	>999.9%
b 206.833	23.1	0.0058	0.00090	mg/L	0.0058	0.00090	ppm	15.41%
e 196.026	6.4	0.0020	0.00276	mg/L	0.0020	0.00276	ppm	136.52%
l 190.800	21.1	0.0057	0.00259	mg/L	0.0057	0.00259	ppm	45.28%
292.402	1647.0	0.0125	0.00075	mg/L	0.0125	0.00075	ppm	5.96%
n 213.856	703.3	0.0065	0.00018	mg/L	0.0065	0.00018	ppm	2.70%

alibration Summary ----------

ethod: 23ME ICP-M Date: 4/23/03 1:32:15 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	202761.6	0.00000	0.999942
l 308.215	3	Linear-thru-Zero	0.0	32338.0	0.00000	0.999862
s 188.979	3	Linear-thru-Zero	0.0	2888.4	0.00000	0.999757
a 233.527	3	Linear-thru-Zero	0.0	423784.1	0.00000	0.999473
e 313.107	3	Linear-thru-Zero	0.0	2685329.9	0.00000	0.999950
a 227.547	3	Linear-thru-Zero	0.0	245.5	0.00000	0.999922
d 228.802	3	Linear-thru-Zero	0.0	129120.3	0.00000	0.999828
o 228.616	3	Linear-thru-Zero	0.0	102978.0	0.00000	0.999552
r 267.716	3	Linear-thru-Zero	0.0	91592.9	0.00000	0.999623
u 324.754	3	Linear-thru-Zero	0.0	300295.6	0.00000	0.999782
e 273.955	3	Linear-thru-Zero	0.0	44932.6	0.00000	0.998106
766.491	3	Non-Linear	-1017.1	22038.8	154.06843	0.998652
g 279.079	3	Linear-thru-Zero	0.0	42093.4	0.00000	0.999596
n 257.610	3	Linear-thru-Zero	0.0	1331037.4	0.00000	0.999760
o 202.030	3	Linear-thru-Zero	0.0	18433.2	0.00000	0.999852
a 330.237	3	Non-Linear	5.4	678.4	0.21158	0.999846
i 231.604	3	Linear-thru-Zero	0.0	49912.8	0.00000	0.999403
b 220.353	3	Linear-thru-Zero	0.0	15903.3	0.00000	0.999856

:b 206.833	3	Linear-thru-Zero	0.0	3967.7	0.00000	0.999819
:e 196.026	3	Linear-thru-Zero	0.0	3144.1	0.00000	0.999666
'l 190.800	3	Linear-thru-Zero	0.0	3700.4	0.00000	0.999381
' 292.402	3	Linear-thru-Zero	0.0	131430.3	0.00000	0.999694
:n 213.856	3	Linear-thru-Zero	0.0	107770.3	0.00000	0.999875

eplicate Data

D: 2805-19 F=10 Date: 4/23/03 1:33:37 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	155.9	227.1	0.0011	mg/L	0.0112	ppm
1	Al 308.215	4036.0	-11.2	-0.0003	mg/L	-0.0035	ppm
1	As 188.979	127.4	-0.8	-0.0003	mg/L	-0.0028	ppm
1	Ba 233.527	2095.1	2145.9	0.0051	mg/L	0.0506	ppm
1	Be 313.107	-547.3	-328.9	-0.0001	mg/L	-0.0012	ppm
1	Ca 227.547	1086.2	475.0	1.934	mg/L	19.34	ppm
1	Cd 228.802	210.0	-28.3	-0.0002	mg/L	-0.0022	ppm
1	Co 228.616	-325.4	-21.7	-0.0002	mg/L	-0.0021	ppm
1	Cr 267.716	-284.5	16.5	0.0002	mg/L	0.0018	ppm
1	Cu 324.754	3001.9	-138.5	-0.0005	mg/L	-0.0046	ppm
1	Fe 273.955	7700.0	7052.2	0.1570	mg/L	1.570	ppm
1	K 766.491	135425.8	138048.3	6.054	mg/L	60.54	ppm
1	Mg 279.079	204594.2	199307.2	4.735	mg/L	47.35	ppm
1	Mn 257.610	17420.9	16611.5	0.0125	mg/L	0.1248	ppm
1	Mo 202.030	1.4	59.0	0.0032	mg/L	0.0320	ppm
1	Na 330.237	93235.2	86516.7	122.8	mg/L	1228	ppm
1	Ni 231.604	-102.0	-21.6	-0.0004	mg/L	-0.0043	ppm
1	Pb 220.353	-177.4	-2.2	-0.0001	mg/L	-0.0014	ppm
1	Sb 206.833	-5.0	6.2	0.0016	mg/L	0.0156	ppm
1	Se 196.026	66.5	14.7	0.0047	mg/L	0.0467	ppm
1	Tl 190.800	209.0	3.1	0.0008	mg/L	0.0084	ppm
1	V 292.402	299.7	158.8	0.0012	mg/L	0.0121	ppm
1	Zn 213.856	-580.0	29.5	0.0003	mg/L	0.0027	ppm
2	Ag 328.068	-99.4	-28.1	-0.0001	mg/L	-0.0014	ppm
2	Al 308.215	4070.1	22.9	0.0007	mg/L	0.0071	ppm
2	As 188.979	135.8	7.6	0.0026	mg/L	0.0263	ppm
2	Ba 233.527	2073.6	2124.3	0.0050	mg/L	0.0501	ppm
2	Be 313.107	-772.8	-554.5	-0.0002	mg/L	-0.0021	ppm
2	Ca 227.547	1096.9	485.6	1.978	mg/L	19.78	ppm
2	Cd 228.802	211.8	-26.5	-0.0002	mg/L	-0.0021	ppm
2	Co 228.616	-309.3	-5.6	-0.0001	mg/L	-0.0005	ppm
2	Cr 267.716	-290.0	11.0	0.0001	mg/L	0.0012	ppm
2	Cu 324.754	3111.6	-28.8	-0.0001	mg/L	-0.0010	ppm
2	Fe 273.955	7864.3	7216.5	0.1606	mg/L	1.606	ppm
2	K 766.491	137023.8	139646.3	6.121	mg/L	61.21	ppm
2	Mg 279.079	203363.9	198077.0	4.706	mg/L	47.06	ppm
2	Mn 257.610	17294.8	16485.3	0.0124	mg/L	0.1239	ppm
2	Mo 202.030	12.5	70.2	0.0038	mg/L	0.0381	ppm
2	Na 330.237	92859.9	86141.5	122.3	mg/L	1223	ppm
2	Ni 231.604	-1.4	79.0	0.0016	mg/L	0.0158	ppm
2	Pb 220.353	-185.6	-10.5	-0.0007	mg/L	-0.0066	ppm
2	Sb 206.833	-13.4	-2.2	-0.0006	mg/L	-0.0056	ppm
2	Se 196.026	59.8	7.9	0.0025	mg/L	0.0252	ppm
2	Tl 190.800	203.3	-2.6	-0.0007	mg/L	-0.0069	ppm
2	V 292.402	274.7	133.8	0.0010	mg/L	0.0102	ppm
2	Zn 213.856	-580.8	28.7	0.0003	mg/L	0.0027	ppm
3	Ag 328.068	-46.1	25.2	0.0001	mg/L	0.0012	ppm
3	Al 308.215	4050.8	3.5	0.0001	mg/L	0.0011	ppm
3	As 188.979	129.1	0.9	0.0003	mg/L	0.0033	ppm
3	Ba 233.527	2080.4	2131.1	0.0050	mg/L	0.0503	ppm
3	Be 313.107	-812.8	-594.5	-0.0002	mg/L	-0.0022	ppm
3	Ca 227.547	1080.5	469.3	1.911	mg/L	19.11	ppm
3	Cd 228.802	215.9	-22.4	-0.0002	mg/L	-0.0017	ppm
3	Co 228.616	-314.1	-10.5	-0.0001	mg/L	-0.0010	ppm
3	Cr 267.716	-292.3	8.7	0.0001	mg/L	0.0009	ppm
3	Cu 324.754	2925.4	-215.0	-0.0007	mg/L	-0.0072	ppm
3	Fe 273.955	7638.3	6990.5	0.1556	mg/L	1.556	ppm
3	K 766.491	137117.3	139739.8	6.125	mg/L	61.25	ppm

3 Mg 279.079	198135.6	192848.6	4.581 mg/L	45.81 ppm	
3 Mn 257.610	16755.6	15946.1	0.0120 mg/L	0.1198 ppm	
3 Mo 202.030	16.2	73.9	0.0040 mg/L	0.0401 ppm	
3 Na 330.237	90605.9	83887.4	119.2 mg/L	1192 ppm	
3 Ni 231.604	-67.2	13.2	0.0003 mg/L	0.0026 ppm	
3 Pb 220.353	-174.7	0.5	0.0000 mg/L	0.0003 ppm	
3 Sb 206.833	-8.3	2.9	0.0007 mg/L	0.0073 ppm	
3 Se 196.026	52.8	0.9	0.0003 mg/L	0.0028 ppm	
3 Tl 190.800	206.5	0.6	0.0002 mg/L	0.0017 ppm	
3 V 292.402	243.8	102.8	0.0008 mg/L	0.0078 ppm	
3 Zn 213.856	-584.1	25.4	0.0002 mg/L	0.0024 ppm	

ean Data ----------

D: 2805-19 F=10 Seq. No.: 38 Sample No.: 1 A/S Pos: 30
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 10.0
Data: Original Date: 4/23/03 1:33:37 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	74.7	0.0004	0.00066	mg/L	0.0037	0.00664	ppm	180.21%
l 308.215	5.1	0.0002	0.00053	mg/L	0.0016	0.00529	ppm	337.13%
s 188.979	2.6	0.0009	0.00154	mg/L	0.0089	0.01536	ppm	172.48%
a 233.527	2133.8	0.0050	0.00003	mg/L	0.0504	0.00026	ppm	0.52%
e 313.107	-492.6	-0.0002	0.00005	mg/L	-0.0018	0.00053	ppm	29.07%
a 227.547	476.6	1.941	0.0338	mg/L	19.41	0.338	ppm	1.74%
d 228.802	-25.7	-0.0002	0.00002	mg/L	-0.0020	0.00024	ppm	11.83%
o 228.616	-12.6	-0.0001	0.00008	mg/L	-0.0012	0.00080	ppm	65.35%
r 267.716	12.1	0.0001	0.00004	mg/L	0.0013	0.00044	ppm	33.43%
u 324.754	-127.4	-0.0004	0.00031	mg/L	-0.0042	0.00312	ppm	73.44%
e 273.955	7086.4	0.1577	0.00260	mg/L	1.577	0.0260	ppm	1.65%
766.491	139144.8	6.100	0.0398	mg/L	61.00	0.398	ppm	0.65%
g 279.079	196744.3	4.674	0.0815	mg/L	46.74	0.815	ppm	1.74%
n 257.610	16347.6	0.0123	0.00027	mg/L	0.1228	0.00266	ppm	2.16%
o 202.030	67.7	0.0037	0.00042	mg/L	0.0367	0.00420	ppm	11.43%
a 330.237	85515.2	121.4	1.95	mg/L	1214	19.5	ppm	1.61%
i 231.604	23.5	0.0005	0.00102	mg/L	0.0047	0.01023	ppm	217.14%
b 220.353	-4.1	-0.0003	0.00036	mg/L	-0.0026	0.00358	ppm	139.40%
b 206.833	2.3	0.0006	0.00107	mg/L	0.0058	0.01072	ppm	185.43%
e 196.026	7.8	0.0025	0.00219	mg/L	0.0249	0.02194	ppm	88.02%
l 190.800	0.4	0.0001	0.00077	mg/L	0.0011	0.00769	ppm	708.41%
292.402	131.8	0.0010	0.00021	mg/L	0.0100	0.00213	ppm	21.25%
n 213.856	27.8	0.0003	0.00002	mg/L	0.0026	0.00020	ppm	7.83%

alibration Summary ----------

ethod: 23ME ICP-M Date: 4/23/03 1:35:43 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	202761.6	0.00000	0.999942
l 308.215	3	Linear-thru-Zero	0.0	32338.0	0.00000	0.999862
s 188.979	3	Linear-thru-Zero	0.0	2888.4	0.00000	0.999757
a 233.527	3	Linear-thru-Zero	0.0	423784.1	0.00000	0.999473
e 313.107	3	Linear-thru-Zero	0.0	2685329.9	0.00000	0.999950
a 227.547	3	Linear-thru-Zero	0.0	245.5	0.00000	0.999922
d 228.802	3	Linear-thru-Zero	0.0	129120.3	0.00000	0.999828
o 228.616	3	Linear-thru-Zero	0.0	102978.0	0.00000	0.999552
r 267.716	3	Linear-thru-Zero	0.0	91592.9	0.00000	0.999623
u 324.754	3	Linear-thru-Zero	0.0	300295.6	0.00000	0.999782
e 273.955	3	Linear-thru-Zero	0.0	44932.6	0.00000	0.998106
766.491	3	Non-Linear	-1017.1	22038.8	154.06843	0.998652
g 279.079	3	Linear-thru-Zero	0.0	42093.4	0.00000	0.999596
n 257.610	3	Linear-thru-Zero	0.0	1331037.4	0.00000	0.999760
o 202.030	3	Linear-thru-Zero	0.0	18433.2	0.00000	0.999852
a 330.237	3	Non-Linear	5.4	678.4	0.21158	0.999846
i 231.604	3	Linear-thru-Zero	0.0	49912.8	0.00000	0.999403
b 220.353	3	Linear-thru-Zero	0.0	15903.3	0.00000	0.999856
b 206.833	3	Linear-thru-Zero	0.0	3967.7	0.00000	0.999819
e 196.026	3	Linear-thru-Zero	0.0	3144.1	0.00000	0.999666
l 190.800	3	Linear-thru-Zero	0.0	3700.4	0.00000	0.999381
292.402	3	Linear-thru-Zero	0.0	131430.3	0.00000	0.999694
n 213.856	3	Linear-thru-Zero	0.0	107770.3	0.00000	0.999875

eplicate Data
D: 2815-1 F=1 Date: 4/23/03 1:37:03 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-159.2	-88.0	-0.0004	mg/L	-0.0004	ppm
1	Al 308.215	4728.7	681.5	0.0211	mg/L	0.0211	ppm
1	As 188.979	137.4	9.2	0.0050	mg/L	0.0050	ppm
1	Ba 233.527	15866.9	15917.7	0.0376	mg/L	0.0376	ppm
1	Be 313.107	-803.0	-584.7	-0.0002	mg/L	-0.0002	ppm
1	Ca 227.547	14799.8	14188.6	57.79	mg/L	57.79	ppm
1	Cd 228.802	229.7	-8.6	-0.0001	mg/L	-0.0001	ppm
1	Co 228.616	-314.4	-10.7	-0.0001	mg/L	-0.0001	ppm
1	Cr 267.716	-129.3	171.7	0.0019	mg/L	0.0019	ppm
1	Cu 324.754	2950.4	-190.0	-0.0006	mg/L	-0.0006	ppm
1	Fe 273.955	28406.3	27758.5	0.6178	mg/L	0.6178	ppm
1	K 766.491	67238.7	69861.1	3.147	mg/L	3.147	ppm
1	Mg 279.079	1108651.9	1103365.0	26.21	mg/L	26.21	ppm
1	Mn 257.610	325166.2	324356.7	0.2437	mg/L	0.2437	ppm
1	Mo 202.030	-57.7	-0.1	0.0000	mg/L	0.0000	ppm
1	Na 330.237	55462.7	48744.2	70.30	mg/L	70.30	ppm
1	Ni 231.604	48.4	128.8	0.0026	mg/L	0.0026	ppm
1	Pb 220.353	-158.7	16.5	0.0010	mg/L	0.0010	ppm
1	Sb 206.833	-2.6	8.6	0.0022	mg/L	0.0022	ppm
1	Se 196.026	64.2	12.3	0.0039	mg/L	0.0039	ppm
1	Tl 190.800	224.6	18.7	0.0051	mg/L	0.0051	ppm
1	V 292.402	312.5	171.6	0.0013	mg/L	0.0013	ppm
1	Zn 213.856	-119.1	490.4	0.0046	mg/L	0.0046	ppm
2	Ag 328.068	15.8	87.1	0.0004	mg/L	0.0004	ppm
2	Al 308.215	4704.7	657.5	0.0203	mg/L	0.0203	ppm
2	As 188.979	132.7	4.5	0.0034	mg/L	0.0034	ppm
2	Ba 233.527	16207.1	16257.8	0.0384	mg/L	0.0384	ppm
2	Be 313.107	-792.2	-573.9	-0.0002	mg/L	-0.0002	ppm
2	Ca 227.547	14741.2	14130.0	57.55	mg/L	57.55	ppm
2	Cd 228.802	236.7	-1.6	0.0000	mg/L	0.0000	ppm
2	Co 228.616	-335.6	-31.9	-0.0003	mg/L	-0.0003	ppm
2	Cr 267.716	-93.2	207.8	0.0023	mg/L	0.0023	ppm
2	Cu 324.754	3278.7	138.3	0.0005	mg/L	0.0005	ppm
2	Fe 273.955	28862.4	28214.7	0.6279	mg/L	0.6279	ppm
2	K 766.491	68222.6	70845.1	3.190	mg/L	3.190	ppm
2	Mg 279.079	1120608.9	1115321.9	26.50	mg/L	26.50	ppm
2	Mn 257.610	327392.1	326582.7	0.2454	mg/L	0.2454	ppm
2	Mo 202.030	-51.0	6.6	0.0004	mg/L	0.0004	ppm
2	Na 330.237	56412.0	49693.6	71.64	mg/L	71.64	ppm
2	Ni 231.604	60.5	140.9	0.0028	mg/L	0.0028	ppm
2	Pb 220.353	-165.5	9.6	0.0006	mg/L	0.0006	ppm
2	Sb 206.833	4.9	16.1	0.0041	mg/L	0.0041	ppm
2	Se 196.026	65.9	14.0	0.0045	mg/L	0.0045	ppm
2	Tl 190.800	228.2	22.4	0.0060	mg/L	0.0060	ppm
2	V 292.402	265.0	124.1	0.0009	mg/L	0.0009	ppm
2	Zn 213.856	-114.2	495.3	0.0046	mg/L	0.0046	ppm
3	Ag 328.068	83.7	154.9	0.0008	mg/L	0.0008	ppm
3	Al 308.215	5309.6	1262.4	0.0390	mg/L	0.0390	ppm
3	As 188.979	128.7	0.5	0.0020	mg/L	0.0020	ppm
3	Ba 233.527	16056.5	16107.2	0.0380	mg/L	0.0380	ppm
3	Be 313.107	-826.5	-608.2	-0.0002	mg/L	-0.0002	ppm
3	Ca 227.547	14858.4	14247.1	58.03	mg/L	58.03	ppm
3	Cd 228.802	230.7	-7.6	-0.0001	mg/L	-0.0001	ppm
3	Co 228.616	-314.8	-11.1	-0.0001	mg/L	-0.0001	ppm
3	Cr 267.716	-93.0	208.0	0.0023	mg/L	0.0023	ppm
3	Cu 324.754	3023.0	-117.4	-0.0004	mg/L	-0.0004	ppm
3	Fe 273.955	29094.6	28446.8	0.6331	mg/L	0.6331	ppm
3	K 766.491	68603.8	71226.3	3.206	mg/L	3.206	ppm
3	Mg 279.079	1116462.1	1111175.1	26.40	mg/L	26.40	ppm
3	Mn 257.610	326160.4	325350.9	0.2444	mg/L	0.2444	ppm
3	Mo 202.030	-58.5	-0.9	0.0000	mg/L	0.0000	ppm
3	Na 330.237	55965.9	49247.5	71.01	mg/L	71.01	ppm
3	Ni 231.604	53.9	134.3	0.0027	mg/L	0.0027	ppm

3 Pb 220.353	-186.6	-11.4	-0.0007 mg/L	-0.0007 ppm
3 Sb 206.833	-4.2	7.0	0.0018 mg/L	0.0018 ppm
3 Se 196.026	63.7	11.9	0.0038 mg/L	0.0038 ppm
3 Tl 190.800	222.2	16.3	0.0044 mg/L	0.0044 ppm
3 V 292.402	269.9	129.0	0.0010 mg/L	0.0010 ppm
3 Zn 213.856	-130.9	478.6	0.0044 mg/L	0.0044 ppm

lean Data ----------

D: 2815-1 F=1 Seq. No.: 39 Sample No.: 1 A/S Pos: 74
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 1:37:03 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	51.4	0.0003	0.00062	mg/L	0.0003	0.00062	ppm	244.08%
l 308.215	867.1	0.0268	0.01059	mg/L	0.0268	0.01059	ppm	39.50%
s 188.979	4.8	0.0035	0.00150	mg/L	0.0035	0.00150	ppm	43.34%
a 233.527	16094.3	0.0380	0.00040	mg/L	0.0380	0.00040	ppm	1.06%
e 313.107	-588.9	-0.0002	0.00001	mg/L	-0.0002	0.00001	ppm	2.98%
a 227.547	14188.6	57.79	0.239	mg/L	57.79	0.239	ppm	0.41%
d 228.802	-5.9	0.0000	0.00003	mg/L	0.0000	0.00003	ppm	64.39%
o 228.616	-17.9	-0.0002	0.00012	mg/L	-0.0002	0.00012	ppm	67.70%
r 267.716	195.8	0.0021	0.00023	mg/L	0.0021	0.00023	ppm	10.67%
u 324.754	-56.4	-0.0002	0.00057	mg/L	-0.0002	0.00057	ppm	305.97%
e 273.955	28140.0	0.6263	0.00779	mg/L	0.6263	0.00779	ppm	1.24%
766.491	70644.2	3.181	0.0306	mg/L	3.181	0.0306	ppm	0.96%
g 279.079	1109954.0	26.37	0.144	mg/L	26.37	0.144	ppm	0.55%
n 257.610	325430.1	0.2445	0.00084	mg/L	0.2445	0.00084	ppm	0.34%
o 202.030	1.9	0.0001	0.00022	mg/L	0.0001	0.00022	ppm	217.58%
a 330.237	49228.4	70.99	0.670	mg/L	70.99	0.670	ppm	0.94%
i 231.604	134.6	0.0027	0.00012	mg/L	0.0027	0.00012	ppm	4.51%
b 220.353	4.9	0.0003	0.00091	mg/L	0.0003	0.00091	ppm	297.30%
b 206.833	10.6	0.0027	0.00123	mg/L	0.0027	0.00123	ppm	46.25%
e 196.026	12.7	0.0040	0.00035	mg/L	0.0040	0.00035	ppm	8.74%
l 190.800	19.1	0.0052	0.00082	mg/L	0.0052	0.00082	ppm	15.90%
292.402	141.6	0.0011	0.00020	mg/L	0.0011	0.00020	ppm	18.45%
n 213.856	488.1	0.0045	0.00008	mg/L	0.0045	0.00008	ppm	1.76%

eplicate Data ----------

D: CCV 1447B Date: 4/23/03 1:40:40 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	197947.2	198018.4	0.9766	mg/L		
1 Al 308.215	164750.0	160702.8	4.969	mg/L		
1 As 188.979	1557.0	1428.8	0.5001	mg/L		
1 Ba 233.527	2146501.3	2146552.1	5.065	mg/L		
1 Be 313.107	1335434.2	1335652.5	0.4974	mg/L		
1 Ca 227.547	12589.7	11978.5	48.79	mg/L		
1 Cd 228.802	129145.5	128907.2	0.9984	mg/L		
1 Co 228.616	207665.0	207968.7	2.020	mg/L		
1 Cr 267.716	44991.1	45292.0	0.4945	mg/L		
1 Cu 324.754	595908.2	592767.8	1.974	mg/L		
1 Fe 273.955	223946.3	223298.5	4.970	mg/L		
1 K 766.491	364828.2	367450.7	15.12	mg/L		
1 Mg 279.079	1066243.5	1060956.5	25.20	mg/L		
1 Mn 257.610	2695188.7	2694379.3	2.024	mg/L		
1 Mo 202.030	36628.7	36686.4	1.990	mg/L		
1 Na 330.237	75251.5	68533.0	98.02	mg/L		
1 Ni 231.604	100661.4	100741.8	2.018	mg/L		
1 Pb 220.353	7905.1	8080.3	0.5081	mg/L		
1 Sb 206.833	8026.3	8037.5	2.011	mg/L		
1 Se 196.026	1665.3	1613.5	0.5144	mg/L		
1 Tl 190.800	2063.7	1857.8	0.5021	mg/L		
1 V 292.402	261258.1	261117.2	1.987	mg/L		
1 Zn 213.856	213348.0	213957.4	1.985	mg/L		
2 Ag 328.068	200788.1	200859.4	0.9906	mg/L		
2 Al 308.215	166942.8	162895.6	5.037	mg/L		
2 As 188.979	1549.8	1421.6	0.4977	mg/L		
2 Ba 233.527	2173004.9	2173055.7	5.128	mg/L		

2 Be 313.107	1386115.5	1386333.8	0.5163	mg/L
2 Ca 227.547	12938.9	12327.6	50.21	mg/L
2 Cd 228.802	131101.1	130862.8	1.013	mg/L
2 Co 228.616	210166.7	210470.4	2.044	mg/L
2 Cr 267.716	45818.3	46119.3	0.5035	mg/L
2 Cu 324.754	607373.3	604232.9	2.012	mg/L
2 Fe 273.955	226817.0	226169.2	5.034	mg/L
2 K 766.491	381336.4	383958.8	15.74	mg/L
2 Mg 279.079	1079224.8	1073937.9	25.51	mg/L
2 Mn 257.610	2792825.9	2792016.4	2.098	mg/L
2 Mo 202.030	37160.4	37218.0	2.019	mg/L
2 Na 330.237	76508.3	69789.8	99.76	mg/L
2 Ni 231.604	102068.5	102148.9	2.047	mg/L
2 Pb 220.353	7914.3	8089.5	0.5087	mg/L
2 Sb 206.833	8047.8	8059.0	2.016	mg/L
2 Se 196.026	1670.4	1618.5	0.5160	mg/L
2 Tl 190.800	2065.5	1859.7	0.5026	mg/L
2 V 292.402	264114.5	263973.6	2.008	mg/L
2 Zn 213.856	217158.6	217768.1	2.021	mg/L
3 Ag 328.068	200204.2	200275.4	0.9877	mg/L
3 Al 308.215	166438.2	162391.0	5.022	mg/L
3 As 188.979	1541.7	1413.5	0.4949	mg/L
3 Ba 233.527	2165845.9	2165896.6	5.111	mg/L
3 Be 313.107	1368908.5	1369126.9	0.5099	mg/L
3 Ca 227.547	12947.5	12336.2	50.24	mg/L
3 Cd 228.802	130727.6	130489.3	1.011	mg/L
3 Co 228.616	209509.2	209812.9	2.037	mg/L
3 Cr 267.716	45573.5	45874.5	0.5009	mg/L
3 Cu 324.754	606107.8	602967.4	2.008	mg/L
3 Fe 273.955	226703.2	226055.4	5.031	mg/L
3 K 766.491	377741.8	380364.2	15.60	mg/L
3 Mg 279.079	1077647.8	1072360.9	25.48	mg/L
3 Mn 257.610	2754159.2	2753349.8	2.069	mg/L
3 Mo 202.030	37012.7	37070.3	2.011	mg/L
3 Na 330.237	76207.3	69488.9	99.35	mg/L
3 Ni 231.604	101848.0	101928.4	2.042	mg/L
3 Pb 220.353	7860.3	8035.5	0.5053	mg/L
3 Sb 206.833	7968.7	7979.9	1.997	mg/L
3 Se 196.026	1652.7	1600.8	0.5104	mg/L
3 Tl 190.800	2058.1	1852.3	0.5006	mg/L
3 V 292.402	263473.1	263332.2	2.004	mg/L
3 Zn 213.856	216944.5	217554.0	2.019	mg/L

ean Data ----------

D: CCV 1447B Seq. No.: 40 Sample No.: 5 A/S Pos: 6

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 1:40:40 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	199717.7	0.9850	0.00740	mg/L				0.75%
l 308.215	161996.5	5.009	0.0355	mg/L				0.71%
s 188.979	1421.3	0.4976	0.00260	mg/L				0.52%
a 233.527	2161834.8	5.101	0.0324	mg/L				0.63%
e 313.107	1363704.4	0.5078	0.00960	mg/L				1.89%
a 227.547	12214.1	49.75	0.831	mg/L				1.67%
d 228.802	130086.5	1.007	0.0080	mg/L				0.80%
o 228.616	209417.3	2.034	0.0126	mg/L				0.62%
r 267.716	45761.9	0.4996	0.00464	mg/L				0.93%
u 324.754	599989.4	1.998	0.0209	mg/L				1.05%
e 273.955	225174.4	5.011	0.0362	mg/L				0.72%
766.491	377257.9	15.49	0.324	mg/L				2.09%
g 279.079	1069085.1	25.40	0.168	mg/L				0.66%
n 257.610	2746581.8	2.063	0.0369	mg/L				1.79%
o 202.030	36991.6	2.007	0.0149	mg/L				0.74%
a 330.237	69270.6	99.04	0.911	mg/L				0.92%
i 231.604	101606.4	2.036	0.0152	mg/L				0.74%
o 220.353	8068.4	0.5073	0.00182	mg/L				0.36%
o 206.833	8025.5	2.008	0.0103	mg/L				0.51%
e 196.026	1610.9	0.5136	0.00290	mg/L				0.57%
l 190.800	1856.6	0.5017	0.00104	mg/L				0.21%

292.402	262807.7	2.000	0.0114 mg/L	0.57%
n 213.856	216426.5	2.008	0.0199 mg/L	0.99%

eplicate Data
D: CCB Date: 4/23/03 1:44:11 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-100.8	-29.6	-0.0001	mg/L		
1	Al 308.215	3919.3	-127.9	-0.0040	mg/L		
1	As 188.979	126.4	-1.8	-0.0006	mg/L		
1	Ba 233.527	298.3	349.1	0.0008	mg/L		
1	Be 313.107	-217.3	1.0	0.0000	mg/L		
1	Ca 227.547	643.2	31.9	0.1301	mg/L		
1	Cd 228.802	232.6	-5.7	0.0000	mg/L		
1	Co 228.616	-270.8	32.9	0.0003	mg/L		
1	Cr 267.716	-317.6	-16.7	-0.0002	mg/L		
1	Cu 324.754	4180.8	1040.4	0.0035	mg/L		
1	Fe 273.955	649.3	1.6	0.0000	mg/L		
1	K 766.491	-2844.6	-222.1	0.0361	mg/L		
1	Mg 279.079	2705.9	-2581.0	-0.0613	mg/L		
1	Mn 257.610	1630.1	820.6	0.0006	mg/L		
1	Mo 202.030	-35.5	22.2	0.0012	mg/L		
1	Na 330.237	6849.2	130.8	0.1849	mg/L		
1	Ni 231.604	-77.3	3.1	0.0001	mg/L		
1	Pb 220.353	-167.8	7.4	0.0005	mg/L		
1	Sb 206.833	-2.8	8.4	0.0021	mg/L		
1	Se 196.026	65.6	13.7	0.0044	mg/L		
1	Tl 190.800	200.4	-5.5	-0.0015	mg/L		
1	V 292.402	153.6	12.7	0.0001	mg/L		
1	Zn 213.856	-642.0	-32.5	-0.0003	mg/L		
2	Ag 328.068	11.7	83.0	0.0004	mg/L		
2	Al 308.215	3876.1	-171.2	-0.0053	mg/L		
2	As 188.979	127.0	-1.2	-0.0004	mg/L		
2	Ba 233.527	166.6	217.4	0.0005	mg/L		
2	Be 313.107	-242.8	-24.5	0.0000	mg/L		
2	Ca 227.547	644.6	33.4	0.1359	mg/L		
2	Cd 228.802	245.7	7.4	0.0001	mg/L		
2	Co 228.616	-250.9	52.8	0.0005	mg/L		
2	Cr 267.716	-296.2	4.8	0.0001	mg/L		
2	Cu 324.754	3737.5	597.1	0.0020	mg/L		
2	Fe 273.955	591.7	-56.1	-0.0012	mg/L		
2	K 766.491	-2859.3	-236.8	0.0354	mg/L		
2	Mg 279.079	2860.0	-2426.9	-0.0577	mg/L		
2	Mn 257.610	1157.5	348.0	0.0003	mg/L		
2	Mo 202.030	-49.1	8.6	0.0005	mg/L		
2	Na 330.237	6805.3	86.9	0.1202	mg/L		
2	Ni 231.604	-79.7	0.7	0.0000	mg/L		
2	Pb 220.353	-172.4	2.7	0.0002	mg/L		
2	Sb 206.833	-2.8	8.4	0.0021	mg/L		
2	Se 196.026	55.1	3.2	0.0010	mg/L		
2	Tl 190.800	204.3	-1.6	-0.0004	mg/L		
2	V 292.402	71.6	-69.3	-0.0005	mg/L		
2	Zn 213.856	-670.1	-60.6	-0.0006	mg/L		
3	Ag 328.068	-90.8	-19.6	-0.0001	mg/L		
3	Al 308.215	3781.8	-265.4	-0.0082	mg/L		
3	As 188.979	119.2	-9.0	-0.0031	mg/L		
3	Ba 233.527	72.6	123.4	0.0003	mg/L		
3	Be 313.107	-397.1	-178.7	-0.0001	mg/L		
3	Ca 227.547	626.4	15.1	0.0616	mg/L		
3	Cd 228.802	243.6	5.3	0.0000	mg/L		
3	Co 228.616	-275.0	28.7	0.0003	mg/L		
3	Cr 267.716	-308.9	-8.0	-0.0001	mg/L		
3	Cu 324.754	3408.2	267.8	0.0009	mg/L		
3	Fe 273.955	529.2	-118.6	-0.0026	mg/L		
3	K 766.491	-2504.1	118.3	0.0515	mg/L		
3	Mg 279.079	2852.2	-2434.8	-0.0578	mg/L		
3	Mn 257.610	958.2	148.7	0.0001	mg/L		
3	Mo 202.030	-48.0	9.6	0.0005	mg/L		

3 Na 330.237	7097.1	378.7	0.5502	mg/L
3 Ni 231.604	-88.2	-7.8	-0.0002	mg/L
3 Pb 220.353	-184.7	-9.5	-0.0006	mg/L
3 Sb 206.833	0.8	12.0	0.0030	mg/L
3 Se 196.026	51.6	-0.2	-0.0001	mg/L
3 Tl 190.800	200.1	-5.7	-0.0015	mg/L
3 V 292.402	288.3	147.3	0.0011	mg/L
3 Zn 213.856	-670.8	-61.3	-0.0006	mg/L

ean Data ----------

D: CCB Seq. No.: 41 Sample No.: 6 A/S Pos: 1
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 1:44:11 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	11.3	0.0001	0.00031	mg/L				552.53%
l 308.215	-188.2	-0.0058	0.00217	mg/L				37.37%
s 188.979	-4.0	-0.0014	0.00150	mg/L				108.79%
a 233.527	229.9	0.0005	0.00027	mg/L				49.31%
e 313.107	-67.4	0.0000	0.00004	mg/L				144.29%
a 227.547	26.8	0.1092	0.04133	mg/L				37.85%
d 228.802	2.3	0.0000	0.00005	mg/L				302.97%
o 228.616	38.2	0.0004	0.00012	mg/L				33.70%
r 267.716	-6.6	-0.0001	0.00012	mg/L				162.69%
u 324.754	635.1	0.0021	0.00129	mg/L				61.04%
e 273.955	-57.7	-0.0013	0.00134	mg/L				104.14%
766.491	-113.5	0.0410	0.00911	mg/L				22.23%
g 279.079	-2480.9	-0.0589	0.00206	mg/L				3.50%
n 257.610	439.1	0.0003	0.00026	mg/L				78.59%
o 202.030	13.4	0.0007	0.00041	mg/L				56.20%
a 330.237	198.8	0.2851	0.23186	mg/L				81.33%
i 231.604	-1.4	0.0000	0.00011	mg/L				424.39%
b 220.353	0.2	0.0000	0.00055	mg/L				>999.9%
o 206.833	9.6	0.0024	0.00052	mg/L				21.30%
e 196.026	5.6	0.0018	0.00232	mg/L				130.91%
l 190.800	-4.3	-0.0011	0.00063	mg/L				54.91%
292.402	30.2	0.0002	0.00083	mg/L				361.65%
n 213.856	-51.5	-0.0005	0.00015	mg/L				31.89%

eplicate Data ----------

D: M-BL 03M1363S Date: 4/23/03 1:47:35 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-144.9	-73.7	-0.0004	mg/L	-0.0182	ppm
1 Al 308.215	3718.3	-328.9	-0.0102	mg/L	-0.5086	ppm
1 As 188.979	114.9	-13.3	-0.0046	mg/L	-0.2300	ppm
1 Ba 233.527	-133.6	-82.8	-0.0002	mg/L	-0.0098	ppm
1 Be 313.107	-519.3	-300.9	-0.0001	mg/L	-0.0056	ppm
1 Ca 227.547	637.4	26.1	0.1063	mg/L	5.317	ppm
1 Cd 228.802	219.0	-19.3	-0.0001	mg/L	-0.0075	ppm
1 Co 228.616	-304.9	-1.2	0.0000	mg/L	-0.0006	ppm
1 Cr 267.716	-314.3	-13.3	-0.0001	mg/L	-0.0073	ppm
1 Cu 324.754	3121.5	-18.9	-0.0001	mg/L	-0.0031	ppm
1 Fe 273.955	398.2	-249.6	-0.0056	mg/L	-0.2778	ppm
1 K 766.491	-2466.3	156.2	0.0532	mg/L	2.661	ppm
1 Mg 279.079	2929.9	-2357.1	-0.0560	mg/L	-2.800	ppm
1 Mn 257.610	669.6	-139.9	-0.0001	mg/L	-0.0053	ppm
1 Mo 202.030	-56.2	1.4	0.0001	mg/L	0.0039	ppm
1 Na 330.237	6684.3	-34.1	-0.0582	mg/L	-2.911	ppm
1 Ni 231.604	-94.6	-14.2	-0.0003	mg/L	-0.0143	ppm
1 Pb 220.353	-171.0	4.1	0.0003	mg/L	0.0130	ppm
1 Sb 206.833	-8.0	3.2	0.0008	mg/L	0.0401	ppm
1 Se 196.026	74.1	22.3	0.0071	mg/L	0.3541	ppm
1 Tl 190.800	193.5	-12.4	-0.0033	mg/L	-0.1673	ppm
1 V 292.402	225.5	84.6	0.0006	mg/L	0.0322	ppm
1 Zn 213.856	-690.0	-80.6	-0.0007	mg/L	-0.0374	ppm
2 Ag 328.068	38.5	109.7	0.0005	mg/L	0.0271	ppm
2 Al 308.215	3992.8	-54.4	-0.0017	mg/L	-0.0841	ppm

2	As 188.979	118.5	-9.7	-0.0034 mg/L	-0.1685 ppm
2	Ba 233.527	-122.6	-71.8	-0.0002 mg/L	-0.0085 ppm
2	Be 313.107	-477.7	-259.3	-0.0001 mg/L	-0.0048 ppm
2	Ca 227.547	627.2	15.9	0.0648 mg/L	3.240 ppm
2	Cd 228.802	224.4	-13.9	-0.0001 mg/L	-0.0054 ppm
2	Co 228.616	-312.8	-9.1	-0.0001 mg/L	-0.0044 ppm
2	Cr 267.716	-327.5	-26.5	-0.0003 mg/L	-0.0145 ppm
2	Cu 324.754	3335.5	195.1	0.0006 mg/L	0.0325 ppm
2	Fe 273.955	314.1	-333.6	-0.0074 mg/L	-0.3713 ppm
2	K 766.491	-2335.9	286.6	0.0591 mg/L	2.957 ppm
2	Mg 279.079	2774.0	-2513.0	-0.0597 mg/L	-2.985 ppm
2	Mn 257.610	610.1	-199.4	-0.0001 mg/L	-0.0075 ppm
2	Mo 202.030	-57.0	0.6	0.0000 mg/L	0.0017 ppm
2	Na 330.237	6909.3	190.9	0.2734 mg/L	13.67 ppm
2	Ni 231.604	-94.2	-13.8	-0.0003 mg/L	-0.0138 ppm
2	Pb 220.353	-173.6	1.5	0.0001 mg/L	0.0049 ppm
2	Sb 206.833	-9.6	1.6	0.0004 mg/L	0.0202 ppm
2	Se 196.026	46.8	-5.1	-0.0016 mg/L	-0.0813 ppm
2	Tl 190.800	201.8	-4.0	-0.0011 mg/L	-0.0542 ppm
2	V 292.402	92.2	-48.7	-0.0004 mg/L	-0.0185 ppm
2	Zn 213.856	-696.3	-86.8	-0.0008 mg/L	-0.0403 ppm
3	Ag 328.068	-71.9	-0.6	0.0000 mg/L	-0.0002 ppm
3	Al 308.215	3750.8	-296.4	-0.0092 mg/L	-0.4583 ppm
3	As 188.979	128.2	0.0	0.0000 mg/L	0.0003 ppm
3	Ba 233.527	-162.5	-111.8	-0.0003 mg/L	-0.0132 ppm
3	Be 313.107	-459.4	-241.0	-0.0001 mg/L	-0.0045 ppm
3	Ca 227.547	621.8	10.5	0.0428 mg/L	2.139 ppm
3	Cd 228.802	211.1	-27.1	-0.0002 mg/L	-0.0105 ppm
3	Co 228.616	-315.5	-11.8	-0.0001 mg/L	-0.0057 ppm
3	Cr 267.716	-323.2	-22.2	-0.0002 mg/L	-0.0121 ppm
3	Cu 324.754	3220.9	80.5	0.0003 mg/L	0.0134 ppm
3	Fe 273.955	254.4	-393.3	-0.0088 mg/L	-0.4377 ppm
3	K 766.491	-2227.5	395.0	0.0640 mg/L	3.202 ppm
3	Mg 279.079	3101.7	-2185.3	-0.0519 mg/L	-2.596 ppm
3	Mn 257.610	709.1	-100.4	-0.0001 mg/L	-0.0038 ppm
3	Mo 202.030	-55.3	2.4	0.0001 mg/L	0.0064 ppm
3	Na 330.237	6571.0	-147.4	-0.2252 mg/L	-11.26 ppm
3	Ni 231.604	-99.1	-18.7	-0.0004 mg/L	-0.0187 ppm
3	Pb 220.353	-185.1	-9.9	-0.0006 mg/L	-0.0312 ppm
3	Sb 206.833	-12.0	-0.8	-0.0002 mg/L	-0.0096 ppm
3	Se 196.026	60.6	8.7	0.0028 mg/L	0.1391 ppm
3	Tl 190.800	203.7	-2.2	-0.0006 mg/L	-0.0292 ppm
3	V 292.402	75.7	-65.2	-0.0005 mg/L	-0.0248 ppm
3	Zn 213.856	-703.5	-94.0	-0.0009 mg/L	-0.0436 ppm

ean Data ----------

D: M-BL 03M1363S Seq. No.: 42 Sample No.: 22 A/S Pos: 31
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 1:47:35 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	11.8	0.0001	0.00046	mg/L	0.0029	0.02277	ppm	782.33%
l 308.215	-226.6	-0.0070	0.00464	mg/L	-0.3503	0.23194	ppm	66.21%
s 188.979	-7.7	-0.0027	0.00238	mg/L	-0.1327	0.11921	ppm	89.82%
a 233.527	-88.8	-0.0002	0.00005	mg/L	-0.0105	0.00244	ppm	23.24%
e 313.107	-267.1	-0.0001	0.00001	mg/L	-0.0050	0.00057	ppm	11.49%
a 227.547	17.5	0.0713	0.03228	mg/L	3.565	1.6138	ppm	45.26%
d 228.802	-20.1	-0.0002	0.00005	mg/L	-0.0078	0.00258	ppm	33.06%
o 228.616	-7.4	-0.0001	0.00005	mg/L	-0.0036	0.00269	ppm	75.04%
r 267.716	-20.7	-0.0002	0.00007	mg/L	-0.0113	0.00368	ppm	32.62%
u 324.754	85.6	0.0003	0.00036	mg/L	0.0142	0.01783	ppm	125.17%
e 273.955	-325.5	-0.0072	0.00161	mg/L	-0.3622	0.08034	ppm	22.18%
766.491	279.3	0.0588	0.00542	mg/L	2.940	0.2710	ppm	9.22%
g 279.079	-2351.8	-0.0559	0.00389	mg/L	-2.794	0.1947	ppm	6.97%
n 257.610	-146.5	-0.0001	0.00004	mg/L	-0.0055	0.00187	ppm	34.01%
o 202.030	1.5	0.0001	0.00005	mg/L	0.0040	0.00233	ppm	58.19%
a 330.237	3.1	-0.0034	0.25381	mg/L	-0.1675	12.69029	ppm	>999.9%
. 231.604	-15.6	-0.0003	0.00005	mg/L	-0.0156	0.00272	ppm	17.45%
b 220.353	-1.4	-0.0001	0.00047	mg/L	-0.0044	0.02350	ppm	528.36%
b 206.833	1.3	0.0003	0.00050	mg/L	0.0169	0.02501	ppm	147.84%

e 196.026	8.6	0.0027	0.00435 mg/L	0.1373	0.21769 ppm	158.55%
l 190.800	-6.2	-0.0017	0.00147 mg/L	-0.0836	0.07359 ppm	88.07%
292.402	-9.8	-0.0001	0.00063 mg/L	-0.0037	0.03126 ppm	841.30%
n 213.856	-87.1	-0.0008	0.00006 mg/L	-0.0404	0.00313 ppm	7.74%

eplicate Data ----------

D: LCS-03M1363 Date: 4/23/03 1:51:08 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	203688.5	203759.8	1.005	mg/L	50.25	ppm
1	Al 308.215	71893.7	67846.5	2.098	mg/L	104.9	ppm
1	As 188.979	1528.7	1400.5	0.4932	mg/L	24.66	ppm
1	Ba 233.527	1818481.1	1818531.8	4.291	mg/L	214.6	ppm
1	Be 313.107	516207.0	516425.4	0.1923	mg/L	9.616	ppm
1	Ca 227.547	5489.2	4878.0	19.87	mg/L	993.4	ppm
1	Cd 228.802	34335.1	34096.8	0.2641	mg/L	13.20	ppm
1	Co 228.616	108365.3	108669.0	1.055	mg/L	52.76	ppm
1	Cr 267.716	95341.0	95642.0	1.044	mg/L	52.21	ppm
1	Cu 324.754	313508.0	310367.6	1.034	mg/L	51.68	ppm
1	Fe 273.955	45967.8	45320.0	1.009	mg/L	50.43	ppm
1	K 766.491	121404.5	124026.9	5.465	mg/L	273.3	ppm
1	Mg 279.079	420129.1	414842.1	9.855	mg/L	492.8	ppm
1	Mn 257.610	1272621.1	1271811.6	0.9555	mg/L	47.78	ppm
1	Mo 202.030	39897.6	39955.3	2.168	mg/L	108.4	ppm
1	Na 330.237	33431.1	26712.7	38.90	mg/L	1945	ppm
1	Ni 231.604	51720.0	51800.4	1.038	mg/L	51.89	ppm
1	Pb 220.353	50355.7	50530.9	3.177	mg/L	158.9	ppm
1	Sb 206.833	2022.2	2033.4	0.4821	mg/L	24.10	ppm
1	Se 196.026	1692.4	1640.6	0.5218	mg/L	26.09	ppm
1	Tl 190.800	2106.5	1900.6	0.5136	mg/L	25.68	ppm
1	V 292.402	263845.3	263704.4	2.006	mg/L	100.3	ppm
1	Zn 213.856	54924.1	55533.6	0.5153	mg/L	25.76	ppm
2	Ag 328.068	199602.1	199673.3	0.9848	mg/L	49.24	ppm
2	Al 308.215	71102.8	67055.6	2.074	mg/L	103.7	ppm
2	As 188.979	1548.4	1420.2	0.4998	mg/L	24.99	ppm
2	Ba 233.527	1821710.4	1821761.2	4.299	mg/L	214.9	ppm
2	Be 313.107	517640.3	517858.6	0.1928	mg/L	9.642	ppm
2	Ca 227.547	5531.2	4920.0	20.04	mg/L	1002	ppm
2	Cd 228.802	33572.3	33334.0	0.2582	mg/L	12.91	ppm
2	Co 228.616	106361.9	106665.6	1.036	mg/L	51.79	ppm
2	Cr 267.716	93455.9	93756.8	1.024	mg/L	51.18	ppm
2	Cu 324.754	306751.5	303611.1	1.011	mg/L	50.55	ppm
2	Fe 273.955	45060.5	44412.8	0.9884	mg/L	49.42	ppm
2	K 766.491	123010.9	125633.4	5.533	mg/L	276.6	ppm
2	Mg 279.079	422855.0	417568.0	9.920	mg/L	496.0	ppm
2	Mn 257.610	1274592.8	1273783.3	0.9570	mg/L	47.85	ppm
2	Mo 202.030	39352.1	39409.7	2.138	mg/L	106.9	ppm
2	Na 330.237	32638.1	25919.7	37.76	mg/L	1888	ppm
2	Ni 231.604	50925.2	51005.6	1.022	mg/L	51.09	ppm
2	Pb 220.353	49468.1	49643.3	3.122	mg/L	156.1	ppm
2	Sb 206.833	2036.9	2048.1	0.4864	mg/L	24.32	ppm
2	Se 196.026	1698.5	1646.6	0.5237	mg/L	26.19	ppm
2	Tl 190.800	2132.1	1926.3	0.5206	mg/L	26.03	ppm
2	V 292.402	259613.6	259472.7	1.974	mg/L	98.71	ppm
2	Zn 213.856	54028.9	54638.4	0.5070	mg/L	25.35	ppm
3	Ag 328.068	198220.6	198291.8	0.9780	mg/L	48.90	ppm
3	Al 308.215	70353.9	66306.7	2.050	mg/L	102.5	ppm
3	As 188.979	1568.8	1440.6	0.5068	mg/L	25.34	ppm
3	Ba 233.527	1858794.6	1858845.3	4.386	mg/L	219.3	ppm
3	Be 313.107	529663.5	529881.9	0.1973	mg/L	9.866	ppm
3	Ca 227.547	5616.1	5004.8	20.38	mg/L	1019	ppm
3	Cd 228.802	33429.4	33191.1	0.2571	mg/L	12.85	ppm
3	Co 228.616	105342.5	105646.1	1.026	mg/L	51.30	ppm
3	Cr 267.716	92683.6	92984.6	1.015	mg/L	50.76	ppm
3	Cu 324.754	304069.0	300928.6	1.002	mg/L	50.11	ppm
3	Fe 273.955	44484.1	43836.4	0.9756	mg/L	48.78	ppm
3	K 766.491	126685.4	129307.9	5.687	mg/L	284.4	ppm
3	Mg 279.079	431938.9	426652.0	10.14	mg/L	506.8	ppm

3 Mn 257.610	1300925.3	1300115.8	0.9768 mg/L	48.84 ppm
3 Mo 202.030	39101.1	39158.8	2.124 mg/L	106.2 ppm
3 Na 330.237	32558.5	25840.1	37.64 mg/L	1882 ppm
3 Ni 231.604	50567.5	50647.9	1.015 mg/L	50.74 ppm
3 Pb 220.353	49418.4	49593.6	3.118 mg/L	155.9 ppm
3 Sb 206.833	2090.5	2101.7	0.5001 mg/L	25.01 ppm
3 Se 196.026	1737.6	1685.8	0.5362 mg/L	26.81 ppm
3 Tl 190.800	2158.9	1953.1	0.5278 mg/L	26.39 ppm
3 V 292.402	256890.4	256749.5	1.954 mg/L	97.68 ppm
3 Zn 213.856	53555.2	54164.7	0.5026 mg/L	25.13 ppm

ean Data ----------

D: LCS-03M1363 Seq. No.: 43 Sample No.: 23 A/S Pos: 32
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 1:51:08 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	200575.0	0.9892	0.01402	mg/L	49.46	0.701	ppm	1.42%
l 308.215	67069.6	2.074	0.0238	mg/L	103.7	1.19	ppm	1.15%
s 188.979	1420.4	0.4999	0.00681	mg/L	25.00	0.341	ppm	1.36%
a 233.527	1833046.1	4.325	0.0529	mg/L	216.3	2.64	ppm	1.22%
e 313.107	521388.6	0.1942	0.00275	mg/L	9.708	0.1376	ppm	1.42%
a 227.547	4934.2	20.10	0.263	mg/L	1005	13.2	ppm	1.31%
d 228.802	33540.7	0.2598	0.00377	mg/L	12.99	0.189	ppm	1.45%
o 228.616	106993.6	1.039	0.0149	mg/L	51.95	0.747	ppm	1.44%
r 267.716	94127.8	1.028	0.0149	mg/L	51.38	0.746	ppm	1.45%
a 324.754	304969.1	1.016	0.0162	mg/L	50.78	0.810	ppm	1.59%
e 273.955	44523.0	0.9909	0.01665	mg/L	49.54	0.832	ppm	1.68%
766.491	126322.7	5.562	0.1139	mg/L	278.1	5.70	ppm	2.05%
g 279.079	419687.4	9.970	0.1469	mg/L	498.5	7.35	ppm	1.47%
n 257.610	1281903.6	0.9631	0.01187	mg/L	48.15	0.594	ppm	1.23%
o 202.030	39507.9	2.143	0.0221	mg/L	107.2	1.10	ppm	1.03%
a 330.237	26157.5	38.10	0.695	mg/L	1905	34.7	ppm	1.82%
i 231.604	51151.3	1.025	0.0118	mg/L	51.24	0.591	ppm	1.15%
o 220.353	49922.6	3.139	0.0332	mg/L	157.0	1.66	ppm	1.06%
o 206.833	2061.0	0.4895	0.00943	mg/L	24.48	0.471	ppm	1.93%
e 196.026	1657.6	0.5272	0.00780	mg/L	26.36	0.390	ppm	1.48%
l 190.800	1926.7	0.5207	0.00708	mg/L	26.03	0.354	ppm	1.36%
292.402	259975.6	1.978	0.0267	mg/L	98.90	1.333	ppm	1.35%
n 213.856	54778.9	0.5083	0.00645	mg/L	25.41	0.323	ppm	1.27%

atrix Check Sample: LCS-03M1363

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.000	0.9892	0.014	mg/L	98.916
l 308.215	1.993	2.074	0.024	mg/L	104.051
s 188.979	0.4973	0.4999	0.007	mg/L	100.512
a 233.527	4.000	4.325	0.053	mg/L	108.141
e 313.107	0.1999	0.1942	0.003	mg/L	97.131
a 227.547	20.07	20.10	0.263	mg/L	100.126
d 228.802	0.2498	0.2598	0.004	mg/L	103.967
o 228.616	0.9999	1.039	0.015	mg/L	103.907
r 267.716	0.9998	1.028	0.015	mg/L	102.790
a 324.754	1.000	1.016	0.016	mg/L	101.528
e 273.955	0.9928	0.9909	0.017	mg/L	99.813
766.491	5.059	5.562	0.114	mg/L	110.058
g 279.079	9.944	9.970	0.147	mg/L	100.263
n 257.610	0.9999	0.9631	0.012	mg/L	96.320
o 202.030	2.000	2.143	0.022	mg/L	107.161
a 330.237	40.00	38.10	0.695	mg/L	95.253
231.604	0.9997	1.025	0.012	mg/L	102.513
o 220.353	3.000	3.139	0.033	mg/L	104.641
o 206.833	0.5003	0.4895	0.009	mg/L	97.840
e 196.026	0.5027	0.5272	0.008	mg/L	104.896
190.800	0.4983	0.5207	0.007	mg/L	104.467
292.402	2.000	1.978	0.027	mg/L	98.906
a 213.856	0.4992	0.5083	0.006	mg/L	101.820

plicate Data ----------

D: LCSD-03M1363 Date: 4/23/03 1:54:42 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	205385.9	205457.2	1.013	mg/L	50.66	ppm
1	Al 308.215	72410.7	68363.5	2.114	mg/L	105.7	ppm
1	As 188.979	1550.1	1421.9	0.5006	mg/L	25.03	ppm
1	Ba 233.527	1830742.6	1830793.4	4.320	mg/L	216.0	ppm
1	Be 313.107	519982.7	520201.1	0.1937	mg/L	9.686	ppm
1	Ca 227.547	5551.7	4940.5	20.12	mg/L	1006	ppm
1	Cd 228.802	34607.8	34369.5	0.2662	mg/L	13.31	ppm
1	Co 228.616	109134.1	109437.8	1.063	mg/L	53.14	ppm
1	Cr 267.716	95743.6	96044.5	1.049	mg/L	52.43	ppm
1	Cu 324.754	316242.5	313102.1	1.043	mg/L	52.13	ppm
1	Fe 273.955	46327.7	45679.9	1.017	mg/L	50.83	ppm
1	K 766.491	122536.1	125158.6	5.513	mg/L	275.6	ppm
1	Mg 279.079	423572.0	418285.0	9.937	mg/L	496.9	ppm
1	Mn 257.610	1281291.4	1280482.0	0.9620	mg/L	48.10	ppm
1	Mo 202.030	40113.3	40171.0	2.179	mg/L	109.0	ppm
1	Na 330.237	33521.5	26803.0	39.03	mg/L	1951	ppm
1	Ni 231.604	52114.3	52194.7	1.046	mg/L	52.29	ppm
1	Pb 220.353	50812.8	50987.9	3.206	mg/L	160.3	ppm
1	Sb 206.833	2042.4	2053.6	0.4870	mg/L	24.35	ppm
1	Se 196.026	1700.0	1648.1	0.5242	mg/L	26.21	ppm
1	Tl 190.800	2119.6	1913.8	0.5172	mg/L	25.86	ppm
1	V 292.402	265253.4	265112.5	2.017	mg/L	100.9	ppm
1	Zn 213.856	55436.5	56046.0	0.5201	mg/L	26.00	ppm
2	Ag 328.068	200735.5	200806.8	0.9904	mg/L	49.52	ppm
2	Al 308.215	71407.2	67360.0	2.083	mg/L	104.2	ppm
2	As 188.979	1533.1	1404.9	0.4945	mg/L	24.73	ppm
2	Ba 233.527	1773911.1	1773961.9	4.186	mg/L	209.3	ppm
2	Be 313.107	503602.3	503820.7	0.1876	mg/L	9.381	ppm
2	Ca 227.547	5485.6	4874.4	19.85	mg/L	992.6	ppm
2	Cd 228.802	33736.9	33498.6	0.2594	mg/L	12.97	ppm
2	Co 228.616	106708.3	107012.0	1.039	mg/L	51.96	ppm
2	Cr 267.716	94153.7	94454.6	1.031	mg/L	51.56	ppm
2	Cu 324.754	307553.2	304412.8	1.014	mg/L	50.69	ppm
2	Fe 273.955	45233.7	44586.0	0.9923	mg/L	49.61	ppm
2	K 766.491	118236.2	120858.7	5.331	mg/L	266.6	ppm
2	Mg 279.079	409691.1	404404.1	9.607	mg/L	480.4	ppm
2	Mn 257.610	1239098.6	1238289.1	0.9303	mg/L	46.52	ppm
2	Mo 202.030	39467.8	39525.4	2.144	mg/L	107.2	ppm
2	Na 330.237	32880.2	26161.8	38.10	mg/L	1905	ppm
2	Ni 231.604	51155.4	51235.8	1.027	mg/L	51.33	ppm
2	Pb 220.353	49706.2	49881.3	3.137	mg/L	156.8	ppm
2	Sb 206.833	2031.2	2042.4	0.4847	mg/L	24.24	ppm
2	Se 196.026	1695.4	1643.6	0.5228	mg/L	26.14	ppm
2	Tl 190.800	2114.4	1908.5	0.5158	mg/L	25.79	ppm
2	V 292.402	260941.4	260800.5	1.984	mg/L	99.22	ppm
2	Zn 213.856	54137.1	54746.6	0.5080	mg/L	25.40	ppm
3	Ag 328.068	198137.7	198208.9	0.9775	mg/L	48.88	ppm
3	Al 308.215	70278.2	66231.0	2.048	mg/L	102.4	ppm
3	As 188.979	1548.7	1420.5	0.4999	mg/L	24.99	ppm
3	Ba 233.527	1803952.5	1804003.2	4.257	mg/L	212.8	ppm
3	Be 313.107	512077.6	512295.9	0.1908	mg/L	9.539	ppm
3	Ca 227.547	5558.7	4947.4	20.15	mg/L	1008	ppm
3	Cd 228.802	33468.9	33230.6	0.2574	mg/L	12.87	ppm
3	Co 228.616	105880.5	106184.2	1.031	mg/L	51.56	ppm
3	Cr 267.716	93134.5	93435.4	1.020	mg/L	51.01	ppm
3	Cu 324.754	305277.8	302137.4	1.006	mg/L	50.31	ppm
3	Fe 273.955	44632.4	43984.7	0.9789	mg/L	48.95	ppm
3	K 766.491	121576.1	124198.6	5.472	mg/L	273.6	ppm
3	Mg 279.079	417903.7	412616.7	9.802	mg/L	490.1	ppm
3	Mn 257.610	1261533.5	1260724.0	0.9472	mg/L	47.36	ppm
3	Mo 202.030	39175.9	39233.6	2.128	mg/L	106.4	ppm
3	Na 330.237	32748.0	26029.5	37.91	mg/L	1896	ppm
3	Ni 231.604	50706.9	50787.2	1.018	mg/L	50.88	ppm
3	Pb 220.353	49293.9	49469.0	3.111	mg/L	155.5	ppm
3	Sb 206.833	2044.5	2055.7	0.4884	mg/L	24.42	ppm

3 Se 196.026	1716.7	1664.8	0.5295 mg/L	26.48 ppm
3 Tl 190.800	2130.6	1924.8	0.5202 mg/L	26.01 ppm
3 V 292.402	257402.5	257261.6	1.957 mg/L	97.87 ppm
3 Zn 213.856	53823.5	54433.0	0.5051 mg/L	25.25 ppm

ean Data ----------

D: LCSD-03M1363 Seq. No.: 44 Sample No.: 24 A/S Pos: 33
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 1:54:42 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	201490.9	0.9937	0.01811	mg/L	49.69	0.906	ppm	1.82%
l 308.215	67318.2	2.082	0.0330	mg/L	104.1	1.65	ppm	1.58%
s 188.979	1415.8	0.4983	0.00330	mg/L	24.92	0.165	ppm	0.66%
a 233.527	1802919.5	4.254	0.0671	mg/L	212.7	3.35	ppm	1.58%
e 313.107	512105.9	0.1907	0.00305	mg/L	9.535	0.1525	ppm	1.60%
a 227.547	4920.8	20.04	0.164	mg/L	1002	8.2	ppm	0.82%
d 228.802	33699.6	0.2610	0.00461	mg/L	13.05	0.231	ppm	1.77%
o 228.616	107544.6	1.044	0.0164	mg/L	52.22	0.821	ppm	1.57%
r 267.716	94644.9	1.033	0.0144	mg/L	51.67	0.718	ppm	1.39%
u 324.754	306550.8	1.021	0.0193	mg/L	51.04	0.963	ppm	1.89%
e 273.955	44750.2	0.9959	0.01913	mg/L	49.80	0.956	ppm	1.92%
766.491	123405.3	5.439	0.0952	mg/L	271.9	4.76	ppm	1.75%
g 279.079	411768.6	9.782	0.1658	mg/L	489.1	8.29	ppm	1.69%
n 257.610	1259831.7	0.9465	0.01586	mg/L	47.33	0.793	ppm	1.68%
o 202.030	39643.3	2.151	0.0260	mg/L	107.5	1.30	ppm	1.21%
a 330.237	26331.4	38.35	0.596	mg/L	1917	29.8	ppm	1.55%
i 231.604	51405.9	1.030	0.0144	mg/L	51.50	0.720	ppm	1.40%
b 220.353	50112.8	3.151	0.0494	mg/L	157.6	2.47	ppm	1.57%
b 206.833	2050.6	0.4867	0.00186	mg/L	24.34	0.093	ppm	0.38%
e 196.026	1652.2	0.5255	0.00356	mg/L	26.27	0.178	ppm	0.68%
l 190.800	1915.7	0.5177	0.00224	mg/L	25.88	0.112	ppm	0.43%
292.402	261058.2	1.986	0.0299	mg/L	99.31	1.496	ppm	1.51%
n 213.856	55075.2	0.5110	0.00794	mg/L	25.55	0.397	ppm	1.55%

atrix Check Sample: LCSD-03M1363

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	1.000	0.9937	0.018	mg/L	99.367
l 308.215	1.993	2.082	0.033	mg/L	104.436
s 188.979	0.4973	0.4983	0.003	mg/L	100.199
a 233.527	4.000	4.254	0.067	mg/L	106.364
e 313.107	0.1999	0.1907	0.003	mg/L	95.402
a 227.547	20.07	20.04	0.164	mg/L	99.851
d 228.802	0.2498	0.2610	0.005	mg/L	104.460
o 228.616	0.9999	1.044	0.016	mg/L	104.442
r 267.716	0.9998	1.033	0.014	mg/L	103.355
u 324.754	1.000	1.021	0.019	mg/L	102.055
e 273.955	0.9928	0.9959	0.019	mg/L	100.319
766.491	5.059	5.439	0.095	mg/L	107.600
g 279.079	9.944	9.782	0.166	mg/L	98.381
n 257.610	0.9999	0.9465	0.016	mg/L	94.661
o 202.030	2.000	2.151	0.026	mg/L	107.528
a 330.237	40.00	38.35	0.596	mg/L	95.879
i 231.604	0.9997	1.030	0.014	mg/L	103.023
b 220.353	3.000	3.151	0.049	mg/L	105.040
b 206.833	0.5003	0.4867	0.002	mg/L	97.279
e 196.026	0.5027	0.5255	0.004	mg/L	104.548
l 190.800	0.4983	0.5177	0.002	mg/L	103.874
292.402	2.000	1.986	0.030	mg/L	99.318
n 213.856	0.4992	0.5110	0.008	mg/L	102.370

eplicate Data ----------

D: 2805-14 S F=50 Date: 4/23/03 1:57:59 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-1320.5	-1249.2	-0.0003	mg/L	-0.0151	ppm

1	Al 308.215	3999954.5	3995907.3	123.6 mg/L	6178 ppm
1	As 188.979	216.2	88.0	0.0308 mg/L	1.540 ppm
1	Ba 233.527	531764.8	531815.5	1.255 mg/L	62.75 ppm
1	Be 313.107	-16574.4	-16356.1	-0.0061 mg/L	-0.3045 ppm
1	Ca 227.547	10114.9	9503.7	43.03 mg/L	2152 ppm
1	Cd 228.802	49.1	-189.2	-0.0015 mg/L	-0.0733 ppm
1	Co 228.616	10972.9	11276.6	0.1095 mg/L	5.475 ppm
1	Cr 267.716	26868.0	27169.0	0.2966 mg/L	14.83 ppm
1	Cu 324.754	28786.0	25645.6	0.0959 mg/L	4.795 ppm
1	Fe 273.955	9952267.6	9951619.9	221.5 mg/L	11070 ppm
1	K 766.491	Saturated			
1	Mg 279.079	2265582.5	2260295.5	53.70 mg/L	2685 ppm
1	Mn 257.610	2684883.2	2684073.7	2.017 mg/L	100.8 ppm
1	Mo 202.030	-0.9	56.8	-0.0041 mg/L	-0.2075 ppm
1	Na 330.237	453.1	-6265.3	-9.270 mg/L	-463.5 ppm
1	Ni 231.604	2952.0	3032.3	0.0608 mg/L	3.038 ppm
1	Pb 220.353	-154.9	20.2	0.0136 mg/L	0.6779 ppm
1	Sb 206.833	-5.9	5.3	-0.0073 mg/L	-0.3654 ppm
1	Se 196.026	-139.1	-191.0	-0.0088 mg/L	-0.4375 ppm
1	Tl 190.800	231.5	25.6	-0.0486 mg/L	-2.430 ppm
1	V 292.402	103987.0	103846.1	0.7901 mg/L	39.51 ppm
1	Zn 213.856	41225.0	41834.5	0.3693 mg/L	18.46 ppm
2	Ag 328.068	-1181.2	-1109.9	0.0004 mg/L	0.0175 ppm
2	Al 308.215	3992382.6	3988335.4	123.3 mg/L	6167 ppm
2	As 188.979	190.8	62.6	0.0219 mg/L	1.097 ppm
2	Ba 233.527	529310.9	529361.6	1.249 mg/L	62.46 ppm
2	Be 313.107	-16904.1	-16685.8	-0.0062 mg/L	-0.3107 ppm
2	Ca 227.547	10100.2	9489.0	42.95 mg/L	2147 ppm
2	Cd 228.802	111.0	-127.3	-0.0010 mg/L	-0.0493 ppm
2	Co 228.616	10702.6	11006.3	0.1069 mg/L	5.344 ppm
2	Cr 267.716	26473.1	26774.1	0.2923 mg/L	14.62 ppm
2	Cu 324.754	27982.7	24842.3	0.0932 mg/L	4.658 ppm
2	Fe 273.955	9892564.5	9891916.7	220.2 mg/L	11010 ppm
2	K 766.491	Saturated			
2	Mg 279.079	2257094.4	2251807.5	53.50 mg/L	2675 ppm
2	Mn 257.610	2670245.3	2669435.9	2.006 mg/L	100.3 ppm
2	Mo 202.030	53.0	110.6	-0.0012 mg/L	-0.0592 ppm
2	Na 330.237	352.9	-6365.5	-9.419 mg/L	-471.0 ppm
2	Ni 231.604	2899.9	2980.3	0.0597 mg/L	2.985 ppm
2	Pb 220.353	-121.1	54.1	0.0157 mg/L	0.7831 ppm
2	Sb 206.833	-25.9	-14.7	-0.0122 mg/L	-0.6111 ppm
2	Se 196.026	-119.3	-171.1	-0.0028 mg/L	-0.1380 ppm
2	Tl 190.800	226.7	20.9	-0.0496 mg/L	-2.480 ppm
2	V 292.402	103009.6	102868.7	0.7827 mg/L	39.13 ppm
2	Zn 213.856	40816.2	41425.7	0.3656 mg/L	18.28 ppm
3	Ag 328.068	-1465.9	-1394.6	-0.0009 mg/L	-0.0429 ppm
3	Al 308.215	4079889.4	4075842.2	126.0 mg/L	6302 ppm
3	As 188.979	199.0	70.8	0.0249 mg/L	1.244 ppm
3	Ba 233.527	539497.4	539548.2	1.273 mg/L	63.66 ppm
3	Be 313.107	-16991.6	-16773.2	-0.0062 mg/L	-0.3123 ppm
3	Ca 227.547	10275.7	9664.4	43.81 mg/L	2190 ppm
3	Cd 228.802	133.8	-104.5	-0.0008 mg/L	-0.0405 ppm
3	Co 228.616	10921.1	11224.8	0.1090 mg/L	5.450 ppm
3	Cr 267.716	27169.1	27470.1	0.2958 mg/L	14.79 ppm
3	Cu 324.754	28630.8	25490.4	0.0957 mg/L	4.784 ppm
3	Fe 273.955	10225262.7	10224615.0	227.6 mg/L	11380 ppm
3	K 766.491	Saturated			
3	Mg 279.079	2294577.7	2289290.7	54.39 mg/L	2719 ppm
3	Mn 257.610	2715115.5	2714306.0	2.039 mg/L	102.0 ppm
3	Mo 202.030	-2.9	54.8	-0.0045 mg/L	-0.2228 ppm
3	Na 330.237	264.6	-6453.8	-9.550 mg/L	-477.5 ppm
3	Ni 231.604	2928.9	3009.3	0.0603 mg/L	3.015 ppm
3	Pb 220.353	-171.1	4.1	0.0128 mg/L	0.6394 ppm
3	Sb 206.833	-3.4	7.8	-0.0068 mg/L	-0.3381 ppm
3	Se 196.026	-126.0	-177.8	-0.0031 mg/L	-0.1560 ppm
3	Tl 190.800	226.9	21.0	-0.0512 mg/L	-2.562 ppm
3	V 292.402	105339.6	105198.7	0.8004 mg/L	40.02 ppm
3	Zn 213.856	41414.1	42023.6	0.3705 mg/L	18.52 ppm

ean Data ----------

D: 2805-14 S F=50 Seq. No.: 45 Sample No.: 25 A/S Pos: 34
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 1:57:59 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-1251.3	-0.0003	0.00060	mg/L	-0.0135	0.03024	ppm	224.41%
l 308.215	4020028.3	124.3	1.50	mg/L	6216	75.0	ppm	1.21%
s 188.979	73.8	0.0259	0.00451	mg/L	1.294	0.2254	ppm	17.42%
a 233.527	533575.1	1.259	0.0125	mg/L	62.95	0.627	ppm	1.00%
e 313.107	-16605.0	-0.0062	0.00008	mg/L	-0.3092	0.00410	ppm	1.32%
a 227.547	9552.3	43.26	0.473	mg/L	2163	23.7	ppm	1.09%
d 228.802	-140.3	-0.0011	0.00034	mg/L	-0.0543	0.01697	ppm	31.22%
o 228.616	11169.2	0.1085	0.00139	mg/L	5.423	0.0697	ppm	1.28%
r 267.716	27137.7	0.2949	0.00229	mg/L	14.75	0.114	ppm	0.78%
u 324.754	25326.1	0.0949	0.00152	mg/L	4.746	0.0760	ppm	1.60%
e 273.955	10022717.2	223.1	3.95	mg/L	11150	197.4	ppm	1.77%
766.491	Saturated							
g 279.079	2267131.2	53.86	0.467	mg/L	2693	23.3	ppm	0.87%
n 257.610	2689271.9	2.020	0.0172	mg/L	101.0	0.86	ppm	0.85%
o 202.030	74.1	-0.0033	0.00181	mg/L	-0.1632	0.09035	ppm	55.38%
a 330.237	-6361.6	-9.413	0.1398	mg/L	-470.7	6.99	ppm	1.49%
i 231.604	3007.3	0.0603	0.00052	mg/L	3.013	0.0261	ppm	0.87%
b 220.353	26.1	0.0140	0.00149	mg/L	0.7001	0.07442	ppm	10.63%
b 206.833	-0.6	-0.0088	0.00301	mg/L	-0.4382	0.15033	ppm	34.30%
e 196.026	-180.0	-0.0049	0.00336	mg/L	-0.2438	0.16797	ppm	68.89%
l 190.800	22.5	-0.0498	0.00133	mg/L	-2.491	0.0667	ppm	2.68%
292.402	103971.2	0.7911	0.00890	mg/L	39.55	0.445	ppm	1.13%
n 213.856	41761.3	0.3684	0.00256	mg/L	18.42	0.128	ppm	0.69%

eplicate Data
D: 2805-14 D F=50 Date: 4/23/03 2:00:40 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1411.6	-1340.3	-0.0002	mg/L	-0.0091	ppm
1	Al 308.215	4489827.4	4485780.1	138.7	mg/L	6936	ppm
1	As 188.979	138.9	10.7	0.0035	mg/L	0.1733	ppm
1	Ba 233.527	612091.1	612141.9	1.444	mg/L	72.22	ppm
1	Be 313.107	-23094.2	-22875.9	-0.0085	mg/L	-0.4259	ppm
1	Ca 227.547	10154.3	9543.1	43.61	mg/L	2181	ppm
1	Cd 228.802	292.1	53.8	0.0004	mg/L	0.0208	ppm
1	Co 228.616	12932.1	13235.8	0.1285	mg/L	6.427	ppm
1	Cr 267.716	27188.8	27489.8	0.2957	mg/L	14.79	ppm
1	Cu 324.754	32538.3	29397.9	0.1094	mg/L	5.471	ppm
1	Fe 273.955	10918612.5	10917964.7	243.0	mg/L	12150	ppm
1	K 766.491	Saturated					
1	Mg 279.079	2655242.6	2649955.6	62.95	mg/L	3148	ppm
1	Mn 257.610	3208956.3	3208146.8	2.410	mg/L	120.5	ppm
1	Mo 202.030	-21.1	36.6	-0.0059	mg/L	-0.2974	ppm
1	Na 330.237	-2920.3	-9638.7	-14.28	mg/L	-714.0	ppm
1	Ni 231.604	3290.0	3370.4	0.0675	mg/L	3.376	ppm
1	Pb 220.353	-148.8	26.4	0.0155	mg/L	0.7725	ppm
1	Sb 206.833	6.0	17.2	-0.0044	mg/L	-0.2197	ppm
1	Se 196.026	-105.3	-157.1	0.0070	mg/L	0.3496	ppm
1	Tl 190.800	181.2	-24.6	-0.0680	mg/L	-3.400	ppm
1	V 292.402	99308.6	99167.7	0.7545	mg/L	37.73	ppm
1	Zn 213.856	43908.7	44518.2	0.3923	mg/L	19.62	ppm
2	Ag 328.068	-1458.6	-1387.3	-0.0005	mg/L	-0.0275	ppm
2	Al 308.215	4688080.8	4684033.6	144.8	mg/L	7242	ppm
2	As 188.979	209.9	81.7	0.0273	mg/L	1.364	ppm
2	Ba 233.527	635499.1	635549.8	1.500	mg/L	74.99	ppm
2	Be 313.107	-24102.0	-23883.7	-0.0089	mg/L	-0.4447	ppm
2	Ca 227.547	10074.0	9462.8	43.19	mg/L	2159	ppm
2	Cd 228.802	46.6	-191.7	-0.0015	mg/L	-0.0743	ppm
2	Co 228.616	12886.1	13189.8	0.1281	mg/L	6.404	ppm
2	Cr 267.716	27233.7	27534.7	0.2963	mg/L	14.82	ppm
2	Cu 324.754	33637.8	30497.4	0.1128	mg/L	5.642	ppm
2	Fe 273.955	10687461.7	10686813.9	237.8	mg/L	11890	ppm
2	K 766.491	Saturated					

2 Mg 279.079	2761568.8	2756281.8	65.48	mg/L	3274 ppm
2 Mn 257.610	3329580.9	3328771.5	2.501	mg/L	125.0 ppm
2 Mo 202.030	-5.9	51.8	-0.0050	mg/L	-0.2478 ppm
2 Na 330.237	-3550.1	-10268.5	-15.22	mg/L	-760.8 ppm
2 Ni 231.604	3345.2	3425.6	0.0686	mg/L	3.432 ppm
2 Pb 220.353	-60.4	114.7	0.0216	mg/L	1.081 ppm
2 Sb 206.833	-2.1	9.1	-0.0065	mg/L	-0.3230 ppm
2 Se 196.026	-63.2	-115.1	0.0190	mg/L	0.9478 ppm
2 Tl 190.800	187.4	-18.5	-0.0661	mg/L	-3.306 ppm
2 V 292.402	102923.3	102782.4	0.7820	mg/L	39.10 ppm
2 Zn 213.856	45761.6	46371.1	0.4100	mg/L	20.50 ppm
3 Ag 328.068	-1270.0	-1198.8	0.0005	mg/L	0.0270 ppm
3 Al 308.215	4747579.0	4743531.8	146.7	mg/L	7334 ppm
3 As 188.979	202.5	74.3	0.0247	mg/L	1.235 ppm
3 Ba 233.527	642856.6	642907.3	1.517	mg/L	75.85 ppm
3 Be 313.107	-24400.7	-24182.4	-0.0090	mg/L	-0.4503 ppm
3 Ca 227.547	9745.0	9133.7	41.96	mg/L	2098 ppm
3 Cd 228.802	90.8	-147.5	-0.0011	mg/L	-0.0571 ppm
3 Co 228.616	12773.0	13076.7	0.1270	mg/L	6.349 ppm
3 Cr 267.716	26749.7	27050.6	0.2909	mg/L	14.55 ppm
3 Cu 324.754	33855.8	30715.4	0.1139	mg/L	5.693 ppm
3 Fe 273.955	10958034.9	10957387.2	243.9	mg/L	12190 ppm
3 K 766.491	Saturated				
3 Mg 279.079	2791372.9	2786085.9	66.19	mg/L	3309 ppm
3 Mn 257.610	3362270.0	3361460.5	2.525	mg/L	126.3 ppm
3 Mo 202.030	-8.5	49.2	-0.0053	mg/L	-0.2647 ppm
3 Na 330.237	-3903.2	-10621.6	-15.74	mg/L	-787.1 ppm
3 Ni 231.604	3316.1	3396.5	0.0680	mg/L	3.402 ppm
3 Pb 220.353	-184.1	-9.0	0.0140	mg/L	0.7009 ppm
3 Sb 206.833	-7.8	3.4	-0.0077	mg/L	-0.3872 ppm
3 Se 196.026	-101.9	-153.8	0.0081	mg/L	0.4046 ppm
3 Tl 190.800	154.0	-51.9	-0.0765	mg/L	-3.823 ppm
3 V 292.402	103998.1	103857.2	0.7902	mg/L	39.51 ppm
3 Zn 213.856	46227.0	46836.4	0.4138	mg/L	20.69 ppm

ean Data ----------

D: 2805-14 D F=50 Seq. No.: 46 Sample No.: 26 A/S Pos: 35

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 4/23/03 2:00:40 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	-1308.8	-0.0001	0.00055	mg/L	-0.0032	0.02770	ppm	869.31%
l 308.215	4637781.8	143.4	4.17	mg/L	7171	208.7	ppm	2.91%
s 188.979	55.6	0.0185	0.01307	mg/L	0.9243	0.65360	ppm	70.71%
a 233.527	630199.7	1.487	0.0379	mg/L	74.35	1.895	ppm	2.55%
e 313.107	-23647.3	-0.0088	0.00025	mg/L	-0.4403	0.01275	ppm	2.89%
a 227.547	9379.8	42.92	0.856	mg/L	2146	42.8	ppm	2.00%
d 228.802	-95.2	-0.0007	0.00101	mg/L	-0.0369	0.05067	ppm	137.50%
o 228.616	13167.4	0.1279	0.00080	mg/L	6.393	0.0398	ppm	0.62%
r 267.716	27358.4	0.2943	0.00296	mg/L	14.72	0.148	ppm	1.01%
u 324.754	30203.6	0.1120	0.00232	mg/L	5.602	0.1160	ppm	2.07%
e 273.955	10854055.3	241.6	3.25	mg/L	12080	162.7	ppm	1.35%
766.491	Saturated							
g 279.079	2730774.5	64.87	1.700	mg/L	3244	85.0	ppm	2.62%
n 257.610	3299459.6	2.479	0.0607	mg/L	123.9	3.03	ppm	2.45%
o 202.030	45.8	-0.0054	0.00050	mg/L	-0.2700	0.02524	ppm	9.35%
a 330.237	-10176.3	-15.08	0.741	mg/L	-754.0	37.04	ppm	4.91%
i 231.604	3397.5	0.0681	0.00055	mg/L	3.403	0.0276	ppm	0.81%
o 220.353	44.0	0.0170	0.00404	mg/L	0.8514	0.20178	ppm	23.70%
o 206.833	9.9	-0.0062	0.00169	mg/L	-0.3100	0.08453	ppm	27.27%
e 196.026	-142.0	0.0113	0.00661	mg/L	0.5673	0.33067	ppm	58.29%
l 190.800	-31.7	-0.0702	0.00551	mg/L	-3.510	0.2756	ppm	7.85%
292.402	101935.8	0.7756	0.01869	mg/L	38.78	0.935	ppm	2.41%
n 213.856	45908.6	0.4054	0.01144	mg/L	20.27	0.572	ppm	2.82%

atrix Check Sample: 2805-14 D F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	Relative % Diff.

g 328.068	-0.0003	-0.0001	0.001	mg/L	-123.485
l 308.215	124.3	143.4	4.173	mg/L	14.270
s 188.979	0.0259	0.0185	0.013	mg/L	33.302
a 233.527	1.259	1.487	0.038	mg/L	16.605
e 313.107	-0.0062	-0.0088	0.000	mg/L	-34.991
a 227.547	43.26	42.92	0.856	mg/L	0.792
d 228.802	-0.0011	-0.0007	0.001	mg/L	-38.359
o 228.616	0.1085	0.1279	0.001	mg/L	16.421
r 267.716	0.2949	0.2943	0.003	mg/L	0.198
u 324.754	0.0949	0.1120	0.002	mg/L	16.544
e 273.955	223.1	241.6	3.253	mg/L	7.964
766.491			0.000	mg/L	
g 279.079	53.86	64.87	1.700	mg/L	18.554
n 257.610	2.020	2.479	0.061	mg/L	20.378
o 202.030	-0.0033	-0.0054	0.001	mg/L	-49.314
a 330.237	-9.413	-15.08	0.741	mg/L	-46.272
i 231.604	0.0603	0.0681	0.001	mg/L	12.184
b 220.353	0.0140	0.0170	0.004	mg/L	19.496
b 206.833	-0.0088	-0.0062	0.002	mg/L	-34.286
e 196.026	-0.0049	0.0113	0.007	mg/L	501.528
l 190.800	-0.0498	-0.0702	0.006	mg/L	-33.964
292.402	0.7911	0.7756	0.019	mg/L	1.977
n 213.856	0.3684	0.4054	0.011	mg/L	9.538

eplicate Data

D: 2805-14 1/5 F=250 Date: 4/23/03 2:03:37 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-60.1	11.1	0.0001	mg/L	0.0137	ppm
1	Al 308.215	812108.7	808061.5	24.99	mg/L	6247	ppm
1	As 188.979	141.3	13.1	0.0040	mg/L	0.9967	ppm
1	Ba 233.527	110019.5	110070.2	0.2597	mg/L	64.93	ppm
1	Be 313.107	-3745.1	-3526.7	-0.0013	mg/L	-0.3283	ppm
1	Ca 227.547	2556.6	1945.4	7.923	mg/L	1981	ppm
1	Cd 228.802	190.7	-47.6	-0.0004	mg/L	-0.0922	ppm
1	Co 228.616	2066.5	2370.1	0.0230	mg/L	5.754	ppm
1	Cr 267.716	5221.3	5522.3	0.0603	mg/L	15.07	ppm
1	Cu 324.754	8648.2	5507.8	0.0183	mg/L	4.585	ppm
1	Fe 273.955	2160110.9	2159463.2	48.06	mg/L	12020	ppm
1	K 766.491	171184.1	173806.6	7.536	mg/L	1884	ppm
1	Mg 279.079	470341.9	465055.0	11.05	mg/L	2762	ppm
1	Mn 257.610	560072.1	559262.6	0.4202	mg/L	105.0	ppm
1	Mo 202.030	-53.9	3.8	0.0002	mg/L	0.0513	ppm
1	Na 330.237	5443.7	-1274.7	-1.888	mg/L	-472.0	ppm
1	Ni 231.604	562.5	642.9	0.0129	mg/L	3.220	ppm
1	Pb 220.353	-165.5	9.7	0.0031	mg/L	0.7735	ppm
1	Sb 206.833	-12.0	-0.8	-0.0002	mg/L	-0.0499	ppm
1	Se 196.026	35.8	-16.1	0.0068	mg/L	1.694	ppm
1	Tl 190.800	203.3	-2.6	-0.0123	mg/L	-3.071	ppm
1	V 292.402	21387.7	21246.8	0.1617	mg/L	40.41	ppm
1	Zn 213.856	7756.3	8365.8	0.0735	mg/L	18.38	ppm
2	Ag 328.068	-375.5	-304.2	-0.0015	mg/L	-0.3751	ppm
2	Al 308.215	841866.5	837819.3	25.91	mg/L	6477	ppm
2	As 188.979	145.4	17.2	0.0054	mg/L	1.346	ppm
2	Ba 233.527	105921.7	105972.5	0.2501	mg/L	62.52	ppm
2	Be 313.107	-3726.5	-3508.2	-0.0013	mg/L	-0.3266	ppm
2	Ca 227.547	2543.5	1932.3	7.870	mg/L	1967	ppm
2	Cd 228.802	204.5	-33.8	-0.0003	mg/L	-0.0655	ppm
2	Co 228.616	1973.3	2277.0	0.0221	mg/L	5.528	ppm
2	Cr 267.716	5115.9	5416.9	0.0591	mg/L	14.79	ppm
2	Cu 324.754	7934.3	4793.9	0.0160	mg/L	3.991	ppm
2	Fe 273.955	2215395.9	2214748.1	49.29	mg/L	12320	ppm
2	K 766.491	179263.3	181885.8	7.867	mg/L	1967	ppm
2	Mg 279.079	483736.2	478449.3	11.37	mg/L	2842	ppm
2	Mn 257.610	574101.5	573292.0	0.4307	mg/L	107.7	ppm
2	Mo 202.030	-50.5	7.1	0.0004	mg/L	0.0970	ppm
2	Na 330.237	5860.9	-857.5	-1.273	mg/L	-318.1	ppm
2	Ni 231.604	519.3	599.6	0.0120	mg/L	3.003	ppm
2	Pb 220.353	-167.6	7.6	0.0031	mg/L	0.7631	ppm

2 Sb 206.833	-10.7	0.5	0.0001 mg/L	0.0299 ppm
2 Se 196.026	21.7	-30.1	0.0026 mg/L	0.6533 ppm
2 Tl 190.800	208.2	2.4	-0.0113 mg/L	-2.817 ppm
2 V 292.402	20777.9	20637.0	0.1570 mg/L	39.25 ppm
2 Zn 213.856	7592.6	8202.1	0.0719 mg/L	17.97 ppm
3 Ag 328.068	-427.3	-356.1	-0.0018 mg/L	-0.4390 ppm
3 Al 308.215	800567.1	796519.9	24.63 mg/L	6158 ppm
3 As 188.979	141.0	12.8	0.0039 mg/L	0.9758 ppm
3 Ba 233.527	106578.3	106629.0	0.2516 mg/L	62.90 ppm
3 Be 313.107	-3743.6	-3525.2	-0.0013 mg/L	-0.3282 ppm
3 Ca 227.547	2544.6	1933.4	7.874 mg/L	1969 ppm
3 Cd 228.802	189.4	-48.9	-0.0004 mg/L	-0.0948 ppm
3 Co 228.616	2008.7	2312.4	0.0225 mg/L	5.614 ppm
3 Cr 267.716	5152.4	5453.3	0.0595 mg/L	14.88 ppm
3 Cu 324.754	8008.3	4867.9	0.0162 mg/L	4.053 ppm
3 Fe 273.955	2110373.2	2109725.4	46.95 mg/L	11740 ppm
3 K 766.491	169846.1	172468.6	7.481 mg/L	1870 ppm
3 Mg 279.079	461057.0	455770.0	10.83 mg/L	2707 ppm
3 Mn 257.610	547588.8	546779.3	0.4108 mg/L	102.7 ppm
3 Mo 202.030	-46.1	11.5	0.0006 mg/L	0.1561 ppm
3 Na 330.237	5527.4	-1191.0	-1.765 mg/L	-441.2 ppm
3 Ni 231.604	529.9	610.2	0.0122 mg/L	3.057 ppm
3 Pb 220.353	-155.5	19.7	0.0037 mg/L	0.9213 ppm
3 Sb 206.833	0.8	12.0	0.0030 mg/L	0.7560 ppm
3 Se 196.026	28.4	-23.5	0.0041 mg/L	1.037 ppm
3 Tl 190.800	209.5	3.6	-0.0104 mg/L	-2.592 ppm
3 V 292.402	20697.9	20557.0	0.1564 mg/L	39.10 ppm
3 Zn 213.856	7662.4	8271.9	0.0727 mg/L	18.19 ppm

ean Data ----------

D: 2805-14 1/5 F=250 Seq. No.: 47 Sample No.: 27 A/S Pos: 36
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0
Data: Original Date: 4/23/03 2:03:37 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-216.4	-0.0011	0.00098	mg/L	-0.2668	0.24504	ppm	91.84%
l 308.215	814133.5	25.18	0.659	mg/L	6294	164.7	ppm	2.62%
s 188.979	14.4	0.0044	0.00083	mg/L	1.106	0.2079	ppm	18.80%
a 233.527	107557.2	0.2538	0.00519	mg/L	63.45	1.298	ppm	2.05%
e 313.107	-3520.0	-0.0013	0.00000	mg/L	-0.3277	0.00096	ppm	0.29%
a 227.547	1937.0	7.889	0.0296	mg/L	1972	7.4	ppm	0.38%
d 228.802	-43.5	-0.0003	0.00006	mg/L	-0.0841	0.01621	ppm	19.26%
o 228.616	2319.8	0.0225	0.00046	mg/L	5.632	0.1142	ppm	2.03%
r 267.716	5464.2	0.0597	0.00058	mg/L	14.91	0.146	ppm	0.98%
u 324.754	5056.5	0.0168	0.00131	mg/L	4.210	0.3268	ppm	7.76%
e 273.955	2161312.2	48.10	1.169	mg/L	12030	292.3	ppm	2.43%
766.491	176053.7	7.628	0.2088	mg/L	1907	52.2	ppm	2.74%
g 279.079	466424.7	11.08	0.271	mg/L	2770	67.7	ppm	2.44%
n 257.610	559778.0	0.4206	0.00997	mg/L	105.1	2.49	ppm	2.37%
o 202.030	7.5	0.0004	0.00021	mg/L	0.1015	0.05255	ppm	51.78%
a 330.237	-1107.8	-1.642	0.3256	mg/L	-410.4	81.41	ppm	19.83%
i 231.604	617.6	0.0124	0.00045	mg/L	3.093	0.1128	ppm	3.65%
o 220.353	12.3	0.0033	0.00035	mg/L	0.8193	0.08852	ppm	10.80%
o 206.833	3.9	0.0010	0.00178	mg/L	0.2453	0.44406	ppm	180.99%
e 196.026	-23.2	0.0045	0.00210	mg/L	1.128	0.5261	ppm	46.64%
l 190.800	1.1	-0.0113	0.00096	mg/L	-2.827	0.2394	ppm	8.47%
292.402	20813.6	0.1584	0.00287	mg/L	39.59	0.718	ppm	1.81%
n 213.856	8279.9	0.0727	0.00081	mg/L	18.18	0.203	ppm	1.12%

eplicate Data ----------

D: 2805-14 MS F=50 Date: 4/23/03 2:06:57 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	118502.7	118573.9	0.5915	mg/L	29.58	ppm
1 Al 308.215	5214535.2	5210488.0	161.1	mg/L	8056	ppm
1 As 188.979	1535.9	1407.8	0.4942	mg/L	24.71	ppm
1 Ba 233.527	2635060.2	2635111.0	6.218	mg/L	310.9	ppm
1 Be 313.107	470078.6	470297.0	0.1751	mg/L	8.757	ppm

1	Ca 227.547	15819.1	15207.8	66.92 mg/L	3346 ppm
1	Cd 228.802	32739.4	32501.1	0.2517 mg/L	12.59 ppm
1	Co 228.616	116806.7	117110.4	1.137 mg/L	56.86 ppm
1	Cr 267.716	118846.3	119147.3	1.296 mg/L	64.81 ppm
1	Cu 324.754	334299.4	331159.0	1.115 mg/L	55.74 ppm
1	Fe 273.955	11449370.8	11448723.0	254.8 mg/L	12740 ppm
1	K 766.491	Saturated			
1	Mg 279.079	4021633.1	4016346.1	95.42 mg/L	4771 ppm
1	Mn 257.610	6039941.7	6039132.2	4.537 mg/L	226.9 ppm
1	Mo 202.030	36644.1	36701.7	1.983 mg/L	99.14 ppm
1	Na 330.237	21702.2	14983.8	21.93 mg/L	1096 ppm
1	Ni 231.604	52414.2	52494.6	1.052 mg/L	52.59 ppm
1	Pb 220.353	47316.9	47492.0	3.002 mg/L	150.1 ppm
1	Sb 206.833	1818.3	1829.5	0.4232 mg/L	21.16 ppm
1	Se 196.026	1365.3	1313.4	0.4771 mg/L	23.86 ppm
1	Tl 190.800	1920.4	1714.6	0.3966 mg/L	19.83 ppm
1	V 292.402	347266.1	347125.2	2.641 mg/L	132.1 ppm
1	Zn 213.856	110453.4	111062.9	1.009 mg/L	50.44 ppm
2	Ag 328.068	118088.3	118159.5	0.5896 mg/L	29.48 ppm
2	Al 308.215	5346793.1	5342745.8	165.2 mg/L	8261 ppm
2	As 188.979	1528.3	1400.1	0.4912 mg/L	24.56 ppm
2	Ba 233.527	2630526.2	2630576.9	6.207 mg/L	310.4 ppm
2	Be 313.107	469442.6	469660.9	0.1749 mg/L	8.745 ppm
2	Ca 227.547	15326.6	14715.4	65.01 mg/L	3251 ppm
2	Cd 228.802	31504.5	31266.2	0.2421 mg/L	12.11 ppm
2	Co 228.616	116765.4	117069.1	1.137 mg/L	56.84 ppm
2	Cr 267.716	118047.4	118348.3	1.287 mg/L	64.37 ppm
2	Cu 324.754	334059.8	330919.4	1.114 mg/L	55.72 ppm
2	Fe 273.955	11677739.0	11677091.3	259.9 mg/L	12990 ppm
2	K 766.491	Saturated			
2	Mg 279.079	4017633.6	4012346.6	95.32 mg/L	4766 ppm
2	Mn 257.610	6160176.8	6159367.3	4.627 mg/L	231.4 ppm
2	Mo 202.030	35091.4	35149.0	1.898 mg/L	94.92 ppm
2	Na 330.237	21501.7	14783.2	21.64 mg/L	1082 ppm
2	Ni 231.604	52325.8	52406.1	1.050 mg/L	52.50 ppm
2	Pb 220.353	47122.7	47297.8	2.991 mg/L	149.5 ppm
2	Sb 206.833	1802.0	1813.1	0.4194 mg/L	20.97 ppm
2	Se 196.026	1404.6	1352.8	0.4908 mg/L	24.54 ppm
2	Tl 190.800	1894.2	1688.3	0.3882 mg/L	19.41 ppm
2	V 292.402	346618.5	346477.6	2.636 mg/L	131.8 ppm
2	Zn 213.856	110560.9	111170.4	1.009 mg/L	50.47 ppm
3	Ag 328.068	117692.4	117763.7	0.5877 mg/L	29.39 ppm
3	Al 308.215	5374906.9	5370859.7	166.1 mg/L	8304 ppm
3	As 188.979	1483.3	1355.1	0.4756 mg/L	23.78 ppm
3	Ba 233.527	2630202.8	2630253.6	6.207 mg/L	310.3 ppm
3	Be 313.107	468990.3	469208.7	0.1747 mg/L	8.737 ppm
3	Ca 227.547	15588.8	14977.5	66.11 mg/L	3305 ppm
3	Cd 228.802	32063.0	31824.7	0.2465 mg/L	12.32 ppm
3	Co 228.616	116904.4	117208.0	1.138 mg/L	56.91 ppm
3	Cr 267.716	118066.4	118367.3	1.288 mg/L	64.38 ppm
3	Cu 324.754	332793.7	329653.3	1.110 mg/L	55.51 ppm
3	Fe 273.955	11742156.6	11741508.8	261.3 mg/L	13070 ppm
3	K 766.491	Saturated			
3	Mg 279.079	4014475.4	4009188.5	95.25 mg/L	4762 ppm
3	Mn 257.610	6173390.3	6172580.9	4.637 mg/L	231.9 ppm
3	Mo 202.030	35515.0	35572.7	1.921 mg/L	96.06 ppm
3	Na 330.237	21778.5	15060.1	22.04 mg/L	1102 ppm
3	Ni 231.604	52172.4	52252.8	1.047 mg/L	52.34 ppm
3	Pb 220.353	46909.2	47084.3	2.977 mg/L	148.9 ppm
3	Sb 206.833	1715.5	1726.7	0.3976 mg/L	19.88 ppm
3	Se 196.026	1433.3	1381.5	0.5003 mg/L	25.01 ppm
3	Tl 190.800	1901.9	1696.0	0.3899 mg/L	19.49 ppm
3	V 292.402	346203.6	346062.6	2.633 mg/L	131.7 ppm
3	Zn 213.856	110101.4	110710.9	1.005 mg/L	50.25 ppm

ean Data ----------

D: 2805-14 MS F=50 Seq. No.: 48 Sample No.: 28 A/S Pos: 37

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 4/23/03 2:06:57 PM

---

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	118165.7	0.5896	0.00191	mg/L	29.48	0.096	ppm	0.32%
l 308.215	5308031.2	164.1	2.65	mg/L	8207	132.4	ppm	1.61%
s 188.979	1387.7	0.4870	0.00995	mg/L	24.35	0.498	ppm	2.04%
a 233.527	2631980.5	6.211	0.0064	mg/L	310.5	0.32	ppm	0.10%
e 313.107	469722.2	0.1749	0.00020	mg/L	8.746	0.0102	ppm	0.12%
a 227.547	14966.9	66.01	0.957	mg/L	3301	47.8	ppm	1.45%
d 228.802	31864.0	0.2468	0.00479	mg/L	12.34	0.239	ppm	1.94%
o 228.616	117129.2	1.137	0.0007	mg/L	56.87	0.035	ppm	0.06%
r 267.716	118621.0	1.290	0.0050	mg/L	64.52	0.252	ppm	0.39%
u 324.754	330577.3	1.113	0.0026	mg/L	55.66	0.129	ppm	0.23%
e 273.955	11622441.0	258.7	3.42	mg/L	12930	171.2	ppm	1.32%
766.491	Saturated							
g 279.079	4012627.1	95.33	0.085	mg/L	4766	4.3	ppm	0.09%
n 257.610	6123693.5	4.601	0.0552	mg/L	230.0	2.76	ppm	1.20%
o 202.030	35807.8	1.934	0.0436	mg/L	96.71	2.182	ppm	2.26%
a 330.237	14942.4	21.87	0.208	mg/L	1093	10.4	ppm	0.95%
i 231.604	52384.5	1.050	0.0025	mg/L	52.48	0.123	ppm	0.23%
b 220.353	47291.4	2.990	0.0126	mg/L	149.5	0.63	ppm	0.42%
b 206.833	1789.8	0.4134	0.01384	mg/L	20.67	0.692	ppm	3.35%
e 196.026	1349.2	0.4894	0.01163	mg/L	24.47	0.581	ppm	2.38%
l 190.800	1699.6	0.3916	0.00448	mg/L	19.58	0.224	ppm	1.14%
292.402	346555.1	2.637	0.0041	mg/L	131.8	0.20	ppm	0.15%
n 213.856	110981.4	1.008	0.0024	mg/L	50.38	0.119	ppm	0.24%

atrix Check Sample: 2805-14 MS F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9997	0.5896	0.002	mg/L	58.989
l 308.215	126.3	164.1	2.648	mg/L	1991.473
s 188.979	0.5259	0.4870	0.010	mg/L	92.228
a 233.527	5.259	6.211	0.006	mg/L	123.790
e 313.107	0.1938	0.1749	0.000	mg/L	90.553
a 227.547	63.26	66.01	0.957	mg/L	113.741
d 228.802	0.2489	0.2468	0.005	mg/L	99.146
o 228.616	1.108	1.137	0.001	mg/L	102.896
r 267.716	1.295	1.290	0.005	mg/L	99.550
u 324.754	1.095	1.113	0.003	mg/L	101.819
e 273.955	224.1	258.7	3.424	mg/L	3560.275
766.491			0.000	mg/L	
g 279.079	63.86	95.33	0.085	mg/L	414.672
n 257.610	3.020	4.601	0.055	mg/L	258.026
o 202.030	1.997	1.934	0.044	mg/L	96.870
a 330.237	30.59	21.87	0.208	mg/L	78.206
i 231.604	1.060	1.050	0.002	mg/L	98.927
o 220.353	3.014	2.990	0.013	mg/L	99.200
o 206.833	0.4912	0.4134	0.014	mg/L	84.431
e 196.026	0.4951	0.4894	0.012	mg/L	98.855
l 190.800	0.4502	0.3916	0.004	mg/L	88.277
292.402	2.791	2.637	0.004	mg/L	92.286
n 213.856	0.8684	1.008	0.002	mg/L	127.850

eplicate Data ----------

): 2805-14 MSD F=50 Date: 4/23/03 2:09:45 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	116258.1	116329.3	0.5806	mg/L	29.03	ppm
1 Al 308.215	5329746.7	5325699.5	164.7	mg/L	8234	ppm
1 As 188.979	1601.2	1473.0	0.5164	mg/L	25.82	ppm
1 Ba 233.527	2595006.5	2595057.2	6.124	mg/L	306.2	ppm
1 Be 313.107	462832.0	463050.4	0.1724	mg/L	8.622	ppm
1 Ca 227.547	15509.6	14898.3	65.76	mg/L	3288	ppm
1 Cd 228.802	32273.9	32035.6	0.2481	mg/L	12.41	ppm
1 Co 228.616	115428.3	115732.0	1.124	mg/L	56.19	ppm
1 Cr 267.716	116345.0	116646.0	1.269	mg/L	63.44	ppm
1 Cu 324.754	328973.3	325832.9	1.097	mg/L	54.87	ppm
1 Fe 273.955	11684925.3	11684277.5	260.0	mg/L	13000	ppm

1 K 766.491	Saturated				
1 Mg 279.079	3950531.8	3945244.8	93.73	mg/L	4686 ppm
1 Mn 257.610	6174811.2	6174001.8	4.638	mg/L	231.9 ppm
1 Mo 202.030	35801.1	35858.7	1.937	mg/L	96.84 ppm
1 Na 330.237	21288.9	14570.5	21.33	mg/L	1066 ppm
1 Ni 231.604	51440.4	51520.8	1.032	mg/L	51.61 ppm
1 Pb 220.353	46350.4	46525.6	2.942	mg/L	147.1 ppm
1 Sb 206.833	1706.9	1718.1	0.3959	mg/L	19.80 ppm
1 Se 196.026	1348.2	1296.4	0.4729	mg/L	23.65 ppm
1 Tl 190.800	1967.3	1761.5	0.4080	mg/L	20.40 ppm
1 V 292.402	342238.3	342097.4	2.603	mg/L	130.1 ppm
1 Zn 213.856	108396.5	109005.9	0.9893	mg/L	49.46 ppm
2 Ag 328.068	117131.7	117203.0	0.5850	mg/L	29.25 ppm
2 Al 308.215	5414641.2	5410594.0	167.3	mg/L	8366 ppm
2 As 188.979	1555.4	1427.2	0.5005	mg/L	25.03 ppm
2 Ba 233.527	2612920.7	2612971.4	6.166	mg/L	308.3 ppm
2 Be 313.107	465568.6	465787.0	0.1735	mg/L	8.673 ppm
2 Ca 227.547	15794.1	15182.8	66.98	mg/L	3349 ppm
2 Cd 228.802	32398.7	32160.4	0.2491	mg/L	12.45 ppm
2 Co 228.616	116007.9	116311.6	1.129	mg/L	56.47 ppm
2 Cr 267.716	117259.5	117560.5	1.279	mg/L	63.94 ppm
2 Cu 324.754	331608.9	328468.5	1.106	mg/L	55.32 ppm
2 Fe 273.955	11837483.2	11836835.5	263.4	mg/L	13170 ppm
2 K 766.491	Saturated				
2 Mg 279.079	3981284.5	3975997.5	94.46	mg/L	4723 ppm
2 Mn 257.610	6225742.1	6224932.6	4.677	mg/L	233.8 ppm
2 Mo 202.030	36228.5	36286.2	1.960	mg/L	98.00 ppm
2 Na 330.237	21477.6	14759.1	21.60	mg/L	1080 ppm
2 Ni 231.604	51924.9	52005.3	1.042	mg/L	52.10 ppm
2 Pb 220.353	46757.6	46932.7	2.968	mg/L	148.4 ppm
2 Sb 206.833	1844.0	1855.2	0.4302	mg/L	21.51 ppm
2 Se 196.026	1292.2	1240.3	0.4559	mg/L	22.79 ppm
2 Tl 190.800	1899.4	1693.5	0.3887	mg/L	19.44 ppm
2 V 292.402	344388.1	344247.2	2.619	mg/L	131.0 ppm
2 Zn 213.856	109648.6	110258.1	1.001	mg/L	50.03 ppm
3 Ag 328.068	118057.9	118129.2	0.5896	mg/L	29.48 ppm
3 Al 308.215	5410445.2	5406398.0	167.2	mg/L	8359 ppm
3 As 188.979	1637.5	1509.3	0.5291	mg/L	26.45 ppm
3 Ba 233.527	2635814.8	2635865.5	6.220	mg/L	311.0 ppm
3 Be 313.107	469089.7	469308.1	0.1748	mg/L	8.738 ppm
3 Ca 227.547	16065.2	15453.9	68.08	mg/L	3404 ppm
3 Cd 228.802	32998.8	32760.5	0.2537	mg/L	12.69 ppm
3 Co 228.616	116717.0	117020.7	1.136	mg/L	56.82 ppm
3 Cr 267.716	118587.7	118888.7	1.293	mg/L	64.66 ppm
3 Cu 324.754	333641.3	330500.9	1.113	mg/L	55.65 ppm
3 Fe 273.955	11810909.7	11810261.9	262.8	mg/L	13140 ppm
3 K 766.491	Saturated				
3 Mg 279.079	4011583.8	4006296.9	95.18	mg/L	4759 ppm
3 Mn 257.610	6213929.1	6213119.6	4.668	mg/L	233.4 ppm
3 Mo 202.030	36823.3	36881.0	1.992	mg/L	99.61 ppm
3 Na 330.237	21778.4	15060.0	22.04	mg/L	1102 ppm
3 Ni 231.604	52081.2	52161.6	1.045	mg/L	52.25 ppm
3 Pb 220.353	47122.1	47297.2	2.991	mg/L	149.5 ppm
3 Sb 206.833	1895.9	1907.1	0.4429	mg/L	22.14 ppm
3 Se 196.026	1403.8	1351.9	0.4912	mg/L	24.56 ppm
3 Tl 190.800	1991.0	1785.1	0.4136	mg/L	20.68 ppm
3 V 292.402	347437.6	347296.7	2.642	mg/L	132.1 ppm
3 Zn 213.856	110243.3	110852.8	1.006	mg/L	50.31 ppm

ean Data ----------

D: 2805-14 MSD F=50 Seq. No.: 49 Sample No.: 29 A/S Pos: 38

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 4/23/03 2:09:45 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	117220.5	0.5851	0.00448	mg/L	29.25	0.224	ppm	0.76%
l 308.215	5380897.1	166.4	1.48	mg/L	8320	74.0	ppm	0.89%
s 188.979	1469.8	0.5153	0.01431	mg/L	25.77	0.715	ppm	2.78%
a 233.527	2614631.4	6.170	0.0483	mg/L	308.5	2.41	ppm	0.78%

e 313.107	466048.5	0.1736	0.00117 mg/L	8.678	0.0584 ppm	0.67%
a 227.547	15178.4	66.94	1.160 mg/L	3347	58.0 ppm	1.73%
d 228.802	32318.9	0.2503	0.00300 mg/L	12.52	0.150 ppm	1.20%
o 228.616	116354.8	1.130	0.0063 mg/L	56.49	0.313 ppm	0.55%
r 267.716	117698.4	1.280	0.0123 mg/L	64.01	0.614 ppm	0.96%
u 324.754	328267.4	1.106	0.0079 mg/L	55.28	0.393 ppm	0.71%
e 273.955	11777125.0	262.1	1.81 mg/L	13110	90.7 ppm	0.69%
766.491	Saturated					
g 279.079	3975846.4	94.45	0.725 mg/L	4723	36.3 ppm	0.77%
n 257.610	6204018.0	4.661	0.0200 mg/L	233.1	1.00 ppm	0.43%
o 202.030	36342.0	1.963	0.0278 mg/L	98.15	1.390 ppm	1.42%
a 330.237	14796.6	21.66	0.359 mg/L	1083	18.0 ppm	1.66%
i 231.604	51895.9	1.040	0.0067 mg/L	51.99	0.335 ppm	0.64%
b 220.353	46918.5	2.967	0.0244 mg/L	148.3	1.22 ppm	0.82%
b 206.833	1826.8	0.4230	0.02428 mg/L	21.15	1.214 ppm	5.74%
e 196.026	1296.2	0.4733	0.01768 mg/L	23.67	0.884 ppm	3.73%
l 190.800	1746.7	0.4034	0.01304 mg/L	20.17	0.652 ppm	3.23%
292.402	344547.1	2.622	0.0199 mg/L	131.1	0.99 ppm	0.76%
n 213.856	110038.9	0.9987	0.00861 mg/L	49.93	0.431 ppm	0.86%

atrix Check Sample: 2805-14 MSD F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9997	0.5851	0.004	mg/L	58.532
l 308.215	126.3	166.4	1.480	mg/L	2104.136
s 188.979	0.5259	0.5153	0.014	mg/L	97.891
a 233.527	5.259	6.170	0.048	mg/L	122.766
e 313.107	0.1938	0.1736	0.001	mg/L	89.869
a 227.547	63.26	66.94	1.160	mg/L	118.383
d 228.802	0.2489	0.2503	0.003	mg/L	100.555
o 228.616	1.108	1.130	0.006	mg/L	102.144
r 267.716	1.295	1.280	0.012	mg/L	98.537
u 324.754	1.095	1.106	0.008	mg/L	101.066
e 273.955	224.1	262.1	1.814	mg/L	3904.532
766.491			0.000	mg/L	
g 279.079	63.86	94.45	0.725	mg/L	405.934
n 257.610	3.020	4.661	0.020	mg/L	264.061
o 202.030	1.997	1.963	0.028	mg/L	98.313
a 330.237	30.59	21.66	0.359	mg/L	77.676
i 231.604	1.060	1.040	0.007	mg/L	97.948
o 220.353	3.014	2.967	0.024	mg/L	98.426
o 206.833	0.4912	0.4230	0.024	mg/L	86.355
e 196.026	0.4951	0.4733	0.018	mg/L	95.642
l 190.800	0.4502	0.4034	0.013	mg/L	90.648
292.402	2.791	2.622	0.020	mg/L	91.522
n 213.856	0.8684	0.9987	0.009	mg/L	126.042

eplicate Data ----------

D: 2805-14 PS F=50 Date: 4/23/03 2:12:32 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units	Sample Conc.	Units
1	Ag 328.068	171280.6	171351.8	0.8508	mg/L	42.54	ppm
1	Al 308.215	3809348.4	3805301.2	117.7	mg/L	5884	ppm
1	As 188.979	1705.2	1577.0	0.5551	mg/L	27.76	ppm
1	Ba 233.527	2434285.2	2434336.0	5.744	mg/L	287.2	ppm
1	Be 313.107	512244.4	512462.8	0.1908	mg/L	9.542	ppm
1	Ca 227.547	14739.4	14128.1	61.76	mg/L	3088	ppm
1	Cd 228.802	34568.1	34329.8	0.2659	mg/L	13.29	ppm
1	Co 228.616	117588.1	117891.8	1.145	mg/L	57.24	ppm
1	Cr 267.716	118454.7	118755.7	1.297	mg/L	64.83	ppm
1	Cu 324.754	336124.1	332983.7	1.119	mg/L	55.95	ppm
1	Fe 273.955	9693199.1	9692551.4	215.7	mg/L	10790	ppm
1	K 766.491	Saturated					
1	Mg 279.079	2551764.1	2546477.2	60.50	mg/L	3025	ppm
1	Mn 257.610	3795338.6	3794529.1	2.851	mg/L	142.5	ppm
1	Mo 202.030	39171.0	39228.6	2.121	mg/L	106.1	ppm
1	Na 330.237	28551.1	21832.7	31.86	mg/L	1593	ppm
1	Ni 231.604	53971.0	54051.4	1.083	mg/L	54.15	ppm

1	Pb 220.353	50149.0	50324.1	3.176 mg/L	158.8 ppm
1	Sb 206.833	2078.8	2090.0	0.4890 mg/L	24.45 ppm
1	Se 196.026	1539.2	1487.4	0.5238 mg/L	26.19 ppm
1	Tl 190.800	2098.7	1892.9	0.4576 mg/L	22.88 ppm
1	V 292.402	358566.1	358425.1	2.727 mg/L	136.4 ppm
1	Zn 213.856	93614.0	94223.5	0.8559 mg/L	42.79 ppm
2	Ag 328.068	194643.9	194715.1	0.9661 mg/L	48.30 ppm
2	Al 308.215	3861690.9	3857643.7	119.3 mg/L	5965 ppm
2	As 188.979	1572.5	1444.3	0.5092 mg/L	25.46 ppm
2	Ba 233.527	2462094.6	2462145.4	5.810 mg/L	290.5 ppm
2	Be 313.107	516997.5	517215.8	0.1926 mg/L	9.630 ppm
2	Ca 227.547	14309.7	13698.5	60.05 mg/L	3002 ppm
2	Cd 228.802	33665.2	33426.9	0.2589 mg/L	12.94 ppm
2	Co 228.616	118626.4	118930.0	1.155 mg/L	57.75 ppm
2	Cr 267.716	119583.4	119884.4	1.309 mg/L	65.44 ppm
2	Cu 324.754	340124.5	336984.1	1.133 mg/L	56.63 ppm
2	Fe 273.955	9793472.9	9792825.2	217.9 mg/L	10900 ppm
2	K 766.491	Saturated			
2	Mg 279.079	2581076.6	2575789.6	61.19 mg/L	3060 ppm
2	Mn 257.610	3838430.6	3837621.1	2.883 mg/L	144.2 ppm
2	Mo 202.030	38522.8	38580.4	2.086 mg/L	104.3 ppm
2	Na 330.237	28763.6	22045.2	32.17 mg/L	1608 ppm
2	Ni 231.604	54354.5	54434.9	1.091 mg/L	54.53 ppm
2	Pb 220.353	50785.5	50960.7	3.216 mg/L	160.8 ppm
2	Sb 206.833	2094.9	2106.1	0.4927 mg/L	24.64 ppm
2	Se 196.026	1504.8	1452.9	0.5133 mg/L	25.67 ppm
2	Tl 190.800	2125.3	1919.4	0.4641 mg/L	23.21 ppm
2	V 292.402	362376.0	362235.1	2.756 mg/L	137.8 ppm
2	Zn 213.856	94923.5	95532.9	0.8678 mg/L	43.39 ppm
3	Ag 328.068	180801.9	180873.1	0.8980 mg/L	44.90 ppm
3	Al 308.215	3990830.7	3986783.5	123.3 mg/L	6164 ppm
3	As 188.979	1599.9	1471.7	0.5185 mg/L	25.92 ppm
3	Ba 233.527	2436658.2	2436709.0	5.750 mg/L	287.5 ppm
3	Be 313.107	511282.1	511500.4	0.1905 mg/L	9.524 ppm
3	Ca 227.547	14715.3	14104.0	61.83 mg/L	3092 ppm
3	Cd 228.802	34289.0	34050.7	0.2637 mg/L	13.19 ppm
3	Co 228.616	117458.4	117762.1	1.144 mg/L	57.18 ppm
3	Cr 267.716	118669.4	118970.4	1.295 mg/L	64.74 ppm
3	Cu 324.754	335984.5	332844.1	1.119 mg/L	55.95 ppm
3	Fe 273.955	10091952.2	10091304.4	224.6 mg/L	11230 ppm
3	K 766.491	Saturated			
3	Mg 279.079	2657720.9	2652434.0	63.01 mg/L	3151 ppm
3	Mn 257.610	3943448.6	3942639.2	2.962 mg/L	148.1 ppm
3	Mo 202.030	38865.7	38923.4	2.104 mg/L	105.2 ppm
3	Na 330.237	28612.6	21894.1	31.95 mg/L	1597 ppm
3	Ni 231.604	54146.8	54227.2	1.086 mg/L	54.32 ppm
3	Pb 220.353	50115.5	50290.7	3.175 mg/L	158.7 ppm
3	Sb 206.833	2062.7	2073.9	0.4849 mg/L	24.24 ppm
3	Se 196.026	1539.8	1487.9	0.5260 mg/L	26.30 ppm
3	Tl 190.800	2180.7	1974.8	0.4774 mg/L	23.87 ppm
3	V 292.402	358146.5	358005.5	2.724 mg/L	136.2 ppm
3	Zn 213.856	93853.0	94462.5	0.8573 mg/L	42.87 ppm

ean Data ----------

D: 2805-14 PS F=50 Seq. No.: 50 Sample No.: 30 A/S Pos: 39
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 2:12:32 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	182313.4	0.9050	0.05796	mg/L	45.25	2.898	ppm	6.40%
l 308.215	3883242.8	120.1	2.89	mg/L	6004	144.4	ppm	2.41%
s 188.979	1497.6	0.5276	0.02430	mg/L	26.38	1.215	ppm	4.61%
a 233.527	2444396.8	5.768	0.0364	mg/L	288.4	1.82	ppm	0.63%
e 313.107	513726.3	0.1913	0.00114	mg/L	9.565	0.0570	ppm	0.60%
a 227.547	13976.9	61.21	1.008	mg/L	3061	50.4	ppm	1.65%
d 228.802	33935.8	0.2628	0.00358	mg/L	13.14	0.179	ppm	1.36%
o 228.616	118194.6	1.148	0.0062	mg/L	57.39	0.311	ppm	0.54%
r 267.716	119203.5	1.300	0.0077	mg/L	65.00	0.383	ppm	0.59%
u 324.754	334270.6	1.124	0.0078	mg/L	56.18	0.388	ppm	0.69%

e 273.955	9858893.6	219.4	4.62	mg/L	10970	230.8 ppm	2.10%
766.491	Saturated						
g 279.079	2591566.9	61.57	1.300	mg/L	3078	65.0 ppm	2.11%
n 257.610	3858263.1	2.899	0.0572	mg/L	144.9	2.86 ppm	1.97%
o 202.030	38910.8	2.104	0.0176	mg/L	105.2	0.88 ppm	0.84%
a 330.237	21924.0	31.99	0.158	mg/L	1600	7.9 ppm	0.49%
i 231.604	54237.8	1.087	0.0038	mg/L	54.33	0.192 ppm	0.35%
b 220.353	50525.2	3.189	0.0237	mg/L	159.4	1.18 ppm	0.74%
b 206.833	2090.0	0.4889	0.00391	mg/L	24.44	0.195 ppm	0.80%
e 196.026	1476.1	0.5210	0.00677	mg/L	26.05	0.338 ppm	1.30%
l 190.800	1929.0	0.4664	0.01011	mg/L	23.32	0.505 ppm	2.17%
292.402	359555.3	2.736	0.0177	mg/L	136.8	0.89 ppm	0.65%
n 213.856	94739.6	0.8603	0.00652	mg/L	43.02	0.326 ppm	0.76%

atrix Check Sample: 2805-14 PS F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9997	0.9050	0.058	mg/L	90.523
l 308.215	126.3	120.1	2.889	mg/L	-211.494
s 188.979	0.5259	0.5276	0.024	mg/L	100.345
a 233.527	5.259	5.768	0.036	mg/L	112.724
e 313.107	0.1938	0.1913	0.001	mg/L	98.746
a 227.547	63.26	61.21	1.008	mg/L	89.746
d 228.802	0.2489	0.2628	0.004	mg/L	105.564
o 228.616	1.108	1.148	0.006	mg/L	103.930
r 267.716	1.295	1.300	0.008	mg/L	100.518
u 324.754	1.095	1.124	0.008	mg/L	102.863
e 273.955	224.1	219.4	4.616	mg/L	-364.598
766.491			0.000	mg/L	
g 279.079	63.86	61.57	1.300	mg/L	77.075
n 257.610	3.020	2.899	0.057	mg/L	87.826
o 202.030	1.997	2.104	0.018	mg/L	105.350
a 330.237	30.59	31.99	0.158	mg/L	103.510
i 231.604	1.060	1.087	0.004	mg/L	102.640
b 220.353	3.014	3.189	0.024	mg/L	105.832
b 206.833	0.4912	0.4889	0.004	mg/L	99.527
e 196.026	0.4951	0.5210	0.007	mg/L	105.184
l 190.800	0.4502	0.4664	0.010	mg/L	103.236
292.402	2.791	2.736	0.018	mg/L	97.232
n 213.856	0.8684	0.8603	0.007	mg/L	98.379

eplicate Data ----------

D: 2805-1 F=50 Date: 4/23/03 2:15:14 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1446.9	-1375.6	-0.0002	mg/L	-0.0124	ppm
1	Al 308.215	5302010.4	5297963.2	163.8	mg/L	8192	ppm
1	As 188.979	210.6	82.4	0.0244	mg/L	1.222	ppm
1	Ba 233.527	173138.3	173189.1	0.4087	mg/L	20.43	ppm
1	Be 313.107	8794.8	9013.2	0.0034	mg/L	0.1678	ppm
1	Ca 227.547	4676.8	4065.5	21.38	mg/L	1069	ppm
1	Cd 228.802	210.7	-27.6	-0.0002	mg/L	-0.0107	ppm
1	Co 228.616	10813.5	11117.2	0.1080	mg/L	5.398	ppm
1	Cr 267.716	21509.1	21810.1	0.2337	mg/L	11.68	ppm
1	Cu 324.754	23711.3	20570.9	0.0802	mg/L	4.011	ppm
1	Fe 273.955	11101966.6	11101318.9	247.1	mg/L	12350	ppm
1	K 766.491	709796.9	712419.4	27.20	mg/L	1360	ppm
1	Mg 279.079	2103391.4	2098104.5	49.84	mg/L	2492	ppm
1	Mn 257.610	2202512.4	2201703.0	1.654	mg/L	82.71	ppm
1	Mo 202.030	7.1	64.7	-0.0046	mg/L	-0.2277	ppm
1	Na 330.237	12991.9	6273.5	9.213	mg/L	460.7	ppm
1	Ni 231.604	4175.2	4255.6	0.0853	mg/L	4.263	ppm
1	Pb 220.353	253.9	429.1	0.0433	mg/L	2.163	ppm
1	Sb 206.833	25.7	36.9	0.0024	mg/L	0.1186	ppm
1	Se 196.026	-151.1	-203.0	-0.0072	mg/L	-0.3576	ppm
1	Tl 190.800	405.8	199.9	-0.0105	mg/L	-0.5253	ppm
1	V 292.402	82102.4	81961.5	0.6236	mg/L	31.18	ppm
1	Zn 213.856	29657.6	30267.1	0.2597	mg/L	12.99	ppm

2 Ag 328.068	-1675.1	-1603.8	-0.0015 mg/L	-0.0739 ppm	
2 Al 308.215	5202484.5	5198437.3	160.8 mg/L	8038 ppm	
2 As 188.979	196.3	68.1	0.0197 mg/L	0.9873 ppm	
2 Ba 233.527	176334.2	176385.0	0.4162 mg/L	20.81 ppm	
2 Be 313.107	8919.6	9138.0	0.0034 mg/L	0.1701 ppm	
2 Ca 227.547	4892.8	4281.6	22.19 mg/L	1109 ppm	
2 Cd 228.802	189.1	-49.2	-0.0004 mg/L	-0.0191 ppm	
2 Co 228.616	11217.9	11521.6	0.1119 mg/L	5.594 ppm	
2 Cr 267.716	22784.7	23085.7	0.2477 mg/L	12.38 ppm	
2 Cu 324.754	24168.2	21027.8	0.0816 mg/L	4.078 ppm	
2 Fe 273.955	10924178.7	10923530.9	243.1 mg/L	12160 ppm	
2 K 766.491	693921.6	696544.0	26.68 mg/L	1334 ppm	
2 Mg 279.079	2138478.2	2133191.3	50.68 mg/L	2534 ppm	
2 Mn 257.610	2234476.5	2233667.0	1.678 mg/L	83.91 ppm	
2 Mo 202.030	-29.8	27.9	-0.0064 mg/L	-0.3212 ppm	
2 Na 330.237	13196.5	6478.1	9.513 mg/L	475.7 ppm	
2 Ni 231.604	4353.7	4434.1	0.0888 mg/L	4.442 ppm	
2 Pb 220.353	222.3	397.4	0.0410 mg/L	2.049 ppm	
2 Sb 206.833	47.7	58.9	0.0075 mg/L	0.3754 ppm	
2 Se 196.026	-87.6	-139.5	0.0121 mg/L	0.6062 ppm	
2 Tl 190.800	402.5	196.7	-0.0103 mg/L	-0.5171 ppm	
2 V 292.402	83918.1	83777.2	0.6374 mg/L	31.87 ppm	
2 Zn 213.856	31259.1	31868.6	0.2749 mg/L	13.75 ppm	
3 Ag 328.068	-1646.6	-1575.3	-0.0012 mg/L	-0.0610 ppm	
3 Al 308.215	5324683.6	5320636.4	164.5 mg/L	8227 ppm	
3 As 188.979	254.0	125.8	0.0395 mg/L	1.977 ppm	
3 Ba 233.527	167221.4	167272.1	0.3947 mg/L	19.74 ppm	
3 Be 313.107	8411.3	8629.7	0.0032 mg/L	0.1607 ppm	
3 Ca 227.547	5009.2	4397.9	22.75 mg/L	1137 ppm	
3 Cd 228.802	170.7	-67.6	-0.0005 mg/L	-0.0262 ppm	
3 Co 228.616	11185.3	11489.0	0.1116 mg/L	5.578 ppm	
3 Cr 267.716	22803.4	23104.4	0.2478 mg/L	12.39 ppm	
3 Cu 324.754	23123.5	19983.1	0.0783 mg/L	3.914 ppm	
3 Fe 273.955	11124491.4	11123843.7	247.6 mg/L	12380 ppm	
3 K 766.491	712105.1	714727.6	27.28 mg/L	1364 ppm	
3 Mg 279.079	2031274.6	2025987.7	48.13 mg/L	2407 ppm	
3 Mn 257.610	2123673.1	2122863.6	1.595 mg/L	79.74 ppm	
3 Mo 202.030	-67.0	-9.4	-0.0086 mg/L	-0.4296 ppm	
3 Na 330.237	12947.8	6229.3	9.149 mg/L	457.4 ppm	
3 Ni 231.604	4388.5	4468.9	0.0895 mg/L	4.477 ppm	
3 Pb 220.353	220.1	395.3	0.0412 mg/L	2.061 ppm	
3 Sb 206.833	0.1	11.3	-0.0045 mg/L	-0.2243 ppm	
3 Se 196.026	-145.8	-197.6	-0.0053 mg/L	-0.2670 ppm	
3 Tl 190.800	377.7	171.9	-0.0182 mg/L	-0.9110 ppm	
3 V 292.402	79386.4	79245.5	0.6029 mg/L	30.15 ppm	
3 Zn 213.856	31421.2	32030.7	0.2761 mg/L	13.80 ppm	

ean Data ----------

D: 2805-1 F=50 Seq. No.: 51 Sample No.: 31 A/S Pos: 40
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 2:15:14 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	-1518.3	-0.0010	0.00065	mg/L	-0.0491	0.03243	ppm	66.07%
l 308.215	5272345.6	163.0	2.01	mg/L	8152	100.5	ppm	1.23%
s 188.979	92.1	0.0279	0.01034	mg/L	1.395	0.5172	ppm	37.07%
a 233.527	172282.1	0.4065	0.01091	mg/L	20.33	0.546	ppm	2.68%
e 313.107	8926.9	0.0033	0.00010	mg/L	0.1662	0.00493	ppm	2.97%
a 227.547	4248.3	22.11	0.685	mg/L	1105	34.3	ppm	3.10%
d 228.802	-48.1	-0.0004	0.00015	mg/L	-0.0186	0.00774	ppm	41.53%
o 228.616	11375.9	0.1105	0.00218	mg/L	5.523	0.1091	ppm	1.97%
r 267.716	22666.7	0.2430	0.00812	mg/L	12.15	0.406	ppm	3.34%
u 324.754	20527.3	0.0800	0.00164	mg/L	4.001	0.0822	ppm	2.05%
e 273.955	11049564.5	245.9	2.44	mg/L	12300	122.1	ppm	0.99%
766.491	707897.0	27.05	0.326	mg/L	1353	16.3	ppm	1.21%
g 279.079	2085761.1	49.55	1.298	mg/L	2478	64.9	ppm	2.62%
n 257.610	2186077.9	1.642	0.0428	mg/L	82.12	2.142	ppm	2.61%
o 202.030	27.7	-0.0065	0.00202	mg/L	-0.3261	0.10104	ppm	30.98%
a 330.237	6327.0	9.292	0.1945	mg/L	464.6	9.73	ppm	2.09%

i 231.604	4386.2	0.0879	0.00229 mg/L	4.394	0.1147 ppm	2.61%
b 220.353	407.3	0.0418	0.00126 mg/L	2.091	0.0630 ppm	3.01%
b 206.833	35.7	0.0018	0.00602 mg/L	0.0899	0.30089 ppm	334.75%
e 196.026	-180.0	-0.0001	0.01064 mg/L	-0.0062	0.53224 ppm	>999.9%
l 190.800	189.5	-0.0130	0.00450 mg/L	-0.6512	0.22507 ppm	34.56%
292.402	81661.4	0.6213	0.01735 mg/L	31.07	0.868 ppm	2.79%
n 213.856	31388.8	0.2702	0.00912 mg/L	13.51	0.456 ppm	3.37%

eplicate Data ----------

D: CCV 1447B Date: 4/23/03 2:18:20 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	202127.7	202198.9	0.9972	mg/L		
1	Al 308.215	167508.3	163461.1	5.055	mg/L		
1	As 188.979	1562.9	1434.7	0.5022	mg/L		
1	Ba 233.527	2181679.4	2181730.1	5.148	mg/L		
1	Be 313.107	1366374.4	1366592.7	0.5089	mg/L		
1	Ca 227.547	12847.5	12236.2	49.84	mg/L		
1	Cd 228.802	131497.1	131258.8	1.017	mg/L		
1	Co 228.616	210894.8	211198.5	2.051	mg/L		
1	Cr 267.716	45707.0	46008.0	0.5023	mg/L		
1	Cu 324.754	607199.3	604058.9	2.012	mg/L		
1	Fe 273.955	237169.7	236522.0	5.264	mg/L		
1	K 766.491	374773.5	377396.0	15.49	mg/L		
1	Mg 279.079	1084439.1	1079152.1	25.64	mg/L		
1	Mn 257.610	2761395.6	2760586.2	2.074	mg/L		
1	Mo 202.030	37057.7	37115.3	2.014	mg/L		
1	Na 330.237	76485.5	69767.1	99.73	mg/L		
1	Ni 231.604	102508.0	102588.4	2.055	mg/L		
1	Pb 220.353	8030.4	8205.5	0.5160	mg/L		
1	Sb 206.833	8125.9	8137.1	2.036	mg/L		
1	Se 196.026	1698.9	1647.0	0.5252	mg/L		
1	Tl 190.800	2086.6	1880.7	0.5083	mg/L		
1	V 292.402	264174.3	264033.4	2.009	mg/L		
1	Zn 213.856	216584.9	217194.4	2.015	mg/L		
2	Ag 328.068	204579.6	204650.8	1.009	mg/L		
2	Al 308.215	170087.6	166040.4	5.135	mg/L		
2	As 188.979	1556.1	1427.9	0.5000	mg/L		
2	Ba 233.527	2208110.8	2208161.5	5.211	mg/L		
2	Be 313.107	1334918.8	1335137.2	0.4972	mg/L		
2	Ca 227.547	13156.4	12545.1	51.09	mg/L		
2	Cd 228.802	133279.3	133041.0	1.030	mg/L		
2	Co 228.616	214158.5	214462.2	2.083	mg/L		
2	Cr 267.716	46449.6	46750.5	0.5104	mg/L		
2	Cu 324.754	616767.3	613626.9	2.043	mg/L		
2	Fe 273.955	238779.8	238132.0	5.300	mg/L		
2	K 766.491	364194.3	366816.8	15.10	mg/L		
2	Mg 279.079	1099641.2	1094354.2	26.00	mg/L		
2	Mn 257.610	2692879.1	2692069.7	2.023	mg/L		
2	Mo 202.030	37585.1	37642.8	2.042	mg/L		
2	Na 330.237	77381.3	70662.9	101.0	mg/L		
2	Ni 231.604	104077.6	104158.0	2.087	mg/L		
2	Pb 220.353	8017.5	8192.7	0.5152	mg/L		
2	Sb 206.833	8115.1	8126.3	2.033	mg/L		
2	Se 196.026	1684.2	1632.4	0.5205	mg/L		
2	Tl 190.800	2078.5	1872.6	0.5061	mg/L		
2	V 292.402	267529.0	267388.1	2.034	mg/L		
2	Zn 213.856	220149.7	220759.1	2.048	mg/L		
3	Ag 328.068	199878.7	199949.9	0.9861	mg/L		
3	Al 308.215	166703.6	162656.4	5.030	mg/L		
3	As 188.979	1533.8	1405.6	0.4922	mg/L		
3	Ba 233.527	2168857.0	2168907.8	5.118	mg/L		
3	Be 313.107	1388452.2	1388670.6	0.5171	mg/L		
3	Ca 227.547	12980.5	12369.3	50.38	mg/L		
3	Cd 228.802	131010.7	130772.4	1.013	mg/L		
3	Co 228.616	210151.0	210454.7	2.044	mg/L		
3	Cr 267.716	45322.6	45623.6	0.4981	mg/L		
3	Cu 324.754	605552.0	602411.6	2.006	mg/L		

3 Fe 273.955	233072.5	232424.7	5.173 mg/L
3 K 766.491	384168.1	386790.6	15.84 mg/L
3 Mg 279.079	1079635.5	1074348.5	25.52 mg/L
3 Mn 257.610	2797461.4	2796651.9	2.101 mg/L
3 Mo 202.030	37165.7	37223.3	2.019 mg/L
3 Na 330.237	75995.2	69276.7	99.05 mg/L
3 Ni 231.604	102339.7	102420.1	2.052 mg/L
3 Pb 220.353	7912.2	8087.3	0.5085 mg/L
3 Sb 206.833	8021.1	8032.3	2.010 mg/L
3 Se 196.026	1675.9	1624.0	0.5178 mg/L
3 Tl 190.800	2063.4	1857.6	0.5020 mg/L
3 V 292.402	262068.7	261927.8	1.993 mg/L
3 Zn 213.856	215868.8	216478.3	2.009 mg/L

ean Data ----------

D: CCV 1447B Seq. No.: 52 Sample No.: 5 A/S Pos: 6
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 2:18:20 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	202266.5	0.9976	0.01160	mg/L				1.16%
l 308.215	164052.6	5.073	0.0547	mg/L				1.08%
s 188.979	1422.7	0.4981	0.00530	mg/L				1.06%
a 233.527	2186266.5	5.159	0.0472	mg/L				0.92%
e 313.107	1363466.8	0.5077	0.01002	mg/L				1.97%
a 227.547	12383.5	50.44	0.631	mg/L				1.25%
d 228.802	131690.8	1.020	0.0093	mg/L				0.91%
o 228.616	212038.5	2.059	0.0207	mg/L				1.01%
r 267.716	46127.4	0.5036	0.00625	mg/L				1.24%
u 324.754	606699.1	2.020	0.0202	mg/L				1.00%
e 273.955	235692.9	5.245	0.0655	mg/L				1.25%
766.491	377001.1	15.48	0.373	mg/L				2.41%
g 279.079	1082618.3	25.72	0.248	mg/L				0.96%
n 257.610	2749769.2	2.066	0.0399	mg/L				1.93%
o 202.030	37327.1	2.025	0.0151	mg/L				0.75%
a 330.237	69902.2	99.92	0.975	mg/L				0.98%
i 231.604	103055.5	2.065	0.0192	mg/L				0.93%
o 220.353	8161.8	0.5132	0.00408	mg/L				0.79%
o 206.833	8098.6	2.026	0.0144	mg/L				0.71%
e 196.026	1634.5	0.5212	0.00372	mg/L				0.71%
l 190.800	1870.3	0.5054	0.00318	mg/L				0.63%
292.402	264449.8	2.012	0.0210	mg/L				1.04%
n 213.856	218143.9	2.024	0.0213	mg/L				1.05%

eplicate Data ----------

D: CCB Date: 4/23/03 2:21:51 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	7.4	78.6	0.0004	mg/L		
1 Al 308.215	3953.6	-93.6	-0.0029	mg/L		
1 As 188.979	130.1	1.9	0.0006	mg/L		
1 Ba 233.527	411.5	462.3	0.0011	mg/L		
1 Be 313.107	90.2	308.6	0.0001	mg/L		
1 Ca 227.547	631.1	19.8	0.0807	mg/L		
1 Cd 228.802	229.7	-8.6	-0.0001	mg/L		
1 Co 228.616	-192.4	111.3	0.0011	mg/L		
1 Cr 267.716	-317.0	-16.1	-0.0002	mg/L		
1 Cu 324.754	4068.9	928.5	0.0031	mg/L		
1 Fe 273.955	3386.9	2739.1	0.0610	mg/L		
1 K 766.491	-2619.0	3.5	0.0463	mg/L		
1 Mg 279.079	1324.8	-3962.1	-0.0941	mg/L		
1 Mn 257.610	3943.4	3133.9	0.0024	mg/L		
1 Mo 202.030	-35.8	21.9	0.0012	mg/L		
1 Na 330.237	6999.3	280.8	0.4060	mg/L		
1 Ni 231.604	-45.9	34.5	0.0007	mg/L		
1 Pb 220.353	-184.0	-8.9	-0.0006	mg/L		
1 Sb 206.833	6.4	17.6	0.0044	mg/L		
1 Se 196.026	47.8	-4.1	-0.0013	mg/L		
1 Tl 190.800	209.7	3.8	0.0010	mg/L		

1	V 292.402	58.1	-82.8	-0.0006 mg/L
1	Zn 213.856	-508.5	101.0	0.0009 mg/L
2	Ag 328.068	-78.2	-7.0	0.0000 mg/L
2	Al 308.215	4178.2	131.0	0.0040 mg/L
2	As 188.979	124.8	-3.4	-0.0012 mg/L
2	Ba 233.527	224.8	275.6	0.0007 mg/L
2	Be 313.107	-42.5	175.8	0.0001 mg/L
2	Ca 227.547	623.5	12.2	0.0497 mg/L
2	Cd 228.802	218.4	-19.8	-0.0002 mg/L
2	Co 228.616	-184.8	118.9	0.0012 mg/L
2	Cr 267.716	-303.3	-2.3	0.0000 mg/L
2	Cu 324.754	3820.5	680.1	0.0023 mg/L
2	Fe 273.955	3151.7	2504.0	0.0557 mg/L
2	K 766.491	-2515.7	106.8	0.0510 mg/L
2	Mg 279.079	1314.8	-3972.2	-0.0944 mg/L
2	Mn 257.610	3431.1	2621.6	0.0020 mg/L
2	Mo 202.030	-31.3	26.4	0.0014 mg/L
2	Na 330.237	6992.9	274.5	0.3967 mg/L
2	Ni 231.604	-61.4	19.0	0.0004 mg/L
2	Pb 220.353	-174.0	1.2	0.0001 mg/L
2	Sb 206.833	-7.2	4.0	0.0010 mg/L
2	Se 196.026	60.8	8.9	0.0028 mg/L
2	Tl 190.800	200.4	-5.5	-0.0015 mg/L
2	V 292.402	62.9	-78.0	-0.0006 mg/L
2	Zn 213.856	-534.3	75.2	0.0007 mg/L
3	Ag 328.068	-51.3	19.9	0.0001 mg/L
3	Al 308.215	4285.8	238.5	0.0074 mg/L
3	As 188.979	137.0	8.8	0.0030 mg/L
3	Ba 233.527	130.4	181.1	0.0004 mg/L
3	Be 313.107	33.0	251.3	0.0001 mg/L
3	Ca 227.547	621.7	10.4	0.0425 mg/L
3	Cd 228.802	213.0	-25.3	-0.0002 mg/L
3	Co 228.616	-218.8	84.9	0.0008 mg/L
3	Cr 267.716	-294.0	7.0	0.0001 mg/L
3	Cu 324.754	3832.6	692.2	0.0023 mg/L
3	Fe 273.955	2771.2	2123.4	0.0473 mg/L
3	K 766.491	-2568.8	53.6	0.0486 mg/L
3	Mg 279.079	1411.2	-3875.7	-0.0921 mg/L
3	Mn 257.610	3281.2	2471.7	0.0019 mg/L
3	Mo 202.030	-39.1	18.5	0.0010 mg/L
3	Na 330.237	7036.8	318.4	0.4613 mg/L
3	Ni 231.604	-59.6	20.8	0.0004 mg/L
3	Pb 220.353	-172.0	3.2	0.0002 mg/L
3	Sb 206.833	-18.4	-7.2	-0.0018 mg/L
3	Se 196.026	75.3	23.5	0.0075 mg/L
3	Tl 190.800	213.3	7.4	0.0020 mg/L
3	V 292.402	112.0	-28.9	-0.0002 mg/L
3	Zn 213.856	-556.5	53.0	0.0005 mg/L

ean Data ----------

D: CCB Seq. No.: 53 Sample No.: 6 A/S Pos: 1

ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 4/23/03 2:21:51 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	30.5	0.0002	0.00022	mg/L				143.43%
l 308.215	92.0	0.0028	0.00524	mg/L				184.26%
s 188.979	2.4	0.0008	0.00212	mg/L				253.63%
a 233.527	306.3	0.0007	0.00034	mg/L				46.70%
e 313.107	245.2	0.0001	0.00002	mg/L				27.15%
a 227.547	14.1	0.0576	0.02031	mg/L				35.24%
d 228.802	-17.9	-0.0001	0.00007	mg/L				47.47%
o 228.616	105.0	0.0010	0.00017	mg/L				16.96%
r 267.716	-3.8	0.0000	0.00013	mg/L				307.18%
u 324.754	766.9	0.0026	0.00047	mg/L				18.26%
e 273.955	2455.5	0.0546	0.00691	mg/L				12.65%
766.491	54.6	0.0486	0.00234	mg/L				4.82%
g 279.079	-3936.7	-0.0935	0.00126	mg/L				1.35%
n 257.610	2742.4	0.0021	0.00026	mg/L				12.66%

o 202.030	22.3	0.0012	0.00021	mg/L	17.65%
a 330.237	291.2	0.4213	0.03493	mg/L	8.29%
i 231.604	24.8	0.0005	0.00017	mg/L	34.29%
b 220.353	-1.5	-0.0001	0.00041	mg/L	428.45%
b 206.833	4.8	0.0012	0.00313	mg/L	260.35%
e 196.026	9.4	0.0030	0.00438	mg/L	146.22%
l 190.800	1.9	0.0005	0.00180	mg/L	346.98%
292.402	-63.3	-0.0005	0.00023	mg/L	47.21%
n 213.856	76.4	0.0007	0.00022	mg/L	31.46%

eplicate Data

D: 2805-2 F=50 Date: 4/23/03 2:25:04 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2281.3	-2210.0	-0.0014	mg/L	-0.0698	ppm
1	Al 308.215	5555975.9	5551928.7	171.7	mg/L	8584	ppm
1	As 188.979	618.0	489.8	0.1726	mg/L	8.630	ppm
1	Ba 233.527	400497.2	400547.9	0.9452	mg/L	47.26	ppm
1	Be 313.107	4628.7	4847.1	0.0018	mg/L	0.0903	ppm
1	Ca 227.547	23469.7	22858.5	100.1	mg/L	5006	ppm
1	Cd 228.802	358.9	120.6	0.0009	mg/L	0.0467	ppm
1	Co 228.616	19084.7	19388.3	0.1883	mg/L	9.414	ppm
1	Cr 267.716	31253.9	31554.9	0.3380	mg/L	16.90	ppm
1	Cu 324.754	73098.7	69958.3	0.2500	mg/L	12.50	ppm
1	Fe 273.955	16140497.3	16139849.6	359.2	mg/L	17960	ppm
1	K 766.491	Saturated					
1	Mg 279.079	4115630.2	4110343.2	97.65	mg/L	4882	ppm
1	Mn 257.610	5578032.5	5577223.1	4.190	mg/L	209.5	ppm
1	Mo 202.030	32.0	89.6	-0.0069	mg/L	-0.3432	ppm
1	Na 330.237	3637.5	-3080.9	-4.556	mg/L	-227.8	ppm
1	Ni 231.604	10193.9	10274.3	0.2058	mg/L	10.29	ppm
1	Pb 220.353	3400.8	3576.0	0.2419	mg/L	12.10	ppm
1	Sb 206.833	32.7	43.9	0.0010	mg/L	0.0519	ppm
1	Se 196.026	-205.8	-257.7	0.0030	mg/L	0.1510	ppm
1	Tl 190.800	366.5	160.6	-0.0438	mg/L	-2.188	ppm
1	V 292.402	95186.5	95045.6	0.7232	mg/L	36.16	ppm
1	Zn 213.856	112881.3	113490.7	1.022	mg/L	51.12	ppm
2	Ag 328.068	-2332.0	-2260.8	-0.0016	mg/L	-0.0815	ppm
2	Al 308.215	5561949.2	5557902.0	171.9	mg/L	8593	ppm
2	As 188.979	559.2	431.0	0.1521	mg/L	7.604	ppm
2	Ba 233.527	394019.8	394070.5	0.9299	mg/L	46.49	ppm
2	Be 313.107	4746.2	4964.6	0.0018	mg/L	0.0924	ppm
2	Ca 227.547	22402.4	21791.1	95.78	mg/L	4789	ppm
2	Cd 228.802	184.3	-54.0	-0.0004	mg/L	-0.0209	ppm
2	Co 228.616	18365.4	18669.1	0.1813	mg/L	9.065	ppm
2	Cr 267.716	30999.7	31300.6	0.3352	mg/L	16.76	ppm
2	Cu 324.754	71463.8	68323.4	0.2446	mg/L	12.23	ppm
2	Fe 273.955	16168053.1	16167405.4	359.8	mg/L	17990	ppm
2	K 766.491	Saturated					
2	Mg 279.079	4054935.1	4049648.1	96.21	mg/L	4810	ppm
2	Mn 257.610	5570830.5	5570021.0	4.185	mg/L	209.2	ppm
2	Mo 202.030	32.8	90.4	-0.0068	mg/L	-0.3421	ppm
2	Na 330.237	3666.0	-3052.5	-4.514	mg/L	-225.7	ppm
2	Ni 231.604	10011.4	10091.8	0.2022	mg/L	10.11	ppm
2	Pb 220.353	3303.2	3478.4	0.2358	mg/L	11.79	ppm
2	Sb 206.833	85.3	96.5	0.0144	mg/L	0.7184	ppm
2	Se 196.026	-102.4	-154.3	0.0361	mg/L	1.803	ppm
2	Tl 190.800	366.7	160.9	-0.0438	mg/L	-2.189	ppm
2	V 292.402	93435.1	93294.2	0.7098	mg/L	35.49	ppm
2	Zn 213.856	110976.5	111586.0	1.005	mg/L	50.23	ppm
3	Ag 328.068	-2318.1	-2246.9	-0.0017	mg/L	-0.0857	ppm
3	Al 308.215	5473141.6	5469094.4	169.1	mg/L	8456	ppm
3	As 188.979	557.6	429.4	0.1515	mg/L	7.576	ppm
3	Ba 233.527	385606.2	385657.0	0.9100	mg/L	45.50	ppm
3	Be 313.107	4708.3	4926.6	0.0018	mg/L	0.0917	ppm
3	Ca 227.547	22554.8	21943.6	96.29	mg/L	4814	ppm
3	Cd 228.802	255.9	17.6	0.0001	mg/L	0.0068	ppm
3	Co 228.616	18363.2	18666.9	0.1813	mg/L	9.064	ppm

3 Cr 267.716	30102.0	30403.0	0.3255	mg/L	16.28 ppm
3 Cu 324.754	70059.9	66919.5	0.2396	mg/L	11.98 ppm
3 Fe 273.955	15910688.2	15910040.5	354.1	mg/L	17700 ppm
3 K 766.491	Saturated				
3 Mg 279.079	3952463.4	3947176.4	93.77	mg/L	4689 ppm
3 Mn 257.610	5487268.4	5486458.9	4.122	mg/L	206.1 ppm
3 Mo 202.030	78.1	135.8	-0.0042	mg/L	-0.2097 ppm
3 Na 330.237	3766.1	-2952.3	-4.366	mg/L	-218.3 ppm
3 Ni 231.604	9925.0	10005.4	0.2005	mg/L	10.02 ppm
3 Pb 220.353	3337.9	3513.0	0.2377	mg/L	11.89 ppm
3 Sb 206.833	10.2	21.4	-0.0043	mg/L	-0.2138 ppm
3 Se 196.026	-151.4	-203.3	0.0191	mg/L	0.9556 ppm
3 Tl 190.800	279.9	74.0	-0.0658	mg/L	-3.292 ppm
3 V 292.402	91459.7	91318.8	0.6948	mg/L	34.74 ppm
3 Zn 213.856	108677.4	109286.8	0.9838	mg/L	49.19 ppm

ean Data

D: 2805-2 F=50 Seq. No.: 54 Sample No.: 32 A/S Pos: 41
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 2:25:04 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-2239.3	-0.0016	0.00016	mg/L	-0.0790	0.00822	ppm	10.41%
l 308.215	5526308.4	170.9	1.53	mg/L	8545	76.7	ppm	0.90%
s 188.979	450.1	0.1587	0.01202	mg/L	7.937	0.6009	ppm	7.57%
a 233.527	393425.2	0.9284	0.01762	mg/L	46.42	0.881	ppm	1.90%
e 313.107	4912.8	0.0018	0.00002	mg/L	0.0915	0.00112	ppm	1.22%
a 227.547	22197.7	97.40	2.370	mg/L	4870	118.5	ppm	2.43%
d 228.802	28.1	0.0002	0.00068	mg/L	0.0109	0.03399	ppm	312.63%
o 228.616	18908.1	0.1836	0.00404	mg/L	9.181	0.2019	ppm	2.20%
r 267.716	31086.2	0.3329	0.00655	mg/L	16.65	0.328	ppm	1.97%
u 324.754	68400.4	0.2447	0.00518	mg/L	12.24	0.259	ppm	2.12%
e 273.955	16072431.8	357.7	3.14	mg/L	17890	157.2	ppm	0.88%
766.491	Saturated							
g 279.079	4035722.6	95.88	1.959	mg/L	4794	98.0	ppm	2.04%
n 257.610	5544567.7	4.166	0.0379	mg/L	208.3	1.90	ppm	0.91%
o 202.030	105.3	-0.0060	0.00154	mg/L	-0.2983	0.07678	ppm	25.74%
a 330.237	-3028.5	-4.479	0.0999	mg/L	-223.9	4.99	ppm	2.23%
i 231.604	10123.8	0.2028	0.00275	mg/L	10.14	0.138	ppm	1.36%
b 220.353	3522.5	0.2385	0.00313	mg/L	11.92	0.157	ppm	1.31%
b 206.833	53.9	0.0037	0.00960	mg/L	0.1855	0.48022	ppm	258.87%
e 196.026	-205.1	0.0194	0.01652	mg/L	0.9698	0.82610	ppm	85.18%
l 190.800	131.8	-0.0511	0.01275	mg/L	-2.556	0.6374	ppm	24.94%
292.402	93219.5	0.7093	0.01419	mg/L	35.46	0.709	ppm	2.00%
n 213.856	111454.5	1.004	0.0193	mg/L	50.18	0.965	ppm	1.92%

eplicate Data

D: 2805-5 F=50 Date: 4/23/03 2:27:50 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-1934.9	-1863.7	-0.0008	mg/L	-0.0378	ppm
1 Al 308.215	6145186.6	6141139.4	189.9	mg/L	9495	ppm
1 As 188.979	351.5	223.3	0.0774	mg/L	3.869	ppm
1 Ba 233.527	630622.5	630673.3	1.488	mg/L	74.41	ppm
1 Be 313.107	-832.8	-614.5	-0.0002	mg/L	-0.0114	ppm
1 Ca 227.547	19206.7	18595.5	81.96	mg/L	4098	ppm
1 Cd 228.802	630.9	392.6	0.0030	mg/L	0.1520	ppm
1 Co 228.616	14101.7	14405.4	0.1399	mg/L	6.994	ppm
1 Cr 267.716	39484.1	39785.1	0.4286	mg/L	21.43	ppm
1 Cu 324.754	91108.8	87968.4	0.3081	mg/L	15.40	ppm
1 Fe 273.955	14325390.0	14324742.2	318.8	mg/L	15940	ppm
1 K 766.491	Saturated					
1 Mg 279.079	2730782.9	2725495.9	64.75	mg/L	3237	ppm
1 Mn 257.610	4395487.1	4394677.7	3.302	mg/L	165.1	ppm
1 Mo 202.030	144.7	202.3	0.0006	mg/L	0.0285	ppm
1 Na 330.237	3633.1	-3085.3	-4.562	mg/L	-228.1	ppm
1 Ni 231.604	8480.3	8560.7	0.1715	mg/L	8.576	ppm
1 Pb 220.353	7407.6	7582.8	0.4957	mg/L	24.78	ppm
1 Sb 206.833	0.2	11.4	-0.0098	mg/L	-0.4890	ppm

1 Se 196.026	-146.5	-198.4	0.0115 mg/L	0.5735 ppm	
1 Tl 190.800	336.3	130.4	-0.0457 mg/L	-2.285 ppm	
1 V 292.402	102532.0	102391.1	0.7791 mg/L	38.95 ppm	
1 Zn 213.856	153681.0	154290.4	1.404 mg/L	70.22 ppm	
2 Ag 328.068	-1995.5	-1924.3	-0.0012 mg/L	-0.0588 ppm	
2 Al 308.215	6050144.3	6046097.1	187.0 mg/L	9348 ppm	
2 As 188.979	374.5	246.3	0.0853 mg/L	4.267 ppm	
2 Ba 233.527	638008.6	638059.4	1.506 mg/L	75.28 ppm	
2 Be 313.107	-848.3	-629.9	-0.0002 mg/L	-0.0117 ppm	
2 Ca 227.547	18386.0	17774.8	78.53 mg/L	3927 ppm	
2 Cd 228.802	669.3	431.0	0.0033 mg/L	0.1669 ppm	
2 Co 228.616	13655.9	13959.6	0.1356 mg/L	6.778 ppm	
2 Cr 267.716	39703.5	40004.5	0.4311 mg/L	21.55 ppm	
2 Cu 324.754	91479.9	88339.5	0.3091 mg/L	15.45 ppm	
2 Fe 273.955	14119476.8	14118829.0	314.2 mg/L	15710 ppm	
2 K 766.491	Saturated				
2 Mg 279.079	2757393.6	2752106.6	65.38 mg/L	3269 ppm	
2 Mn 257.610	4430109.3	4429299.8	3.328 mg/L	166.4 ppm	
2 Mo 202.030	132.1	189.7	0.0000 mg/L	0.0017 ppm	
2 Na 330.237	3568.8	-3149.6	-4.658 mg/L	-232.9 ppm	
2 Ni 231.604	8318.2	8398.6	0.1683 mg/L	8.413 ppm	
2 Pb 220.353	7033.3	7208.4	0.4719 mg/L	23.59 ppm	
2 Sb 206.833	95.8	107.0	0.0143 mg/L	0.7133 ppm	
2 Se 196.026	-117.6	-169.4	0.0196 mg/L	0.9805 ppm	
2 Tl 190.800	295.9	90.0	-0.0555 mg/L	-2.773 ppm	
2 V 292.402	103979.9	103839.0	0.7901 mg/L	39.50 ppm	
2 Zn 213.856	155227.3	155836.8	1.419 mg/L	70.96 ppm	
3 Ag 328.068	-2090.1	-2018.8	-0.0018 mg/L	-0.0923 ppm	
3 Al 308.215	5878116.4	5874069.2	181.6 mg/L	9082 ppm	
3 As 188.979	330.2	202.0	0.0702 mg/L	3.508 ppm	
3 Ba 233.527	620398.2	620448.9	1.464 mg/L	73.20 ppm	
3 Be 313.107	-748.7	-530.3	-0.0002 mg/L	-0.0099 ppm	
3 Ca 227.547	18579.7	17968.4	79.17 mg/L	3959 ppm	
3 Cd 228.802	772.7	534.4	0.0041 mg/L	0.2069 ppm	
3 Co 228.616	13631.3	13935.0	0.1353 mg/L	6.766 ppm	
3 Cr 267.716	38724.9	39025.9	0.4205 mg/L	21.03 ppm	
3 Cu 324.754	89965.5	86825.1	0.3037 mg/L	15.18 ppm	
3 Fe 273.955	13775094.0	13774446.2	306.6 mg/L	15330 ppm	
3 K 766.491	Saturated				
3 Mg 279.079	2685159.3	2679872.3	63.66 mg/L	3183 ppm	
3 Mn 257.610	4316582.4	4315772.9	3.242 mg/L	162.1 ppm	
3 Mo 202.030	42.8	100.4	-0.0046 mg/L	-0.2280 ppm	
3 Na 330.237	3621.1	-3097.3	-4.580 mg/L	-229.0 ppm	
3 Ni 231.604	8377.6	8458.0	0.1695 mg/L	8.473 ppm	
3 Pb 220.353	7289.6	7464.8	0.4874 mg/L	24.37 ppm	
3 Sb 206.833	7.2	18.4	-0.0078 mg/L	-0.3877 ppm	
3 Se 196.026	-131.4	-183.3	0.0134 mg/L	0.6719 ppm	
3 Tl 190.800	360.0	154.1	-0.0361 mg/L	-1.806 ppm	
3 V 292.402	100611.1	100470.2	0.7644 mg/L	38.22 ppm	
3 Zn 213.856	151672.3	152281.8	1.387 mg/L	69.34 ppm	

ean Data ----------

D: 2805-5 F=50 Seq. No.: 55 Sample No.: 33 A/S Pos: 42

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 4/23/03 2:27:50 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-1935.6	-0.0013	0.00055	mg/L	-0.0630	0.02746	ppm	43.60%
l 308.215	6020435.2	186.2	4.19	mg/L	9309	209.3	ppm	2.25%
s 188.979	223.9	0.0776	0.00760	mg/L	3.881	0.3801	ppm	9.79%
a 233.527	629727.2	1.486	0.0209	mg/L	74.30	1.043	ppm	1.40%
e 313.107	-591.6	-0.0002	0.00002	mg/L	-0.0110	0.00100	ppm	9.06%
a 227.547	18112.9	79.89	1.825	mg/L	3994	91.3	ppm	2.28%
d 228.802	452.7	0.0035	0.00057	mg/L	0.1753	0.02839	ppm	16.20%
o 228.616	14100.0	0.1369	0.00257	mg/L	6.846	0.1285	ppm	1.88%
r 267.716	39605.2	0.4267	0.00551	mg/L	21.34	0.276	ppm	1.29%
u 324.754	87711.0	0.3069	0.00287	mg/L	15.35	0.144	ppm	0.94%
e 273.955	14072672.5	313.2	6.19	mg/L	15660	309.4	ppm	1.98%
766.491	Saturated							

g 279.079	2719158.3	64.60	0.868	mg/L	3230	43.4 ppm	1.34%
n 257.610	4379916.8	3.291	0.0437	mg/L	164.5	2.19 ppm	1.33%
o 202.030	164.2	-0.0013	0.00282	mg/L	-0.0659	0.14099 ppm	213.86%
a 330.237	-3110.7	-4.600	0.0506	mg/L	-230.0	2.53 ppm	1.10%
i 231.604	8472.5	0.1697	0.00164	mg/L	8.487	0.0821 ppm	0.97%
b 220.353	7418.7	0.4850	0.01210	mg/L	24.25	0.605 ppm	2.50%
b 206.833	45.6	-0.0011	0.01334	mg/L	-0.0545	0.66680 ppm	>999.9%
e 196.026	-183.7	0.0148	0.00425	mg/L	0.7420	0.21233 ppm	28.62%
l 190.800	124.9	-0.0458	0.00967	mg/L	-2.288	0.4837 ppm	21.14%
292.402	102233.4	0.7779	0.01286	mg/L	38.89	0.643 ppm	1.65%
n 213.856	154136.4	1.403	0.0162	mg/L	70.17	0.809 ppm	1.15%

eplicate Data ----------

D: 2805-6 F=50 Date: 4/23/03 2:30:36 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-2320.5	-2249.2	-0.0027	mg/L	-0.1326	ppm
1	Al 308.215	4273202.5	4269155.3	132.0	mg/L	6601	ppm
1	As 188.979	640.3	512.1	0.1798	mg/L	8.992	ppm
1	Ba 233.527	249522.3	249573.0	0.5889	mg/L	29.45	ppm
1	Be 313.107	11863.2	12081.5	0.0045	mg/L	0.2250	ppm
1	Ca 227.547	8962.0	8350.8	40.24	mg/L	2012	ppm
1	Cd 228.802	157.2	-81.1	-0.0006	mg/L	-0.0314	ppm
1	Co 228.616	16794.0	17097.6	0.1660	mg/L	8.302	ppm
1	Cr 267.716	21945.3	22246.3	0.2371	mg/L	11.86	ppm
1	Cu 324.754	112711.7	109571.3	0.3800	mg/L	19.00	ppm
1	Fe 273.955	14336456.0	14335808.3	319.1	mg/L	15950	ppm
1	K 766.491	Saturated					
1	Mg 279.079	3395658.8	3390371.8	80.54	mg/L	4027	ppm
1	Mn 257.610	5116008.7	5115199.2	3.843	mg/L	192.2	ppm
1	Mo 202.030	54.0	111.6	-0.0044	mg/L	-0.2180	ppm
1	Na 330.237	6484.0	-234.4	-0.3536	mg/L	-17.68	ppm
1	Ni 231.604	9735.2	9815.6	0.1967	mg/L	9.833	ppm
1	Pb 220.353	2199.7	2374.9	0.1625	mg/L	8.123	ppm
1	Sb 206.833	68.9	80.1	0.0131	mg/L	0.6557	ppm
1	Se 196.026	-130.7	-182.6	0.0179	mg/L	0.8936	ppm
1	Tl 190.800	335.0	129.2	-0.0401	mg/L	-2.007	ppm
1	V 292.402	87731.5	87590.6	0.6664	mg/L	33.32	ppm
1	Zn 213.856	115142.2	115751.7	1.047	mg/L	52.34	ppm
2	Ag 328.068	-2630.8	-2559.6	-0.0041	mg/L	-0.2054	ppm
2	Al 308.215	4285290.6	4281243.4	132.4	mg/L	6620	ppm
2	As 188.979	623.7	495.5	0.1741	mg/L	8.705	ppm
2	Ba 233.527	249286.3	249337.1	0.5884	mg/L	29.42	ppm
2	Be 313.107	11816.4	12034.7	0.0045	mg/L	0.2241	ppm
2	Ca 227.547	8811.4	8200.2	39.69	mg/L	1984	ppm
2	Cd 228.802	182.0	-56.3	-0.0004	mg/L	-0.0218	ppm
2	Co 228.616	16608.4	16912.1	0.1642	mg/L	8.212	ppm
2	Cr 267.716	21591.5	21892.5	0.2332	mg/L	11.66	ppm
2	Cu 324.754	112217.7	109077.3	0.3785	mg/L	18.93	ppm
2	Fe 273.955	14462290.9	14461643.1	321.9	mg/L	16090	ppm
2	K 766.491	Saturated					
2	Mg 279.079	3394250.6	3388963.6	80.51	mg/L	4026	ppm
2	Mn 257.610	5141200.9	5140391.5	3.862	mg/L	193.1	ppm
2	Mo 202.030	0.1	57.7	-0.0074	mg/L	-0.3688	ppm
2	Na 330.237	6495.9	-222.5	-0.3360	mg/L	-16.80	ppm
2	Ni 231.604	9714.0	9794.4	0.1962	mg/L	9.812	ppm
2	Pb 220.353	2142.4	2317.5	0.1589	mg/L	7.945	ppm
2	Sb 206.833	59.3	70.5	0.0108	mg/L	0.5403	ppm
2	Se 196.026	-116.9	-168.8	0.0230	mg/L	1.148	ppm
2	Tl 190.800	357.6	151.7	-0.0346	mg/L	-1.730	ppm
2	V 292.402	87513.1	87372.2	0.6648	mg/L	33.24	ppm
2	Zn 213.856	115191.2	115800.7	1.047	mg/L	52.35	ppm
3	Ag 328.068	-2251.3	-2180.1	-0.0021	mg/L	-0.1055	ppm
3	Al 308.215	4153415.7	4149368.5	128.3	mg/L	6416	ppm
3	As 188.979	609.6	481.4	0.1700	mg/L	8.499	ppm
3	Ba 233.527	242750.2	242801.0	0.5729	mg/L	28.65	ppm
3	Be 313.107	11475.6	11694.0	0.0044	mg/L	0.2177	ppm
3	Ca 227.547	9480.0	8868.7	42.50	mg/L	2125	ppm

3 Cd 228.802	194.7	-43.6	-0.0003 mg/L	-0.0169 ppm	
3 Co 228.616	17693.8	17997.5	0.1748 mg/L	8.739 ppm	
3 Cr 267.716	23171.2	23472.2	0.2504 mg/L	12.52 ppm	
3 Cu 324.754	108692.1	105551.7	0.3670 mg/L	18.35 ppm	
3 Fe 273.955	14678451.3	14677803.6	326.7 mg/L	16330 ppm	
3 K 766.491	Saturated				
3 Mg 279.079	3303646.0	3298359.1	78.36 mg/L	3918 ppm	
3 Mn 257.610	5221492.2	5220682.8	3.922 mg/L	196.1 ppm	
3 Mo 202.030	-29.0	28.7	-0.0091 mg/L	-0.4554 ppm	
3 Na 330.237	6371.8	-346.6	-0.5190 mg/L	-25.95 ppm	
3 Ni 231.604	10244.5	10324.9	0.2069 mg/L	10.34 ppm	
3 Pb 220.353	2250.4	2425.5	0.1653 mg/L	8.264 ppm	
3 Sb 206.833	49.5	60.7	0.0078 mg/L	0.3920 ppm	
3 Se 196.026	-217.6	-269.5	-0.0078 mg/L	-0.3898 ppm	
3 Tl 190.800	322.9	117.0	-0.0444 mg/L	-2.218 ppm	
3 V 292.402	85401.7	85260.8	0.6487 mg/L	32.44 ppm	
3 Zn 213.856	111689.1	112298.5	1.014 mg/L	50.71 ppm	

ean Data ----------

D: 2805-6 F=50 Seq. No.: 56 Sample No.: 34 A/S Pos: 43

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0

Data: Original Date: 4/23/03 2:30:36 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-2329.6	-0.0030	0.00103	mg/L	-0.1478	0.05169	ppm	34.97%
l 308.215	4233255.7	130.9	2.25	mg/L	6545	112.7	ppm	1.72%
s 188.979	496.4	0.1746	0.00495	mg/L	8.732	0.2473	ppm	2.83%
a 233.527	247237.0	0.5834	0.00907	mg/L	29.17	0.453	ppm	1.55%
e 313.107	11936.7	0.0044	0.00008	mg/L	0.2223	0.00394	ppm	1.77%
a 227.547	8473.2	40.81	1.491	mg/L	2041	74.6	ppm	3.65%
d 228.802	-60.3	-0.0005	0.00015	mg/L	-0.0234	0.00739	ppm	31.63%
o 228.616	17335.7	0.1683	0.00564	mg/L	8.417	0.2819	ppm	3.35%
r 267.716	22537.0	0.2402	0.00899	mg/L	12.01	0.450	ppm	3.74%
u 324.754	108066.8	0.3752	0.00712	mg/L	18.76	0.356	ppm	1.90%
e 273.955	14491751.6	322.5	3.85	mg/L	16130	192.5	ppm	1.19%
766.491	Saturated							
g 279.079	3359231.5	79.80	1.252	mg/L	3990	62.6	ppm	1.57%
n 257.610	5158757.8	3.876	0.0414	mg/L	193.8	2.07	ppm	1.07%
o 202.030	66.0	-0.0069	0.00240	mg/L	-0.3474	0.12016	ppm	34.59%
a 330.237	-267.9	-0.4029	0.10098	mg/L	-20.14	5.049	ppm	25.07%
i 231.604	9978.3	0.1999	0.00602	mg/L	9.996	0.3009	ppm	3.01%
b 220.353	2372.6	0.1622	0.00320	mg/L	8.110	0.1599	ppm	1.97%
b 206.833	70.4	0.0106	0.00264	mg/L	0.5293	0.13222	ppm	24.98%
e 196.026	-207.0	0.0110	0.01648	mg/L	0.5505	0.82417	ppm	149.72%
l 190.800	132.6	-0.0397	0.00489	mg/L	-1.985	0.2447	ppm	12.33%
292.402	86741.2	0.6600	0.00979	mg/L	33.00	0.489	ppm	1.48%
n 213.856	114617.0	1.036	0.0189	mg/L	51.80	0.947	ppm	1.83%

eplicate Data ----------

D: 2805-7 F=50 Date: 4/23/03 2:33:22 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-2097.9	-2026.6	-0.0018	mg/L	-0.0919	ppm
1 Al 308.215	3816459.4	3812412.2	117.9	mg/L	5895	ppm
1 As 188.979	555.6	427.4	0.1518	mg/L	7.592	ppm
1 Ba 233.527	282978.6	283029.3	0.6679	mg/L	33.39	ppm
1 Be 313.107	4830.2	5048.5	0.0019	mg/L	0.0940	ppm
1 Ca 227.547	11038.3	10427.1	48.49	mg/L	2425	ppm
1 Cd 228.802	166.2	-72.1	-0.0006	mg/L	-0.0279	ppm
1 Co 228.616	14672.1	14975.7	0.1454	mg/L	7.271	ppm
1 Cr 267.716	23905.0	24206.0	0.2587	mg/L	12.94	ppm
1 Cu 324.754	69105.1	65964.7	0.2343	mg/L	11.71	ppm
1 Fe 273.955	13855269.1	13854621.3	308.3	mg/L	15420	ppm
1 K 766.491	860919.7	863542.2	32.05	mg/L	1602	ppm
1 Mg 279.079	3610872.2	3605585.3	85.66	mg/L	4283	ppm
1 Mn 257.610	5053904.9	5053095.4	3.796	mg/L	189.8	ppm
1 Mo 202.030	71.8	129.5	-0.0030	mg/L	-0.1521	ppm
1 Na 330.237	3169.3	-3549.2	-5.248	mg/L	-262.4	ppm
1 Ni 231.604	9333.2	9413.6	0.1886	mg/L	9.430	ppm

1 Pb 220.353	2580.3	2755.4	0.1850 mg/L	9.249 ppm	
1 Sb 206.833	51.9	63.1	0.0082 mg/L	0.4107 ppm	
1 Se 196.026	-52.9	-104.8	0.0403 mg/L	2.015 ppm	
1 Tl 190.800	309.9	104.1	-0.0435 mg/L	-2.176 ppm	
1 V 292.402	89822.5	89681.6	0.6824 mg/L	34.12 ppm	
1 Zn 213.856	93992.3	94601.8	0.8515 mg/L	42.57 ppm	

alibration Summary ----------
ethod: 23ME ICP-M Date: 4/23/03 2:36:04 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	202761.6	0.00000	0.999942
l 308.215	3	Linear-thru-Zero	0.0	32338.0	0.00000	0.999862
s 188.979	3	Linear-thru-Zero	0.0	2888.4	0.00000	0.999757
a 233.527	3	Linear-thru-Zero	0.0	423784.1	0.00000	0.999473
e 313.107	3	Linear-thru-Zero	0.0	2685329.9	0.00000	0.999950
a 227.547	3	Linear-thru-Zero	0.0	245.5	0.00000	0.999922
d 228.802	3	Linear-thru-Zero	0.0	129120.3	0.00000	0.999828
o 228.616	3	Linear-thru-Zero	0.0	102978.0	0.00000	0.999552
r 267.716	3	Linear-thru-Zero	0.0	91592.9	0.00000	0.999623
u 324.754	3	Linear-thru-Zero	0.0	300295.6	0.00000	0.999782
e 273.955	3	Linear-thru-Zero	0.0	44932.6	0.00000	0.998106
766.491	3	Non-Linear	-1017.1	22038.8	154.06843	0.998652
g 279.079	3	Linear-thru-Zero	0.0	42093.4	0.00000	0.999596
n 257.610	3	Linear-thru-Zero	0.0	1331037.4	0.00000	0.999760
o 202.030	3	Linear-thru-Zero	0.0	18433.2	0.00000	0.999852
a 330.237	3	Non-Linear	5.4	678.4	0.21158	0.999846
i 231.604	3	Linear-thru-Zero	0.0	49912.8	0.00000	0.999403
b 220.353	3	Linear-thru-Zero	0.0	15903.3	0.00000	0.999856
b 206.833	3	Linear-thru-Zero	0.0	3967.7	0.00000	0.999819
e 196.026	3	Linear-thru-Zero	0.0	3144.1	0.00000	0.999666
l 190.800	3	Linear-thru-Zero	0.0	3700.4	0.00000	0.999381
292.402	3	Linear-thru-Zero	0.0	131430.3	0.00000	0.999694
n 213.856	3	Linear-thru-Zero	0.0	107770.3	0.00000	0.999875

eplicate Data ----------
D: 2805-7 F=200 Date: 4/23/03 2:37:28 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1 Ag 328.068	-603.1	-531.9	-0.0026 mg/L	-0.5247 ppm
1 Al 308.215	989398.8	985351.5	30.47 mg/L	6094 ppm
1 As 188.979	250.8	122.6	0.0427 mg/L	8.541 ppm
1 Ba 233.527	75037.0	75087.7	0.1772 mg/L	35.44 ppm
1 Be 313.107	864.8	1083.1	0.0004 mg/L	0.0807 ppm
1 Ca 227.547	3380.8	2769.5	11.28 mg/L	2256 ppm
1 Cd 228.802	211.9	-26.4	-0.0002 mg/L	-0.0409 ppm
1 Co 228.616	3646.8	3950.5	0.0384 mg/L	7.673 ppm
1 Cr 267.716	6075.5	6376.5	0.0696 mg/L	13.92 ppm
1 Cu 324.754	19699.7	16559.3	0.0551 mg/L	11.03 ppm
1 Fe 273.955	3760610.5	3759962.8	83.68 mg/L	16740 ppm
1 K 766.491	178855.4	181477.9	7.850 mg/L	1570 ppm
1 Mg 279.079	946885.1	941598.1	22.37 mg/L	4474 ppm
1 Mn 257.610	1330405.4	1329596.0	0.9989 mg/L	199.8 ppm
1 Mo 202.030	-33.7	24.0	0.0013 mg/L	0.2600 ppm
1 Na 330.237	5788.8	-929.6	-1.379 mg/L	-275.8 ppm
1 Ni 231.604	2444.0	2524.4	0.0506 mg/L	10.12 ppm
1 Pb 220.353	539.4	714.5	0.0480 mg/L	9.592 ppm
1 Sb 206.833	12.7	23.9	0.0040 mg/L	0.7996 ppm
1 Se 196.026	12.9	-38.9	0.0083 mg/L	1.666 ppm
1 Tl 190.800	243.5	37.7	-0.0086 mg/L	-1.714 ppm
1 V 292.402	23862.0	23721.1	0.1805 mg/L	36.10 ppm
1 Zn 213.856	24502.8	25112.3	0.2259 mg/L	45.17 ppm
2 Ag 328.068	-555.2	-483.9	-0.0024 mg/L	-0.4773 ppm
2 Al 308.215	966828.8	962781.6	29.77 mg/L	5954 ppm
2 As 188.979	247.0	118.8	0.0414 mg/L	8.273 ppm
2 Ba 233.527	74232.5	74283.2	0.1753 mg/L	35.06 ppm
2 Be 313.107	796.6	1015.0	0.0004 mg/L	0.0756 ppm

2 Ca 227.547	3360.5	2749.2	11.20	mg/L	2239 ppm
2 Cd 228.802	209.5	-28.8	-0.0002	mg/L	-0.0446 ppm
2 Co 228.616	3609.7	3913.4	0.0380	mg/L	7.600 ppm
2 Cr 267.716	6011.4	6312.4	0.0689	mg/L	13.78 ppm
2 Cu 324.754	19359.7	16219.3	0.0540	mg/L	10.80 ppm
2 Fe 273.955	3664271.4	3663623.6	81.54	mg/L	16310 ppm
2 K 766.491	174937.2	177559.6	7.689	mg/L	1538 ppm
2 Mg 279.079	922623.6	917336.6	21.79	mg/L	4359 ppm
2 Mn 257.610	1294761.5	1293952.0	0.9721	mg/L	194.4 ppm
2 Mo 202.030	-33.0	24.7	0.0013	mg/L	0.2676 ppm
2 Na 330.237	5811.2	-907.2	-1.346	mg/L	-269.2 ppm
2 Ni 231.604	2408.0	2488.4	0.0499	mg/L	9.971 ppm
2 Pb 220.353	545.3	720.5	0.0483	mg/L	9.653 ppm
2 Sb 206.833	5.6	16.8	0.0022	mg/L	0.4442 ppm
2 Se 196.026	19.4	-32.4	0.0099	mg/L	1.974 ppm
2 Tl 190.800	254.1	48.2	-0.0052	mg/L	-1.048 ppm
2 V 292.402	23316.4	23175.5	0.1763	mg/L	35.27 ppm
2 Zn 213.856	24405.2	25014.7	0.2251	mg/L	45.03 ppm
3 Ag 328.068	-470.1	-398.8	-0.0020	mg/L	-0.3934 ppm
3 Al 308.215	1025706.7	1021659.5	31.59	mg/L	6319 ppm
3 As 188.979	256.3	128.2	0.0446	mg/L	8.921 ppm
3 Ba 233.527	73294.7	73345.5	0.1731	mg/L	34.61 ppm
3 Be 313.107	878.7	1097.0	0.0004	mg/L	0.0817 ppm
3 Ca 227.547	3361.1	2749.9	11.20	mg/L	2240 ppm
3 Cd 228.802	226.7	-11.6	-0.0001	mg/L	-0.0179 ppm
3 Co 228.616	3616.0	3919.7	0.0381	mg/L	7.613 ppm
3 Cr 267.716	5975.3	6276.3	0.0685	mg/L	13.70 ppm
3 Cu 324.754	19461.7	16321.3	0.0584	mg/L	11.69 ppm
3 Fe 273.955	3862629.1	3861981.4	85.95	mg/L	17190 ppm
3 K 766.491	188730.1	191352.6	8.253	mg/L	1651 ppm
3 Mg 279.079	976859.7	971572.8	23.08	mg/L	4616 ppm
3 Mn 257.610	1366144.5	1365335.1	1.026	mg/L	205.2 ppm
3 Mo 202.030	-27.5	30.2	0.0016	mg/L	0.3273 ppm
3 Na 330.237	6021.9	-696.5	-1.035	mg/L	-207.0 ppm
3 Ni 231.604	2402.2	2482.5	0.0497	mg/L	9.948 ppm
3 Pb 220.353	560.1	735.2	0.0494	mg/L	9.874 ppm
3 Sb 206.833	9.7	20.9	0.0053	mg/L	1.052 ppm
3 Se 196.026	8.3	-43.5	0.0074	mg/L	1.487 ppm
3 Tl 190.800	250.9	45.1	-0.0071	mg/L	-1.421 ppm
3 V 292.402	23274.7	23133.8	0.1760	mg/L	35.20 ppm
3 Zn 213.856	24112.6	24722.1	0.2221	mg/L	44.41 ppm

ean Data ----------

D: 2805-7 F=200 Seq. No.: 58 Sample No.: 1 A/S Pos: 44
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 2:37:28 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-471.6	-0.0023	0.00033	mg/L	-0.4651	0.06647	ppm	14.29%
l 308.215	989930.9	30.61	0.919	mg/L	6122	183.7	ppm	3.00%
s 188.979	123.2	0.0429	0.00163	mg/L	8.578	0.3254	ppm	3.79%
a 233.527	74238.8	0.1752	0.00206	mg/L	35.04	0.412	ppm	1.17%
e 313.107	1065.0	0.0004	0.00002	mg/L	0.0793	0.00327	ppm	4.12%
a 227.547	2756.2	11.23	0.047	mg/L	2245	9.4	ppm	0.42%
d 228.802	-22.2	-0.0002	0.00007	mg/L	-0.0345	0.01445	ppm	41.93%
o 228.616	3927.9	0.0381	0.00019	mg/L	7.629	0.0386	ppm	0.51%
r 267.716	6321.7	0.0690	0.00055	mg/L	13.80	0.111	ppm	0.80%
u 324.754	16366.6	0.0559	0.00229	mg/L	11.17	0.459	ppm	4.11%
e 273.955	3761855.9	83.72	2.208	mg/L	16740	441.5	ppm	2.64%
766.491	183463.4	7.931	0.2901	mg/L	1586	58.0	ppm	3.66%
g 279.079	943502.5	22.41	0.645	mg/L	4483	129.1	ppm	2.88%
n 257.610	1329627.7	0.9989	0.02681	mg/L	199.8	5.36	ppm	2.68%
o 202.030	26.3	0.0014	0.00018	mg/L	0.2850	0.03687	ppm	12.94%
a 330.237	-844.5	-1.253	0.1897	mg/L	-250.7	37.94	ppm	15.14%
i 231.604	2498.4	0.0501	0.00045	mg/L	10.01	0.091	ppm	0.91%
b 220.353	723.4	0.0485	0.00074	mg/L	9.706	0.1485	ppm	1.53%
b 206.833	20.5	0.0038	0.00153	mg/L	0.7651	0.30510	ppm	39.88%
e 196.026	-38.3	0.0085	0.00123	mg/L	1.709	0.2468	ppm	14.44%
l 190.800	43.7	-0.0070	0.00167	mg/L	-1.394	0.3341	ppm	23.96%
292.402	23343.5	0.1776	0.00249	mg/L	35.52	0.499	ppm	1.40%

n 213.856	24949.7	0.2244	0.00203 mg/L	44.87	0.405 ppm	0.90%

eplicate Data
D: 2805-8 F=50 Date: 4/23/03 2:40:50 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-3073.9	-3002.6	-0.0036	mg/L	-0.1780	ppm
1	Al 308.215	4059442.9	4055395.7	125.4	mg/L	6270	ppm
1	As 188.979	676.7	548.5	0.1982	mg/L	9.909	ppm
1	Ba 233.527	310117.0	310167.7	0.7319	mg/L	36.60	ppm
1	Be 313.107	14075.0	14293.3	0.0053	mg/L	0.2661	ppm
1	Ca 227.547	11660.5	11049.2	53.31	mg/L	2665	ppm
1	Cd 228.802	234.3	-4.0	0.0000	mg/L	-0.0015	ppm
1	Co 228.616	17140.0	17443.7	0.1694	mg/L	8.470	ppm
1	Cr 267.716	33287.9	33588.9	0.3590	mg/L	17.95	ppm
1	Cu 324.754	57901.2	54760.8	0.2025	mg/L	10.13	ppm
1	Fe 273.955	19104143.0	19103495.3	425.2	mg/L	21260	ppm
1	K 766.491	727362.6	729985.1	27.78	mg/L	1389	ppm
1	Mg 279.079	2880219.5	2874932.5	68.30	mg/L	3415	ppm
1	Mn 257.610	5328446.9	5327637.4	4.003	mg/L	200.1	ppm
1	Mo 202.030	25.0	82.6	-0.0094	mg/L	-0.4698	ppm
1	Na 330.237	7494.9	776.5	1.136	mg/L	56.81	ppm
1	Ni 231.604	8416.3	8496.7	0.1702	mg/L	8.512	ppm
1	Pb 220.353	3211.6	3386.8	0.2254	mg/L	11.27	ppm
1	Sb 206.833	74.0	85.2	0.0108	mg/L	0.5402	ppm
1	Se 196.026	-301.7	-353.6	-0.0101	mg/L	-0.5050	ppm
1	Tl 190.800	417.6	211.7	-0.0364	mg/L	-1.819	ppm
1	V 292.402	109481.2	109340.3	0.8319	mg/L	41.60	ppm
1	Zn 213.856	106632.8	107242.3	0.9588	mg/L	47.94	ppm

alibration Summary
ethod: 23ME ICP-M Date: 4/23/03 2:42:27 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	202761.6	0.00000	0.999942
l 308.215	3	Linear-thru-Zero	0.0	32338.0	0.00000	0.999862
s 188.979	3	Linear-thru-Zero	0.0	2888.4	0.00000	0.999757
a 233.527	3	Linear-thru-Zero	0.0	423784.1	0.00000	0.999473
e 313.107	3	Linear-thru-Zero	0.0	2685329.9	0.00000	0.999950
a 227.547	3	Linear-thru-Zero	0.0	245.5	0.00000	0.999922
d 228.802	3	Linear-thru-Zero	0.0	129120.3	0.00000	0.999828
o 228.616	3	Linear-thru-Zero	0.0	102978.0	0.00000	0.999552
r 267.716	3	Linear-thru-Zero	0.0	91592.9	0.00000	0.999623
u 324.754	3	Linear-thru-Zero	0.0	300295.6	0.00000	0.999782
e 273.955	3	Linear-thru-Zero	0.0	44932.6	0.00000	0.998106
766.491	3	Non-Linear	-1017.1	22038.8	154.06843	0.998652
g 279.079	3	Linear-thru-Zero	0.0	42093.4	0.00000	0.999596
n 257.610	3	Linear-thru-Zero	0.0	1331037.4	0.00000	0.999760
o 202.030	3	Linear-thru-Zero	0.0	18433.2	0.00000	0.999852
a 330.237	3	Non-Linear	5.4	678.4	0.21158	0.999846
i 231.604	3	Linear-thru-Zero	0.0	49912.8	0.00000	0.999403
b 220.353	3	Linear-thru-Zero	0.0	15903.3	0.00000	0.999856
b 206.833	3	Linear-thru-Zero	0.0	3967.7	0.00000	0.999819
e 196.026	3	Linear-thru-Zero	0.0	3144.1	0.00000	0.999666
l 190.800	3	Linear-thru-Zero	0.0	3700.4	0.00000	0.999381
292.402	3	Linear-thru-Zero	0.0	131430.3	0.00000	0.999694
n 213.856	3	Linear-thru-Zero	0.0	107770.3	0.00000	0.999875

eplicate Data
D: 2805-8 F=200 Date: 4/23/03 2:43:52 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-910.3	-839.0	-0.0041	mg/L	-0.8276	ppm
1	Al 308.215	1019873.1	1015825.9	31.41	mg/L	6283	ppm
1	As 188.979	264.4	136.2	0.0483	mg/L	9.657	ppm
1	Ba 233.527	78578.5	78629.3	0.1855	mg/L	37.11	ppm

1	Be 313.107	3204.0	3422.4	0.0013 mg/L	0.2549 ppm
1	Ca 227.547	3412.2	2801.0	13.56 mg/L	2712 ppm
1	Cd 228.802	193.6	-44.7	-0.0003 mg/L	-0.0692 ppm
1	Co 228.616	4224.9	4528.6	0.0440 mg/L	8.795 ppm
1	Cr 267.716	8253.0	8554.0	0.0934 mg/L	18.68 ppm
1	Cu 324.754	17228.4	14088.0	0.0521 mg/L	10.43 ppm
1	Fe 273.955	4950702.2	4950054.5	110.2 mg/L	22030 ppm
1	K 766.491	137132.3	139754.8	6.125 mg/L	1225 ppm
1	Mg 279.079	737231.2	731944.2	17.39 mg/L	3478 ppm
1	Mn 257.610	1313746.6	1312937.1	0.9864 mg/L	197.3 ppm
1	Mo 202.030	-34.6	23.0	-0.0023 mg/L	-0.4695 ppm
1	Na 330.237	7140.7	422.3	0.6144 mg/L	122.9 ppm
1	Ni 231.604	2156.9	2237.3	0.0448 mg/L	8.965 ppm
1	Pb 220.353	688.3	863.5	0.0574 mg/L	11.48 ppm
1	Sb 206.833	4.3	15.5	0.0012 mg/L	0.2364 ppm
1	Se 196.026	-16.9	-68.7	0.0054 mg/L	1.082 ppm
1	Tl 190.800	271.2	65.4	-0.0061 mg/L	-1.213 ppm
1	V 292.402	27747.9	27607.0	0.2101 mg/L	42.01 ppm
1	Zn 213.856	26806.1	27415.6	0.2450 mg/L	49.00 ppm
2	Ag 328.068	-917.2	-846.0	-0.0042 mg/L	-0.8344 ppm
2	Al 308.215	1026198.1	1022150.9	31.61 mg/L	6322 ppm
2	As 188.979	260.9	132.7	0.0470 mg/L	9.401 ppm
2	Ba 233.527	78632.9	78683.6	0.1857 mg/L	37.13 ppm
2	Be 313.107	3214.3	3432.6	0.0013 mg/L	0.2557 ppm
2	Ca 227.547	3409.0	2797.8	13.52 mg/L	2704 ppm
2	Cd 228.802	210.0	-28.3	-0.0002 mg/L	-0.0438 ppm
2	Co 228.616	4161.5	4465.2	0.0434 mg/L	8.672 ppm
2	Cr 267.716	8052.6	8353.6	0.0912 mg/L	18.24 ppm
2	Cu 324.754	16754.8	13614.4	0.0505 mg/L	10.10 ppm
2	Fe 273.955	4888727.9	4888080.1	108.8 mg/L	21760 ppm
2	K 766.491	134914.9	137537.4	6.032 mg/L	1206 ppm
2	Mg 279.079	738535.9	733249.0	17.42 mg/L	3484 ppm
2	Mn 257.610	1311691.2	1310881.7	0.9849 mg/L	197.0 ppm
2	Mo 202.030	-46.8	10.9	-0.0030 mg/L	-0.5922 ppm
2	Na 330.237	7058.2	339.7	0.4928 mg/L	98.56 ppm
2	Ni 231.604	2109.5	2189.9	0.0439 mg/L	8.775 ppm
2	Pb 220.353	667.6	842.8	0.0561 mg/L	11.23 ppm
2	Sb 206.833	20.7	31.9	0.0054 mg/L	1.077 ppm
2	Se 196.026	-14.0	-65.9	0.0060 mg/L	1.195 ppm
2	Tl 190.800	260.8	55.0	-0.0086 mg/L	-1.729 ppm
2	V 292.402	27842.6	27701.7	0.2108 mg/L	42.15 ppm
2	Zn 213.856	26784.7	27394.2	0.2449 mg/L	48.98 ppm
3	Ag 328.068	-1017.8	-946.5	-0.0047 mg/L	-0.9336 ppm
3	Al 308.215	1037111.3	1033064.1	31.95 mg/L	6389 ppm
3	As 188.979	261.5	133.3	0.0473 mg/L	9.454 ppm
3	Ba 233.527	79141.8	79192.6	0.1869 mg/L	37.37 ppm
3	Be 313.107	2976.0	3194.3	0.0012 mg/L	0.2379 ppm
3	Ca 227.547	3428.2	2816.9	13.65 mg/L	2729 ppm
3	Cd 228.802	185.4	-52.9	-0.0004 mg/L	-0.0820 ppm
3	Co 228.616	4196.9	4500.6	0.0437 mg/L	8.741 ppm
3	Cr 267.716	8295.2	8596.1	0.0939 mg/L	18.77 ppm
3	Cu 324.754	16590.9	13450.5	0.0501 mg/L	10.01 ppm
3	Fe 273.955	5000682.2	5000034.4	111.3 mg/L	22260 ppm
3	K 766.491	140744.7	143367.2	6.276 mg/L	1255 ppm
3	Mg 279.079	743899.2	738612.3	17.55 mg/L	3509 ppm
3	Mn 257.610	1324623.7	1323814.2	0.9946 mg/L	198.9 ppm
3	Mo 202.030	-40.8	16.8	-0.0027 mg/L	-0.5442 ppm
3	Na 330.237	7052.1	333.6	0.4838 mg/L	96.76 ppm
3	Ni 231.604	2119.0	2199.4	0.0441 mg/L	8.813 ppm
3	Pb 220.353	684.4	859.6	0.0572 mg/L	11.45 ppm
3	Sb 206.833	10.4	21.6	0.0027 mg/L	0.5432 ppm
3	Se 196.026	-23.1	-74.9	0.0037 mg/L	0.7425 ppm
3	Tl 190.800	262.4	56.5	-0.0087 mg/L	-1.744 ppm
3	V 292.402	27998.1	27857.2	0.2120 mg/L	42.39 ppm
3	Zn 213.856	26930.6	27540.1	0.2460 mg/L	49.21 ppm

ean Data ----------

D: 2805-8 F=200 Seq. No.: 60 Sample No.: 1 A/S Pos: 45

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0

Data: Original Date: 4/23/03 2:43:52 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-877.2	-0.0043	0.00030	mg/L	-0.8652	0.05934	ppm	6.86%
l 308.215	1023680.3	31.66	0.270	mg/L	6331	53.9	ppm	0.85%
s 188.979	134.1	0.0475	0.00068	mg/L	9.504	0.1353	ppm	1.42%
a 233.527	78835.2	0.1860	0.00073	mg/L	37.21	0.147	ppm	0.39%
e 313.107	3349.8	0.0012	0.00005	mg/L	0.2495	0.01004	ppm	4.02%
a 227.547	2805.2	13.58	0.065	mg/L	2715	12.9	ppm	0.48%
d 228.802	-42.0	-0.0003	0.00010	mg/L	-0.0650	0.01945	ppm	29.93%
o 228.616	4498.1	0.0437	0.00031	mg/L	8.736	0.0617	ppm	0.71%
r 267.716	8501.2	0.0928	0.00142	mg/L	18.56	0.283	ppm	1.52%
u 324.754	13717.7	0.0509	0.00109	mg/L	10.18	0.219	ppm	2.15%
e 273.955	4946056.3	110.1	1.25	mg/L	22020	249.6	ppm	1.13%
766.491	140219.8	6.145	0.1229	mg/L	1229	24.6	ppm	2.00%
g 279.079	734601.8	17.45	0.084	mg/L	3490	16.8	ppm	0.48%
n 257.610	1315877.7	0.9886	0.00522	mg/L	197.7	1.04	ppm	0.53%
o 202.030	16.9	-0.0027	0.00031	mg/L	-0.5353	0.06183	ppm	11.55%
a 330.237	365.2	0.5303	0.07296	mg/L	106.1	14.59	ppm	13.76%
i 231.604	2208.9	0.0443	0.00050	mg/L	8.851	0.1004	ppm	1.13%
b 220.353	855.3	0.0569	0.00069	mg/L	11.39	0.138	ppm	1.21%
b 206.833	23.0	0.0031	0.00213	mg/L	0.6188	0.42515	ppm	68.71%
e 196.026	-69.9	0.0050	0.00118	mg/L	1.006	0.2353	ppm	23.38%
l 190.800	59.0	-0.0078	0.00151	mg/L	-1.562	0.3026	ppm	19.37%
292.402	27722.0	0.2109	0.00096	mg/L	42.19	0.192	ppm	0.46%
n 213.856	27450.0	0.2453	0.00064	mg/L	49.06	0.127	ppm	0.26%

eplicate Data

D: 2805-9 F=50 Date: 4/23/03 2:47:14 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1746.2	-1675.0	-0.0002	mg/L	-0.0079	ppm
1	Al 308.215	6096589.7	6092542.5	188.4	mg/L	9420	ppm
1	As 188.979	379.4	251.2	0.0849	mg/L	4.247	ppm
1	Ba 233.527	653649.2	653700.0	1.543	mg/L	77.13	ppm
1	Be 313.107	-19092.6	-18874.3	-0.0070	mg/L	-0.3514	ppm
1	Ca 227.547	9990.9	9379.7	44.18	mg/L	2209	ppm
1	Cd 228.802	314.9	76.6	0.0006	mg/L	0.0297	ppm
1	Co 228.616	16608.4	16912.1	0.1642	mg/L	8.212	ppm
1	Cr 267.716	32420.1	32721.1	0.3517	mg/L	17.59	ppm
1	Cu 324.754	58824.6	55684.2	0.2000	mg/L	9.998	ppm
1	Fe 273.955	13760866.2	13760218.4	306.2	mg/L	15310	ppm
1	K 766.491	Saturated					
1	Mg 279.079	3797437.2	3792150.3	90.09	mg/L	4504	ppm
1	Mn 257.610	5062625.9	5061816.4	3.803	mg/L	190.1	ppm
1	Mo 202.030	-17.7	40.0	-0.0078	mg/L	-0.3914	ppm
1	Na 330.237	-5430.3	-12148.7	-18.02	mg/L	-900.9	ppm
1	Ni 231.604	6035.9	6116.3	0.1225	mg/L	6.127	ppm
1	Pb 220.353	3349.4	3524.5	0.2404	mg/L	12.02	ppm
1	Sb 206.833	72.6	83.8	0.0107	mg/L	0.5356	ppm
1	Se 196.026	-102.2	-154.0	0.0225	mg/L	1.125	ppm
1	Tl 190.800	204.5	-1.4	-0.0794	mg/L	-3.971	ppm
1	V 292.402	113906.4	113765.4	0.8656	mg/L	43.28	ppm
1	Zn 213.856	81232.2	81841.7	0.7332	mg/L	36.66	ppm

alibration Summary

ethod: 23ME ICP-M Date: 4/23/03 2:48:58 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	202761.6	0.00000	0.999942
l 308.215	3	Linear-thru-Zero	0.0	32338.0	0.00000	0.999862
s 188.979	3	Linear-thru-Zero	0.0	2888.4	0.00000	0.999757
a 233.527	3	Linear-thru-Zero	0.0	423784.1	0.00000	0.999473
e 313.107	3	Linear-thru-Zero	0.0	2685329.9	0.00000	0.999950
a 227.547	3	Linear-thru-Zero	0.0	245.5	0.00000	0.999922
d 228.802	3	Linear-thru-Zero	0.0	129120.3	0.00000	0.999828
o 228.616	3	Linear-thru-Zero	0.0	102978.0	0.00000	0.999552
r 267.716	3	Linear-thru-Zero	0.0	91592.9	0.00000	0.999623

u 324.754	3	Linear-thru-Zero	0.0	300295.6	0.00000	0.999782
e 273.955	3	Linear-thru-Zero	0.0	44932.6	0.00000	0.998106
766.491	3	Non-Linear	-1017.1	22038.8	154.06843	0.998652
g 279.079	3	Linear-thru-Zero	0.0	42093.4	0.00000	0.999596
n 257.610	3	Linear-thru-Zero	0.0	1331037.4	0.00000	0.999760
o 202.030	3	Linear-thru-Zero	0.0	18433.2	0.00000	0.999852
a 330.237	3	Non-Linear	5.4	678.4	0.21158	0.999846
i 231.604	3	Linear-thru-Zero	0.0	49912.8	0.00000	0.999403
b 220.353	3	Linear-thru-Zero	0.0	15903.3	0.00000	0.999856
b 206.833	3	Linear-thru-Zero	0.0	3967.7	0.00000	0.999819
e 196.026	3	Linear-thru-Zero	0.0	3144.1	0.00000	0.999666
l 190.800	3	Linear-thru-Zero	0.0	3700.4	0.00000	0.999381
292.402	3	Linear-thru-Zero	0.0	131430.3	0.00000	0.999694
n 213.856	3	Linear-thru-Zero	0.0	107770.3	0.00000	0.999875

eplicate Data

D: 2805-9 F=200 Date: 4/23/03 2:50:24 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-486.7	-415.5	-0.0020	mg/L	-0.4098	ppm
1	Al 308.215	1571150.2	1567103.0	48.46	mg/L	9692	ppm
1	As 188.979	189.3	61.1	0.0197	mg/L	3.941	ppm
1	Ba 233.527	166715.2	166765.9	0.3935	mg/L	78.70	ppm
1	Be 313.107	-5203.2	-4984.9	-0.0019	mg/L	-0.3713	ppm
1	Ca 227.547	3156.7	2545.4	10.37	mg/L	2073	ppm
1	Cd 228.802	224.9	-13.4	-0.0001	mg/L	-0.0208	ppm
1	Co 228.616	4210.8	4514.5	0.0438	mg/L	8.768	ppm
1	Cr 267.716	8135.5	8436.5	0.0921	mg/L	18.42	ppm
1	Cu 324.754	17041.4	13901.0	0.0463	mg/L	9.258	ppm
1	Fe 273.955	3687147.6	3686499.9	82.05	mg/L	16410	ppm
1	K 766.491	340968.1	343590.6	14.22	mg/L	2844	ppm
1	Mg 279.079	967466.8	962179.8	22.86	mg/L	4572	ppm
1	Mn 257.610	1316247.9	1315438.4	0.9883	mg/L	197.7	ppm
1	Mo 202.030	-42.4	15.2	0.0008	mg/L	0.1653	ppm
1	Na 330.237	3985.3	-2733.2	-4.042	mg/L	-808.4	ppm
1	Ni 231.604	1572.7	1653.1	0.0331	mg/L	6.624	ppm
1	Pb 220.353	739.5	914.7	0.0623	mg/L	12.47	ppm
1	Sb 206.833	-17.9	-6.7	-0.0044	mg/L	-0.8738	ppm
1	Se 196.026	7.3	-44.6	0.0050	mg/L	1.005	ppm
1	Tl 190.800	208.1	2.3	-0.0198	mg/L	-3.958	ppm
1	V 292.402	28935.6	28794.7	0.2191	mg/L	43.82	ppm
1	Zn 213.856	20520.9	21130.4	0.1891	mg/L	37.81	ppm
2	Ag 328.068	-696.8	-625.6	-0.0031	mg/L	-0.6171	ppm
2	Al 308.215	1551688.2	1547641.0	47.86	mg/L	9572	ppm
2	As 188.979	174.9	46.8	0.0148	mg/L	2.963	ppm
2	Ba 233.527	164156.5	164207.2	0.3875	mg/L	77.50	ppm
2	Be 313.107	-5266.2	-5047.8	-0.0019	mg/L	-0.3760	ppm
2	Ca 227.547	3118.8	2507.5	10.21	mg/L	2043	ppm
2	Cd 228.802	192.1	-46.2	-0.0004	mg/L	-0.0716	ppm
2	Co 228.616	4156.3	4460.0	0.0433	mg/L	8.662	ppm
2	Cr 267.716	7946.5	8247.5	0.0900	mg/L	18.01	ppm
2	Cu 324.754	16730.2	13589.8	0.0453	mg/L	9.051	ppm
2	Fe 273.955	3700620.0	3699972.2	82.34	mg/L	16470	ppm
2	K 766.491	348571.2	351193.7	14.51	mg/L	2902	ppm
2	Mg 279.079	952319.0	947032.0	22.50	mg/L	4500	ppm
2	Mn 257.610	1292701.6	1291892.1	0.9706	mg/L	194.1	ppm
2	Mo 202.030	-39.7	18.0	0.0010	mg/L	0.1950	ppm
2	Na 330.237	3878.8	-2839.7	-4.199	mg/L	-839.9	ppm
2	Ni 231.604	1525.6	1606.0	0.0322	mg/L	6.435	ppm
2	Pb 220.353	730.8	905.9	0.0617	mg/L	12.34	ppm
2	Sb 206.833	5.8	17.0	0.0017	mg/L	0.3307	ppm
2	Se 196.026	13.8	-38.1	0.0072	mg/L	1.434	ppm
2	Tl 190.800	212.4	6.5	-0.0186	mg/L	-3.728	ppm
2	V 292.402	28508.9	28368.0	0.2158	mg/L	43.17	ppm
2	Zn 213.856	20228.8	20838.3	0.1863	mg/L	37.26	ppm
3	Ag 328.068	-627.6	-556.3	-0.0027	mg/L	-0.5488	ppm
3	Al 308.215	1552783.2	1548736.0	47.89	mg/L	9578	ppm
3	As 188.979	171.2	43.0	0.0135	mg/L	2.700	ppm

3	Ba 233.527	164315.2	164366.0	0.3879 mg/L	77.57 ppm
3	Be 313.107	-5286.3	-5068.0	-0.0019 mg/L	-0.3775 ppm
3	Ca 227.547	3158.2	2546.9	10.37 mg/L	2075 ppm
3	Cd 228.802	192.5	-45.8	-0.0004 mg/L	-0.0709 ppm
3	Co 228.616	4183.9	4487.6	0.0436 mg/L	8.716 ppm
3	Cr 267.716	7906.3	8207.3	0.0896 mg/L	17.92 ppm
3	Cu 324.754	16685.0	13544.6	0.0451 mg/L	9.021 ppm
3	Fe 273.955	3675583.6	3674935.9	81.79 mg/L	16360 ppm
3	K 766.491	346818.0	349440.5	14.44 mg/L	2889 ppm
3	Mg 279.079	954524.0	949237.0	22.55 mg/L	4510 ppm
3	Mn 257.610	1294332.4	1293522.9	0.9718 mg/L	194.4 ppm
3	Mo 202.030	-43.3	14.4	0.0008 mg/L	0.1560 ppm
3	Na 330.237	3790.4	-2928.0	-4.330 mg/L	-866.0 ppm
3	Ni 231.604	1520.5	1600.9	0.0321 mg/L	6.415 ppm
3	Pb 220.353	739.0	914.1	0.0622 mg/L	12.45 ppm
3	Sb 206.833	-6.9	4.3	-0.0015 mg/L	-0.3064 ppm
3	Se 196.026	1.5	-50.3	0.0031 mg/L	0.6274 ppm
3	Tl 190.800	206.6	0.7	-0.0201 mg/L	-4.020 ppm
3	V 292.402	28425.7	28284.8	0.2152 mg/L	43.04 ppm
3	Zn 213.856	20170.8	20780.3	0.1858 mg/L	37.17 ppm

ean Data ----------

D: 2805-9 F=200 Seq. No.: 62 Sample No.: 1 A/S Pos: 46
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 2:50:24 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-532.5	-0.0026	0.00053	mg/L	-0.5252	0.10561	ppm	20.11%
l 308.215	1554493.3	48.07	0.338	mg/L	9614	67.6	ppm	0.70%
s 188.979	50.3	0.0160	0.00327	mg/L	3.201	0.6542	ppm	20.44%
a 233.527	165113.0	0.3896	0.00338	mg/L	77.92	0.677	ppm	0.87%
e 313.107	-5033.6	-0.0019	0.00002	mg/L	-0.3749	0.00323	ppm	0.86%
a 227.547	2533.3	10.32	0.091	mg/L	2064	18.2	ppm	0.88%
d 228.802	-35.2	-0.0003	0.00015	mg/L	-0.0544	0.02915	ppm	53.53%
o 228.616	4487.4	0.0436	0.00026	mg/L	8.715	0.0530	ppm	0.61%
r 267.716	8297.1	0.0906	0.00134	mg/L	18.12	0.267	ppm	1.48%
u 324.754	13678.5	0.0456	0.00065	mg/L	9.110	0.1292	ppm	1.42%
e 273.955	3687136.0	82.06	0.279	mg/L	16410	55.8	ppm	0.34%
766.491	348074.9	14.39	0.150	mg/L	2878	30.1	ppm	1.05%
g 279.079	952816.3	22.64	0.194	mg/L	4527	38.9	ppm	0.86%
n 257.610	1300284.5	0.9769	0.00988	mg/L	195.4	1.98	ppm	1.01%
o 202.030	15.9	0.0009	0.00010	mg/L	0.1721	0.02041	ppm	11.86%
a 330.237	-2833.6	-4.190	0.1442	mg/L	-838.1	28.84	ppm	3.44%
i 231.604	1620.0	0.0325	0.00058	mg/L	6.491	0.1153	ppm	1.78%
b 220.353	911.6	0.0621	0.00033	mg/L	12.42	0.066	ppm	0.53%
b 206.833	4.8	-0.0014	0.00301	mg/L	-0.2832	0.60258	ppm	212.79%
e 196.026	-44.3	0.0051	0.00202	mg/L	1.022	0.4034	ppm	39.48%
l 190.800	3.2	-0.0195	0.00077	mg/L	-3.902	0.1538	ppm	3.94%
292.402	28482.5	0.2167	0.00208	mg/L	43.34	0.416	ppm	0.96%
n 213.856	20916.3	0.1871	0.00174	mg/L	37.41	0.348	ppm	0.93%

eplicate Data ----------

D: 2805-10 F=50 Date: 4/23/03 2:53:47 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-2338.5	-2267.3	-0.0024	mg/L	-0.1181	ppm
1	Al 308.215	5417968.2	5413921.0	167.4	mg/L	8371	ppm
1	As 188.979	670.6	542.4	0.1888	mg/L	9.439	ppm
1	Ba 233.527	354571.0	354621.8	0.8368	mg/L	41.84	ppm
1	Be 313.107	15452.8	15671.1	0.0058	mg/L	0.2918	ppm
1	Ca 227.547	12460.8	11849.5	54.77	mg/L	2739	ppm
1	Cd 228.802	268.4	30.1	0.0002	mg/L	0.0117	ppm
1	Co 228.616	20705.6	21009.3	0.2040	mg/L	10.20	ppm
1	Cr 267.716	30341.1	30642.1	0.3285	mg/L	16.43	ppm
1	Cu 324.754	86527.0	83386.6	0.2935	mg/L	14.67	ppm
1	Fe 273.955	14978656.3	14978008.5	333.3	mg/L	16670	ppm
1	K 766.491	Saturated					
1	Mg 279.079	4942181.0	4936894.0	117.3	mg/L	5864	ppm
1	Mn 257.610	6564188.7	6563379.2	4.931	mg/L	246.6	ppm

1	Mo 202.030	58.1	115.8	-0.0046 mg/L	-0.2300 ppm
1	Na 330.237	9807.8	3089.3	4.540 mg/L	227.0 ppm
1	Ni 231.604	14569.2	14649.6	0.2935 mg/L	14.68 ppm
1	Pb 220.353	5198.5	5373.6	0.3545 mg/L	17.73 ppm
1	Sb 206.833	124.6	135.8	0.0245 mg/L	1.224 ppm
1	Se 196.026	-146.8	-198.6	0.0155 mg/L	0.7754 ppm
1	Tl 190.800	427.4	221.6	-0.0225 mg/L	-1.124 ppm
1	V 292.402	76295.4	76154.5	0.5794 mg/L	28.97 ppm
1	Zn 213.856	139397.8	140007.3	1.271 mg/L	63.53 ppm

alibration Summary ----------

ethod: 23ME ICP-M Date: 4/23/03 2:55:25 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	202761.6	0.00000	0.999942
l 308.215	3	Linear-thru-Zero	0.0	32338.0	0.00000	0.999862
s 188.979	3	Linear-thru-Zero	0.0	2888.4	0.00000	0.999757
a 233.527	3	Linear-thru-Zero	0.0	423784.1	0.00000	0.999473
e 313.107	3	Linear-thru-Zero	0.0	2685329.9	0.00000	0.999950
a 227.547	3	Linear-thru-Zero	0.0	245.5	0.00000	0.999922
d 228.802	3	Linear-thru-Zero	0.0	129120.3	0.00000	0.999828
o 228.616	3	Linear-thru-Zero	0.0	102978.0	0.00000	0.999552
r 267.716	3	Linear-thru-Zero	0.0	91592.9	0.00000	0.999623
u 324.754	3	Linear-thru-Zero	0.0	300295.6	0.00000	0.999782
e 273.955	3	Linear-thru-Zero	0.0	44932.6	0.00000	0.998106
766.491	3	Non-Linear	-1017.1	22038.8	154.06843	0.998652
g 279.079	3	Linear-thru-Zero	0.0	42093.4	0.00000	0.999596
n 257.610	3	Linear-thru-Zero	0.0	1331037.4	0.00000	0.999760
o 202.030	3	Linear-thru-Zero	0.0	18433.2	0.00000	0.999852
a 330.237	3	Non-Linear	5.4	678.4	0.21158	0.999846
i 231.604	3	Linear-thru-Zero	0.0	49912.8	0.00000	0.999403
o 220.353	3	Linear-thru-Zero	0.0	15903.3	0.00000	0.999856
o 206.833	3	Linear-thru-Zero	0.0	3967.7	0.00000	0.999819
e 196.026	3	Linear-thru-Zero	0.0	3144.1	0.00000	0.999666
l 190.800	3	Linear-thru-Zero	0.0	3700.4	0.00000	0.999381
292.402	3	Linear-thru-Zero	0.0	131430.3	0.00000	0.999694
n 213.856	3	Linear-thru-Zero	0.0	107770.3	0.00000	0.999875

eplicate Data ----------

): 2805-10 F=200 Date: 4/23/03 2:56:50 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-571.8	-500.5	-0.0025	mg/L	-0.4937	ppm
1	Al 308.215	1393797.9	1389750.7	42.98	mg/L	8595	ppm
1	As 188.979	284.3	156.1	0.0534	mg/L	10.68	ppm
1	Ba 233.527	93187.8	93238.6	0.2200	mg/L	44.00	ppm
1	Be 313.107	3536.0	3754.3	0.0014	mg/L	0.2796	ppm
1	Ca 227.547	3657.0	3045.7	12.40	mg/L	2481	ppm
1	Cd 228.802	245.4	7.1	0.0001	mg/L	0.0110	ppm
1	Co 228.616	5231.9	5535.5	0.0538	mg/L	10.75	ppm
1	Cr 267.716	7744.4	8045.3	0.0878	mg/L	17.57	ppm
1	Cu 324.754	24802.5	21662.1	0.0764	mg/L	15.28	ppm
1	Fe 273.955	4061507.9	4060860.2	90.38	mg/L	18080	ppm
1	K 766.491	219897.4	222519.9	9.511	mg/L	1902	ppm
1	Mg 279.079	1274009.7	1268722.7	30.14	mg/L	6028	ppm
1	Mn 257.610	1715298.2	1714488.7	1.288	mg/L	257.6	ppm
1	Mo 202.030	-28.8	28.9	0.0016	mg/L	0.3132	ppm
1	Na 330.237	7411.5	693.1	1.013	mg/L	202.7	ppm
1	Ni 231.604	3769.4	3849.7	0.0771	mg/L	15.43	ppm
1	Pb 220.353	1183.2	1358.3	0.0897	mg/L	17.94	ppm
1	Sb 206.833	9.8	21.0	0.0027	mg/L	0.5473	ppm
1	Se 196.026	14.2	-37.7	0.0104	mg/L	2.078	ppm
1	Tl 190.800	278.3	72.5	-0.0018	mg/L	-0.3513	ppm
1	V 292.402	20058.8	19917.9	0.1515	mg/L	30.31	ppm
1	Zn 213.856	36692.4	37301.9	0.3384	mg/L	67.68	ppm
2	Ag 328.068	-747.3	-676.0	-0.0033	mg/L	-0.6668	ppm
2	Al 308.215	1411447.1	1407399.9	43.52	mg/L	8704	ppm

2	As 188.979	275.0	146.8	0.0501 mg/L	10.03 ppm
2	Ba 233.527	91731.9	91782.6	0.2166 mg/L	43.32 ppm
2	Be 313.107	3466.0	3684.3	0.0014 mg/L	0.2744 ppm
2	Ca 227.547	3701.4	3090.1	12.59 mg/L	2517 ppm
2	Cd 228.802	228.8	-9.5	-0.0001 mg/L	-0.0147 ppm
2	Co 228.616	5255.6	5559.3	0.0540 mg/L	10.80 ppm
2	Cr 267.716	7646.2	7947.2	0.0868 mg/L	17.35 ppm
2	Cu 324.754	24327.0	21186.6	0.0749 mg/L	14.97 ppm
2	Fe 273.955	4083281.5	4082633.7	90.86 mg/L	18170 ppm
2	K 766.491	225930.9	228553.4	9.752 mg/L	1950 ppm
2	Mg 279.079	1285070.7	1279783.7	30.40 mg/L	6081 ppm
2	Mn 257.610	1725615.5	1724806.0	1.296 mg/L	259.2 ppm
2	Mo 202.030	-30.0	27.6	0.0015 mg/L	0.3000 ppm
2	Na 330.237	7585.6	867.2	1.270 mg/L	254.0 ppm
2	Ni 231.604	3754.9	3835.3	0.0768 mg/L	15.37 ppm
2	Pb 220.353	1191.5	1366.6	0.0903 mg/L	18.05 ppm
2	Sb 206.833	23.1	34.3	0.0061 mg/L	1.225 ppm
2	Se 196.026	6.3	-45.6	0.0080 mg/L	1.601 ppm
2	Tl 190.800	274.8	69.0	-0.0029 mg/L	-0.5708 ppm
2	V 292.402	19897.9	19757.0	0.1503 mg/L	30.06 ppm
2	Zn 213.856	36234.7	36844.2	0.3341 mg/L	66.82 ppm
3	Ag 328.068	-681.9	-610.6	-0.0030 mg/L	-0.6023 ppm
3	Al 308.215	1385020.3	1380973.1	42.70 mg/L	8541 ppm
3	As 188.979	277.6	149.4	0.0510 mg/L	10.21 ppm
3	Ba 233.527	92802.3	92853.1	0.2191 mg/L	43.82 ppm
3	Be 313.107	3621.1	3839.4	0.0014 mg/L	0.2860 ppm
3	Ca 227.547	3648.7	3037.4	12.37 mg/L	2474 ppm
3	Cd 228.802	236.8	-1.5	0.0000 mg/L	-0.0024 ppm
3	Co 228.616	5236.8	5540.5	0.0538 mg/L	10.76 ppm
3	Cr 267.716	7622.2	7923.2	0.0865 mg/L	17.30 ppm
3	Cu 324.754	24254.6	21114.2	0.0745 mg/L	14.91 ppm
3	Fe 273.955	3999057.4	3998409.7	88.99 mg/L	17800 ppm
3	K 766.491	220772.4	223394.8	9.546 mg/L	1909 ppm
3	Mg 279.079	1260731.6	1255444.6	29.83 mg/L	5965 ppm
3	Mn 257.610	1693902.3	1693092.9	1.272 mg/L	254.4 ppm
3	Mo 202.030	-26.0	31.7	0.0017 mg/L	0.3437 ppm
3	Na 330.237	7696.2	977.7	1.433 mg/L	286.5 ppm
3	Ni 231.604	3751.3	3831.7	0.0768 mg/L	15.35 ppm
3	Pb 220.353	1222.5	1397.7	0.0921 mg/L	18.43 ppm
3	Sb 206.833	18.4	29.6	0.0049 mg/L	0.9891 ppm
3	Se 196.026	12.9	-39.0	0.0096 mg/L	1.926 ppm
3	Tl 190.800	277.2	71.4	-0.0018 mg/L	-0.3550 ppm
3	V 292.402	19931.3	19790.4	0.1506 mg/L	30.12 ppm
3	Zn 213.856	36481.8	37091.3	0.3366 mg/L	67.31 ppm

ean Data ----------

D: 2805-10 F=200 Seq. No.: 64 Sample No.: 1 A/S Pos: 47
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 2:56:50 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Sample Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-595.7	-0.0029	0.00044	mg/L	-0.5876	0.08749	ppm	14.89%
l 308.215	1392707.9	43.07	0.416	mg/L	8613	83.2	ppm	0.97%
s 188.979	150.7	0.0515	0.00168	mg/L	10.31	0.335	ppm	3.25%
a 233.527	92624.8	0.2186	0.00178	mg/L	43.71	0.356	ppm	0.81%
e 313.107	3759.3	0.0014	0.00003	mg/L	0.2800	0.00578	ppm	2.07%
a 227.547	3057.7	12.45	0.115	mg/L	2491	23.1	ppm	0.93%
d 228.802	-1.3	0.0000	0.00006	mg/L	-0.0020	0.01285	ppm	636.09%
o 228.616	5545.1	0.0538	0.00012	mg/L	10.77	0.024	ppm	0.23%
r 267.716	7971.9	0.0870	0.00071	mg/L	17.41	0.141	ppm	0.81%
u 324.754	21321.0	0.0753	0.00101	mg/L	15.05	0.202	ppm	1.34%
e 273.955	4047301.2	90.07	0.973	mg/L	18010	194.6	ppm	1.08%
766.491	224822.7	9.603	0.1304	mg/L	1921	26.1	ppm	1.36%
g 279.079	1267983.7	30.12	0.290	mg/L	6025	57.9	ppm	0.96%
n 257.610	1710795.9	1.285	0.0122	mg/L	257.1	2.43	ppm	0.95%
o 202.030	29.4	0.0016	0.00011	mg/L	0.3189	0.02241	ppm	7.03%
a 330.237	846.0	1.239	0.2114	mg/L	247.7	42.28	ppm	17.07%
i 231.604	3838.9	0.0769	0.00019	mg/L	15.38	0.038	ppm	0.25%
o 220.353	1374.2	0.0907	0.00128	mg/L	18.14	0.256	ppm	1.41%
o 206.833	28.3	0.0046	0.00172	mg/L	0.9204	0.34397	ppm	37.37%

e 196.026	-40.7	0.0093	0.00122 mg/L	1.868	0.2437 ppm	13.05%
l 190.800	70.9	-0.0021	0.00063 mg/L	-0.4257	0.12566 ppm	29.52%
292.402	19821.8	0.1508	0.00065 mg/L	30.16	0.129 ppm	0.43%
n 213.856	37079.1	0.3364	0.00215 mg/L	67.27	0.430 ppm	0.64%

eplicate Data ----------

D: 2805-11 F=50 Date: 4/23/03 3:00:28 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1090.0	-1018.8	-0.0050	mg/L	-0.2512	ppm
1	Al 308.215	2801886.1	2797838.9	86.52	mg/L	4326	ppm
1	As 188.979	228.1	99.9	0.0349	mg/L	1.744	ppm
1	Ba 233.527	161425.2	161475.9	0.3810	mg/L	19.05	ppm
1	Be 313.107	-2556.5	-2338.2	-0.0009	mg/L	-0.0435	ppm
1	Ca 227.547	11545.5	10934.2	47.33	mg/L	2367	ppm
1	Cd 228.802	494.0	255.7	0.0020	mg/L	0.0990	ppm
1	Co 228.616	6335.1	6638.8	0.0645	mg/L	3.223	ppm
1	Cr 267.716	18311.9	18612.8	0.2032	mg/L	10.16	ppm
1	Cu 324.754	19711.7	16571.3	0.0620	mg/L	3.099	ppm
1	Fe 273.955	6434442.3	6433794.5	143.2	mg/L	7159	ppm
1	K 766.491	678378.9	681001.4	26.16	mg/L	1308	ppm
1	Mg 279.079	1936115.7	1930828.7	45.87	mg/L	2294	ppm
1	Mn 257.610	2978460.9	2977651.4	2.237	mg/L	111.9	ppm
1	Mo 202.030	106.5	164.2	0.0042	mg/L	0.2116	ppm
1	Na 330.237	5055.2	-1663.2	-2.462	mg/L	-123.1	ppm
1	Ni 231.604	3803.5	3883.9	0.0778	mg/L	3.891	ppm
1	Pb 220.353	57.1	232.2	0.0232	mg/L	1.160	ppm
1	Sb 206.833	26.6	37.8	0.0036	mg/L	0.1804	ppm
1	Se 196.026	-29.6	-81.5	0.0076	mg/L	0.3777	ppm
1	Tl 190.800	280.7	74.8	-0.0166	mg/L	-0.8323	ppm
1	V 292.402	40885.8	40744.9	0.3100	mg/L	15.50	ppm
1	Zn 213.856	36175.6	36785.1	0.3291	mg/L	16.45	ppm
2	Ag 328.068	-1102.2	-1030.9	-0.0051	mg/L	-0.2542	ppm
2	Al 308.215	2724459.3	2720412.1	84.12	mg/L	4206	ppm
2	As 188.979	225.3	97.1	0.0342	mg/L	1.711	ppm
2	Ba 233.527	163031.5	163082.3	0.3848	mg/L	19.24	ppm
2	Be 313.107	-2576.1	-2357.7	-0.0009	mg/L	-0.0439	ppm
2	Ca 227.547	11589.2	10978.0	47.56	mg/L	2378	ppm
2	Cd 228.802	470.4	232.1	0.0018	mg/L	0.0899	ppm
2	Co 228.616	6290.5	6594.2	0.0640	mg/L	3.202	ppm
2	Cr 267.716	18284.3	18585.3	0.2029	mg/L	10.15	ppm
2	Cu 324.754	19793.4	16653.0	0.0624	mg/L	3.118	ppm
2	Fe 273.955	6542001.0	6541353.2	145.6	mg/L	7279	ppm
2	K 766.491	698983.8	701606.3	26.84	mg/L	1342	ppm
2	Mg 279.079	1882930.1	1877643.2	44.61	mg/L	2230	ppm
2	Mn 257.610	2896882.2	2896072.8	2.176	mg/L	108.8	ppm
2	Mo 202.030	93.1	150.8	0.0034	mg/L	0.1714	ppm
2	Na 330.237	4749.0	-1969.5	-2.914	mg/L	-145.7	ppm
2	Ni 231.604	3791.0	3871.3	0.0776	mg/L	3.878	ppm
2	Pb 220.353	37.0	212.1	0.0217	mg/L	1.085	ppm
2	Sb 206.833	16.1	27.3	0.0010	mg/L	0.0487	ppm
2	Se 196.026	-26.6	-78.5	0.0092	mg/L	0.4575	ppm
2	Tl 190.800	281.4	75.6	-0.0166	mg/L	-0.8299	ppm
2	V 292.402	41221.8	41080.9	0.3126	mg/L	15.63	ppm
2	Zn 213.856	36438.9	37048.4	0.3313	mg/L	16.57	ppm
3	Ag 328.068	-1130.4	-1059.2	-0.0052	mg/L	-0.2612	ppm
3	Al 308.215	2784899.5	2780852.3	85.99	mg/L	4300	ppm
3	As 188.979	228.4	100.2	0.0350	mg/L	1.752	ppm
3	Ba 233.527	160092.0	160142.7	0.3779	mg/L	18.89	ppm
3	Be 313.107	-2622.6	-2404.2	-0.0009	mg/L	-0.0448	ppm
3	Ca 227.547	11440.8	10829.6	46.91	mg/L	2346	ppm
3	Cd 228.802	496.9	258.6	0.0020	mg/L	0.1001	ppm
3	Co 228.616	6307.0	6610.7	0.0642	mg/L	3.210	ppm
3	Cr 267.716	18061.3	18362.2	0.2005	mg/L	10.02	ppm
3	Cu 324.754	19566.4	16426.0	0.0615	mg/L	3.076	ppm
3	Fe 273.955	6455870.9	6455223.2	143.7	mg/L	7183	ppm
3	K 766.491	687220.2	689842.7	26.45	mg/L	1323	ppm
3	Mg 279.079	1914032.4	1908745.4	45.35	mg/L	2267	ppm

3 Mn 257.610	2949379.4	2948569.9	2.215	mg/L	110.8 ppm
3 Mo 202.030	96.8	154.4	0.0037	mg/L	0.1844 ppm
3 Na 330.237	4727.1	-1991.3	-2.946	mg/L	-147.3 ppm
3 Ni 231.604	3803.3	3883.7	0.0778	mg/L	3.890 ppm
3 Pb 220.353	43.6	218.7	0.0223	mg/L	1.115 ppm
3 Sb 206.833	32.4	43.6	0.0052	mg/L	0.2575 ppm
3 Se 196.026	-32.2	-84.1	0.0068	mg/L	0.3423 ppm
3 Tl 190.800	286.7	80.9	-0.0150	mg/L	-0.7517 ppm
3 V 292.402	40604.1	40463.2	0.3079	mg/L	15.39 ppm
3 Zn 213.856	35783.6	36393.1	0.3254	mg/L	16.27 ppm

ean Data ----------

D: 2805-11 F=50 Seq. No.: 65 Sample No.: 39 A/S Pos: 48
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 3:00:28 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-1036.3	-0.0051	0.00010	mg/L	-0.2555	0.00511	ppm	2.00%
l 308.215	2766367.7	85.55	1.258	mg/L	4277	62.9	ppm	1.47%
s 188.979	99.1	0.0347	0.00043	mg/L	1.736	0.0216	ppm	1.24%
a 233.527	161567.0	0.3812	0.00347	mg/L	19.06	0.174	ppm	0.91%
e 313.107	-2366.7	-0.0009	0.00001	mg/L	-0.0441	0.00063	ppm	1.43%
a 227.547	10913.9	47.27	0.326	mg/L	2363	16.3	ppm	0.69%
d 228.802	248.8	0.0019	0.00011	mg/L	0.0963	0.00563	ppm	5.84%
o 228.616	6614.5	0.0642	0.00022	mg/L	3.212	0.0109	ppm	0.34%
r 267.716	18520.1	0.2022	0.00150	mg/L	10.11	0.075	ppm	0.74%
u 324.754	16550.1	0.0620	0.00042	mg/L	3.098	0.0212	ppm	0.68%
e 273.955	6476790.3	144.1	1.27	mg/L	7207	63.4	ppm	0.88%
766.491	690816.8	26.49	0.342	mg/L	1324	17.1	ppm	1.29%
g 279.079	1905739.1	45.27	0.635	mg/L	2264	31.7	ppm	1.40%
n 257.610	2940764.7	2.209	0.0311	mg/L	110.5	1.55	ppm	1.41%
o 202.030	156.5	0.0038	0.00041	mg/L	0.1891	0.02053	ppm	10.85%
a 330.237	-1874.7	-2.774	0.2708	mg/L	-138.7	13.54	ppm	9.76%
i 231.604	3879.7	0.0777	0.00014	mg/L	3.886	0.0072	ppm	0.19%
b 220.353	221.0	0.0224	0.00076	mg/L	1.120	0.0378	ppm	3.37%
o 206.833	36.2	0.0032	0.00211	mg/L	0.1622	0.10560	ppm	65.11%
e 196.026	-81.3	0.0078	0.00118	mg/L	0.3925	0.05903	ppm	15.04%
l 190.800	77.1	-0.0161	0.00092	mg/L	-0.8046	0.04583	ppm	5.70%
292.402	40763.0	0.3101	0.00235	mg/L	15.51	0.118	ppm	0.76%
n 213.856	36742.2	0.3286	0.00299	mg/L	16.43	0.149	ppm	0.91%

eplicate Data ----------

D: 2805-12 F=50 Date: 4/23/03 3:04:10 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	-631.6	-560.4	-0.0028	mg/L	-0.1382	ppm
1 Al 308.215	3211719.4	3207672.2	99.19	mg/L	4960	ppm
1 As 188.979	192.0	63.8	0.0209	mg/L	1.043	ppm
1 Ba 233.527	394714.8	394765.6	0.9315	mg/L	46.58	ppm
1 Be 313.107	-13455.4	-13237.1	-0.0049	mg/L	-0.2465	ppm
1 Ca 227.547	6255.7	5644.4	26.35	mg/L	1317	ppm
1 Cd 228.802	184.6	-53.7	-0.0004	mg/L	-0.0208	ppm
1 Co 228.616	8306.8	8610.5	0.0836	mg/L	4.181	ppm
1 Cr 267.716	17787.7	18088.7	0.1975	mg/L	9.875	ppm
1 Cu 324.754	25839.7	22699.3	0.0837	mg/L	4.187	ppm
1 Fe 273.955	7726161.5	7725513.7	171.9	mg/L	8597	ppm
1 K 766.491	883212.8	885835.3	32.74	mg/L	1637	ppm
1 Mg 279.079	1778724.5	1773437.5	42.13	mg/L	2107	ppm
1 Mn 257.610	2366196.6	2365387.1	1.777	mg/L	88.86	ppm
1 Mo 202.030	-46.1	11.5	-0.0050	mg/L	-0.2493	ppm
1 Na 330.237	820.8	-5897.6	-8.725	mg/L	-436.3	ppm
1 Ni 231.604	2656.8	2737.2	0.0548	mg/L	2.742	ppm
1 Pb 220.353	217.6	392.7	0.0346	mg/L	1.728	ppm
1 Sb 206.833	10.1	21.3	-0.0004	mg/L	-0.0196	ppm
1 Se 196.026	-50.8	-102.6	0.0076	mg/L	0.3825	ppm
1 Tl 190.800	197.8	-8.1	-0.0447	mg/L	-2.234	ppm
1 V 292.402	69417.7	69276.8	0.5271	mg/L	26.35	ppm
1 Zn 213.856	31811.7	32421.2	0.2861	mg/L	14.31	ppm

alibration Summary

ethod: 23ME ICP-M Date: 4/23/03 3:06:50 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	202761.6	0.00000	0.999942
l 308.215	3	Linear-thru-Zero	0.0	32338.0	0.00000	0.999862
s 188.979	3	Linear-thru-Zero	0.0	2888.4	0.00000	0.999757
a 233.527	3	Linear-thru-Zero	0.0	423784.1	0.00000	0.999473
e 313.107	3	Linear-thru-Zero	0.0	2685329.9	0.00000	0.999950
a 227.547	3	Linear-thru-Zero	0.0	245.5	0.00000	0.999922
d 228.802	3	Linear-thru-Zero	0.0	129120.3	0.00000	0.999828
o 228.616	3	Linear-thru-Zero	0.0	102978.0	0.00000	0.999552
r 267.716	3	Linear-thru-Zero	0.0	91592.9	0.00000	0.999623
u 324.754	3	Linear-thru-Zero	0.0	300295.6	0.00000	0.999782
e 273.955	3	Linear-thru-Zero	0.0	44932.6	0.00000	0.998106
766.491	3	Non-Linear	-1017.1	22038.8	154.06843	0.998652
g 279.079	3	Linear-thru-Zero	0.0	42093.4	0.00000	0.999596
n 257.610	3	Linear-thru-Zero	0.0	1331037.4	0.00000	0.999760
o 202.030	3	Linear-thru-Zero	0.0	18433.2	0.00000	0.999852
a 330.237	3	Non-Linear	5.4	678.4	0.21158	0.999846
i 231.604	3	Linear-thru-Zero	0.0	49912.8	0.00000	0.999403
b 220.353	3	Linear-thru-Zero	0.0	15903.3	0.00000	0.999856
b 206.833	3	Linear-thru-Zero	0.0	3967.7	0.00000	0.999819
e 196.026	3	Linear-thru-Zero	0.0	3144.1	0.00000	0.999666
l 190.800	3	Linear-thru-Zero	0.0	3700.4	0.00000	0.999381
292.402	3	Linear-thru-Zero	0.0	131430.3	0.00000	0.999694
n 213.856	3	Linear-thru-Zero	0.0	107770.3	0.00000	0.999875

eplicate Data

D: 2805-12 F=200 Date: 4/23/03 3:08:12 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-265.6	-194.3	-0.0010	mg/L	-0.1917	ppm
1	Al 308.215	837500.2	833453.0	25.77	mg/L	5155	ppm
1	As 188.979	142.4	14.2	0.0042	mg/L	0.8365	ppm
1	Ba 233.527	105595.5	105646.3	0.2493	mg/L	49.86	ppm
1	Be 313.107	-4039.6	-3821.2	-0.0014	mg/L	-0.2846	ppm
1	Ca 227.547	2013.7	1402.4	5.712	mg/L	1142	ppm
1	Cd 228.802	192.1	-46.2	-0.0004	mg/L	-0.0715	ppm
1	Co 228.616	1993.2	2296.9	0.0223	mg/L	4.461	ppm
1	Cr 267.716	4561.5	4862.5	0.0531	mg/L	10.62	ppm
1	Cu 324.754	9445.7	6305.3	0.0210	mg/L	4.199	ppm
1	Fe 273.955	1987032.9	1986385.2	44.21	mg/L	8842	ppm
1	K 766.491	171010.1	173632.6	7.528	mg/L	1506	ppm
1	Mg 279.079	467851.3	462564.4	10.99	mg/L	2198	ppm
1	Mn 257.610	626557.1	625747.6	0.4701	mg/L	94.02	ppm
1	Mo 202.030	-58.7	-1.0	-0.0001	mg/L	-0.0111	ppm
1	Na 330.237	5242.8	-1475.6	-2.185	mg/L	-436.9	ppm
1	Ni 231.604	668.7	749.1	0.0150	mg/L	3.001	ppm
1	Pb 220.353	-86.0	89.2	0.0082	mg/L	1.634	ppm
1	Sb 206.833	-12.0	-0.8	-0.0002	mg/L	-0.0396	ppm
1	Se 196.026	30.5	-21.3	0.0042	mg/L	0.8322	ppm
1	Tl 190.800	203.6	-2.3	-0.0116	mg/L	-2.316	ppm
1	V 292.402	18636.6	18495.7	0.1407	mg/L	28.15	ppm
1	Zn 213.856	9921.1	10530.5	0.0977	mg/L	19.54	ppm
2	Ag 328.068	-382.7	-311.4	-0.0015	mg/L	-0.3072	ppm
2	Al 308.215	886489.7	882442.5	27.29	mg/L	5458	ppm
2	As 188.979	138.9	10.7	0.0029	mg/L	0.5789	ppm
2	Ba 233.527	102834.7	102885.5	0.2428	mg/L	48.56	ppm
2	Be 313.107	-3903.3	-3685.0	-0.0014	mg/L	-0.2745	ppm
2	Ca 227.547	2058.3	1447.0	5.893	mg/L	1179	ppm
2	Cd 228.802	223.3	-15.0	-0.0001	mg/L	-0.0233	ppm
2	Co 228.616	2032.6	2336.3	0.0227	mg/L	4.537	ppm
2	Cr 267.716	4603.3	4904.3	0.0535	mg/L	10.71	ppm
2	Cu 324.754	9118.1	5977.7	0.0199	mg/L	3.981	ppm
2	Fe 273.955	2076155.0	2075507.3	46.19	mg/L	9238	ppm
2	K 766.491	182765.7	185388.1	8.010	mg/L	1602	ppm

2 Mg 279.079	491862.4	486575.4	11.56 mg/L	2312 ppm	
2 Mn 257.610	653001.6	652192.1	0.4900 mg/L	98.00 ppm	
2 Mo 202.030	-57.1	0.6	0.0000 mg/L	0.0063 ppm	
2 Na 330.237	5517.8	-1200.6	-1.779 mg/L	-355.8 ppm	
2 Ni 231.604	633.9	714.3	0.0143 mg/L	2.862 ppm	
2 Pb 220.353	-65.9	109.3	0.0096 mg/L	1.917 ppm	
2 Sb 206.833	3.2	14.4	0.0036 mg/L	0.7236 ppm	
2 Se 196.026	30.8	-21.0	0.0047 mg/L	0.9486 ppm	
2 Tl 190.800	202.0	-3.8	-0.0125 mg/L	-2.506 ppm	
2 V 292.402	18143.8	18002.9	0.1370 mg/L	27.40 ppm	
2 Zn 213.856	9573.7	10183.2	0.0945 mg/L	18.90 ppm	
3 Ag 328.068	-213.9	-142.6	-0.0007 mg/L	-0.1407 ppm	
3 Al 308.215	842691.2	838644.0	25.93 mg/L	5187 ppm	
3 As 188.979	144.7	16.5	0.0049 mg/L	0.9874 ppm	
3 Ba 233.527	102668.5	102719.3	0.2424 mg/L	48.48 ppm	
3 Be 313.107	-3993.7	-3775.4	-0.0014 mg/L	-0.2812 ppm	
3 Ca 227.547	2046.8	1435.5	5.847 mg/L	1169 ppm	
3 Cd 228.802	196.3	-42.0	-0.0003 mg/L	-0.0650 ppm	
3 Co 228.616	2007.0	2310.6	0.0224 mg/L	4.488 ppm	
3 Cr 267.716	4564.1	4865.0	0.0531 mg/L	10.62 ppm	
3 Cu 324.754	9074.7	5934.3	0.0198 mg/L	3.952 ppm	
3 Fe 273.955	1978083.1	1977435.3	44.01 mg/L	8802 ppm	
3 K 766.491	172386.0	175008.5	7.585 mg/L	1517 ppm	
3 Mg 279.079	468761.6	463474.6	11.01 mg/L	2202 ppm	
3 Mn 257.610	625192.1	624382.6	0.4691 mg/L	93.82 ppm	
3 Mo 202.030	-52.8	4.8	0.0003 mg/L	0.0526 ppm	
3 Na 330.237	5196.1	-1522.3	-2.254 mg/L	-450.7 ppm	
3 Ni 231.604	633.0	713.4	0.0143 mg/L	2.859 ppm	
3 Pb 220.353	-59.9	115.3	0.0098 mg/L	1.965 ppm	
3 Sb 206.833	-2.6	8.6	0.0022 mg/L	0.4345 ppm	
3 Se 196.026	39.4	-12.5	0.0069 mg/L	1.385 ppm	
3 Tl 190.800	220.8	14.9	-0.0069 mg/L	-1.380 ppm	
3 V 292.402	17965.7	17824.8	0.1356 mg/L	27.12 ppm	
3 Zn 213.856	9363.9	9973.4	0.0925 mg/L	18.51 ppm	

ean Data

D: 2805-12 F=200 Seq. No.: 67 Sample No.: 1 A/S Pos: 49
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 3:08:12 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-216.1	-0.0011	0.00043	mg/L	-0.2132	0.08532	ppm	40.02%
l 308.215	851513.2	26.33	0.832	mg/L	5266	166.4	ppm	3.16%
s 188.979	13.8	0.0040	0.00103	mg/L	0.8009	0.20655	ppm	25.79%
a 233.527	103750.3	0.2448	0.00388	mg/L	48.96	0.776	ppm	1.58%
e 313.107	-3760.5	-0.0014	0.00003	mg/L	-0.2801	0.00516	ppm	1.84%
a 227.547	1428.3	5.817	0.0942	mg/L	1163	18.8	ppm	1.62%
d 228.802	-34.4	-0.0003	0.00013	mg/L	-0.0533	0.02617	ppm	49.13%
o 228.616	2314.6	0.0225	0.00019	mg/L	4.495	0.0388	ppm	0.86%
r 267.716	4877.3	0.0532	0.00026	mg/L	10.65	0.051	ppm	0.48%
u 324.754	6072.4	0.0202	0.00068	mg/L	4.044	0.1351	ppm	3.34%
e 273.955	2013109.3	44.80	1.207	mg/L	8961	241.4	ppm	2.69%
766.491	178009.7	7.708	0.2630	mg/L	1542	52.6	ppm	3.41%
g 279.079	470871.5	11.19	0.323	mg/L	2237	64.7	ppm	2.89%
n 257.610	634107.4	0.4764	0.01178	mg/L	95.28	2.356	ppm	2.47%
o 202.030	1.5	0.0001	0.00016	mg/L	0.0159	0.03294	ppm	206.94%
a 330.237	-1399.5	-2.072	0.2565	mg/L	-414.5	51.31	ppm	12.38%
i 231.604	725.6	0.0145	0.00041	mg/L	2.907	0.0815	ppm	2.80%
o 220.353	104.6	0.0092	0.00090	mg/L	1.839	0.1791	ppm	9.74%
o 206.833	7.4	0.0019	0.00193	mg/L	0.3729	0.38533	ppm	103.34%
e 196.026	-18.3	0.0053	0.00146	mg/L	1.055	0.2917	ppm	27.64%
l 190.800	2.9	-0.0103	0.00301	mg/L	-2.067	0.6025	ppm	29.14%
292.402	18107.8	0.1378	0.00264	mg/L	27.56	0.529	ppm	1.92%
n 213.856	10229.1	0.0949	0.00261	mg/L	18.98	0.522	ppm	2.75%

ilibration Summary

ethod: 23ME ICP-M Date: 4/23/03 3:10:14 PM

ement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.