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: 2805-14 F=200 Date: 4/23/03 3:11:36 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-317.4	-246.2	-0.0012	mg/L	-0.2428	ppm
1	Al 308.215	1004821.1	1000773.9	30.95	mg/L	6189	ppm
1	As 188.979	142.2	14.0	0.0042	mg/L	0.8315	ppm
1	Ba 233.527	135189.2	135240.0	0.3191	mg/L	63.82	ppm
1	Be 313.107	-5047.9	-4829.5	-0.0018	mg/L	-0.3597	ppm
1	Ca 227.547	3045.1	2433.9	9.913	mg/L	1983	ppm
1	Cd 228.802	189.6	-48.7	-0.0004	mg/L	-0.0754	ppm
1	Co 228.616	2556.0	2859.6	0.0278	mg/L	5.554	ppm
1	Cr 267.716	6521.4	6822.4	0.0745	mg/L	14.90	ppm
1	Cu 324.754	9105.5	5965.1	0.0199	mg/L	3.973	ppm
1	Fe 273.955	2653471.3	2652823.5	59.04	mg/L	11810	ppm
1	K 766.491	217754.5	220376.9	9.425	mg/L	1885	ppm
1	Mg 279.079	583288.7	578001.7	13.73	mg/L	2746	ppm
1	Mn 257.610	694597.1	693787.6	0.5212	mg/L	104.2	ppm
1	Mo 202.030	-58.0	-0.4	0.0000	mg/L	-0.0039	ppm
1	Na 330.237	5003.6	-1714.8	-2.538	mg/L	-507.6	ppm
1	Ni 231.604	680.4	760.8	0.0152	mg/L	3.049	ppm
1	Pb 220.353	-172.1	3.1	0.0033	mg/L	0.6541	ppm
1	Sb 206.833	-7.4	3.8	-0.0012	mg/L	-0.2431	ppm
1	Se 196.026	14.9	-37.0	0.0028	mg/L	0.5689	ppm
1	Tl 190.800	202.5	-3.4	-0.0152	mg/L	-3.036	ppm
1	V 292.402	26242.6	26101.7	0.1986	mg/L	39.72	ppm
1	Zn 213.856	10283.9	10893.4	0.0960	mg/L	19.21	ppm
2	Ag 328.068	-583.9	-512.6	-0.0025	mg/L	-0.5056	ppm
2	Al 308.215	1033501.8	1029454.6	31.83	mg/L	6367	ppm
2	As 188.979	144.5	16.3	0.0049	mg/L	0.9820	ppm
2	Ba 233.527	135963.5	136014.2	0.3210	mg/L	64.19	ppm
2	Be 313.107	-4695.0	-4476.6	-0.0017	mg/L	-0.3334	ppm
2	Ca 227.547	3035.1	2423.8	9.872	mg/L	1974	ppm
2	Cd 228.802	172.9	-65.4	-0.0005	mg/L	-0.1013	ppm
2	Co 228.616	2561.0	2864.7	0.0278	mg/L	5.564	ppm
2	Cr 267.716	6433.0	6734.0	0.0735	mg/L	14.70	ppm
2	Cu 324.754	8967.7	5827.3	0.0194	mg/L	3.881	ppm
2	Fe 273.955	2704224.4	2703576.6	60.17	mg/L	12030	ppm
2	K 766.491	227844.9	230467.4	9.828	mg/L	1966	ppm
2	Mg 279.079	593470.7	588183.8	13.97	mg/L	2795	ppm
2	Mn 257.610	705581.6	704772.1	0.5295	mg/L	105.9	ppm
2	Mo 202.030	-52.8	4.8	0.0003	mg/L	0.0524	ppm
2	Na 330.237	5063.8	-1654.6	-2.449	mg/L	-489.8	ppm
2	Ni 231.604	663.6	744.0	0.0149	mg/L	2.981	ppm

2	Pb 220.353	-181.5	-6.3	0.0028 mg/L	0.5535 ppm
2	Sb 206.833	-7.5	3.7	-0.0012 mg/L	-0.2412 ppm
2	Se 196.026	26.2	-25.6	0.0067 mg/L	1.348 ppm
2	Tl 190.800	213.7	7.8	-0.0125 mg/L	-2.491 ppm
2	V 292.402	26430.2	26289.3	0.2000 mg/L	40.00 ppm
2	Zn 213.856	10149.1	10758.6	0.0947 mg/L	18.94 ppm
3	Ag 328.068	-479.6	-408.4	-0.0020 mg/L	-0.4028 ppm
3	Al 308.215	1053726.8	1049679.6	32.46 mg/L	6492 ppm
3	As 188.979	136.2	8.0	0.0020 mg/L	0.4045 ppm
3	Ba 233.527	137240.7	137291.5	0.3240 mg/L	64.79 ppm
3	Be 313.107	-4971.8	-4753.5	-0.0018 mg/L	-0.3540 ppm
3	Ca 227.547	3090.1	2478.8	10.10 mg/L	2019 ppm
3	Cd 228.802	201.7	-36.6	-0.0003 mg/L	-0.0567 ppm
3	Co 228.616	2553.8	2857.4	0.0277 mg/L	5.550 ppm
3	Cr 267.716	6514.5	6815.5	0.0744 mg/L	14.88 ppm
3	Cu 324.754	9051.5	5911.1	0.0197 mg/L	3.937 ppm
3	Fe 273.955	2748472.1	2747824.4	61.15 mg/L	12230 ppm
3	K 766.491	235006.3	237628.8	10.11 mg/L	2023 ppm
3	Mg 279.079	604430.0	599143.0	14.23 mg/L	2847 ppm
3	Mn 257.610	719065.3	718255.8	0.5396 mg/L	107.9 ppm
3	Mo 202.030	-57.7	-0.0	0.0000 mg/L	-0.0004 ppm
3	Na 330.237	5131.1	-1587.3	-2.350 mg/L	-469.9 ppm
3	Ni 231.604	678.6	759.0	0.0152 mg/L	3.041 ppm
3	Pb 220.353	-148.9	26.3	0.0049 mg/L	0.9758 ppm
3	Sb 206.833	-14.6	-3.4	-0.0030 mg/L	-0.6069 ppm
3	Se 196.026	13.7	-38.2	0.0030 mg/L	0.5995 ppm
3	Tl 190.800	213.3	7.4	-0.0128 mg/L	-2.560 ppm
3	V 292.402	26516.4	26375.5	0.2007 mg/L	40.14 ppm
3	Zn 213.856	10247.3	10856.8	0.0955 mg/L	19.10 ppm

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

D: 2805-14 F=200 Seq. No.: 68 Sample No.: 1 A/S Pos: 34
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 3:11:36 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Sample Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-389.1	-0.0019	0.00066	mg/L	-0.3838	0.13244	ppm	34.51%
l 308.215	1026636.0	31.75	0.760	mg/L	6349	152.0	ppm	2.39%
s 188.979	12.7	0.0037	0.00150	mg/L	0.7393	0.29960	ppm	40.52%
a 233.527	136181.9	0.3213	0.00244	mg/L	64.27	0.489	ppm	0.76%
e 313.107	-4686.6	-0.0017	0.00007	mg/L	-0.3490	0.01383	ppm	3.96%
a 227.547	2445.5	9.960	0.1193	mg/L	1992	23.9	ppm	1.20%
d 228.802	-50.2	-0.0004	0.00011	mg/L	-0.0778	0.02243	ppm	28.84%
o 228.616	2860.6	0.0278	0.00004	mg/L	5.556	0.0072	ppm	0.13%
r 267.716	6790.6	0.0741	0.00054	mg/L	14.83	0.107	ppm	0.72%
u 324.754	5901.2	0.0197	0.00023	mg/L	3.930	0.0463	ppm	1.18%
e 273.955	2701408.2	60.12	1.058	mg/L	12020	211.6	ppm	1.76%
766.491	229491.0	9.789	0.3461	mg/L	1958	69.2	ppm	3.54%
g 279.079	588442.8	13.98	0.251	mg/L	2796	50.2	ppm	1.80%
n 257.610	705605.2	0.5301	0.00921	mg/L	106.0	1.84	ppm	1.74%
o 202.030	1.5	0.0001	0.00016	mg/L	0.0160	0.03156	ppm	196.75%
a 330.237	-1652.2	-2.445	0.0942	mg/L	-489.1	18.83	ppm	3.85%
i 231.604	754.6	0.0151	0.00018	mg/L	3.024	0.0369	ppm	1.22%
o 220.353	7.7	0.0036	0.00110	mg/L	0.7278	0.22059	ppm	30.31%
o 206.833	1.3	-0.0018	0.00105	mg/L	-0.3637	0.21060	ppm	57.90%
e 196.026	-33.6	0.0042	0.00221	mg/L	0.8389	0.44144	ppm	52.62%
l 190.800	3.9	-0.0135	0.00148	mg/L	-2.695	0.2966	ppm	11.00%
292.402	26255.5	0.1998	0.00107	mg/L	39.95	0.213	ppm	0.53%
n 213.856	10836.3	0.0954	0.00068	mg/L	19.08	0.136	ppm	0.71%

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

D: CCV 1447B Date: 4/23/03 3:15:16 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	197325.8	197397.0	0.9735	mg/L		
1	Al 308.215	165705.5	161658.3	4.999	mg/L		
1	As 188.979	1543.6	1415.4	0.4955	mg/L		
1	Ba 233.527	2150866.3	2150917.0	5.076	mg/L		

1	Be	313.107	1328818.1	1329036.5	0.4949 mg/L
1	Ca	227.547	12839.0	12227.7	49.80 mg/L
1	Cd	228.802	130119.8	129881.5	1.006 mg/L
1	Co	228.616	209045.9	209349.6	2.033 mg/L
1	Cr	267.716	44947.0	45248.0	0.4940 mg/L
1	Cu	324.754	596976.4	593836.0	1.978 mg/L
1	Fe	273.955	230718.0	230070.3	5.120 mg/L
1	K	766.491	366642.6	369265.1	15.19 mg/L
1	Mg	279.079	1074190.2	1068903.3	25.39 mg/L
1	Mn	257.610	2693219.5	2692410.1	2.023 mg/L
1	Mo	202.030	36632.1	36689.7	1.990 mg/L
1	Na	330.237	75632.5	68914.0	98.55 mg/L
1	Ni	231.604	101703.4	101783.8	2.039 mg/L
1	Pb	220.353	7975.8	8151.0	0.5125 mg/L
1	Sb	206.833	8096.4	8107.6	2.029 mg/L
1	Se	196.026	1681.3	1629.5	0.5195 mg/L
1	Tl	190.800	2059.9	1854.1	0.5011 mg/L
1	V	292.402	259746.2	259605.3	1.975 mg/L
1	Zn	213.856	214500.6	215110.1	1.996 mg/L
2	Ag	328.068	197098.0	197169.2	0.9724 mg/L
2	Al	308.215	164950.1	160902.9	4.976 mg/L
2	As	188.979	1539.5	1411.3	0.4941 mg/L
2	Ba	233.527	2144380.2	2144431.0	5.060 mg/L
2	Be	313.107	1309474.8	1309693.2	0.4877 mg/L
2	Ca	227.547	12805.9	12194.7	49.67 mg/L
2	Cd	228.802	130139.3	129901.0	1.006 mg/L
2	Co	228.616	208758.8	209062.5	2.030 mg/L
2	Cr	267.716	44912.3	45213.3	0.4936 mg/L
2	Cu	324.754	598886.1	595745.7	1.984 mg/L
2	Fe	273.955	230282.7	229635.0	5.111 mg/L
2	K	766.491	360018.9	362641.4	14.94 mg/L
2	Mg	279.079	1072121.9	1066834.9	25.34 mg/L
2	Mn	257.610	2651295.7	2650486.3	1.991 mg/L
2	Mo	202.030	36656.9	36714.5	1.992 mg/L
2	Na	330.237	75178.8	68460.4	97.92 mg/L
2	Ni	231.604	101525.7	101606.0	2.036 mg/L
2	Pb	220.353	8001.3	8176.4	0.5141 mg/L
2	Sb	206.833	8119.3	8130.5	2.035 mg/L
2	Se	196.026	1686.9	1635.0	0.5213 mg/L
2	Tl	190.800	2065.1	1859.2	0.5024 mg/L
2	V	292.402	259137.8	258996.9	1.971 mg/L
2	Zn	213.856	214531.3	215140.8	1.996 mg/L
3	Ag	328.068	194948.0	195019.2	0.9618 mg/L
3	Al	308.215	162604.3	158557.0	4.903 mg/L
3	As	188.979	1556.6	1428.4	0.4999 mg/L
3	Ba	233.527	2114217.4	2114268.2	4.989 mg/L
3	Be	313.107	1381712.8	1381931.2	0.5146 mg/L
3	Ca	227.547	12497.0	11885.8	48.41 mg/L
3	Cd	228.802	128427.6	128189.3	0.9928 mg/L
3	Co	228.616	205850.1	206153.8	2.002 mg/L
3	Cr	267.716	44211.8	44512.8	0.4860 mg/L
3	Cu	324.754	590263.9	587123.5	1.955 mg/L
3	Fe	273.955	227104.3	226456.5	5.040 mg/L
3	K	766.491	381966.7	384589.2	15.76 mg/L
3	Mg	279.079	1057277.1	1051990.1	24.99 mg/L
3	Mn	257.610	2788557.3	2787747.8	2.094 mg/L
3	Mo	202.030	36204.2	36261.9	1.967 mg/L
3	Na	330.237	74479.4	67760.9	96.95 mg/L
3	Ni	231.604	100081.5	100161.9	2.007 mg/L
3	Pb	220.353	8014.0	8189.2	0.5149 mg/L
3	Sb	206.833	8156.8	8168.0	2.044 mg/L
3	Se	196.026	1686.5	1634.6	0.5212 mg/L
3	Tl	190.800	2077.7	1871.8	0.5058 mg/L
3	V	292.402	255434.8	255293.9	1.942 mg/L
3	Zn	213.856	211688.5	212298.0	1.970 mg/L

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

): CCV 1447B Seq. No.: 69 Sample No.: 5 A/S Pos: 6

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

Data: Original Date: 4/23/03 3:15:16 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	196528.5	0.9693	0.00647	mg/L				0.67%
l 308.215	160372.7	4.959	0.0500	mg/L				1.01%
s 188.979	1418.4	0.4965	0.00302	mg/L				0.61%
a 233.527	2136538.7	5.042	0.0461	mg/L				0.92%
e 313.107	1340220.3	0.4991	0.01393	mg/L				2.79%
a 227.547	12102.7	49.29	0.768	mg/L				1.56%
d 228.802	129323.9	1.002	0.0076	mg/L				0.76%
o 228.616	208188.6	2.022	0.0172	mg/L				0.85%
r 267.716	44991.4	0.4912	0.00453	mg/L				0.92%
u 324.754	592235.1	1.972	0.0151	mg/L				0.76%
e 273.955	228720.6	5.090	0.0439	mg/L				0.86%
766.491	372165.2	15.30	0.420	mg/L				2.75%
g 279.079	1062576.1	25.24	0.219	mg/L				0.87%
n 257.610	2710214.7	2.036	0.0528	mg/L				2.60%
o 202.030	36555.4	1.983	0.0138	mg/L				0.70%
a 330.237	68378.5	97.80	0.807	mg/L				0.83%
i 231.604	101183.9	2.027	0.0178	mg/L				0.88%
b 220.353	8172.2	0.5139	0.00122	mg/L				0.24%
b 206.833	8135.3	2.036	0.0078	mg/L				0.38%
e 196.026	1633.0	0.5207	0.00098	mg/L				0.19%
l 190.800	1861.7	0.5031	0.00246	mg/L				0.49%
292.402	257965.4	1.963	0.0178	mg/L				0.90%
n 213.856	214183.0	1.987	0.0151	mg/L				0.76%

eplicate Data

D: CCB Date: 4/23/03 3:18:46 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	131.8	203.0	0.0010	mg/L		
1	Al 308.215	4082.9	35.6	0.0011	mg/L		
1	As 188.979	126.0	-2.2	-0.0008	mg/L		
1	Ba 233.527	428.9	479.6	0.0011	mg/L		
1	Be 313.107	115.1	333.4	0.0001	mg/L		
1	Ca 227.547	641.3	30.0	0.1222	mg/L		
1	Cd 228.802	249.7	11.4	0.0001	mg/L		
1	Co 228.616	-233.5	70.2	0.0007	mg/L		
1	Cr 267.716	-330.4	-29.4	-0.0003	mg/L		
1	Cu 324.754	3843.5	703.1	0.0023	mg/L		
1	Fe 273.955	3514.1	2866.4	0.0638	mg/L		
1	K 766.491	-1962.9	659.5	0.0760	mg/L		
1	Mg 279.079	1558.2	-3728.7	-0.0886	mg/L		
1	Mn 257.610	3844.5	3035.0	0.0023	mg/L		
1	Mo 202.030	-31.9	25.8	0.0014	mg/L		
1	Na 330.237	6918.1	199.6	0.2863	mg/L		
1	Ni 231.604	-56.5	23.8	0.0005	mg/L		
1	Pb 220.353	-176.0	-0.8	-0.0001	mg/L		
1	Sb 206.833	-12.0	-0.8	-0.0002	mg/L		
1	Se 196.026	67.1	15.2	0.0048	mg/L		
1	Tl 190.800	208.8	3.0	0.0008	mg/L		
1	V 292.402	290.9	150.0	0.0011	mg/L		
1	Zn 213.856	-484.1	125.4	0.0012	mg/L		
2	Ag 328.068	-100.3	-29.0	-0.0001	mg/L		
2	Al 308.215	4372.0	324.7	0.0100	mg/L		
2	As 188.979	128.9	0.7	0.0002	mg/L		
2	Ba 233.527	200.8	251.5	0.0006	mg/L		
2	Be 313.107	-161.0	57.4	0.0000	mg/L		
2	Ca 227.547	631.5	20.3	0.0826	mg/L		
2	Cd 228.802	230.8	-7.5	-0.0001	mg/L		
2	Co 228.616	-255.1	48.6	0.0005	mg/L		
2	Cr 267.716	-332.9	-31.9	-0.0003	mg/L		
2	Cu 324.754	3673.4	533.0	0.0018	mg/L		
2	Fe 273.955	3266.4	2618.6	0.0583	mg/L		
2	K 766.491	-2615.9	6.6	0.0464	mg/L		
2	Mg 279.079	1473.7	-3813.2	-0.0906	mg/L		
2	Mn 257.610	3218.2	2408.8	0.0018	mg/L		
2	Mo 202.030	-34.1	23.5	0.0013	mg/L		

2	Na 330.237	7298.6	580.2	0.8471 mg/L
2	Ni 231.604	-60.4	20.0	0.0004 mg/L
2	Pb 220.353	-173.6	1.5	0.0001 mg/L
2	Sb 206.833	-3.5	7.7	0.0019 mg/L
2	Se 196.026	56.3	4.4	0.0014 mg/L
2	Tl 190.800	215.5	9.7	0.0026 mg/L
2	V 292.402	248.0	107.1	0.0008 mg/L
2	Zn 213.856	-498.6	110.9	0.0010 mg/L
3	Ag 328.068	-16.5	54.7	0.0003 mg/L
3	Al 308.215	4238.0	190.8	0.0059 mg/L
3	As 188.979	134.2	6.0	0.0021 mg/L
3	Ba 233.527	39.7	90.4	0.0002 mg/L
3	Be 313.107	-345.9	-127.5	0.0000 mg/L
3	Ca 227.547	614.0	2.7	0.0111 mg/L
3	Cd 228.802	211.9	-26.4	-0.0002 mg/L
3	Co 228.616	-250.6	53.1	0.0005 mg/L
3	Cr 267.716	-343.1	-42.2	-0.0005 mg/L
3	Cu 324.754	3548.7	408.3	0.0014 mg/L
3	Fe 273.955	2795.6	2147.8	0.0478 mg/L
3	K 766.491	-2129.8	492.6	0.0685 mg/L
3	Mg 279.079	1424.6	-3862.4	-0.0918 mg/L
3	Mn 257.610	2856.3	2046.8	0.0015 mg/L
3	Mo 202.030	-40.6	17.0	0.0009 mg/L
3	Na 330.237	6886.2	167.8	0.2394 mg/L
3	Ni 231.604	-71.5	8.9	0.0002 mg/L
3	Pb 220.353	-178.5	-3.4	-0.0002 mg/L
3	Sb 206.833	-12.5	-1.3	-0.0003 mg/L
3	Se 196.026	67.6	15.8	0.0050 mg/L
3	Tl 190.800	203.4	-2.4	-0.0007 mg/L
3	V 292.402	162.8	21.9	0.0002 mg/L
3	Zn 213.856	-519.6	89.9	0.0008 mg/L

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

D: CCB Seq. No.: 70 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 3:18:46 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	76.3	0.0004	0.00058	mg/L				154.10%
l 308.215	183.7	0.0057	0.00447	mg/L				78.74%
s 188.979	1.5	0.0005	0.00144	mg/L				274.21%
a 233.527	273.9	0.0006	0.00046	mg/L				71.41%
e 313.107	87.8	0.0000	0.00009	mg/L				264.32%
a 227.547	17.7	0.0719	0.05633	mg/L				78.29%
d 228.802	-7.5	-0.0001	0.00015	mg/L				252.31%
o 228.616	57.3	0.0006	0.00011	mg/L				19.92%
r 267.716	-34.5	-0.0004	0.00007	mg/L				19.55%
u 324.754	548.1	0.0018	0.00049	mg/L				27.00%
e 273.955	2544.2	0.0566	0.00812	mg/L				14.35%
766.491	386.3	0.0636	0.01538	mg/L				24.16%
g 279.079	-3801.4	-0.0903	0.00161	mg/L				1.78%
n 257.610	2496.9	0.0019	0.00038	mg/L				20.02%
o 202.030	22.1	0.0012	0.00025	mg/L				20.55%
a 330.237	315.9	0.4576	0.33812	mg/L				73.89%
i 231.604	17.6	0.0004	0.00016	mg/L				44.23%
o 220.353	-0.9	-0.0001	0.00015	mg/L				273.25%
o 206.833	1.9	0.0005	0.00128	mg/L				269.27%
e 196.026	11.8	0.0038	0.00203	mg/L				54.19%
l 190.800	3.4	0.0009	0.00163	mg/L				177.47%
292.402	93.0	0.0007	0.00050	mg/L				70.12%
n 213.856	108.8	0.0010	0.00017	mg/L				16.41%

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

D: 2805-15 F=50 Date: 4/23/03 3:22:17 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-907.3	-836.1	-0.0041	mg/L	-0.2062	ppm
1	Al 308.215	3332998.4	3328951.2	102.9	mg/L	5147	ppm

1	As 188.979	182.6	54.4	0.0175 mg/L	0.8749 ppm
1	Ba 233.527	424179.9	424230.7	1.001 mg/L	50.05 ppm
1	Be 313.107	-16783.5	-16565.2	-0.0062 mg/L	-0.3084 ppm
1	Ca 227.547	7317.7	6706.4	30.70 mg/L	1535 ppm
1	Cd 228.802	167.3	-71.0	-0.0006 mg/L	-0.0275 ppm
1	Co 228.616	9968.7	10272.4	0.0998 mg/L	4.988 ppm
1	Cr 267.716	20157.7	20458.7	0.2234 mg/L	11.17 ppm
1	Cu 324.754	25470.2	22329.8	0.0826 mg/L	4.129 ppm
1	Fe 273.955	7794636.0	7793988.3	173.5 mg/L	8673 ppm
1	K 766.491	968637.0	971259.5	35.37 mg/L	1769 ppm
1	Mg 279.079	1912156.1	1906869.2	45.30 mg/L	2265 ppm
1	Mn 257.610	2874172.0	2873362.6	2.159 mg/L	107.9 ppm
1	Mo 202.030	100.6	158.3	0.0029 mg/L	0.1462 ppm
1	Na 330.237	716.7	-6001.7	-8.880 mg/L	-444.0 ppm
1	Ni 231.604	2495.5	2575.9	0.0516 mg/L	2.580 ppm
1	Pb 220.353	-157.8	17.4	0.0113 mg/L	0.5664 ppm
1	Sb 206.833	-4.2	7.0	-0.0047 mg/L	-0.2372 ppm
1	Se 196.026	-41.8	-93.7	0.0108 mg/L	0.5394 ppm
1	Tl 190.800	175.3	-30.6	-0.0525 mg/L	-2.625 ppm
1	V 292.402	73194.7	73053.8	0.5558 mg/L	27.79 ppm
1	Zn 213.856	33801.7	34411.2	0.3045 mg/L	15.22 ppm

alibration Summary

ethod: 23ME ICP-M Date: 4/23/03 3:23:39 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
u 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
u 213.856	3	Linear-thru-Zero	0.0	107770.3	0.00000	0.999875

eplicate Data

): 2805-15 F=200 Date: 4/23/03 3:25:00 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-148.7	-77.4	-0.0004	mg/L	-0.0764	ppm
1	Al 308.215	873379.3	869332.1	26.88	mg/L	5377	ppm
1	As 188.979	142.7	14.6	0.0042	mg/L	0.8365	ppm
1	Ba 233.527	100624.4	100675.2	0.2376	mg/L	47.51	ppm
1	Be 313.107	-4401.9	-4183.5	-0.0016	mg/L	-0.3116	ppm
1	Ca 227.547	2246.3	1635.0	6.659	mg/L	1332	ppm
1	Cd 228.802	200.4	-37.9	-0.0003	mg/L	-0.0587	ppm
1	Co 228.616	2278.0	2581.7	0.0251	mg/L	5.014	ppm
1	Cr 267.716	4825.5	5126.5	0.0560	mg/L	11.19	ppm
1	Cu 324.754	8364.5	5224.1	0.0174	mg/L	3.479	ppm
1	Fe 273.955	1976268.4	1975620.7	43.97	mg/L	8794	ppm
1	K 766.491	182441.5	185064.0	7.996	mg/L	1599	ppm
1	Mg 279.079	505976.3	500689.4	11.89	mg/L	2379	ppm
1	Mn 257.610	765920.8	765111.3	0.5748	mg/L	115.0	ppm

1	Mo 202.030	-14.0	43.6	0.0024 mg/L	0.4734 ppm
1	Na 330.237	5329.7	-1388.8	-2.056 mg/L	-411.3 ppm
1	Ni 231.604	583.3	663.7	0.0133 mg/L	2.659 ppm
1	Pb 220.353	-165.8	9.4	0.0033 mg/L	0.6528 ppm
1	Sb 206.833	-8.9	2.3	0.0006 mg/L	0.1157 ppm
1	Se 196.026	23.8	-28.1	0.0019 mg/L	0.3896 ppm
1	Tl 190.800	199.3	-6.6	-0.0128 mg/L	-2.562 ppm
1	V 292.402	17558.3	17417.4	0.1325 mg/L	26.50 ppm
1	Zn 213.856	8075.0	8684.5	0.0806 mg/L	16.12 ppm
2	Ag 328.068	-387.2	-316.0	-0.0016 mg/L	-0.3117 ppm
2	Al 308.215	872252.8	868205.6	26.85 mg/L	5370 ppm
2	As 188.979	139.9	11.7	0.0032 mg/L	0.6384 ppm
2	Ba 233.527	106775.8	106826.5	0.2521 mg/L	50.42 ppm
2	Be 313.107	-4640.6	-4422.3	-0.0016 mg/L	-0.3294 ppm
2	Ca 227.547	2250.4	1639.2	6.676 mg/L	1335 ppm
2	Cd 228.802	207.9	-30.4	-0.0002 mg/L	-0.0470 ppm
2	Co 228.616	2256.7	2560.4	0.0249 mg/L	4.973 ppm
2	Cr 267.716	4788.3	5089.3	0.0556 mg/L	11.11 ppm
2	Cu 324.754	8779.1	5638.7	0.0188 mg/L	3.755 ppm
2	Fe 273.955	1962206.0	1961558.3	43.66 mg/L	8731 ppm
2	K 766.491	184898.9	187521.4	8.097 mg/L	1619 ppm
2	Mg 279.079	503839.7	498552.7	11.84 mg/L	2369 ppm
2	Mn 257.610	759477.8	758668.3	0.5700 mg/L	114.0 ppm
2	Mo 202.030	-22.2	35.4	0.0019 mg/L	0.3845 ppm
2	Na 330.237	5368.3	-1350.1	-1.999 mg/L	-399.9 ppm
2	Ni 231.604	581.9	662.3	0.0133 mg/L	2.654 ppm
2	Pb 220.353	-168.9	6.2	0.0031 mg/L	0.6121 ppm
2	Sb 206.833	1.0	12.2	0.0031 mg/L	0.6133 ppm
2	Se 196.026	23.6	-28.2	0.0018 mg/L	0.3652 ppm
2	Tl 190.800	205.4	-0.5	-0.0111 mg/L	-2.220 ppm
2	V 292.402	18566.5	18425.6	0.1402 mg/L	28.04 ppm
2	Zn 213.856	8112.5	8722.0	0.0809 mg/L	16.19 ppm
3	Ag 328.068	-378.7	-307.4	-0.0015 mg/L	-0.3032 ppm
3	Al 308.215	878975.9	874928.7	27.06 mg/L	5411 ppm
3	As 188.979	142.1	13.9	0.0040 mg/L	0.7910 ppm
3	Ba 233.527	107409.0	107459.7	0.2536 mg/L	50.71 ppm
3	Be 313.107	-4714.0	-4495.6	-0.0017 mg/L	-0.3348 ppm
3	Ca 227.547	2265.8	1654.6	6.739 mg/L	1348 ppm
3	Cd 228.802	213.8	-24.5	-0.0002 mg/L	-0.0379 ppm
3	Co 228.616	2280.8	2584.4	0.0251 mg/L	5.019 ppm
3	Cr 267.716	4821.5	5122.5	0.0559 mg/L	11.19 ppm
3	Cu 324.754	8860.6	5720.2	0.0190 mg/L	3.810 ppm
3	Fe 273.955	1973943.6	1973295.9	43.92 mg/L	8783 ppm
3	K 766.491	185899.8	188522.3	8.137 mg/L	1627 ppm
3	Mg 279.079	507154.5	501867.6	11.92 mg/L	2385 ppm
3	Mn 257.610	762650.1	761840.7	0.5724 mg/L	114.5 ppm
3	Mo 202.030	-11.5	46.1	0.0025 mg/L	0.5006 ppm
3	Na 330.237	5166.9	-1551.5	-2.297 mg/L	-459.3 ppm
3	Ni 231.604	578.5	658.9	0.0132 mg/L	2.640 ppm
3	Pb 220.353	-160.5	14.7	0.0036 mg/L	0.7228 ppm
3	Sb 206.833	-14.0	-2.8	-0.0007 mg/L	-0.1393 ppm
3	Se 196.026	25.0	-26.9	0.0023 mg/L	0.4624 ppm
3	Tl 190.800	203.4	-2.5	-0.0117 mg/L	-2.342 ppm
3	V 292.402	18511.4	18370.5	0.1398 mg/L	27.95 ppm
3	Zn 213.856	8092.2	8701.7	0.0807 mg/L	16.15 ppm

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

D: 2805-15 F=200 Seq. No.: 72 Sample No.: 1 A/S Pos: 50

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

Data: Original Date: 4/23/03 3:25:00 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	-233.6	-0.0012	0.00067	mg/L	-0.2304	0.13348	ppm	57.93%
l 308.215	870822.1	26.93	0.111	mg/L	5386	22.3	ppm	0.41%
s 188.979	13.4	0.0038	0.00052	mg/L	0.7553	0.10376	ppm	13.74%
a 233.527	104987.2	0.2477	0.00884	mg/L	49.55	1.769	ppm	3.57%
e 313.107	-4367.1	-0.0016	0.00006	mg/L	-0.3253	0.01215	ppm	3.74%
a 227.547	1642.9	6.691	0.0420	mg/L	1338	8.4	ppm	0.63%
d 228.802	-30.9	-0.0002	0.00005	mg/L	-0.0479	0.01045	ppm	21.83%

o 228.616	2575.5	0.0250	0.00013 mg/L	5.002	0.0256 ppm	0.51%
r 267.716	5112.8	0.0558	0.00022 mg/L	11.16	0.045 ppm	0.40%
u 324.754	5527.7	0.0184	0.00089 mg/L	3.681	0.1772 ppm	4.81%
e 273.955	1970158.3	43.85	0.168 mg/L	8769	33.6 ppm	0.38%
766.491	187035.9	8.077	0.0726 mg/L	1615	14.5 ppm	0.90%
g 279.079	500369.9	11.89	0.040 mg/L	2377	8.0 ppm	0.34%
n 257.610	761873.4	0.5724	0.00242 mg/L	114.5	0.48 ppm	0.42%
o 202.030	41.7	0.0023	0.00030 mg/L	0.4528	0.06071 ppm	13.41%
a 330.237	-1430.1	-2.118	0.1578 mg/L	-423.5	31.55 ppm	7.45%
i 231.604	661.6	0.0133	0.00005 mg/L	2.651	0.0099 ppm	0.37%
b 220.353	10.1	0.0033	0.00028 mg/L	0.6626	0.05596 ppm	8.45%
b 206.833	3.9	0.0010	0.00191 mg/L	0.1966	0.38272 ppm	194.68%
e 196.026	-27.7	0.0020	0.00025 mg/L	0.4057	0.05056 ppm	12.46%
l 190.800	-3.2	-0.0119	0.00087 mg/L	-2.375	0.1734 ppm	7.30%
292.402	18071.1	0.1375	0.00431 mg/L	27.50	0.863 ppm	3.14%
n 213.856	8702.7	0.0808	0.00017 mg/L	16.15	0.035 ppm	0.22%

eplicate Data

D: 2805-17 F=50 Date: 4/23/03 3:28:16 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1268.1	-1196.9	0.0012	mg/L	0.0604	ppm
1	Al 308.215	5291953.4	5287906.1	163.5	mg/L	8176	ppm
1	As 188.979	232.4	104.3	0.0335	mg/L	1.677	ppm
1	Ba 233.527	811820.4	811871.2	1.916	mg/L	95.79	ppm
1	Be 313.107	-25660.9	-25442.6	-0.0095	mg/L	-0.4737	ppm
1	Ca 227.547	8328.2	7717.0	36.68	mg/L	1834	ppm
1	Cd 228.802	222.5	-15.8	-0.0001	mg/L	-0.0061	ppm
1	Co 228.616	15607.6	15911.2	0.1545	mg/L	7.726	ppm
1	Cr 267.716	29731.0	30032.0	0.3230	mg/L	16.15	ppm
1	Cu 324.754	48540.1	45399.7	0.1639	mg/L	8.197	ppm
1	Fe 273.955	12075640.6	12074992.8	268.7	mg/L	13440	ppm
1	K 766.491	Saturated					
1	Mg 279.079	3315908.5	3310621.5	78.65	mg/L	3932	ppm
1	Mn 257.610	4544210.7	4543401.2	3.413	mg/L	170.7	ppm
1	Mo 202.030	-12.5	45.2	-0.0063	mg/L	-0.3161	ppm
1	Na 330.237	-6248.8	-12967.3	-19.24	mg/L	-961.9	ppm
1	Ni 231.604	4917.7	4998.1	0.1001	mg/L	5.007	ppm
1	Pb 220.353	18531.6	18706.8	1.193	mg/L	59.63	ppm
1	Sb 206.833	-23.7	-12.5	-0.0127	mg/L	-0.6349	ppm
1	Se 196.026	-145.5	-197.4	0.0000	mg/L	-0.0003	ppm
1	Tl 190.800	148.3	-57.6	-0.0847	mg/L	-4.235	ppm
1	V 292.402	105438.6	105297.7	0.8012	mg/L	40.06	ppm
1	Zn 213.856	64437.1	65046.6	0.5806	mg/L	29.03	ppm
2	Ag 328.068	-1529.4	-1458.1	0.0000	mg/L	-0.0008	ppm
2	Al 308.215	5348956.4	5344909.2	165.3	mg/L	8264	ppm
2	As 188.979	240.8	112.6	0.0375	mg/L	1.874	ppm
2	Ba 233.527	852139.8	852190.6	2.011	mg/L	100.5	ppm
2	Be 313.107	-27021.3	-26802.9	-0.0100	mg/L	-0.4991	ppm
2	Ca 227.547	8593.8	7982.5	37.81	mg/L	1890	ppm
2	Cd 228.802	149.9	-88.4	-0.0007	mg/L	-0.0342	ppm
2	Co 228.616	15648.7	15952.4	0.1549	mg/L	7.746	ppm
2	Cr 267.716	31098.8	31399.8	0.3379	mg/L	16.90	ppm
2	Cu 324.754	51175.7	48035.3	0.1728	mg/L	8.641	ppm
2	Fe 273.955	12186051.5	12185403.7	271.2	mg/L	13560	ppm
2	K 766.491	Saturated					
2	Mg 279.079	3480518.5	3475231.6	82.56	mg/L	4128	ppm
2	Mn 257.610	4583176.8	4582367.3	3.443	mg/L	172.1	ppm
2	Mo 202.030	4.4	62.0	-0.0055	mg/L	-0.2744	ppm
2	Na 330.237	-6990.9	-13709.3	-20.35	mg/L	-1017	ppm
2	Ni 231.604	4854.1	4934.5	0.0989	mg/L	4.943	ppm
2	Pb 220.353	18659.2	18834.3	1.201	mg/L	60.04	ppm
2	Sb 206.833	64.2	75.4	0.0090	mg/L	0.4516	ppm
2	Se 196.026	-108.7	-160.6	0.0123	mg/L	0.6139	ppm
2	Tl 190.800	148.6	-57.2	-0.0854	mg/L	-4.268	ppm
2	V 292.402	110678.7	110537.8	0.8410	mg/L	42.05	ppm
2	Zn 213.856	67738.0	68347.5	0.6110	mg/L	30.55	ppm

alibration Summary

ethod: 23ME ICP-M Date: 4/23/03 3:30:10 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: 2805-17 F=200 Date: 4/23/03 3:31:34 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-197.2	-125.9	-0.0006	mg/L	-0.1242	ppm
1	Al 308.215	1439970.7	1435923.5	44.40	mg/L	8881	ppm
1	As 188.979	160.7	32.5	0.0099	mg/L	1.974	ppm
1	Ba 233.527	226259.4	226310.2	0.5340	mg/L	106.8	ppm
1	Be 313.107	-7558.5	-7340.2	-0.0027	mg/L	-0.5467	ppm
1	Ca 227.547	2658.4	2047.1	8.338	mg/L	1668	ppm
1	Cd 228.802	215.1	-23.2	-0.0002	mg/L	-0.0359	ppm
1	Co 228.616	3901.6	4205.3	0.0408	mg/L	8.167	ppm
1	Cr 267.716	8004.2	8305.2	0.0907	mg/L	18.13	ppm
1	Cu 324.754	15558.6	12418.2	0.0414	mg/L	8.271	ppm
1	Fe 273.955	3288675.0	3288027.3	73.18	mg/L	14640	ppm
1	K 766.491	387495.1	390117.5	15.97	mg/L	3193	ppm
1	Mg 279.079	923342.2	918055.2	21.81	mg/L	4362	ppm
1	Mn 257.610	1242835.2	1242025.7	0.9331	mg/L	186.6	ppm
1	Mo 202.030	-46.0	11.7	0.0006	mg/L	0.1266	ppm
1	Na 330.237	3209.8	-3508.6	-5.188	mg/L	-1038	ppm
1	Ni 231.604	1219.3	1299.7	0.0260	mg/L	5.208	ppm
1	Pb 220.353	4710.4	4885.5	0.3116	mg/L	62.32	ppm
1	Sb 206.833	23.7	34.9	0.0062	mg/L	1.233	ppm
1	Se 196.026	14.9	-37.0	0.0053	mg/L	1.067	ppm
1	Tl 190.800	193.6	-12.3	-0.0217	mg/L	-4.330	ppm
1	V 292.402	29329.1	29188.2	0.2221	mg/L	44.42	ppm
1	Zn 213.856	16991.2	17600.7	0.1571	mg/L	31.41	ppm
2	Ag 328.068	-424.5	-353.3	-0.0017	mg/L	-0.3485	ppm
2	Al 308.215	1394144.6	1390097.4	42.99	mg/L	8597	ppm
2	As 188.979	159.1	30.9	0.0094	mg/L	1.885	ppm
2	Ba 233.527	218964.1	219014.8	0.5168	mg/L	103.4	ppm
2	Be 313.107	-7375.1	-7156.8	-0.0027	mg/L	-0.5330	ppm
2	Ca 227.547	2691.8	2080.5	8.474	mg/L	1695	ppm
2	Cd 228.802	202.9	-35.4	-0.0003	mg/L	-0.0549	ppm
2	Co 228.616	3927.5	4231.1	0.0411	mg/L	8.218	ppm
2	Cr 267.716	7836.9	8137.9	0.0888	mg/L	17.77	ppm
2	Cu 324.754	14976.4	11836.0	0.0394	mg/L	7.883	ppm
2	Fe 273.955	3261471.7	3260823.9	72.57	mg/L	14510	ppm
2	K 766.491	388176.2	390798.7	15.99	mg/L	3198	ppm
2	Mg 279.079	896307.4	891020.4	21.17	mg/L	4234	ppm

2 Mn 257.610	1204250.2	1203440.7	0.9041 mg/L	180.8 ppm
2 Mo 202.030	-53.6	4.1	0.0002 mg/L	0.0443 ppm
2 Na 330.237	3386.7	-3331.7	-4.927 mg/L	-985.4 ppm
2 Ni 231.604	1223.1	1303.5	0.0261 mg/L	5.223 ppm
2 Pb 220.353	4746.6	4921.8	0.3138 mg/L	62.75 ppm
2 Sb 206.833	2.4	13.6	0.0008 mg/L	0.1672 ppm
2 Se 196.026	-3.2	-55.0	0.0005 mg/L	0.0930 ppm
2 Tl 190.800	191.4	-14.5	-0.0220 mg/L	-4.396 ppm
2 V 292.402	28090.5	27949.6	0.2127 mg/L	42.53 ppm
2 Zn 213.856	17123.0	17732.5	0.1583 mg/L	31.67 ppm
3 Ag 328.068	-560.6	-489.4	-0.0024 mg/L	-0.4827 ppm
3 Al 308.215	1395348.4	1391301.2	43.02 mg/L	8605 ppm
3 As 188.979	157.1	28.9	0.0087 mg/L	1.748 ppm
3 Ba 233.527	219450.2	219500.9	0.5180 mg/L	103.6 ppm
3 Be 313.107	-7397.9	-7179.6	-0.0027 mg/L	-0.5347 ppm
3 Ca 227.547	2722.6	2111.3	8.599 mg/L	1720 ppm
3 Cd 228.802	208.7	-29.6	-0.0002 mg/L	-0.0458 ppm
3 Co 228.616	3903.9	4207.6	0.0409 mg/L	8.172 ppm
3 Cr 267.716	7817.6	8118.5	0.0886 mg/L	17.73 ppm
3 Cu 324.754	14764.4	11624.0	0.0387 mg/L	7.742 ppm
3 Fe 273.955	3299413.0	3298765.2	73.42 mg/L	14680 ppm
3 K 766.491	395169.6	397792.0	16.25 mg/L	3250 ppm
3 Mg 279.079	896670.2	891383.2	21.18 mg/L	4235 ppm
3 Mn 257.610	1203334.1	1202524.6	0.9034 mg/L	180.7 ppm
3 Mo 202.030	-53.6	4.0	0.0002 mg/L	0.0436 ppm
3 Na 330.237	3493.1	-3225.3	-4.769 mg/L	-953.9 ppm
3 Ni 231.604	1208.8	1289.2	0.0258 mg/L	5.166 ppm
3 Pb 220.353	4717.8	4893.0	0.3119 mg/L	62.39 ppm
3 Sb 206.833	7.0	18.2	0.0020 mg/L	0.4009 ppm
3 Se 196.026	8.9	-43.0	0.0045 mg/L	0.8988 ppm
3 Tl 190.800	197.0	-8.9	-0.0206 mg/L	-4.125 ppm
3 V 292.402	28329.2	28188.3	0.2145 mg/L	42.89 ppm
3 Zn 213.856	17101.5	17711.0	0.1581 mg/L	31.61 ppm

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

D: 2805-17 F=200 Seq. No.: 74 Sample No.: 1 A/S Pos: 51
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 3:31:34 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-322.9	-0.0016	0.00091	mg/L	-0.3185	0.18112	ppm	56.87%
l 308.215	1405774.0	43.47	0.808	mg/L	8694	161.5	ppm	1.86%
s 188.979	30.8	0.0093	0.00057	mg/L	1.869	0.1139	ppm	6.09%
a 233.527	221608.6	0.5229	0.00962	mg/L	104.6	1.92	ppm	1.84%
e 313.107	-7225.5	-0.0027	0.00004	mg/L	-0.5381	0.00744	ppm	1.38%
a 227.547	2079.7	8.470	0.1307	mg/L	1694	26.1	ppm	1.54%
d 228.802	-29.4	-0.0002	0.00005	mg/L	-0.0455	0.00951	ppm	20.90%
o 228.616	4214.7	0.0409	0.00014	mg/L	8.186	0.0278	ppm	0.34%
r 267.716	8187.2	0.0894	0.00112	mg/L	17.88	0.224	ppm	1.25%
u 324.754	11959.4	0.0398	0.00137	mg/L	7.965	0.2739	ppm	3.44%
e 273.955	3282538.8	73.05	0.435	mg/L	14610	87.1	ppm	0.60%
766.491	392902.8	16.07	0.157	mg/L	3214	31.5	ppm	0.98%
g 279.079	900153.0	21.38	0.368	mg/L	4277	73.7	ppm	1.72%
n 257.610	1215997.0	0.9136	0.01694	mg/L	182.7	3.39	ppm	1.85%
o 202.030	6.6	0.0004	0.00024	mg/L	0.0715	0.04773	ppm	66.75%
a 330.237	-3355.2	-4.962	0.2116	mg/L	-992.3	42.32	ppm	4.26%
i 231.604	1297.5	0.0260	0.00015	mg/L	5.199	0.0298	ppm	0.57%
o 220.353	4900.1	0.3124	0.00115	mg/L	62.49	0.230	ppm	0.37%
o 206.833	22.2	0.0030	0.00280	mg/L	0.6005	0.56040	ppm	93.33%
e 196.026	-45.0	0.0034	0.00260	mg/L	0.6863	0.52067	ppm	75.86%
l 190.800	-11.9	-0.0214	0.00071	mg/L	-4.284	0.1415	ppm	3.30%
292.402	28442.0	0.2164	0.00500	mg/L	43.28	1.000	ppm	2.31%
n 213.856	17681.4	0.1578	0.00067	mg/L	31.56	0.134	ppm	0.43%

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

D: 2805-18 F=50 Date: 4/23/03 3:34:52 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units

1	Ag 328.068	-2081.7	-2010.4	-0.0003 mg/L	-0.0164 ppm
1	Al 308.215	7797355.6	7793308.4	241.0 mg/L	12050 ppm
1	As 188.979	202.3	74.1	0.0217 mg/L	1.086 ppm
1	Ba 233.527	1187262.1	1187312.9	2.802 mg/L	140.1 ppm
1	Be 313.107	-38250.6	-38032.3	-0.0142 mg/L	-0.7081 ppm
1	Ca 227.547	10784.4	10173.1	48.51 mg/L	2426 ppm
1	Cd 228.802	164.3	-74.0	-0.0006 mg/L	-0.0286 ppm
1	Co 228.616	22948.5	23252.2	0.2258 mg/L	11.29 ppm
1	Cr 267.716	41047.0	41348.0	0.4449 mg/L	22.24 ppm
1	Cu 324.754	60653.4	57513.0	0.2087 mg/L	10.44 ppm
1	Fe 273.955	16281360.0	16280712.2	362.3 mg/L	18120 ppm
1	K 766.491	Saturated			
1	Mg 279.079	5246596.7	5241309.8	124.5 mg/L	6226 ppm
1	Mn 257.610	5389152.9	5388343.5	4.048 mg/L	202.4 ppm
1	Mo 202.030	-10.2	47.4	-0.0093 mg/L	-0.4628 ppm
1	Na 330.237	-11279.6	-17998.0	-26.76 mg/L	-1338 ppm
1	Ni 231.604	6442.2	6522.6	0.1307 mg/L	6.534 ppm
1	Pb 220.353	-57.5	117.7	0.0314 mg/L	1.568 ppm
1	Sb 206.833	56.7	67.9	0.0040 mg/L	0.1981 ppm
1	Se 196.026	-102.2	-154.1	0.0352 mg/L	1.758 ppm
1	Tl 190.800	103.1	-102.8	-0.1237 mg/L	-6.184 ppm
1	V 292.402	136419.0	136278.1	1.037 mg/L	51.84 ppm
1	Zn 213.856	82660.6	83270.1	0.7417 mg/L	37.09 ppm

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

ethod: 23ME ICP-M Date: 4/23/03 3:36:26 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: 2805-18 F=200 Date: 4/23/03 3:37:52 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-330.9	-259.7	-0.0013	mg/L	-0.2561	ppm
1	Al 308.215	1977353.4	1973306.1	61.02	mg/L	12200	ppm
1	As 188.979	167.7	39.5	0.0116	mg/L	2.323	ppm
1	Ba 233.527	318793.1	318843.9	0.7524	mg/L	150.5	ppm
1	Be 313.107	-10767.1	-10548.7	-0.0039	mg/L	-0.7857	ppm
1	Ca 227.547	3277.5	2666.2	10.86	mg/L	2172	ppm
1	Cd 228.802	182.1	-56.2	-0.0004	mg/L	-0.0871	ppm
1	Co 228.616	5844.2	6147.9	0.0597	mg/L	11.94	ppm
1	Cr 267.716	10693.3	10994.3	0.1200	mg/L	24.01	ppm
1	Cu 324.754	18085.8	14945.4	0.0544	mg/L	10.87	ppm
1	Fe 273.955	4347793.7	4347146.0	96.75	mg/L	19350	ppm
1	K 766.491	627077.2	629699.6	24.44	mg/L	4888	ppm

1 Mg 279.079	1327755.5	1322468.5	31.42 mg/L	6283 ppm	
1 Mn 257.610	1383996.6	1383187.2	1.039 mg/L	207.8 ppm	
1 Mo 202.030	-54.2	3.5	-0.0030 mg/L	-0.5939 ppm	
1 Na 330.237	2075.2	-4643.2	-6.867 mg/L	-1373 ppm	
1 Ni 231.604	1621.5	1701.8	0.0341 mg/L	6.819 ppm	
1 Pb 220.353	-189.1	-13.9	0.0052 mg/L	1.038 ppm	
1 Sb 206.833	-2.2	9.0	-0.0012 mg/L	-0.2445 ppm	
1 Se 196.026	9.5	-42.4	0.0091 mg/L	1.813 ppm	
1 Tl 190.800	184.6	-21.2	-0.0302 mg/L	-6.045 ppm	
1 V 292.402	36133.9	35993.0	0.2739 mg/L	54.77 ppm	
1 Zn 213.856	22441.8	23051.3	0.2056 mg/L	41.13 ppm	
2 Ag 328.068	-798.7	-727.4	-0.0036 mg/L	-0.7175 ppm	
2 Al 308.215	2072930.7	2068883.5	63.98 mg/L	12800 ppm	
2 As 188.979	160.2	32.0	0.0099 mg/L	1.981 ppm	
2 Ba 233.527	338483.6	338534.4	0.7988 mg/L	159.8 ppm	
2 Be 313.107	-11287.1	-11068.7	-0.0041 mg/L	-0.8244 ppm	
2 Ca 227.547	3292.5	2681.2	10.92 mg/L	2184 ppm	
2 Cd 228.802	172.2	-66.1	-0.0005 mg/L	-0.1023 ppm	
2 Co 228.616	5880.8	6184.5	0.0601 mg/L	12.01 ppm	
2 Cr 267.716	11499.3	11800.3	0.1288 mg/L	25.77 ppm	
2 Cu 324.754	18883.0	15742.6	0.0572 mg/L	11.44 ppm	
2 Fe 273.955	4521132.2	4520484.5	100.6 mg/L	20120 ppm	
2 K 766.491	598063.9	600686.4	23.46 mg/L	4691 ppm	
2 Mg 279.079	1383272.9	1377985.9	32.74 mg/L	6547 ppm	
2 Mn 257.610	1435464.8	1434655.4	1.078 mg/L	215.6 ppm	
2 Mo 202.030	-52.3	5.3	-0.0030 mg/L	-0.5990 ppm	
2 Na 330.237	1593.6	-5124.8	-7.580 mg/L	-1516 ppm	
2 Ni 231.604	1620.6	1701.0	0.0341 mg/L	6.816 ppm	
2 Pb 220.353	-174.6	0.5	0.0064 mg/L	1.279 ppm	
2 Sb 206.833	-9.4	1.8	-0.0033 mg/L	-0.6615 ppm	
2 Se 196.026	8.0	-43.9	0.0095 mg/L	1.896 ppm	
2 Tl 190.800	178.9	-27.0	-0.0328 mg/L	-6.561 ppm	
2 V 292.402	38707.9	38567.0	0.2934 mg/L	58.69 ppm	
2 Zn 213.856	24122.3	24731.8	0.2209 mg/L	44.18 ppm	
3 Ag 328.068	-471.3	-400.0	-0.0020 mg/L	-0.3946 ppm	
3 Al 308.215	2043187.3	2039140.1	63.06 mg/L	12610 ppm	
3 As 188.979	153.9	25.7	0.0067 mg/L	1.349 ppm	
3 Ba 233.527	318920.2	318971.0	0.7527 mg/L	150.5 ppm	
3 Be 313.107	-10866.8	-10648.5	-0.0040 mg/L	-0.7931 ppm	
3 Ca 227.547	3237.6	2626.3	10.70 mg/L	2139 ppm	
3 Cd 228.802	171.4	-66.9	-0.0005 mg/L	-0.1037 ppm	
3 Co 228.616	5796.5	6100.2	0.0592 mg/L	11.85 ppm	
3 Cr 267.716	10746.5	11047.4	0.1206 mg/L	24.12 ppm	
3 Cu 324.754	17871.4	14731.0	0.0538 mg/L	10.75 ppm	
3 Fe 273.955	4452308.0	4451660.2	99.07 mg/L	19810 ppm	
3 K 766.491	630575.1	633197.6	24.56 mg/L	4912 ppm	
3 Mg 279.079	1364079.3	1358792.3	32.28 mg/L	6456 ppm	
3 Mn 257.610	1410652.9	1409843.5	1.059 mg/L	211.8 ppm	
3 Mo 202.030	-57.2	0.5	-0.0032 mg/L	-0.6415 ppm	
3 Na 330.237	1904.4	-4814.0	-7.120 mg/L	-1424 ppm	
3 Ni 231.604	1591.8	1672.2	0.0335 mg/L	6.701 ppm	
3 Pb 220.353	-162.6	12.6	0.0071 mg/L	1.412 ppm	
3 Sb 206.833	-3.6	7.6	-0.0016 mg/L	-0.3204 ppm	
3 Se 196.026	9.7	-42.1	0.0097 mg/L	1.937 ppm	
3 Tl 190.800	188.3	-17.6	-0.0299 mg/L	-5.978 ppm	
3 V 292.402	36145.9	36005.0	0.2739 mg/L	54.79 ppm	
3 Zn 213.856	22556.3	23165.8	0.2065 mg/L	41.30 ppm	

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

): 2805-18 F=200 Seq. No.: 76 Sample No.: 1 A/S Pos: 52

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

Data: Original Date: 4/23/03 3:37:52 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
328.068	-462.4	-0.0023	0.00118	mg/L	-0.4561	0.23676	ppm	51.91%
308.215	2027109.9	62.69	1.513	mg/L	12540	302.5	ppm	2.41%
188.979	32.4	0.0094	0.00247	mg/L	1.884	0.4938	ppm	26.21%
233.527	325449.8	0.7680	0.02674	mg/L	153.6	5.35	ppm	3.48%
313.107	-10755.3	-0.0040	0.00010	mg/L	-0.8010	0.02055	ppm	2.57%

a 227.547	2657.9	10.83	0.116 mg/L	2165	23.1 ppm	1.07%
d 228.802	-63.1	-0.0005	0.00005 mg/L	-0.0977	0.00922 ppm	9.44%
o 228.616	6144.2	0.0597	0.00041 mg/L	11.93	0.082 ppm	0.69%
r 267.716	11280.7	0.1232	0.00492 mg/L	24.63	0.984 ppm	4.00%
u 324.754	15139.6	0.0551	0.00184 mg/L	11.02	0.367 ppm	3.33%
e 273.955	4439763.6	98.81	1.942 mg/L	19760	388.5 ppm	1.97%
766.491	621194.5	24.15	0.606 mg/L	4831	121.3 ppm	2.51%
g 279.079	1353082.2	32.14	0.670 mg/L	6429	134.0 ppm	2.08%
n 257.610	1409228.7	1.059	0.0193 mg/L	211.7	3.87 ppm	1.83%
o 202.030	3.1	-0.0031	0.00013 mg/L	-0.6115	0.02616 ppm	4.28%
a 330.237	-4860.7	-7.189	0.3615 mg/L	-1438	72.3 ppm	5.03%
i 231.604	1691.7	0.0339	0.00034 mg/L	6.779	0.0676 ppm	1.00%
b 220.353	-0.3	0.0062	0.00095 mg/L	1.243	0.1896 ppm	15.25%
b 206.833	6.1	-0.0020	0.00111 mg/L	-0.4088	0.22209 ppm	54.33%
e 196.026	-42.8	0.0094	0.00031 mg/L	1.882	0.0630 ppm	3.35%
l 190.800	-21.9	-0.0310	0.00160 mg/L	-6.194	0.3192 ppm	5.15%
292.402	36855.0	0.2804	0.01128 mg/L	56.08	2.256 ppm	4.02%
n 213.856	23649.6	0.2110	0.00857 mg/L	42.20	1.715 ppm	4.06%

eplicate Data

D: 2805-20 F=50 Date: 4/23/03 3:41:15 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1803.4	-1732.1	0.0001	mg/L	0.0064	ppm
1	Al 308.215	5984556.6	5980509.4	184.9	mg/L	9247	ppm
1	As 188.979	277.1	148.9	0.0507	mg/L	2.535	ppm
1	Ba 233.527	896564.9	896615.6	2.116	mg/L	105.8	ppm
1	Be 313.107	-27652.8	-27434.5	-0.0102	mg/L	-0.5108	ppm
1	Ca 227.547	9612.1	9000.9	43.06	mg/L	2153	ppm
1	Cd 228.802	242.3	4.0	0.0000	mg/L	0.0016	ppm
1	Co 228.616	18402.0	18705.7	0.1816	mg/L	9.082	ppm
1	Cr 267.716	33946.2	34247.1	0.3680	mg/L	18.40	ppm
1	Cu 324.754	56502.9	53362.5	0.1932	mg/L	9.662	ppm
1	Fe 273.955	14725256.5	14724608.8	327.7	mg/L	16390	ppm
1	K 766.491	Saturated					
1	Mg 279.079	3806678.4	3801391.4	90.31	mg/L	4515	ppm
1	Mn 257.610	4286517.8	4285708.4	3.220	mg/L	161.0	ppm
1	Mo 202.030	-56.9	0.8	-0.0107	mg/L	-0.5327	ppm
1	Na 330.237	-5692.7	-12411.1	-18.41	mg/L	-920.4	ppm
1	Ni 231.604	5156.3	5236.7	0.1049	mg/L	5.246	ppm
1	Pb 220.353	6544.1	6719.2	0.4409	mg/L	22.04	ppm
1	Sb 206.833	-1.6	9.6	-0.0085	mg/L	-0.4232	ppm
1	Se 196.026	-218.2	-270.0	-0.0090	mg/L	-0.4500	ppm
1	Tl 190.800	212.4	6.6	-0.0808	mg/L	-4.042	ppm
1	V 292.402	115839.9	115699.0	0.8803	mg/L	44.02	ppm
1	Zn 213.856	71290.7	71900.2	0.6392	mg/L	31.96	ppm

alibration Summary

ethod: 23ME ICP-M Date: 4/23/03 3:42:51 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
. 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: 2805-20 F=200 Date: 4/23/03 3:44:16 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-767.4	-696.2	-0.0034	mg/L	-0.6867	ppm
1	Al 308.215	1496700.8	1492653.6	46.16	mg/L	9232	ppm
1	As 188.979	144.1	16.0	0.0045	mg/L	0.8997	ppm
1	Ba 233.527	226229.5	226280.2	0.5340	mg/L	106.8	ppm
1	Be 313.107	-7409.1	-7190.7	-0.0027	mg/L	-0.5356	ppm
1	Ca 227.547	2826.2	2215.0	9.021	mg/L	1804	ppm
1	Cd 228.802	169.2	-69.1	-0.0005	mg/L	-0.1070	ppm
1	Co 228.616	4303.0	4606.7	0.0447	mg/L	8.947	ppm
1	Cr 267.716	8295.3	8596.2	0.0939	mg/L	18.77	ppm
1	Cu 324.754	16121.0	12980.6	0.0474	mg/L	9.478	ppm
1	Fe 273.955	3942717.8	3942070.1	87.73	mg/L	17550	ppm
1	K 766.491	409844.7	412467.2	16.79	mg/L	3358	ppm
1	Mg 279.079	958350.8	953063.8	22.64	mg/L	4528	ppm
1	Mn 257.610	1089819.0	1089009.5	0.8182	mg/L	163.6	ppm
1	Mo 202.030	-50.0	7.6	0.0004	mg/L	0.0825	ppm
1	Na 330.237	3782.4	-2936.0	-4.342	mg/L	-868.4	ppm
1	Ni 231.604	1242.0	1322.4	0.0265	mg/L	5.299	ppm
1	Pb 220.353	1492.3	1667.5	0.1094	mg/L	21.89	ppm
1	Sb 206.833	-5.3	5.9	-0.0012	mg/L	-0.2483	ppm
1	Se 196.026	5.4	-46.5	0.0059	mg/L	1.176	ppm
1	Tl 190.800	201.2	-4.7	-0.0225	mg/L	-4.493	ppm
1	V 292.402	28967.7	28826.8	0.2193	mg/L	43.87	ppm
1	Zn 213.856	17498.3	18107.8	0.1605	mg/L	32.11	ppm
2	Ag 328.068	-602.0	-530.7	-0.0026	mg/L	-0.5235	ppm
2	Al 308.215	1550110.7	1546063.4	47.81	mg/L	9562	ppm
2	As 188.979	155.1	26.9	0.0082	mg/L	1.646	ppm
2	Ba 233.527	232764.0	232814.8	0.5494	mg/L	109.9	ppm
2	Be 313.107	-7687.7	-7469.4	-0.0028	mg/L	-0.5563	ppm
2	Ca 227.547	2850.7	2239.4	9.121	mg/L	1824	ppm
2	Cd 228.802	180.4	-57.9	-0.0004	mg/L	-0.0897	ppm
2	Co 228.616	4338.8	4642.5	0.0451	mg/L	9.016	ppm
2	Cr 267.716	8614.9	8915.9	0.0973	mg/L	19.47	ppm
2	Cu 324.754	16348.6	13208.2	0.0483	mg/L	9.652	ppm
2	Fe 273.955	4049892.0	4049244.2	90.12	mg/L	18020	ppm
2	K 766.491	431955.6	434578.0	17.60	mg/L	3520	ppm
2	Mg 279.079	986916.3	981629.3	23.32	mg/L	4664	ppm
2	Mn 257.610	1115687.5	1114878.1	0.8376	mg/L	167.5	ppm
2	Mo 202.030	-49.7	8.0	0.0004	mg/L	0.0864	ppm
2	Na 330.237	3398.7	-3319.8	-4.909	mg/L	-981.8	ppm
2	Ni 231.604	1236.0	1316.4	0.0264	mg/L	5.275	ppm
2	Pb 220.353	1513.8	1689.0	0.1110	mg/L	22.19	ppm
2	Sb 206.833	-10.5	0.7	-0.0026	mg/L	-0.5294	ppm
2	Se 196.026	9.4	-42.4	0.0077	mg/L	1.543	ppm
2	Tl 190.800	207.6	1.8	-0.0213	mg/L	-4.270	ppm
2	V 292.402	29892.8	29751.9	0.2264	mg/L	45.27	ppm
2	Zn 213.856	18217.6	18827.1	0.1670	mg/L	33.40	ppm
3	Ag 328.068	-587.3	-516.1	-0.0025	mg/L	-0.5091	ppm
3	Al 308.215	1552028.5	1547981.3	47.87	mg/L	9574	ppm
3	As 188.979	148.6	20.4	0.0059	mg/L	1.181	ppm
3	Ba 233.527	231978.8	232029.6	0.5475	mg/L	109.5	ppm
3	Be 313.107	-7697.4	-7479.0	-0.0028	mg/L	-0.5570	ppm
3	Ca 227.547	2872.5	2261.3	9.210	mg/L	1842	ppm
3	Cd 228.802	179.3	-59.0	-0.0005	mg/L	-0.0915	ppm
3	Co 228.616	4343.6	4647.2	0.0451	mg/L	9.026	ppm
3	Cr 267.716	8553.4	8854.4	0.0967	mg/L	19.33	ppm
3	Cu 324.754	16499.1	13358.7	0.0487	mg/L	9.739	ppm
3	Fe 273.955	3987639.8	3986992.0	88.73	mg/L	17750	ppm

3 K 766.491	429284.8	431907.3	17.50 mg/L	3500 ppm
3 Mg 279.079	985008.1	979721.2	23.27 mg/L	4655 ppm
3 Mn 257.610	1113518.8	1112709.3	0.8360 mg/L	167.2 ppm
3 Mo 202.030	-43.5	14.2	0.0008 mg/L	0.1538 ppm
3 Na 330.237	3619.7	-3098.7	-4.582 mg/L	-916.5 ppm
3 Ni 231.604	1271.4	1351.8	0.0271 mg/L	5.417 ppm
3 Pb 220.353	1493.3	1668.4	0.1097 mg/L	21.93 ppm
3 Sb 206.833	-1.6	9.6	-0.0004 mg/L	-0.0802 ppm
3 Se 196.026	1.9	-50.0	0.0050 mg/L	0.9925 ppm
3 Tl 190.800	198.9	-7.0	-0.0235 mg/L	-4.693 ppm
3 V 292.402	29696.4	29555.5	0.2249 mg/L	44.98 ppm
3 Zn 213.856	18184.0	18793.5	0.1668 mg/L	33.36 ppm

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

D: 2805-20 F=200 Seq. No.: 78 Sample No.: 1 A/S Pos: 53
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 3:44:16 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-581.0	-0.0029	0.00049	mg/L	-0.5731	0.09865	ppm	17.21%
l 308.215	1528899.4	47.28	0.971	mg/L	9456	194.2	ppm	2.05%
s 188.979	21.1	0.0062	0.00188	mg/L	1.242	0.3767	ppm	30.32%
a 233.527	230374.9	0.5436	0.00842	mg/L	108.7	1.68	ppm	1.55%
e 313.107	-7379.7	-0.0027	0.00006	mg/L	-0.5496	0.01219	ppm	2.22%
a 227.547	2238.6	9.117	0.0943	mg/L	1823	18.9	ppm	1.03%
d 228.802	-62.0	-0.0005	0.00005	mg/L	-0.0961	0.00953	ppm	9.92%
o 228.616	4632.1	0.0450	0.00022	mg/L	8.996	0.0430	ppm	0.48%
r 267.716	8788.8	0.0960	0.00185	mg/L	19.19	0.370	ppm	1.93%
u 324.754	13182.5	0.0481	0.00067	mg/L	9.623	0.1330	ppm	1.38%
e 273.955	3992768.8	88.86	1.198	mg/L	17770	239.6	ppm	1.35%
766.491	426317.5	17.30	0.442	mg/L	3460	88.3	ppm	2.55%
g 279.079	971471.4	23.08	0.379	mg/L	4616	75.9	ppm	1.64%
n 257.610	1105532.3	0.8306	0.01078	mg/L	166.1	2.16	ppm	1.30%
o 202.030	9.9	0.0005	0.00020	mg/L	0.1076	0.04009	ppm	37.26%
a 330.237	-3118.2	-4.611	0.2847	mg/L	-922.2	56.94	ppm	6.17%
i 231.604	1330.2	0.0267	0.00038	mg/L	5.330	0.0758	ppm	1.42%
b 220.353	1675.0	0.1100	0.00082	mg/L	22.00	0.164	ppm	0.74%
b 206.833	5.4	-0.0014	0.00113	mg/L	-0.2860	0.22695	ppm	79.36%
e 196.026	-46.3	0.0062	0.00140	mg/L	1.237	0.2804	ppm	22.66%
l 190.800	-3.3	-0.0224	0.00106	mg/L	-4.485	0.2117	ppm	4.72%
292.402	29378.1	0.2235	0.00371	mg/L	44.71	0.742	ppm	1.66%
n 213.856	18576.1	0.1648	0.00368	mg/L	32.96	0.736	ppm	2.23%

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

ethod: 23ME ICP-M Date: 4/23/03 3:46:22 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: 2805-21 F=50 Date: 4/23/03 3:47:29 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-1901.6	-1830.4	-0.0015	mg/L	-0.0731	ppm
1	Al 308.215	5492291.9	5488244.6	169.7	mg/L	8486	ppm
1	As 188.979	407.8	279.6	0.1033	mg/L	5.164	ppm
1	Ba 233.527	628447.9	628498.7	1.483	mg/L	74.15	ppm
1	Be 313.107	-2809.0	-2590.6	-0.0010	mg/L	-0.0482	ppm
1	Ca 227.547	73501.3	72890.1	302.5	mg/L	15120	ppm
1	Cd 228.802	157.0	-81.3	-0.0006	mg/L	-0.0315	ppm
1	Co 228.616	12867.5	13171.2	0.1279	mg/L	6.395	ppm
1	Cr 267.716	25924.5	26225.5	0.2812	mg/L	14.06	ppm
1	Cu 324.754	47910.5	44770.1	0.1627	mg/L	8.133	ppm
1	Fe 273.955	12850550.5	12849902.7	286.0	mg/L	14300	ppm
1	K 766.491	Saturated					
1	Mg 279.079	3482624.0	3477337.0	82.61	mg/L	4131	ppm
1	Mn 257.610	5519205.5	5518396.0	4.146	mg/L	207.3	ppm
1	Mo 202.030	53.3	110.9	-0.0033	mg/L	-0.1659	ppm
1	Na 330.237	1063.4	-5655.0	-8.366	mg/L	-418.3	ppm
1	Ni 231.604	6382.7	6463.0	0.1295	mg/L	6.474	ppm
1	Pb 220.353	1808.5	1983.6	0.1416	mg/L	7.080	ppm
1	Sb 206.833	85.5	96.7	0.0160	mg/L	0.8018	ppm
1	Se 196.026	-150.3	-202.2	0.0026	mg/L	0.1297	ppm
1	Tl 190.800	284.4	78.5	-0.0497	mg/L	-2.484	ppm
1	V 292.402	90464.8	90323.9	0.6872	mg/L	34.36	ppm
1	Zn 213.856	73647.3	74256.7	0.6646	mg/L	33.23	ppm

alibration Summary
ethod: 23ME ICP-M Date: 4/23/03 3:49:06 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
u 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
. 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
u 213.856	3	Linear-thru-Zero	0.0	107770.3	0.00000	0.999875

eplicate Data
): 2805-21 F=200 Date: 4/23/03 3:50:29 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-607.7	-536.5	-0.0026	mg/L	-0.5292	ppm
1	Al 308.215	1444554.0	1440506.7	44.55	mg/L	8909	ppm
1	As 188.979	194.5	66.3	0.0242	mg/L	4.847	ppm
1	Ba 233.527	169436.6	169487.4	0.3999	mg/L	79.99	ppm

1	Be 313.107	-1124.9	-906.5	-0.0003 mg/L	-0.0675 ppm
1	Ca 227.547	19987.6	19376.4	78.92 mg/L	15780 ppm
1	Cd 228.802	211.8	-26.5	-0.0002 mg/L	-0.0411 ppm
1	Co 228.616	3307.2	3610.9	0.0351 mg/L	7.013 ppm
1	Cr 267.716	6677.8	6978.8	0.0762 mg/L	15.24 ppm
1	Cu 324.754	14900.3	11759.9	0.0392 mg/L	7.832 ppm
1	Fe 273.955	3531816.8	3531169.0	78.59 mg/L	15720 ppm
1	K 766.491	217920.1	220542.5	9.431 mg/L	1886 ppm
1	Mg 279.079	929494.0	924207.0	21.96 mg/L	4391 ppm
1	Mn 257.610	1473866.1	1473056.7	1.107 mg/L	221.3 ppm
1	Mo 202.030	-29.8	27.9	0.0015 mg/L	0.3023 ppm
1	Na 330.237	5036.3	-1682.1	-2.490 mg/L	-497.9 ppm
1	Ni 231.604	1664.4	1744.8	0.0350 mg/L	6.991 ppm
1	Pb 220.353	314.1	489.2	0.0352 mg/L	7.038 ppm
1	Sb 206.833	3.1	14.3	0.0014 mg/L	0.2767 ppm
1	Se 196.026	7.9	-43.9	0.0045 mg/L	0.8910 ppm
1	Tl 190.800	249.0	43.2	-0.0077 mg/L	-1.536 ppm
1	V 292.402	24233.3	24092.4	0.1833 mg/L	36.66 ppm
1	Zn 213.856	19895.2	20504.7	0.1835 mg/L	36.71 ppm
2	Ag 328.068	-556.1	-484.8	-0.0024 mg/L	-0.4782 ppm
2	Al 308.215	1412200.3	1408153.0	43.54 mg/L	8709 ppm
2	As 188.979	201.8	73.6	0.0265 mg/L	5.306 ppm
2	Ba 233.527	156203.1	156253.8	0.3687 mg/L	73.74 ppm
2	Be 313.107	-1338.0	-1119.7	-0.0004 mg/L	-0.0834 ppm
2	Ca 227.547	18245.0	17633.8	71.82 mg/L	14360 ppm
2	Cd 228.802	209.0	-29.3	-0.0002 mg/L	-0.0454 ppm
2	Co 228.616	3313.7	3617.4	0.0351 mg/L	7.026 ppm
2	Cr 267.716	6731.2	7032.2	0.0768 mg/L	15.36 ppm
2	Cu 324.754	13586.3	10445.9	0.0348 mg/L	6.957 ppm
2	Fe 273.955	3443387.4	3442739.6	76.62 mg/L	15320 ppm
2	K 766.491	214705.7	217328.2	9.302 mg/L	1860 ppm
2	Mg 279.079	907303.6	902016.6	21.43 mg/L	4286 ppm
2	Mn 257.610	1437229.9	1436420.4	1.079 mg/L	215.8 ppm
2	Mo 202.030	-11.3	46.3	0.0025 mg/L	0.5024 ppm
2	Na 330.237	5262.6	-1455.8	-2.155 mg/L	-431.1 ppm
2	Ni 231.604	1701.2	1781.6	0.0357 mg/L	7.139 ppm
2	Pb 220.353	351.5	526.7	0.0374 mg/L	7.490 ppm
2	Sb 206.833	-3.7	7.5	-0.0003 mg/L	-0.0674 ppm
2	Se 196.026	1.6	-50.2	0.0030 mg/L	0.5992 ppm
2	Tl 190.800	246.3	40.4	-0.0079 mg/L	-1.589 ppm
2	V 292.402	22275.8	22134.9	0.1684 mg/L	33.68 ppm
2	Zn 213.856	18102.9	18712.4	0.1671 mg/L	33.42 ppm
3	Ag 328.068	-594.8	-523.6	-0.0026 mg/L	-0.5165 ppm
3	Al 308.215	1435101.9	1431054.6	44.25 mg/L	8851 ppm
3	As 188.979	187.1	58.9	0.0216 mg/L	4.325 ppm
3	Ba 233.527	168124.8	168175.6	0.3968 mg/L	79.37 ppm
3	Be 313.107	-1317.8	-1099.5	-0.0004 mg/L	-0.0819 ppm
3	Ca 227.547	19787.0	19175.8	78.10 mg/L	15620 ppm
3	Cd 228.802	188.4	-49.9	-0.0004 mg/L	-0.0773 ppm
3	Co 228.616	3284.6	3588.3	0.0348 mg/L	6.969 ppm
3	Cr 267.716	6692.8	6993.8	0.0764 mg/L	15.27 ppm
3	Cu 324.754	14842.4	11702.0	0.0390 mg/L	7.794 ppm
3	Fe 273.955	3483856.9	3483209.1	77.52 mg/L	15500 ppm
3	K 766.491	219407.7	222030.2	9.491 mg/L	1898 ppm
3	Mg 279.079	916747.1	911460.2	21.65 mg/L	4331 ppm
3	Mn 257.610	1453247.5	1452438.0	1.091 mg/L	218.2 ppm
3	Mo 202.030	-25.4	32.3	0.0018 mg/L	0.3503 ppm
3	Na 330.237	5495.0	-1223.5	-1.812 mg/L	-362.5 ppm
3	Ni 231.604	1674.4	1754.8	0.0352 mg/L	7.031 ppm
3	Pb 220.353	334.8	509.9	0.0365 mg/L	7.293 ppm
3	Sb 206.833	9.3	20.5	0.0029 mg/L	0.5879 ppm
3	Se 196.026	2.8	-49.1	0.0026 mg/L	0.5148 ppm
3	Tl 190.800	231.8	25.9	-0.0121 mg/L	-2.422 ppm
3	V 292.402	24009.3	23868.4	0.1816 mg/L	36.32 ppm
3	Zn 213.856	19704.4	20313.9	0.1819 mg/L	36.37 ppm

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

D: 2805-21 F=200 Seq. No.: 80 Sample No.: 1 A/S Pos: 54

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

Data: Original Date: 4/23/03 3:50:29 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-515.0	-0.0025	0.00013	mg/L	-0.5080	0.02652	ppm	5.22%
l 308.215	1426571.5	44.11	0.514	mg/L	8823	102.9	ppm	1.17%
s 188.979	66.3	0.0241	0.00246	mg/L	4.826	0.4911	ppm	10.18%
a 233.527	164638.9	0.3885	0.01721	mg/L	77.70	3.441	ppm	4.43%
e 313.107	-1041.9	-0.0004	0.00004	mg/L	-0.0776	0.00876	ppm	11.29%
a 227.547	18728.6	76.28	3.883	mg/L	15260	776.7	ppm	5.09%
d 228.802	-35.2	-0.0003	0.00010	mg/L	-0.0546	0.01981	ppm	36.29%
o 228.616	3605.5	0.0350	0.00015	mg/L	7.003	0.0296	ppm	0.42%
r 267.716	7001.6	0.0764	0.00030	mg/L	15.29	0.060	ppm	0.39%
u 324.754	11302.6	0.0376	0.00247	mg/L	7.528	0.4945	ppm	6.57%
e 273.955	3485705.9	77.58	0.985	mg/L	15520	197.0	ppm	1.27%
766.491	219967.0	9.408	0.0964	mg/L	1882	19.3	ppm	1.02%
g 279.079	912561.3	21.68	0.265	mg/L	4336	52.9	ppm	1.22%
n 257.610	1453971.7	1.092	0.0138	mg/L	218.5	2.76	ppm	1.26%
o 202.030	35.5	0.0019	0.00052	mg/L	0.3850	0.10449	ppm	27.14%
a 330.237	-1453.8	-2.152	0.3385	mg/L	-430.5	67.71	ppm	15.73%
i 231.604	1760.4	0.0353	0.00038	mg/L	7.054	0.0764	ppm	1.08%
b 220.353	508.6	0.0364	0.00113	mg/L	7.274	0.2262	ppm	3.11%
b 206.833	14.1	0.0013	0.00164	mg/L	0.2657	0.32780	ppm	123.35%
e 196.026	-47.7	0.0033	0.00099	mg/L	0.6683	0.19741	ppm	29.54%
l 190.800	36.5	-0.0092	0.00248	mg/L	-1.849	0.4969	ppm	26.88%
292.402	23365.2	0.1778	0.00815	mg/L	35.56	1.630	ppm	4.59%
n 213.856	19843.6	0.1775	0.00906	mg/L	35.50	1.812	ppm	5.10%

alibration Summary

ethod: 23ME ICP-M Date: 4/23/03 3:53:20 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: 2805-1 F=200 Date: 4/23/03 3:54:43 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-501.2	-429.9	-0.0021	mg/L	-0.4241	ppm
1	Al 308.215	1332629.2	1328582.0	41.08	mg/L	8217	ppm
1	As 188.979	151.3	23.2	0.0066	mg/L	1.318	ppm
1	Ba 233.527	43142.7	43193.4	0.1019	mg/L	20.38	ppm
1	Be 313.107	1695.3	1913.6	0.0007	mg/L	0.1425	ppm
1	Ca 227.547	1791.1	1179.8	4.805	mg/L	961.0	ppm
1	Cd 228.802	196.8	-41.4	-0.0003	mg/L	-0.0642	ppm
1	Co 228.616	2766.8	3070.5	0.0298	mg/L	5.963	ppm
1	Cr 267.716	5618.1	5919.1	0.0646	mg/L	12.92	ppm

1 Cu 324.754	7940.5	4800.1	0.0160 mg/L	3.197 ppm	
1 Fe 273.955	2871985.0	2871337.2	63.90 mg/L	12780 ppm	
1 K 766.491	134691.9	137314.4	6.023 mg/L	1205 ppm	
1 Mg 279.079	531930.1	526643.2	12.51 mg/L	2502 ppm	
1 Mn 257.610	561362.5	560553.1	0.4211 mg/L	84.23 ppm	
1 Mo 202.030	-57.8	-0.1	0.0000 mg/L	-0.0015 ppm	
1 Na 330.237	8383.0	1664.6	2.444 mg/L	488.8 ppm	
1 Ni 231.604	1084.6	1165.0	0.0233 mg/L	4.668 ppm	
1 Pb 220.353	-63.9	111.3	0.0111 mg/L	2.217 ppm	
1 Sb 206.833	10.7	21.9	0.0055 mg/L	1.102 ppm	
1 Se 196.026	7.1	-44.8	0.0016 mg/L	0.3138 ppm	
1 Tl 190.800	255.6	49.8	-0.0028 mg/L	-0.5626 ppm	
1 V 292.402	20317.6	20176.7	0.1535 mg/L	30.70 ppm	
1 Zn 213.856	8525.4	9134.9	0.0793 mg/L	15.86 ppm	
2 Ag 328.068	-661.8	-590.6	-0.0029 mg/L	-0.5825 ppm	
2 Al 308.215	1359334.1	1355286.9	41.91 mg/L	8382 ppm	
2 As 188.979	157.0	28.8	0.0085 mg/L	1.701 ppm	
2 Ba 233.527	43440.9	43491.7	0.1026 mg/L	20.53 ppm	
2 Be 313.107	1551.6	1770.0	0.0007 mg/L	0.1318 ppm	
2 Ca 227.547	1753.9	1142.7	4.654 mg/L	930.8 ppm	
2 Cd 228.802	212.3	-26.0	-0.0002 mg/L	-0.0402 ppm	
2 Co 228.616	2725.9	3029.6	0.0294 mg/L	5.884 ppm	
2 Cr 267.716	5569.8	5870.8	0.0641 mg/L	12.82 ppm	
2 Cu 324.754	7814.6	4674.2	0.0156 mg/L	3.113 ppm	
2 Fe 273.955	2910391.2	2909743.4	64.76 mg/L	12950 ppm	
2 K 766.491	137467.8	140090.2	6.139 mg/L	1228 ppm	
2 Mg 279.079	539387.8	534100.8	12.69 mg/L	2538 ppm	
2 Mn 257.610	567059.2	566249.7	0.4254 mg/L	85.08 ppm	
2 Mo 202.030	-58.6	-1.0	-0.0001 mg/L	-0.0104 ppm	
2 Na 330.237	8602.1	1883.7	2.766 mg/L	553.3 ppm	
2 Ni 231.604	1060.2	1140.6	0.0229 mg/L	4.570 ppm	
2 Pb 220.353	-95.1	80.0	0.0092 mg/L	1.839 ppm	
2 Sb 206.833	4.2	15.4	0.0039 mg/L	0.7738 ppm	
2 Se 196.026	23.7	-28.1	0.0071 mg/L	1.417 ppm	
2 Tl 190.800	260.0	54.2	-0.0019 mg/L	-0.3724 ppm	
2 V 292.402	20537.9	20397.0	0.1552 mg/L	31.04 ppm	
2 Zn 213.856	8497.0	9106.5	0.0790 mg/L	15.79 ppm	
3 Ag 328.068	-361.0	-289.7	-0.0014 mg/L	-0.2858 ppm	
3 Al 308.215	1341598.7	1337551.5	41.36 mg/L	8272 ppm	
3 As 188.979	160.1	31.9	0.0096 mg/L	1.915 ppm	
3 Ba 233.527	42346.9	42397.7	0.1000 mg/L	20.01 ppm	
3 Be 313.107	1393.9	1612.2	0.0006 mg/L	0.1201 ppm	
3 Ca 227.547	1769.1	1157.8	4.716 mg/L	943.1 ppm	
3 Cd 228.802	210.7	-27.6	-0.0002 mg/L	-0.0428 ppm	
3 Co 228.616	2729.4	3033.1	0.0295 mg/L	5.891 ppm	
3 Cr 267.716	5553.8	5854.8	0.0639 mg/L	12.78 ppm	
3 Cu 324.754	7646.5	4506.1	0.0150 mg/L	3.001 ppm	
3 Fe 273.955	2869020.5	2868372.8	63.84 mg/L	12770 ppm	
3 K 766.491	136776.3	139398.8	6.110 mg/L	1222 ppm	
3 Mg 279.079	534210.8	528923.8	12.57 mg/L	2513 ppm	
3 Mn 257.610	560806.3	559996.8	0.4207 mg/L	84.14 ppm	
3 Mo 202.030	-60.7	-3.0	-0.0002 mg/L	-0.0327 ppm	
3 Na 330.237	8247.2	1528.8	2.244 mg/L	448.8 ppm	
3 Ni 231.604	1068.4	1148.8	0.0230 mg/L	4.603 ppm	
3 Pb 220.353	-76.0	99.1	0.0103 mg/L	2.069 ppm	
3 Sb 206.833	7.8	19.0	0.0048 mg/L	0.9565 ppm	
3 Se 196.026	32.7	-19.1	0.0097 mg/L	1.945 ppm	
3 Tl 190.800	262.3	56.5	-0.0010 mg/L	-0.2022 ppm	
3 V 292.402	19853.4	19712.5	0.1500 mg/L	30.00 ppm	
3 Zn 213.856	8486.6	9096.1	0.0789 mg/L	15.79 ppm	

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

D: 2805-1 F=200 Seq. No.: 81 Sample No.: 1 A/S Pos: 40

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

Data: Original Date: 4/23/03 3:54:43 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	-436.7	-0.0022	0.00074	mg/L	-0.4308	0.14848	ppm	34.47%
l 308.215	1340473.5	41.45	0.420	mg/L	8290	84.1	ppm	1.01%

s 188.979	27.9	0.0082	0.00151 mg/L	1.645	0.3026 ppm	18.40%
a 233.527	43027.6	0.1015	0.00133 mg/L	20.31	0.267 ppm	1.31%
e 313.107	1765.3	0.0007	0.00006 mg/L	0.1315	0.01123 ppm	8.54%
a 227.547	1160.1	4.725	0.0760 mg/L	945.0	15.21 ppm	1.61%
d 228.802	-31.7	-0.0002	0.00007 mg/L	-0.0491	0.01317 ppm	26.84%
o 228.616	3044.4	0.0296	0.00022 mg/L	5.913	0.0441 ppm	0.75%
r 267.716	5881.5	0.0642	0.00037 mg/L	12.84	0.073 ppm	0.57%
u 324.754	4660.1	0.0155	0.00049 mg/L	3.104	0.0982 ppm	3.16%
e 273.955	2883151.1	64.17	0.514 mg/L	12830	102.7 ppm	0.80%
766.491	138934.5	6.091	0.0604 mg/L	1218	12.1 ppm	0.99%
g 279.079	529889.3	12.59	0.091 mg/L	2518	18.2 ppm	0.72%
n 257.610	562266.5	0.4224	0.00260 mg/L	84.49	0.520 ppm	0.62%
o 202.030	-1.4	-0.0001	0.00008 mg/L	-0.0149	0.01605 ppm	107.94%
a 330.237	1692.4	2.485	0.2635 mg/L	497.0	52.70 ppm	10.61%
i 231.604	1151.5	0.0231	0.00025 mg/L	4.614	0.0498 ppm	1.08%
b 220.353	96.8	0.0102	0.00095 mg/L	2.042	0.1900 ppm	9.31%
b 206.833	18.7	0.0047	0.00082 mg/L	0.9442	0.16452 ppm	17.43%
e 196.026	-30.7	0.0061	0.00416 mg/L	1.225	0.8322 ppm	67.92%
l 190.800	53.5	-0.0019	0.00090 mg/L	-0.3791	0.18032 ppm	47.57%
292.402	20095.4	0.1529	0.00266 mg/L	30.58	0.532 ppm	1.74%
n 213.856	9112.5	0.0791	0.00020 mg/L	15.81	0.040 ppm	0.25%

eplicate Data

D: 2805-2 F=200 Date: 4/23/03 3:58:18 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-908.5	-837.2	-0.0041	mg/L	-0.8258	ppm
1	Al 308.215	1361062.1	1357014.9	41.96	mg/L	8393	ppm
1	As 188.979	232.0	103.8	0.0354	mg/L	7.090	ppm
1	Ba 233.527	102280.4	102331.1	0.2415	mg/L	48.29	ppm
1	Be 313.107	621.8	840.1	0.0003	mg/L	0.0626	ppm
1	Ca 227.547	6276.5	5665.3	23.07	mg/L	4615	ppm
1	Cd 228.802	172.2	-66.1	-0.0005	mg/L	-0.1024	ppm
1	Co 228.616	4641.7	4945.4	0.0480	mg/L	9.605	ppm
1	Cr 267.716	7768.2	8069.2	0.0881	mg/L	17.62	ppm
1	Cu 324.754	19973.6	16833.2	0.0604	mg/L	12.09	ppm
1	Fe 273.955	4149498.9	4148851.2	92.33	mg/L	18470	ppm
1	K 766.491	204776.6	207399.1	8.903	mg/L	1781	ppm
1	Mg 279.079	1036338.9	1031052.0	24.49	mg/L	4899	ppm
1	Mn 257.610	1407159.2	1406349.7	1.057	mg/L	211.3	ppm
1	Mo 202.030	-33.3	24.4	-0.0017	mg/L	-0.3385	ppm
1	Na 330.237	6120.9	-597.5	-0.8889	mg/L	-177.8	ppm
1	Ni 231.604	2580.8	2661.2	0.0533	mg/L	10.66	ppm
1	Pb 220.353	725.7	900.9	0.0608	mg/L	12.16	ppm
1	Sb 206.833	4.1	15.3	0.0013	mg/L	0.2582	ppm
1	Se 196.026	-5.6	-57.5	0.0046	mg/L	0.9160	ppm
1	Tl 190.800	261.5	55.6	-0.0066	mg/L	-1.314	ppm
1	V 292.402	24191.5	24050.6	0.1830	mg/L	36.60	ppm
1	Zn 213.856	28323.5	28933.0	0.2606	mg/L	52.12	ppm
2	Ag 328.068	-672.0	-600.8	-0.0030	mg/L	-0.5926	ppm
2	Al 308.215	1445035.3	1440988.1	44.56	mg/L	8912	ppm
2	As 188.979	224.5	96.3	0.0328	mg/L	6.561	ppm
2	Ba 233.527	100139.5	100190.3	0.2364	mg/L	47.28	ppm
2	Be 313.107	550.0	768.4	0.0003	mg/L	0.0572	ppm
2	Ca 227.547	6240.9	5629.6	22.93	mg/L	4586	ppm
2	Cd 228.802	200.8	-37.5	-0.0003	mg/L	-0.0581	ppm
2	Co 228.616	4594.1	4897.8	0.0476	mg/L	9.512	ppm
2	Cr 267.716	7534.5	7835.4	0.0855	mg/L	17.11	ppm
2	Cu 324.754	19419.2	16278.8	0.0588	mg/L	11.76	ppm
2	Fe 273.955	4361335.1	4360687.4	97.05	mg/L	19410	ppm
2	K 766.491	223174.0	225796.4	9.642	mg/L	1928	ppm
2	Mg 279.079	1089773.7	1084486.8	25.76	mg/L	5153	ppm
2	Mn 257.610	1472116.8	1471307.3	1.105	mg/L	221.1	ppm
2	Mo 202.030	-48.7	9.0	-0.0027	mg/L	-0.5364	ppm
2	Na 330.237	6110.2	-608.2	-0.9048	mg/L	-181.0	ppm
2	Ni 231.604	2543.2	2623.6	0.0526	mg/L	10.51	ppm
2	Pb 220.353	742.8	918.0	0.0622	mg/L	12.43	ppm
2	Sb 206.833	7.3	18.5	0.0022	mg/L	0.4326	ppm
2	Se 196.026	-9.3	-61.1	0.0036	mg/L	0.7125	ppm

2 Tl 190.800	253.9	48.0	-0.0098 mg/L	-1.953 ppm
2 V 292.402	23393.4	23252.5	0.1769 mg/L	35.38 ppm
2 Zn 213.856	27616.0	28225.5	0.2536 mg/L	50.72 ppm
3 Ag 328.068	-757.3	-686.1	-0.0034 mg/L	-0.6767 ppm
3 Al 308.215	1416246.2	1412198.9	43.67 mg/L	8734 ppm
3 As 188.979	227.3	99.1	0.0338 mg/L	6.756 ppm
3 Ba 233.527	106956.6	107007.4	0.2525 mg/L	50.50 ppm
3 Be 313.107	668.2	886.6	0.0003 mg/L	0.0660 ppm
3 Ca 227.547	6299.9	5688.7	23.17 mg/L	4634 ppm
3 Cd 228.802	181.9	-56.4	-0.0004 mg/L	-0.0874 ppm
3 Co 228.616	4615.9	4919.6	0.0478 mg/L	9.555 ppm
3 Cr 267.716	8064.7	8365.7	0.0913 mg/L	18.27 ppm
3 Cu 324.754	20760.4	17620.0	0.0632 mg/L	12.64 ppm
3 Fe 273.955	4279759.8	4279112.1	95.23 mg/L	19050 ppm
3 K 766.491	217273.3	219895.8	9.405 mg/L	1881 ppm
3 Mg 279.079	1069428.1	1064141.1	25.28 mg/L	5056 ppm
3 Mn 257.610	1443838.2	1443028.7	1.084 mg/L	216.8 ppm
3 Mo 202.030	-47.8	9.9	-0.0026 mg/L	-0.5147 ppm
3 Na 330.237	6014.8	-703.6	-1.045 mg/L	-209.1 ppm
3 Ni 231.604	2578.4	2658.8	0.0533 mg/L	10.65 ppm
3 Pb 220.353	733.6	908.8	0.0615 mg/L	12.30 ppm
3 Sb 206.833	17.7	28.9	0.0046 mg/L	0.9230 ppm
3 Se 196.026	4.7	-47.1	0.0076 mg/L	1.516 ppm
3 Tl 190.800	262.7	56.8	-0.0070 mg/L	-1.392 ppm
3 V 292.402	24919.4	24778.4	0.1885 mg/L	37.71 ppm
3 Zn 213.856	29808.3	30417.8	0.2741 mg/L	54.82 ppm

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

D: 2805-2 F=200 Seq. No.: 82 Sample No.: 1 A/S Pos: 41
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 3:58:18 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-708.0	-0.0035	0.00059	mg/L	-0.6984	0.11810	ppm	16.91%
l 308.215	1403400.6	43.40	1.320	mg/L	8680	263.9	ppm	3.04%
s 188.979	99.7	0.0340	0.00134	mg/L	6.802	0.2674	ppm	3.93%
a 233.527	103176.3	0.2435	0.00823	mg/L	48.69	1.645	ppm	3.38%
e 313.107	831.7	0.0003	0.00002	mg/L	0.0619	0.00444	ppm	7.16%
a 227.547	5661.2	23.06	0.121	mg/L	4611	24.2	ppm	0.53%
d 228.802	-53.3	-0.0004	0.00011	mg/L	-0.0826	0.02254	ppm	27.29%
o 228.616	4920.9	0.0478	0.00023	mg/L	9.557	0.0462	ppm	0.48%
r 267.716	8090.1	0.0883	0.00290	mg/L	17.67	0.580	ppm	3.28%
u 324.754	16910.6	0.0608	0.00221	mg/L	12.16	0.443	ppm	3.64%
e 273.955	4262883.5	94.87	2.378	mg/L	18970	475.6	ppm	2.51%
766.491	217697.1	9.317	0.3774	mg/L	1863	75.5	ppm	4.05%
g 279.079	1059893.3	25.18	0.641	mg/L	5036	128.1	ppm	2.54%
n 257.610	1440228.6	1.082	0.0245	mg/L	216.4	4.89	ppm	2.26%
o 202.030	14.4	-0.0023	0.00054	mg/L	-0.4632	0.10856	ppm	23.44%
a 330.237	-636.4	-0.9464	0.08618	mg/L	-189.3	17.24	ppm	9.11%
i 231.604	2647.9	0.0530	0.00042	mg/L	10.61	0.084	ppm	0.79%
b 220.353	909.2	0.0615	0.00067	mg/L	12.30	0.133	ppm	1.08%
o 206.833	20.9	0.0027	0.00172	mg/L	0.5379	0.34472	ppm	64.08%
e 196.026	-55.2	0.0052	0.00209	mg/L	1.048	0.4178	ppm	39.86%
l 190.800	53.5	-0.0078	0.00174	mg/L	-1.553	0.3488	ppm	22.46%
292.402	24027.2	0.1828	0.00581	mg/L	36.56	1.161	ppm	3.18%
n 213.856	29192.1	0.2628	0.01042	mg/L	52.55	2.085	ppm	3.97%

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

D: 2805-5 F=200 Date: 4/23/03 4:01:54 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-347.4	-276.2	-0.0014	mg/L	-0.2724	ppm
1 Al 308.215	1527515.6	1523468.4	47.11	mg/L	9422	ppm
1 As 188.979	182.9	54.7	0.0176	mg/L	3.528	ppm
1 Ba 233.527	161611.3	161662.1	0.3815	mg/L	76.29	ppm
1 Be 313.107	-866.1	-647.8	-0.0002	mg/L	-0.0482	ppm
1 Ca 227.547	5359.5	4748.2	19.34	mg/L	3868	ppm
1 Cd 228.802	337.5	99.2	0.0008	mg/L	0.1536	ppm

1 Co 228.616	3404.1	3707.8	0.0360 mg/L	7.201 ppm	
1 Cr 267.716	9911.0	10212.0	0.1115 mg/L	22.30 ppm	
1 Cu 324.754	24375.7	21235.3	0.0707 mg/L	14.14 ppm	
1 Fe 273.955	3707475.2	3706827.5	82.50 mg/L	16500 ppm	
1 K 766.491	214830.6	217453.1	9.307 mg/L	1861 ppm	
1 Mg 279.079	701666.3	696379.4	16.54 mg/L	3309 ppm	
1 Mn 257.610	1133447.9	1132638.5	0.8509 mg/L	170.2 ppm	
1 Mo 202.030	-12.1	45.6	0.0025 mg/L	0.4943 ppm	
1 Na 330.237	6169.1	-549.3	-0.8179 mg/L	-163.6 ppm	
1 Ni 231.604	2185.5	2265.9	0.0454 mg/L	9.079 ppm	
1 Pb 220.353	1778.6	1953.8	0.1275 mg/L	25.51 ppm	
1 Sb 206.833	-1.0	10.2	-0.0007 mg/L	-0.1351 ppm	
1 Se 196.026	23.2	-28.7	0.0102 mg/L	2.045 ppm	
1 Tl 190.800	247.3	41.5	-0.0091 mg/L	-1.828 ppm	
1 V 292.402	26102.0	25961.0	0.1975 mg/L	39.51 ppm	
1 Zn 213.856	38817.0	39426.5	0.3588 mg/L	71.76 ppm	
2 Ag 328.068	-577.6	-506.3	-0.0025 mg/L	-0.4994 ppm	
2 Al 308.215	1558647.4	1554600.1	48.07 mg/L	9615 ppm	
2 As 188.979	181.8	53.6	0.0172 mg/L	3.441 ppm	
2 Ba 233.527	159611.9	159662.7	0.3768 mg/L	75.35 ppm	
2 Be 313.107	-963.3	-745.0	-0.0003 mg/L	-0.0555 ppm	
2 Ca 227.547	5312.4	4701.1	19.15 mg/L	3829 ppm	
2 Cd 228.802	315.1	76.8	0.0006 mg/L	0.1189 ppm	
2 Co 228.616	3386.6	3690.3	0.0358 mg/L	7.167 ppm	
2 Cr 267.716	9706.2	10007.2	0.1093 mg/L	21.85 ppm	
2 Cu 324.754	24130.3	20989.9	0.0699 mg/L	13.98 ppm	
2 Fe 273.955	3751440.1	3750792.4	83.48 mg/L	16700 ppm	
2 K 766.491	224000.4	226622.8	9.675 mg/L	1935 ppm	
2 Mg 279.079	711725.5	706438.5	16.78 mg/L	3357 ppm	
2 Mn 257.610	1144916.0	1144106.5	0.8596 mg/L	171.9 ppm	
2 Mo 202.030	-28.9	28.8	0.0016 mg/L	0.3120 ppm	
2 Na 330.237	6100.9	-617.6	-0.9186 mg/L	-183.7 ppm	
2 Ni 231.604	2152.1	2232.4	0.0447 mg/L	8.945 ppm	
2 Pb 220.353	1764.9	1940.1	0.1268 mg/L	25.35 ppm	
2 Sb 206.833	-9.4	1.8	-0.0027 mg/L	-0.5462 ppm	
2 Se 196.026	8.4	-43.5	0.0057 mg/L	1.147 ppm	
2 Tl 190.800	243.0	37.1	-0.0106 mg/L	-2.120 ppm	
2 V 292.402	25704.9	25563.9	0.1945 mg/L	38.90 ppm	
2 Zn 213.856	38373.6	38983.0	0.3546 mg/L	70.92 ppm	
3 Ag 328.068	-767.2	-695.9	-0.0034 mg/L	-0.6864 ppm	
3 Al 308.215	1560168.0	1556120.8	48.12 mg/L	9624 ppm	
3 As 188.979	190.9	62.7	0.0203 mg/L	4.067 ppm	
3 Ba 233.527	160670.3	160721.1	0.3793 mg/L	75.85 ppm	
3 Be 313.107	-908.7	-690.3	-0.0003 mg/L	-0.0514 ppm	
3 Ca 227.547	5357.9	4746.6	19.33 mg/L	3866 ppm	
3 Cd 228.802	324.6	86.3	0.0007 mg/L	0.1337 ppm	
3 Co 228.616	3399.9	3703.5	0.0360 mg/L	7.193 ppm	
3 Cr 267.716	9667.1	9968.0	0.1088 mg/L	21.77 ppm	
3 Cu 324.754	24413.5	21273.1	0.0708 mg/L	14.17 ppm	
3 Fe 273.955	3747569.8	3746922.0	83.39 mg/L	16680 ppm	
3 K 766.491	225447.1	228069.6	9.733 mg/L	1947 ppm	
3 Mg 279.079	712593.4	707306.4	16.80 mg/L	3361 ppm	
3 Mn 257.610	1145488.3	1144678.8	0.8600 mg/L	172.0 ppm	
3 Mo 202.030	-4.1	53.6	0.0029 mg/L	0.5814 ppm	
3 Na 330.237	6011.0	-707.5	-1.051 mg/L	-210.2 ppm	
3 Ni 231.604	2182.5	2262.9	0.0453 mg/L	9.067 ppm	
3 Pb 220.353	1775.6	1950.8	0.1275 mg/L	25.49 ppm	
3 Sb 206.833	15.3	26.5	0.0035 mg/L	0.7013 ppm	
3 Se 196.026	-0.2	-52.1	0.0030 mg/L	0.5943 ppm	
3 Tl 190.800	237.1	31.3	-0.0122 mg/L	-2.434 ppm	
3 V 292.402	25716.1	25575.2	0.1946 mg/L	38.92 ppm	
3 Zn 213.856	39041.5	39651.0	0.3608 mg/L	72.16 ppm	

ean Data

D: 2805-5 F=200 Seq. No.: 83 Sample No.: 1 A/S Pos: 42

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

Data: Original Date: 4/23/03 4:01:54 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD

g 328.068	-492.8	-0.0024	0.00104 mg/L	-0.4861	0.20732 ppm	42.65%
l 308.215	1544729.8	47.77	0.570 mg/L	9554	114.0 ppm	1.19%
s 188.979	57.0	0.0184	0.00170 mg/L	3.679	0.3391 ppm	9.22%
a 233.527	160681.9	0.3792	0.00236 mg/L	75.83	0.472 ppm	0.62%
e 313.107	-694.4	-0.0003	0.00002 mg/L	-0.0517	0.00363 ppm	7.02%
a 227.547	4732.0	19.27	0.109 mg/L	3855	21.8 ppm	0.57%
d 228.802	87.4	0.0007	0.00009 mg/L	0.1354	0.01744 ppm	12.88%
o 228.616	3700.6	0.0359	0.00009 mg/L	7.187	0.0178 ppm	0.25%
r 267.716	10062.4	0.1099	0.00143 mg/L	21.97	0.286 ppm	1.30%
u 324.754	21166.1	0.0705	0.00051 mg/L	14.10	0.102 ppm	0.73%
e 273.955	3734847.3	83.12	0.542 mg/L	16620	108.4 ppm	0.65%
766.491	224048.5	9.572	0.2306 mg/L	1914	46.1 ppm	2.41%
g 279.079	703374.8	16.71	0.144 mg/L	3342	28.9 ppm	0.86%
n 257.610	1140474.6	0.8568	0.00510 mg/L	171.4	1.02 ppm	0.60%
o 202.030	42.6	0.0023	0.00069 mg/L	0.4626	0.13747 ppm	29.72%
a 330.237	-624.8	-0.9292	0.11699 mg/L	-185.8	23.40 ppm	12.59%
i 231.604	2253.7	0.0452	0.00037 mg/L	9.031	0.0742 ppm	0.82%
b 220.353	1948.2	0.1273	0.00042 mg/L	25.45	0.084 ppm	0.33%
b 206.833	12.8	0.0000	0.00318 mg/L	0.0066	0.63571 ppm	>999.9%
e 196.026	-41.4	0.0063	0.00366 mg/L	1.262	0.7322 ppm	58.02%
l 190.800	36.6	-0.0106	0.00152 mg/L	-2.127	0.3032 ppm	14.25%
292.402	25700.1	0.1955	0.00172 mg/L	39.11	0.344 ppm	0.88%
n 213.856	39353.5	0.3581	0.00317 mg/L	71.61	0.633 ppm	0.88%

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

D: 2805-6 F=200 Date: 4/23/03 4:05:31 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-659.2	-587.9	-0.0029	mg/L	-0.5799	ppm
1	Al 308.215	1107275.7	1103228.5	34.12	mg/L	6823	ppm
1	As 188.979	248.5	120.3	0.0417	mg/L	8.341	ppm
1	Ba 233.527	60367.6	60418.3	0.1426	mg/L	28.51	ppm
1	Be 313.107	2152.5	2370.8	0.0009	mg/L	0.1766	ppm
1	Ca 227.547	2772.2	2161.0	8.801	mg/L	1760	ppm
1	Cd 228.802	181.6	-56.7	-0.0004	mg/L	-0.0878	ppm
1	Co 228.616	4142.2	4445.9	0.0432	mg/L	8.635	ppm
1	Cr 267.716	5348.1	5649.0	0.0617	mg/L	12.34	ppm
1	Cu 324.754	28717.1	25576.7	0.0893	mg/L	17.86	ppm
1	Fe 273.955	3904889.0	3904241.2	86.89	mg/L	17380	ppm
1	K 766.491	186627.2	189249.7	8.167	mg/L	1633	ppm
1	Mg 279.079	893410.3	888123.3	21.10	mg/L	4220	ppm
1	Mn 257.610	1365123.8	1364314.3	1.025	mg/L	205.0	ppm
1	Mo 202.030	-49.7	7.9	0.0004	mg/L	0.0860	ppm
1	Na 330.237	7104.2	385.8	0.5606	mg/L	112.1	ppm
1	Ni 231.604	2486.0	2566.4	0.0514	mg/L	10.28	ppm
1	Pb 220.353	437.4	612.5	0.0419	mg/L	8.382	ppm
1	Sb 206.833	-0.0	11.2	0.0028	mg/L	0.5639	ppm
1	Se 196.026	-1.4	-53.2	0.0046	mg/L	0.9160	ppm
1	Tl 190.800	251.0	45.1	-0.0075	mg/L	-1.508	ppm
1	V 292.402	20988.4	20847.5	0.1586	mg/L	31.72	ppm
1	Zn 213.856	27224.2	27833.6	0.2508	mg/L	50.17	ppm
2	Ag 328.068	-686.5	-615.3	-0.0030	mg/L	-0.6069	ppm
2	Al 308.215	1092352.4	1088305.2	33.65	mg/L	6731	ppm
2	As 188.979	260.2	132.0	0.0457	mg/L	9.143	ppm
2	Ba 233.527	63945.3	63996.1	0.1510	mg/L	30.20	ppm
2	Be 313.107	2434.1	2652.4	0.0010	mg/L	0.1975	ppm
2	Ca 227.547	2819.4	2208.1	8.993	mg/L	1799	ppm
2	Cd 228.802	187.8	-50.5	-0.0004	mg/L	-0.0782	ppm
2	Co 228.616	4186.2	4489.9	0.0436	mg/L	8.720	ppm
2	Cr 267.716	5400.3	5701.3	0.0622	mg/L	12.45	ppm
2	Cu 324.754	30082.3	26941.9	0.0938	mg/L	18.75	ppm
2	Fe 273.955	3835463.1	3834815.4	85.35	mg/L	17070	ppm
2	K 766.491	186473.7	189096.2	8.161	mg/L	1632	ppm
2	Mg 279.079	880373.3	875086.4	20.79	mg/L	4158	ppm
2	Mn 257.610	1343796.2	1342986.8	1.009	mg/L	201.8	ppm
2	Mo 202.030	-42.6	15.0	0.0008	mg/L	0.1631	ppm
2	Na 330.237	6771.1	52.7	0.0698	mg/L	13.95	ppm
2	Ni 231.604	2507.0	2587.4	0.0518	mg/L	10.37	ppm
2	Pb 220.353	426.2	601.3	0.0412	mg/L	8.232	ppm

2 Sb 206.833	-0.8	10.4	0.0026 mg/L	0.5239 ppm
2 Se 196.026	0.0	-51.8	0.0046 mg/L	0.9280 ppm
2 Tl 190.800	249.1	43.3	-0.0077 mg/L	-1.541 ppm
2 V 292.402	22219.9	22078.9	0.1680 mg/L	33.60 ppm
2 Zn 213.856	29017.3	29626.8	0.2676 mg/L	53.52 ppm
3 Ag 328.068	-793.4	-722.2	-0.0036 mg/L	-0.7124 ppm
3 Al 308.215	1057159.6	1053112.4	32.57 mg/L	6513 ppm
3 As 188.979	256.0	127.8	0.0443 mg/L	8.856 ppm
3 Ba 233.527	64145.3	64196.0	0.1515 mg/L	30.30 ppm
3 Be 313.107	2450.9	2669.2	0.0010 mg/L	0.1988 ppm
3 Ca 227.547	2798.3	2187.0	8.907 mg/L	1781 ppm
3 Cd 228.802	192.1	-46.2	-0.0004 mg/L	-0.0715 ppm
3 Co 228.616	4157.7	4461.4	0.0433 mg/L	8.665 ppm
3 Cr 267.716	5368.5	5669.5	0.0619 mg/L	12.38 ppm
3 Cu 324.754	29702.9	26562.5	0.0885 mg/L	17.69 ppm
3 Fe 273.955	3716256.5	3715608.8	82.69 mg/L	16540 ppm
3 K 766.491	178947.2	181569.6	7.854 mg/L	1571 ppm
3 Mg 279.079	853700.9	848413.9	20.16 mg/L	4031 ppm
3 Mn 257.610	1301355.1	1300545.6	0.9771 mg/L	195.4 ppm
3 Mo 202.030	-45.8	11.8	0.0006 mg/L	0.1280 ppm
3 Na 330.237	6739.5	21.0	0.0231 mg/L	4.614 ppm
3 Ni 231.604	2460.1	2540.5	0.0509 mg/L	10.18 ppm
3 Pb 220.353	431.7	606.9	0.0414 mg/L	8.280 ppm
3 Sb 206.833	-5.1	6.1	0.0015 mg/L	0.3062 ppm
3 Se 196.026	2.5	-49.3	0.0048 mg/L	0.9567 ppm
3 Tl 190.800	246.0	40.2	-0.0079 mg/L	-1.587 ppm
3 V 292.402	22406.1	22265.2	0.1694 mg/L	33.88 ppm
3 Zn 213.856	29046.0	29655.5	0.2681 mg/L	53.62 ppm

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

D: 2805-6 F=200 Seq. No.: 84 Sample No.: 1 A/S Pos: 43
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 4:05:31 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Sample Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-641.8	-0.0032	0.00035	mg/L	-0.6331	0.06999	ppm	11.06%
l 308.215	1081548.7	33.45	0.796	mg/L	6689	159.1	ppm	2.38%
s 188.979	126.7	0.0439	0.00203	mg/L	8.780	0.4067	ppm	4.63%
a 233.527	62870.1	0.1484	0.00502	mg/L	29.67	1.003	ppm	3.38%
e 313.107	2564.2	0.0010	0.00006	mg/L	0.1910	0.01249	ppm	6.54%
a 227.547	2185.4	8.901	0.0962	mg/L	1780	19.2	ppm	1.08%
d 228.802	-51.1	-0.0004	0.00004	mg/L	-0.0792	0.00821	ppm	10.37%
o 228.616	4465.7	0.0434	0.00022	mg/L	8.673	0.0433	ppm	0.50%
r 267.716	5673.3	0.0619	0.00029	mg/L	12.39	0.058	ppm	0.46%
u 324.754	26360.3	0.0905	0.00286	mg/L	18.10	0.571	ppm	3.16%
e 273.955	3818221.8	84.98	2.123	mg/L	17000	424.7	ppm	2.50%
766.491	186638.5	8.060	0.1792	mg/L	1612	35.8	ppm	2.22%
g 279.079	870541.2	20.68	0.481	mg/L	4136	96.2	ppm	2.33%
n 257.610	1335948.9	1.004	0.0244	mg/L	200.7	4.88	ppm	2.43%
o 202.030	11.6	0.0006	0.00019	mg/L	0.1257	0.03860	ppm	30.71%
a 330.237	153.2	0.2178	0.29779	mg/L	43.56	59.559	ppm	136.72%
i 231.604	2564.7	0.0514	0.00047	mg/L	10.28	0.094	ppm	0.92%
o 220.353	606.9	0.0415	0.00038	mg/L	8.298	0.0765	ppm	0.92%
o 206.833	9.2	0.0023	0.00069	mg/L	0.4647	0.13865	ppm	29.84%
e 196.026	-51.5	0.0047	0.00010	mg/L	0.9336	0.02091	ppm	2.24%
l 190.800	42.9	-0.0077	0.00020	mg/L	-1.545	0.0393	ppm	2.55%
292.402	21730.5	0.1653	0.00586	mg/L	33.07	1.172	ppm	3.55%
n 213.856	29038.6	0.2622	0.00983	mg/L	52.44	1.966	ppm	3.75%

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

D: CCV 1447B Date: 4/23/03 4:09:13 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	196719.8	196791.0	0.9706	mg/L	0.9706	ppm
1 Al 308.215	165016.9	160969.7	4.978	mg/L	4.978	ppm
1 As 188.979	1521.7	1393.5	0.4879	mg/L	0.4879	ppm
1 Ba 233.527	2147181.7	2147232.4	5.067	mg/L	5.067	ppm
1 Be 313.107	1348597.1	1348815.5	0.5023	mg/L	0.5023	ppm

1 Ca 227.547	12947.7	12336.4	50.24 mg/L	50.24 ppm
1 Cd 228.802	131693.5	131455.2	1.018 mg/L	1.018 ppm
1 Co 228.616	210760.5	211064.2	2.050 mg/L	2.050 ppm
1 Cr 267.716	44708.3	45009.3	0.4914 mg/L	0.4914 ppm
1 Cu 324.754	599600.8	596460.4	1.986 mg/L	1.986 ppm
1 Fe 273.955	231040.4	230392.6	5.128 mg/L	5.128 ppm
1 K 766.491	376897.2	379519.7	15.57 mg/L	15.57 ppm
1 Mg 279.079	1078677.7	1073390.8	25.50 mg/L	25.50 ppm
1 Mn 257.610	2814624.7	2813815.2	2.114 mg/L	2.114 ppm
1 Mo 202.030	36583.7	36641.4	1.988 mg/L	1.988 ppm
1 Na 330.237	75042.4	68323.9	97.73 mg/L	97.73 ppm
1 Ni 231.604	102392.2	102472.6	2.053 mg/L	2.053 ppm
1 Pb 220.353	7966.1	8141.2	0.5119 mg/L	0.5119 ppm
1 Sb 206.833	8114.4	8125.6	2.034 mg/L	2.034 ppm
1 Se 196.026	1665.9	1614.0	0.5146 mg/L	0.5146 ppm
1 Tl 190.800	2043.4	1837.6	0.4966 mg/L	0.4966 ppm
1 V 292.402	257117.8	256976.9	1.955 mg/L	1.955 ppm
1 Zn 213.856	216147.5	216757.0	2.011 mg/L	2.011 ppm
2 Ag 328.068	203354.7	203426.0	1.003 mg/L	1.003 ppm
2 Al 308.215	170243.2	166196.0	5.139 mg/L	5.139 ppm
2 As 188.979	1544.2	1416.0	0.4959 mg/L	0.4959 ppm
2 Ba 233.527	2213694.9	2213745.6	5.224 mg/L	5.224 ppm
2 Be 313.107	1389254.3	1389472.6	0.5174 mg/L	0.5174 ppm
2 Ca 227.547	13415.4	12804.1	52.15 mg/L	52.15 ppm
2 Cd 228.802	136080.3	135842.0	1.052 mg/L	1.052 ppm
2 Co 228.616	217270.1	217573.8	2.113 mg/L	2.113 ppm
2 Cr 267.716	46239.8	46540.7	0.5081 mg/L	0.5081 ppm
2 Cu 324.754	621122.8	617982.4	2.058 mg/L	2.058 ppm
2 Fe 273.955	237290.1	236642.3	5.267 mg/L	5.267 ppm
2 K 766.491	378428.6	381051.1	15.63 mg/L	15.63 ppm
2 Mg 279.079	1112140.4	1106853.4	26.30 mg/L	26.30 ppm
2 Mn 257.610	2808923.6	2808114.1	2.110 mg/L	2.110 ppm
2 Mo 202.030	37995.8	38053.4	2.064 mg/L	2.064 ppm
2 Na 330.237	77634.5	70916.1	101.3 mg/L	101.3 ppm
2 Ni 231.604	105666.7	105747.1	2.119 mg/L	2.119 ppm
2 Pb 220.353	8012.6	8187.7	0.5148 mg/L	0.5148 ppm
2 Sb 206.833	8175.0	8186.2	2.048 mg/L	2.048 ppm
2 Se 196.026	1672.8	1620.9	0.5168 mg/L	0.5168 ppm
2 Tl 190.800	2059.6	1853.8	0.5010 mg/L	0.5010 ppm
2 V 292.402	265805.5	265664.6	2.021 mg/L	2.021 ppm
2 Zn 213.856	223072.2	223681.7	2.076 mg/L	2.076 ppm
3 Ag 328.068	203444.9	203516.2	1.004 mg/L	1.004 ppm
3 Al 308.215	171739.5	167692.3	5.186 mg/L	5.186 ppm
3 As 188.979	1563.2	1435.0	0.5025 mg/L	0.5025 ppm
3 Ba 233.527	2220929.1	2220979.8	5.241 mg/L	5.241 ppm
3 Be 313.107	1393741.3	1393959.7	0.5191 mg/L	0.5191 ppm
3 Ca 227.547	13531.4	12920.1	52.62 mg/L	52.62 ppm
3 Cd 228.802	136076.3	135838.0	1.052 mg/L	1.052 ppm
3 Co 228.616	218133.8	218437.5	2.121 mg/L	2.121 ppm
3 Cr 267.716	46426.6	46727.6	0.5102 mg/L	0.5102 ppm
3 Cu 324.754	622929.0	619788.6	2.064 mg/L	2.064 ppm
3 Fe 273.955	237980.6	237332.9	5.282 mg/L	5.282 ppm
3 K 766.491	365997.8	368620.3	15.16 mg/L	15.16 ppm
3 Mg 279.079	1116102.8	1110815.8	26.39 mg/L	26.39 ppm
3 Mn 257.610	2730504.4	2729695.0	2.051 mg/L	2.051 ppm
3 Mo 202.030	38271.1	38328.7	2.079 mg/L	2.079 ppm
3 Na 330.237	77395.4	70677.0	101.0 mg/L	101.0 ppm
3 Ni 231.604	105901.4	105981.8	2.123 mg/L	2.123 ppm
3 Pb 220.353	8129.0	8304.1	0.5222 mg/L	0.5222 ppm
3 Sb 206.833	8287.6	8298.8	2.077 mg/L	2.077 ppm
3 Se 196.026	1698.6	1646.7	0.5251 mg/L	0.5251 ppm
3 Tl 190.800	2081.8	1875.9	0.5070 mg/L	0.5070 ppm
3 V 292.402	266906.2	266765.3	2.030 mg/L	2.030 ppm
3 Zn 213.856	224083.8	224693.3	2.085 mg/L	2.085 ppm

an Data ----------

: CCV 1447B Seq. No.: 85 Sample No.: 1 A/S Pos: 6

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

Data: Original Date: 4/23/03 4:09:13 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	201244.4	0.9925	0.01902	mg/L	0.9925	0.01902	ppm	1.92%
l 308.215	164952.6	5.101	0.1091	mg/L	5.101	0.1091	ppm	2.14%
s 188.979	1414.8	0.4954	0.00731	mg/L	0.4954	0.00731	ppm	1.47%
a 233.527	2193986.0	5.177	0.0959	mg/L	5.177	0.0959	ppm	1.85%
e 313.107	1377415.9	0.5129	0.00926	mg/L	0.5129	0.00926	ppm	1.81%
a 227.547	12686.9	51.67	1.258	mg/L	51.67	1.258	ppm	2.44%
d 228.802	134378.4	1.041	0.0196	mg/L	1.041	0.0196	ppm	1.88%
o 228.616	215691.8	2.095	0.0391	mg/L	2.095	0.0391	ppm	1.87%
r 267.716	46092.6	0.5032	0.01029	mg/L	0.5032	0.01029	ppm	2.05%
u 324.754	611410.5	2.036	0.0432	mg/L	2.036	0.0432	ppm	2.12%
e 273.955	234789.3	5.225	0.0851	mg/L	5.225	0.0851	ppm	1.63%
766.491	376397.0	15.45	0.253	mg/L	15.45	0.253	ppm	1.64%
g 279.079	1097020.0	26.06	0.488	mg/L	26.06	0.488	ppm	1.87%
n 257.610	2783874.8	2.092	0.0353	mg/L	2.092	0.0353	ppm	1.69%
o 202.030	37674.5	2.044	0.0491	mg/L	2.044	0.0491	ppm	2.40%
a 330.237	69972.3	100.0	1.99	mg/L	100.0	1.99	ppm	1.99%
i 231.604	104733.8	2.098	0.0393	mg/L	2.098	0.0393	ppm	1.87%
b 220.353	8211.0	0.5163	0.00528	mg/L	0.5163	0.00528	ppm	1.02%
b 206.833	8203.5	2.053	0.0219	mg/L	2.053	0.0219	ppm	1.07%
e 196.026	1627.2	0.5188	0.00550	mg/L	0.5188	0.00550	ppm	1.06%
l 190.800	1855.8	0.5015	0.00520	mg/L	0.5015	0.00520	ppm	1.04%
292.402	263135.6	2.002	0.0408	mg/L	2.002	0.0408	ppm	2.04%
n 213.856	221710.7	2.057	0.0401	mg/L	2.057	0.0401	ppm	1.95%

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

D: CCB Date: 4/23/03 4:12:44 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	6.5	77.7	0.0004	mg/L	0.0004	ppm
1	Al 308.215	4102.3	55.0	0.0017	mg/L	0.0017	ppm
1	As 188.979	124.8	-3.4	-0.0012	mg/L	-0.0012	ppm
1	Ba 233.527	158.0	208.8	0.0005	mg/L	0.0005	ppm
1	Be 313.107	-234.0	-15.6	0.0000	mg/L	0.0000	ppm
1	Ca 227.547	641.4	30.2	0.1229	mg/L	0.1229	ppm
1	Cd 228.802	204.6	-33.7	-0.0003	mg/L	-0.0003	ppm
1	Co 228.616	-286.2	17.5	0.0002	mg/L	0.0002	ppm
1	Cr 267.716	-331.8	-30.9	-0.0003	mg/L	-0.0003	ppm
1	Cu 324.754	3452.1	311.7	0.0010	mg/L	0.0010	ppm
1	Fe 273.955	3840.2	3192.4	0.0710	mg/L	0.0710	ppm
1	K 766.491	-2622.8	-0.4	0.0461	mg/L	0.0461	ppm
1	Mg 279.079	1245.6	-4041.4	-0.0960	mg/L	-0.0960	ppm
1	Mn 257.610	2978.1	2168.6	0.0016	mg/L	0.0016	ppm
1	Mo 202.030	-41.4	16.2	0.0009	mg/L	0.0009	ppm
1	Na 330.237	6950.6	232.2	0.3343	mg/L	0.3343	ppm
1	Ni 231.604	-94.4	-14.0	-0.0003	mg/L	-0.0003	ppm
1	Pb 220.353	-190.3	-15.2	-0.0010	mg/L	-0.0010	ppm
1	Sb 206.833	7.0	18.2	0.0046	mg/L	0.0046	ppm
1	Se 196.026	59.5	7.6	0.0024	mg/L	0.0024	ppm
1	Tl 190.800	217.5	11.6	0.0031	mg/L	0.0031	ppm
1	V 292.402	147.2	6.3	0.0000	mg/L	0.0000	ppm
1	Zn 213.856	-484.0	125.5	0.0012	mg/L	0.0012	ppm
2	Ag 328.068	99.3	170.5	0.0008	mg/L	0.0008	ppm
2	Al 308.215	4365.2	318.0	0.0098	mg/L	0.0098	ppm
2	As 188.979	124.9	-3.3	-0.0012	mg/L	-0.0012	ppm
2	Ba 233.527	48.3	99.0	0.0002	mg/L	0.0002	ppm
2	Be 313.107	-196.8	21.6	0.0000	mg/L	0.0000	ppm
2	Ca 227.547	649.1	37.8	0.1539	mg/L	0.1539	ppm
2	Cd 228.802	208.7	-29.6	-0.0002	mg/L	-0.0002	ppm
2	Co 228.616	-290.4	13.2	0.0001	mg/L	0.0001	ppm
2	Cr 267.716	-318.6	-17.6	-0.0002	mg/L	-0.0002	ppm
2	Cu 324.754	3496.6	356.2	0.0012	mg/L	0.0012	ppm
2	Fe 273.955	3357.7	2710.0	0.0603	mg/L	0.0603	ppm
2	K 766.491	-2770.1	-147.6	0.0394	mg/L	0.0394	ppm
2	Mg 279.079	1285.1	-4001.9	-0.0951	mg/L	-0.0951	ppm
2	Mn 257.610	2644.2	1834.7	0.0014	mg/L	0.0014	ppm
2	Mo 202.030	-50.7	7.0	0.0004	mg/L	0.0004	ppm
2	Na 330.237	7278.2	559.7	0.8170	mg/L	0.8170	ppm

2 Ni 231.604	-95.1	-14.7	-0.0003 mg/L	-0.0003 ppm
2 Pb 220.353	-166.5	8.7	0.0005 mg/L	0.0005 ppm
2 Sb 206.833	-12.5	-1.3	-0.0003 mg/L	-0.0003 ppm
2 Se 196.026	60.8	9.0	0.0029 mg/L	0.0029 ppm
2 Tl 190.800	209.5	3.7	0.0010 mg/L	0.0010 ppm
2 V 292.402	-49.3	-190.2	-0.0014 mg/L	-0.0014 ppm
2 Zn 213.856	-519.7	89.8	0.0008 mg/L	0.0008 ppm
3 Ag 328.068	-91.4	-20.1	-0.0001 mg/L	-0.0001 ppm
3 Al 308.215	4408.7	361.5	0.0112 mg/L	0.0112 ppm
3 As 188.979	127.7	-0.5	-0.0002 mg/L	-0.0002 ppm
3 Ba 233.527	-15.4	35.4	0.0001 mg/L	0.0001 ppm
3 Be 313.107	-327.2	-108.8	0.0000 mg/L	0.0000 ppm
3 Ca 227.547	646.2	35.0	0.1424 mg/L	0.1424 ppm
3 Cd 228.802	211.0	-27.3	-0.0002 mg/L	-0.0002 ppm
3 Co 228.616	-277.3	26.4	0.0003 mg/L	0.0003 ppm
3 Cr 267.716	-328.0	-27.0	-0.0003 mg/L	-0.0003 ppm
3 Cu 324.754	3374.1	233.7	0.0008 mg/L	0.0008 ppm
3 Fe 273.955	3091.7	2443.9	0.0544 mg/L	0.0544 ppm
3 K 766.491	-2483.7	138.8	0.0524 mg/L	0.0524 ppm
3 Mg 279.079	1244.4	-4042.6	-0.0960 mg/L	-0.0960 ppm
3 Mn 257.610	2435.4	1625.9	0.0012 mg/L	0.0012 ppm
3 Mo 202.030	-38.2	19.5	0.0011 mg/L	0.0011 ppm
3 Na 330.237	6905.7	187.3	0.2681 mg/L	0.2681 ppm
3 Ni 231.604	-88.3	-8.0	-0.0002 mg/L	-0.0002 ppm
3 Pb 220.353	-177.6	-2.5	-0.0002 mg/L	-0.0002 ppm
3 Sb 206.833	-2.6	8.6	0.0022 mg/L	0.0022 ppm
3 Se 196.026	56.1	4.3	0.0014 mg/L	0.0014 ppm
3 Tl 190.800	207.3	1.5	0.0004 mg/L	0.0004 ppm
3 V 292.402	76.3	-64.6	-0.0005 mg/L	-0.0005 ppm
3 Zn 213.856	-525.3	84.1	0.0008 mg/L	0.0008 ppm

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

D: CCB Seq. No.: 86 Sample No.: 1 A/S Pos: 1
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 4:12:44 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	76.0	0.0004	0.00047	mg/L	0.0004	0.00047	ppm	125.39%
l 308.215	244.9	0.0076	0.00513	mg/L	0.0076	0.00513	ppm	67.72%
s 188.979	-2.4	-0.0008	0.00058	mg/L	-0.0008	0.00058	ppm	69.23%
a 233.527	114.4	0.0003	0.00021	mg/L	0.0003	0.00021	ppm	76.67%
e 313.107	-34.3	0.0000	0.00003	mg/L	0.0000	0.00003	ppm	195.83%
a 227.547	34.3	0.1398	0.01568	mg/L	0.1398	0.01568	ppm	11.22%
d 228.802	-30.2	-0.0002	0.00003	mg/L	-0.0002	0.00003	ppm	10.76%
o 228.616	19.0	0.0002	0.00007	mg/L	0.0002	0.00007	ppm	35.34%
r 267.716	-25.2	-0.0003	0.00007	mg/L	-0.0003	0.00007	ppm	27.15%
u 324.754	300.6	0.0010	0.00021	mg/L	0.0010	0.00021	ppm	20.63%
e 273.955	2782.1	0.0619	0.00844	mg/L	0.0619	0.00844	ppm	13.64%
766.491	-3.1	0.0460	0.00649	mg/L	0.0460	0.00649	ppm	14.12%
g 279.079	-4028.6	-0.0957	0.00055	mg/L	-0.0957	0.00055	ppm	0.57%
n 257.610	1876.4	0.0014	0.00021	mg/L	0.0014	0.00021	ppm	14.59%
o 202.030	14.2	0.0008	0.00035	mg/L	0.0008	0.00035	ppm	45.55%
a 330.237	326.4	0.4731	0.29960	mg/L	0.4731	0.29960	ppm	63.32%
i 231.604	-12.2	-0.0002	0.00007	mg/L	-0.0002	0.00007	ppm	30.45%
o 220.353	-3.0	-0.0002	0.00075	mg/L	-0.0002	0.00075	ppm	399.47%
o 206.833	8.5	0.0021	0.00246	mg/L	0.0021	0.00246	ppm	114.80%
e 196.026	7.0	0.0022	0.00077	mg/L	0.0022	0.00077	ppm	34.70%
l 190.800	5.6	0.0015	0.00144	mg/L	0.0015	0.00144	ppm	95.37%
292.402	-82.8	-0.0006	0.00076	mg/L	-0.0006	0.00076	ppm	120.13%
n 213.856	99.8	0.0009	0.00021	mg/L	0.0009	0.00021	ppm	22.45%

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

): 2820-1 F=50 Date: 4/23/03 4:15:57 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-2520.8	-2449.6	-0.0031	mg/L	-0.1554	ppm
1 Al 308.215	6684312.4	6680265.1	206.6	mg/L	10330	ppm
1 As 188.979	392.4	264.2	0.0892	mg/L	4.462	ppm

1	Ba 233.527	760254.9	760305.6	1.794 mg/L	89.70 ppm
1	Be 313.107	-5941.3	-5722.9	-0.0021 mg/L	-0.1066 ppm
1	Ca 227.547	12911.9	12300.6	56.72 mg/L	2836 ppm
1	Cd 228.802	141.7	-96.6	-0.0007 mg/L	-0.0374 ppm
1	Co 228.616	18299.4	18603.1	0.1807 mg/L	9.033 ppm
1	Cr 267.716	31153.9	31454.9	0.3373 mg/L	16.86 ppm
1	Cu 324.754	62759.4	59619.0	0.2146 mg/L	10.73 ppm
1	Fe 273.955	15238765.4	15238117.6	339.1 mg/L	16960 ppm
1	K 766.491	Saturated			
1	Mg 279.079	4281469.8	4276182.8	101.6 mg/L	5079 ppm
1	Mn 257.610	7328273.2	7327463.7	5.505 mg/L	275.3 ppm
1	Mo 202.030	-8.2	49.4	-0.0084 mg/L	-0.4195 ppm
1	Na 330.237	4345.6	-2372.8	-3.510 mg/L	-175.5 ppm
1	Ni 231.604	8104.6	8185.0	0.1640 mg/L	8.199 ppm
1	Pb 220.353	1497.6	1672.8	0.1257 mg/L	6.286 ppm
1	Sb 206.833	-14.1	-2.9	-0.0107 mg/L	-0.5365 ppm
1	Se 196.026	-165.6	-217.4	0.0101 mg/L	0.5030 ppm
1	Tl 190.800	282.7	76.9	-0.0666 mg/L	-3.329 ppm
1	V 292.402	103523.5	103382.6	0.7866 mg/L	39.33 ppm
1	Zn 213.856	94184.7	94794.2	0.8506 mg/L	42.53 ppm

alibration Summary

ethod: 23ME ICP-M Date: 4/23/03 4:18:04 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
. 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
. 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
a 213.856	3	Linear-thru-Zero	0.0	107770.3	0.00000	0.999875

eplicate Data

): 2820-1 F=200 Date: 4/23/03 4:19:28 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-961.0	-889.7	-0.0044	mg/L	-0.8776	ppm
1	Al 308.215	1728339.9	1724292.7	53.32	mg/L	10660	ppm
1	As 188.979	203.3	75.1	0.0246	mg/L	4.913	ppm
1	Ba 233.527	196901.7	196952.5	0.4647	mg/L	92.95	ppm
1	Be 313.107	-1981.3	-1762.9	-0.0007	mg/L	-0.1313	ppm
1	Ca 227.547	3842.1	3230.9	13.16	mg/L	2632	ppm
1	Cd 228.802	189.5	-48.8	-0.0004	mg/L	-0.0756	ppm
1	Co 228.616	4672.8	4976.5	0.0483	mg/L	9.665	ppm
1	Cr 267.716	7819.7	8120.6	0.0887	mg/L	17.73	ppm
1	Cu 324.754	18787.8	15647.4	0.0566	mg/L	11.32	ppm
1	Fe 273.955	4237735.9	4237088.2	94.30	mg/L	18860	ppm
1	K 766.491	338582.4	341204.8	14.13	mg/L	2826	ppm
1	Mg 279.079	1108855.6	1103568.6	26.22	mg/L	5243	ppm
1	Mn 257.610	1926765.4	1925955.9	1.447	mg/L	289.4	ppm
1	Mo 202.030	-62.7	-5.1	-0.0034	mg/L	-0.6708	ppm

1 Na 330.237	6104.4	-614.1	-0.9134	mg/L	-182.7 ppm
1 Ni 231.604	2103.8	2184.2	0.0438	mg/L	8.752 ppm
1 Pb 220.353	273.2	448.3	0.0335	mg/L	6.698 ppm
1 Sb 206.833	-4.8	6.4	-0.0010	mg/L	-0.1926 ppm
1 Se 196.026	13.6	-38.3	0.0099	mg/L	1.988 ppm
1 Tl 190.800	243.9	38.1	-0.0129	mg/L	-2.582 ppm
1 V 292.402	26774.0	26633.1	0.2026	mg/L	40.53 ppm
1 Zn 213.856	24744.2	25353.6	0.2272	mg/L	45.44 ppm
2 Ag 328.068	-782.0	-710.7	-0.0035	mg/L	-0.7011 ppm
2 Al 308.215	1739303.6	1735256.4	53.66	mg/L	10730 ppm
2 As 188.979	207.4	79.2	0.0259	mg/L	5.178 ppm
2 Ba 233.527	196442.8	196493.6	0.4637	mg/L	92.73 ppm
2 Be 313.107	-1811.6	-1593.3	-0.0006	mg/L	-0.1187 ppm
2 Ca 227.547	3823.1	3211.8	13.08	mg/L	2616 ppm
2 Cd 228.802	184.9	-53.4	-0.0004	mg/L	-0.0827 ppm
2 Co 228.616	4658.8	4962.4	0.0482	mg/L	9.638 ppm
2 Cr 267.716	7756.2	8057.2	0.0880	mg/L	17.59 ppm
2 Cu 324.754	18429.5	15289.1	0.0553	mg/L	11.06 ppm
2 Fe 273.955	4146433.2	4145785.5	92.27	mg/L	18450 ppm
2 K 766.491	334351.3	336973.7	13.97	mg/L	2794 ppm
2 Mg 279.079	1107252.6	1101965.6	26.18	mg/L	5236 ppm
2 Mn 257.610	1914809.1	1913999.7	1.438	mg/L	287.6 ppm
2 Mo 202.030	-48.6	9.0	-0.0025	mg/L	-0.5045 ppm
2 Na 330.237	6110.3	-608.1	-0.9046	mg/L	-180.9 ppm
2 Ni 231.604	2105.7	2186.1	0.0438	mg/L	8.760 ppm
2 Pb 220.353	257.3	432.4	0.0325	mg/L	6.505 ppm
2 Sb 206.833	-11.1	0.1	-0.0025	mg/L	-0.5063 ppm
2 Se 196.026	5.7	-46.2	0.0069	mg/L	1.385 ppm
2 Tl 190.800	237.0	31.2	-0.0144	mg/L	-2.887 ppm
2 V 292.402	26547.9	26407.0	0.2009	mg/L	40.18 ppm
2 Zn 213.856	24658.2	25267.7	0.2266	mg/L	45.32 ppm
3 Ag 328.068	-554.9	-483.6	-0.0024	mg/L	-0.4770 ppm
3 Al 308.215	1769710.7	1765663.4	54.60	mg/L	10920 ppm
3 As 188.979	214.1	85.9	0.0282	mg/L	5.631 ppm
3 Ba 233.527	199899.8	199950.6	0.4718	mg/L	94.36 ppm
3 Be 313.107	-2060.4	-1842.0	-0.0007	mg/L	-0.1372 ppm
3 Ca 227.547	3833.3	3222.1	13.12	mg/L	2625 ppm
3 Cd 228.802	218.9	-19.4	-0.0002	mg/L	-0.0301 ppm
3 Co 228.616	4650.9	4954.6	0.0481	mg/L	9.623 ppm
3 Cr 267.716	8014.3	8315.3	0.0908	mg/L	18.16 ppm
3 Cu 324.754	18419.2	15278.8	0.0553	mg/L	11.06 ppm
3 Fe 273.955	4192321.5	4191673.7	93.29	mg/L	18660 ppm
3 K 766.491	342569.1	345191.6	14.28	mg/L	2857 ppm
3 Mg 279.079	1121966.1	1116679.2	26.53	mg/L	5306 ppm
3 Mn 257.610	1946008.5	1945199.1	1.461	mg/L	292.3 ppm
3 Mo 202.030	-55.8	1.8	-0.0029	mg/L	-0.5895 ppm
3 Na 330.237	5945.4	-773.0	-1.148	mg/L	-229.6 ppm
3 Ni 231.604	2091.6	2172.0	0.0435	mg/L	8.703 ppm
3 Pb 220.353	262.7	437.9	0.0330	mg/L	6.592 ppm
3 Sb 206.833	-0.7	10.5	0.0000	mg/L	-0.0007 ppm
3 Se 196.026	-1.3	-53.2	0.0049	mg/L	0.9857 ppm
3 Tl 190.800	250.5	44.6	-0.0111	mg/L	-2.218 ppm
3 V 292.402	27185.9	27045.0	0.2058	mg/L	41.15 ppm
3 Zn 213.856	25011.6	25621.1	0.2298	mg/L	45.95 ppm

an Data ----------

): 2820-1 F=200 Seq. No.: 88 Sample No.: 1 A/S Pos: 55
mple Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 4:19:28 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
328.068	-694.7	-0.0034	0.00100	mg/L	-0.6852	0.20076	ppm	29.30%
308.215	1741737.5	53.86	0.663	mg/L	10770	132.6	ppm	1.23%
188.979	80.1	0.0262	0.00181	mg/L	5.241	0.3629	ppm	6.92%
233.527	197798.9	0.4667	0.00443	mg/L	93.35	0.886	ppm	0.95%
313.107	-1732.8	-0.0006	0.00005	mg/L	-0.1291	0.00947	ppm	7.33%
227.547	3221.6	13.12	0.039	mg/L	2624	7.8	ppm	0.30%
228.802	-40.6	-0.0003	0.00014	mg/L	-0.0628	0.02857	ppm	45.48%
228.616	4964.5	0.0482	0.00011	mg/L	9.642	0.0216	ppm	0.22%

r 267.716	8164.4	0.0891	0.00147 mg/L	17.83	0.294 ppm	1.65%
u 324.754	15405.1	0.0557	0.00074 mg/L	11.14	0.148 ppm	1.33%
e 273.955	4191515.8	93.28	1.016 mg/L	18660	203.2 ppm	1.09%
. 766.491	341123.4	14.13	0.156 mg/L	2826	31.1 ppm	1.10%
g 279.079	1107404.5	26.31	0.192 mg/L	5262	38.4 ppm	0.73%
n 257.610	1928384.9	1.449	0.0118 mg/L	289.8	2.37 ppm	0.82%
o 202.030	1.9	-0.0029	0.00042 mg/L	-0.5883	0.08316 ppm	14.14%
a 330.237	-665.1	-0.9886	0.13794 mg/L	-197.7	27.59 ppm	13.95%
i 231.604	2180.7	0.0437	0.00015 mg/L	8.738	0.0308 ppm	0.35%
b 220.353	439.5	0.0330	0.00048 mg/L	6.599	0.0965 ppm	1.46%
b 206.833	5.7	-0.0012	0.00128 mg/L	-0.2332	0.25523 ppm	109.46%
e 196.026	-45.9	0.0073	0.00252 mg/L	1.453	0.5048 ppm	34.74%
l 190.800	38.0	-0.0128	0.00168 mg/L	-2.562	0.3351 ppm	13.08%
292.402	26695.0	0.2031	0.00246 mg/L	40.62	0.492 ppm	1.21%
n 213.856	25414.2	0.2278	0.00169 mg/L	45.57	0.338 ppm	0.74%

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

D: 2820-2 F=50 Date: 4/23/03 4:22:48 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-2287.0	-2215.8	-0.0025	mg/L	-0.1227	ppm
1	Al 308.215	4382045.9	4377998.7	135.4	mg/L	6769	ppm
1	As 188.979	553.3	425.1	0.1497	mg/L	7.486	ppm
1	Ba 233.527	340847.5	340898.2	0.8044	mg/L	40.22	ppm
1	Be 313.107	2542.8	2761.2	0.0010	mg/L	0.0514	ppm
1	Ca 227.547	9131.1	8519.8	40.96	mg/L	2048	ppm
1	Cd 228.802	223.7	-14.6	-0.0001	mg/L	-0.0057	ppm
1	Co 228.616	14754.0	15057.7	0.1462	mg/L	7.311	ppm
1	Cr 267.716	25068.8	25369.8	0.2712	mg/L	13.56	ppm
1	Cu 324.754	56997.8	53857.4	0.1945	mg/L	9.727	ppm
1	Fe 273.955	14391164.1	14390516.3	320.3	mg/L	16010	ppm
1	K 766.491	Saturated					
1	Mg 279.079	3564591.4	3559304.5	84.56	mg/L	4228	ppm
1	Mn 257.610	6118423.4	6117613.9	4.596	mg/L	229.8	ppm
1	Mo 202.030	56.3	113.9	-0.0043	mg/L	-0.2138	ppm
1	Na 330.237	3926.2	-2792.2	-4.129	mg/L	-206.5	ppm
1	Ni 231.604	8265.5	8345.9	0.1672	mg/L	8.360	ppm
1	Pb 220.353	2044.6	2219.8	0.1530	mg/L	7.652	ppm
1	Sb 206.833	21.9	33.1	0.0003	mg/L	0.0135	ppm
1	Se 196.026	-197.6	-249.4	-0.0032	mg/L	-0.1577	ppm
1	Tl 190.800	269.7	63.9	-0.0585	mg/L	-2.923	ppm
1	V 292.402	101735.6	101594.7	0.7730	mg/L	38.65	ppm
1	Zn 213.856	97380.5	97989.9	0.8819	mg/L	44.09	ppm

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

ethod: 23ME ICP-M Date: 4/23/03 4:24:35 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
; 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
a 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
a 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
. 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: 2820-2 F=200 Date: 4/23/03 4:25:59 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-864.1	-792.8	-0.0039	mg/L	-0.7820	ppm
1	Al 308.215	1117869.0	1113821.8	34.44	mg/L	6889	ppm
1	As 188.979	237.3	109.1	0.0377	mg/L	7.547	ppm
1	Ba 233.527	89522.0	89572.7	0.2114	mg/L	42.27	ppm
1	Be 313.107	205.6	423.9	0.0002	mg/L	0.0316	ppm
1	Ca 227.547	2846.9	2235.7	9.106	mg/L	1821	ppm
1	Cd 228.802	197.5	-40.8	-0.0003	mg/L	-0.0632	ppm
1	Co 228.616	3687.7	3991.3	0.0388	mg/L	7.752	ppm
1	Cr 267.716	6332.5	6633.5	0.0724	mg/L	14.48	ppm
1	Cu 324.754	17012.1	13871.7	0.0503	mg/L	10.05	ppm
1	Fe 273.955	3857444.0	3856796.3	85.84	mg/L	17170	ppm
1	K 766.491	196295.5	198917.9	8.560	mg/L	1712	ppm
1	Mg 279.079	922010.4	916723.5	21.78	mg/L	4356	ppm
1	Mn 257.610	1586454.0	1585644.5	1.191	mg/L	238.3	ppm
1	Mo 202.030	-35.5	22.1	0.0012	mg/L	0.2398	ppm
1	Na 330.237	6063.5	-654.9	-0.9737	mg/L	-194.7	ppm
1	Ni 231.604	2094.1	2174.5	0.0436	mg/L	8.713	ppm
1	Pb 220.353	423.1	598.2	0.0410	mg/L	8.208	ppm
1	Sb 206.833	15.0	26.2	0.0045	mg/L	0.9000	ppm
1	Se 196.026	-3.3	-55.2	0.0037	mg/L	0.7402	ppm
1	Tl 190.800	248.3	42.5	-0.0081	mg/L	-1.619	ppm
1	V 292.402	26585.0	26444.1	0.2012	mg/L	40.24	ppm
1	Zn 213.856	25051.9	25661.4	0.2308	mg/L	46.16	ppm
2	Ag 328.068	-828.1	-756.9	-0.0037	mg/L	-0.7466	ppm
2	Al 308.215	1155499.6	1151452.4	35.61	mg/L	7121	ppm
2	As 188.979	225.3	97.2	0.0336	mg/L	6.716	ppm
2	Ba 233.527	88243.8	88294.6	0.2083	mg/L	41.67	ppm
2	Be 313.107	151.6	370.0	0.0001	mg/L	0.0276	ppm
2	Ca 227.547	2842.4	2231.2	9.087	mg/L	1817	ppm
2	Cd 228.802	182.3	-56.0	-0.0004	mg/L	-0.0868	ppm
2	Co 228.616	3665.1	3968.8	0.0385	mg/L	7.708	ppm
2	Cr 267.716	6351.7	6652.7	0.0726	mg/L	14.53	ppm
2	Cu 324.754	16156.9	13016.5	0.0475	mg/L	9.504	ppm
2	Fe 273.955	3954714.6	3954066.9	88.00	mg/L	17600	ppm
2	K 766.491	205882.7	208505.1	8.947	mg/L	1789	ppm
2	Mg 279.079	947555.0	942268.0	22.39	mg/L	4477	ppm
2	Mn 257.610	1619689.6	1618880.1	1.216	mg/L	243.3	ppm
2	Mo 202.030	-32.0	25.6	0.0014	mg/L	0.2782	ppm
2	Na 330.237	6103.8	-614.6	-0.9142	mg/L	-182.8	ppm
2	Ni 231.604	2099.5	2179.9	0.0437	mg/L	8.735	ppm
2	Pb 220.353	439.0	614.2	0.0422	mg/L	8.432	ppm
2	Sb 206.833	1.2	12.4	0.0010	mg/L	0.2020	ppm
2	Se 196.026	-0.2	-52.1	0.0052	mg/L	1.043	ppm
2	Tl 190.800	242.3	36.5	-0.0102	mg/L	-2.049	ppm
2	V 292.402	26319.1	26178.2	0.1992	mg/L	39.84	ppm
2	Zn 213.856	24677.6	25287.1	0.2271	mg/L	45.42	ppm
3	Ag 328.068	-786.3	-715.1	-0.0035	mg/L	-0.7054	ppm
3	Al 308.215	1154702.4	1150655.1	35.58	mg/L	7116	ppm
3	As 188.979	230.8	102.6	0.0355	mg/L	7.095	ppm
3	Ba 233.527	91139.7	91190.5	0.2152	mg/L	43.04	ppm
3	Be 313.107	156.2	374.5	0.0001	mg/L	0.0279	ppm
3	Ca 227.547	2857.4	2246.2	9.148	mg/L	1830	ppm
3	Cd 228.802	205.6	-32.7	-0.0003	mg/L	-0.0507	ppm
3	Co 228.616	3648.0	3951.7	0.0384	mg/L	7.675	ppm
3	Cr 267.716	6319.8	6620.7	0.0723	mg/L	14.46	ppm
3	Cu 324.754	16448.9	13308.5	0.0485	mg/L	9.697	ppm
3	Fe 273.955	3949025.7	3948377.9	87.87	mg/L	17570	ppm
3	K 766.491	207080.9	209703.3	8.996	mg/L	1799	ppm
3	Mg 279.079	946378.1	941091.1	22.36	mg/L	4471	ppm
3	Mn 257.610	1621021.8	1620212.4	1.217	mg/L	243.5	ppm

3 Mo 202.030	-32.2	25.5	0.0014 mg/L	0.2763 ppm
3 Na 330.237	6156.4	-562.1	-0.8367 mg/L	-167.3 ppm
3 Ni 231.604	2070.9	2151.3	0.0431 mg/L	8.620 ppm
3 Pb 220.353	433.4	608.6	0.0418 mg/L	8.361 ppm
3 Sb 206.833	9.2	20.4	0.0030 mg/L	0.6072 ppm
3 Se 196.026	-3.2	-55.0	0.0043 mg/L	0.8505 ppm
3 Tl 190.800	258.2	52.3	-0.0059 mg/L	-1.186 ppm
3 V 292.402	27075.3	26934.4	0.2049 mg/L	40.99 ppm
3 Zn 213.856	25501.5	26111.0	0.2348 mg/L	46.96 ppm

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

D: 2820-2 F=200 Seq. No.: 90 Sample No.: 1 A/S Pos: 56
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 4:25:59 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-754.9	-0.0037	0.00019	mg/L	-0.7446	0.03837	ppm	5.15%
l 308.215	1138643.1	35.21	0.665	mg/L	7042	133.0	ppm	1.89%
s 188.979	103.0	0.0356	0.00208	mg/L	7.119	0.4157	ppm	5.84%
a 233.527	89685.9	0.2116	0.00342	mg/L	42.33	0.685	ppm	1.62%
e 313.107	389.5	0.0001	0.00001	mg/L	0.0290	0.00223	ppm	7.68%
a 227.547	2237.7	9.114	0.0313	mg/L	1823	6.3	ppm	0.34%
d 228.802	-43.2	-0.0003	0.00009	mg/L	-0.0669	0.01834	ppm	27.41%
o 228.616	3970.6	0.0386	0.00019	mg/L	7.712	0.0386	ppm	0.50%
r 267.716	6635.6	0.0724	0.00018	mg/L	14.49	0.035	ppm	0.24%
u 324.754	13398.9	0.0488	0.00139	mg/L	9.751	0.2785	ppm	2.86%
e 273.955	3919747.0	87.24	1.215	mg/L	17450	243.0	ppm	1.39%
766.491	205708.8	8.834	0.2389	mg/L	1767	47.8	ppm	2.70%
g 279.079	933360.9	22.17	0.343	mg/L	4435	68.5	ppm	1.55%
n 257.610	1608245.7	1.208	0.0147	mg/L	241.7	2.94	ppm	1.22%
o 202.030	24.4	0.0013	0.00011	mg/L	0.2648	0.02166	ppm	8.18%
a 330.237	-610.5	-0.9082	0.06867	mg/L	-181.6	13.73	ppm	7.56%
i 231.604	2168.6	0.0434	0.00030	mg/L	8.689	0.0608	ppm	0.70%
o 220.353	607.0	0.0417	0.00057	mg/L	8.334	0.1142	ppm	1.37%
o 206.833	19.7	0.0028	0.00175	mg/L	0.5697	0.35051	ppm	61.52%
e 196.026	-54.1	0.0044	0.00077	mg/L	0.8780	0.15336	ppm	17.47%
l 190.800	43.8	-0.0081	0.00216	mg/L	-1.618	0.4311	ppm	26.65%
292.402	26518.9	0.2018	0.00292	mg/L	40.35	0.584	ppm	1.45%
n 213.856	25686.5	0.2309	0.00383	mg/L	46.18	0.766	ppm	1.66%

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

D: CCV 1447B Date: 4/23/03 4:29:40 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	195449.8	195521.1	0.9643	mg/L		
1 Al 308.215	164120.1	160072.9	4.950	mg/L		
1 As 188.979	1539.5	1411.3	0.4941	mg/L		
1 Ba 233.527	2139692.6	2139743.4	5.049	mg/L		
1 Be 313.107	1367727.7	1367946.1	0.5094	mg/L		
1 Ca 227.547	12939.2	12327.9	50.21	mg/L		
1 Cd 228.802	131785.2	131546.9	1.019	mg/L		
1 Co 228.616	210685.7	210989.4	2.049	mg/L		
1 Cr 267.716	44482.3	44783.3	0.4889	mg/L		
1 Cu 324.754	598570.6	595430.2	1.983	mg/L		
1 Fe 273.955	230213.8	229566.1	5.109	mg/L		
1 K 766.491	369034.2	371656.7	15.28	mg/L		
1 Mg 279.079	1075567.1	1070280.1	25.43	mg/L		
1 Mn 257.610	2762877.6	2762068.2	2.075	mg/L		
1 Mo 202.030	36398.6	36456.3	1.978	mg/L		
1 Na 330.237	74437.0	67718.6	96.89	mg/L		
1 Ni 231.604	102567.2	102647.6	2.057	mg/L		
1 Pb 220.353	7975.9	8151.0	0.5125	mg/L		
1 Sb 206.833	8193.0	8204.2	2.053	mg/L		
1 Se 196.026	1667.5	1615.7	0.5151	mg/L		
1 Tl 190.800	2048.1	1842.3	0.4979	mg/L		
1 V 292.402	255382.7	255241.8	1.942	mg/L		
1 Zn 213.856	215096.5	215706.0	2.002	mg/L		
2 Ag 328.068	195332.3	195403.6	0.9637	mg/L		

2 Al 308.215	163751.9	159704.6	4.939	mg/L
2 As 188.979	1554.0	1425.8	0.4991	mg/L
2 Ba 233.527	2133090.3	2133141.1	5.034	mg/L
2 Be 313.107	1331048.7	1331267.0	0.4958	mg/L
2 Ca 227.547	12947.7	12336.4	50.24	mg/L
2 Cd 228.802	131624.9	131386.6	1.018	mg/L
2 Co 228.616	210218.2	210521.9	2.044	mg/L
2 Cr 267.716	44474.5	44775.5	0.4889	mg/L
2 Cu 324.754	599400.4	596260.0	1.986	mg/L
2 Fe 273.955	228628.2	227980.5	5.074	mg/L
2 K 766.491	358571.1	361193.6	14.89	mg/L
2 Mg 279.079	1072898.8	1067611.9	25.36	mg/L
2 Mn 257.610	2692961.7	2692152.3	2.023	mg/L
2 Mo 202.030	36542.0	36599.7	1.986	mg/L
2 Na 330.237	74116.2	67397.8	96.44	mg/L
2 Ni 231.604	102522.5	102602.9	2.056	mg/L
2 Pb 220.353	8072.8	8248.0	0.5186	mg/L
2 Sb 206.833	8263.9	8275.1	2.071	mg/L
2 Se 196.026	1688.9	1637.0	0.5219	mg/L
2 Tl 190.800	2078.6	1872.7	0.5061	mg/L
2 V 292.402	255386.7	255245.7	1.942	mg/L
2 Zn 213.856	215050.8	215660.2	2.001	mg/L
3 Ag 328.068	195132.6	195203.9	0.9627	mg/L
3 Al 308.215	163876.1	159828.9	4.942	mg/L
3 As 188.979	1557.6	1429.4	0.5003	mg/L
3 Ba 233.527	2131089.1	2131139.8	5.029	mg/L
3 Be 313.107	1379806.9	1380025.2	0.5139	mg/L
3 Ca 227.547	12972.1	12360.8	50.34	mg/L
3 Cd 228.802	131597.3	131359.0	1.017	mg/L
3 Co 228.616	210321.9	210625.6	2.045	mg/L
3 Cr 267.716	44360.5	44661.5	0.4876	mg/L
3 Cu 324.754	599033.2	595892.8	1.984	mg/L
3 Fe 273.955	228167.6	227519.8	5.064	mg/L
3 K 766.491	375478.6	378101.0	15.52	mg/L
3 Mg 279.079	1072440.6	1067153.6	25.35	mg/L
3 Mn 257.610	2788374.6	2787565.1	2.094	mg/L
3 Mo 202.030	36474.0	36531.6	1.982	mg/L
3 Na 330.237	74386.1	67667.7	96.82	mg/L
3 Ni 231.604	102326.0	102406.4	2.052	mg/L
3 Pb 220.353	8111.9	8287.1	0.5211	mg/L
3 Sb 206.833	8346.5	8357.7	2.092	mg/L
3 Se 196.026	1706.6	1654.8	0.5276	mg/L
3 Tl 190.800	2097.7	1891.8	0.5112	mg/L
3 V 292.402	255263.1	255122.2	1.941	mg/L
3 Zn 213.856	215474.8	216084.3	2.005	mg/L

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

D: CCV 1447B Seq. No.: 91 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 4:29:40 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	195376.2	0.9636	0.00079	mg/L				0.08%
l 308.215	159868.8	4.944	0.0058	mg/L				0.12%
s 188.979	1422.2	0.4978	0.00332	mg/L				0.67%
a 233.527	2134674.8	5.037	0.0106	mg/L				0.21%
e 313.107	1359746.1	0.5064	0.00946	mg/L				1.87%
a 227.547	12341.7	50.27	0.070	mg/L				0.14%
d 228.802	131430.8	1.018	0.0008	mg/L				0.08%
o 228.616	210712.3	2.046	0.0024	mg/L				0.12%
r 267.716	44740.1	0.4885	0.00074	mg/L				0.15%
u 324.754	595861.0	1.984	0.0014	mg/L				0.07%
e 273.955	228355.5	5.082	0.0239	mg/L				0.47%
766.491	370317.1	15.23	0.319	mg/L				2.10%
g 279.079	1068348.5	25.38	0.040	mg/L				0.16%
n 257.610	2747261.8	2.064	0.0371	mg/L				1.80%
o 202.030	36529.2	1.982	0.0039	mg/L				0.20%
a 330.237	67594.7	96.72	0.240	mg/L				0.25%
. 231.604	102552.3	2.055	0.0026	mg/L				0.13%
o 220.353	8228.7	0.5174	0.00441	mg/L				0.85%

b 206.833	8279.0	2.072	0.0194 mg/L	0.94%
e 196.026	1635.8	0.5215	0.00622 mg/L	1.19%
l 190.800	1868.9	0.5051	0.00675 mg/L	1.34%
292.402	255203.2	1.942	0.0005 mg/L	0.03%
n 213.856	215816.8	2.003	0.0022 mg/L	0.11%

eplicate Data

D: CCB Date: 4/23/03 4:33:12 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	44.7	115.9	0.0006	mg/L		
1	Al 308.215	4311.8	264.6	0.0082	mg/L		
1	As 188.979	127.6	-0.6	-0.0002	mg/L		
1	Ba 233.527	290.9	341.7	0.0008	mg/L		
1	Be 313.107	-63.9	154.5	0.0001	mg/L		
1	Ca 227.547	646.1	34.9	0.1419	mg/L		
1	Cd 228.802	216.8	-21.5	-0.0002	mg/L		
1	Co 228.616	-255.6	48.0	0.0005	mg/L		
1	Cr 267.716	-324.9	-23.9	-0.0003	mg/L		
1	Cu 324.754	3561.9	421.5	0.0014	mg/L		
1	Fe 273.955	3845.1	3197.3	0.0712	mg/L		
1	K 766.491	-2130.9	491.6	0.0684	mg/L		
1	Mg 279.079	1447.8	-3839.2	-0.0912	mg/L		
1	Mn 257.610	3366.5	2557.0	0.0019	mg/L		
1	Mo 202.030	-45.6	12.0	0.0007	mg/L		
1	Na 330.237	7007.1	288.7	0.4176	mg/L		
1	Ni 231.604	-93.6	-13.2	-0.0003	mg/L		
1	Pb 220.353	-175.6	-0.4	0.0000	mg/L		
1	Sb 206.833	-9.9	1.3	0.0003	mg/L		
1	Se 196.026	60.4	8.5	0.0027	mg/L		
1	Tl 190.800	214.1	8.3	0.0022	mg/L		
1	V 292.402	201.8	60.9	0.0005	mg/L		
1	Zn 213.856	-482.7	126.8	0.0012	mg/L		
2	Ag 328.068	93.7	164.9	0.0008	mg/L		
2	Al 308.215	4403.2	356.0	0.0110	mg/L		
2	As 188.979	130.5	2.3	0.0008	mg/L		
2	Ba 233.527	182.1	232.8	0.0005	mg/L		
2	Be 313.107	-238.2	-19.8	0.0000	mg/L		
2	Ca 227.547	620.2	8.9	0.0363	mg/L		
2	Cd 228.802	215.6	-22.7	-0.0002	mg/L		
2	Co 228.616	-266.5	37.2	0.0004	mg/L		
2	Cr 267.716	-331.8	-30.9	-0.0003	mg/L		
2	Cu 324.754	3399.8	259.4	0.0009	mg/L		
2	Fe 273.955	3544.4	2896.6	0.0645	mg/L		
2	K 766.491	-2162.1	460.3	0.0670	mg/L		
2	Mg 279.079	1289.6	-3997.4	-0.0950	mg/L		
2	Mn 257.610	3130.0	2320.5	0.0017	mg/L		
2	Mo 202.030	-47.0	10.7	0.0006	mg/L		
2	Na 330.237	6878.4	160.0	0.2279	mg/L		
2	Ni 231.604	-108.7	-28.3	-0.0006	mg/L		
2	Pb 220.353	-186.7	-11.6	-0.0007	mg/L		
2	Sb 206.833	5.7	16.9	0.0042	mg/L		
2	Se 196.026	69.1	17.2	0.0055	mg/L		
2	Tl 190.800	211.4	5.5	0.0015	mg/L		
2	V 292.402	221.5	80.6	0.0006	mg/L		
2	Zn 213.856	-508.8	100.7	0.0009	mg/L		
3	Ag 328.068	-80.9	-9.6	0.0000	mg/L		
3	Al 308.215	4410.5	363.2	0.0112	mg/L		
3	As 188.979	130.8	2.6	0.0009	mg/L		
3	Ba 233.527	85.6	136.4	0.0003	mg/L		
3	Be 313.107	-131.5	86.9	0.0000	mg/L		
3	Ca 227.547	631.0	19.8	0.0806	mg/L		
3	Cd 228.802	212.0	-26.3	-0.0002	mg/L		
3	Co 228.616	-283.2	20.5	0.0002	mg/L		
3	Cr 267.716	-319.5	-18.6	-0.0002	mg/L		
3	Cu 324.754	3325.5	185.1	0.0006	mg/L		
3	Fe 273.955	3091.8	2444.1	0.0544	mg/L		
3	K 766.491	-2334.1	288.4	0.0592	mg/L		

3	Mg 279.079	1327.1	-3959.8	-0.0941 mg/L
3	Mn 257.610	2794.6	1985.1	0.0015 mg/L
3	Mo 202.030	-51.5	6.1	0.0003 mg/L
3	Na 330.237	6880.7	162.2	0.2312 mg/L
3	Ni 231.604	-69.2	11.2	0.0002 mg/L
3	Pb 220.353	-166.3	8.8	0.0006 mg/L
3	Sb 206.833	-15.2	-4.0	-0.0010 mg/L
3	Se 196.026	59.1	7.2	0.0023 mg/L
3	Tl 190.800	217.8	11.9	0.0032 mg/L
3	V 292.402	119.1	-21.8	-0.0002 mg/L
3	Zn 213.856	-512.7	96.8	0.0009 mg/L

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

D: CCB Seq. No.: 92 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 4:33:12 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	90.4	0.0004	0.00044	mg/L				99.58%
l 308.215	328.0	0.0101	0.00170	mg/L				16.76%
s 188.979	1.4	0.0005	0.00061	mg/L				123.74%
a 233.527	237.0	0.0006	0.00024	mg/L				43.34%
e 313.107	73.8	0.0000	0.00003	mg/L				119.00%
a 227.547	21.2	0.0863	0.05303	mg/L				61.46%
d 228.802	-23.5	-0.0002	0.00002	mg/L				10.65%
o 228.616	35.3	0.0003	0.00013	mg/L				39.36%
r 267.716	-24.4	-0.0003	0.00007	mg/L				25.24%
u 324.754	288.7	0.0010	0.00040	mg/L				41.88%
e 273.955	2846.0	0.0633	0.00844	mg/L				13.32%
766.491	413.4	0.0649	0.00496	mg/L				7.65%
g 279.079	-3932.1	-0.0934	0.00196	mg/L				2.10%
n 257.610	2287.5	0.0017	0.00022	mg/L				12.56%
o 202.030	9.6	0.0005	0.00017	mg/L				32.07%
a 330.237	203.7	0.2922	0.10856	mg/L				37.15%
i 231.604	-10.1	-0.0002	0.00040	mg/L				197.93%
o 220.353	-1.1	-0.0001	0.00064	mg/L				964.32%
o 206.833	4.7	0.0012	0.00274	mg/L				231.59%
e 196.026	11.0	0.0035	0.00173	mg/L				49.35%
l 190.800	8.6	0.0023	0.00087	mg/L				37.56%
292.402	39.9	0.0003	0.00041	mg/L				136.07%
n 213.856	108.1	0.0010	0.00015	mg/L				15.10%

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

D: M-BL 03M1364S Date: 4/23/03 4:37:17 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-61.1	10.2	0.0001	mg/L	0.0025	ppm
1	Al 308.215	4474.2	427.0	0.0132	mg/L	0.6602	ppm
1	As 188.979	121.9	-6.3	-0.0022	mg/L	-0.1095	ppm
1	Ba 233.527	-51.8	-1.0	0.0000	mg/L	-0.0001	ppm
1	Be 313.107	-443.7	-225.4	-0.0001	mg/L	-0.0042	ppm
1	Ca 227.547	624.8	13.5	0.0552	mg/L	2.759	ppm
1	Cd 228.802	214.0	-24.3	-0.0002	mg/L	-0.0094	ppm
1	Co 228.616	-321.3	-17.6	-0.0002	mg/L	-0.0085	ppm
1	Cr 267.716	-340.2	-39.2	-0.0004	mg/L	-0.0214	ppm
1	Cu 324.754	2969.4	-171.0	-0.0006	mg/L	-0.0285	ppm
1	Fe 273.955	2734.4	2086.6	0.0464	mg/L	2.322	ppm
1	K 766.491	-2195.7	426.7	0.0655	mg/L	3.274	ppm
1	Mg 279.079	1232.7	-4054.3	-0.0963	mg/L	-4.816	ppm
1	Mn 257.610	2233.5	1424.0	0.0011	mg/L	0.0535	ppm
1	Mo 202.030	-54.8	2.8	0.0002	mg/L	0.0076	ppm
1	Na 330.237	7071.7	353.2	0.5127	mg/L	25.63	ppm
1	Ni 231.604	-94.8	-14.4	-0.0003	mg/L	-0.0144	ppm
1	Pb 220.353	-185.9	-10.8	-0.0007	mg/L	-0.0338	ppm
1	Sb 206.833	12.1	23.3	0.0059	mg/L	0.2933	ppm
1	Se 196.026	59.1	7.2	0.0023	mg/L	0.1145	ppm
1	Tl 190.800	213.7	7.9	0.0021	mg/L	0.1063	ppm
1	V 292.402	91.4	-49.5	-0.0004	mg/L	-0.0188	ppm
1	Zn 213.856	-607.6	1.9	0.0000	mg/L	0.0009	ppm

2	Ag 328.068	-216.9	-145.7	-0.0007 mg/L	-0.0359 ppm
2	Al 308.215	4257.3	210.1	0.0065 mg/L	0.3248 ppm
2	As 188.979	124.9	-3.3	-0.0011 mg/L	-0.0573 ppm
2	Ba 233.527	-107.1	-56.4	-0.0001 mg/L	-0.0066 ppm
2	Be 313.107	-515.1	-296.7	-0.0001 mg/L	-0.0055 ppm
2	Ca 227.547	646.9	35.7	0.1453 mg/L	7.266 ppm
2	Cd 228.802	208.3	-30.0	-0.0002 mg/L	-0.0116 ppm
2	Co 228.616	-314.6	-10.9	-0.0001 mg/L	-0.0053 ppm
2	Cr 267.716	-344.4	-43.4	-0.0005 mg/L	-0.0237 ppm
2	Cu 324.754	3011.5	-128.9	-0.0004 mg/L	-0.0215 ppm
2	Fe 273.955	2564.8	1917.0	0.0427 mg/L	2.133 ppm
2	K 766.491	-2417.6	204.9	0.0554 mg/L	2.771 ppm
2	Mg 279.079	1257.5	-4029.5	-0.0957 mg/L	-4.786 ppm
2	Mn 257.610	2163.1	1353.6	0.0010 mg/L	0.0508 ppm
2	Mo 202.030	-55.8	1.9	0.0001 mg/L	0.0051 ppm
2	Na 330.237	6863.1	144.7	0.2053 mg/L	10.27 ppm
2	Ni 231.604	-120.8	-40.4	-0.0008 mg/L	-0.0405 ppm
2	Pb 220.353	-169.0	6.1	0.0004 mg/L	0.0193 ppm
2	Sb 206.833	1.9	13.1	0.0033 mg/L	0.1651 ppm
2	Se 196.026	62.8	10.9	0.0035 mg/L	0.1737 ppm
2	Tl 190.800	213.0	7.1	0.0019 mg/L	0.0960 ppm
2	V 292.402	93.0	-47.9	-0.0004 mg/L	-0.0182 ppm
2	Zn 213.856	-601.3	8.2	0.0001 mg/L	0.0038 ppm
3	Ag 328.068	-158.0	-86.7	-0.0004 mg/L	-0.0214 ppm
3	Al 308.215	4142.6	95.4	0.0030 mg/L	0.1475 ppm
3	As 188.979	128.5	0.3	0.0001 mg/L	0.0050 ppm
3	Ba 233.527	-130.0	-79.3	-0.0002 mg/L	-0.0094 ppm
3	Be 313.107	-478.0	-259.7	-0.0001 mg/L	-0.0048 ppm
3	Ca 227.547	615.9	4.7	0.0191 mg/L	0.9551 ppm
3	Cd 228.802	208.2	-30.1	-0.0002 mg/L	-0.0117 ppm
3	Co 228.616	-304.3	-0.6	0.0000 mg/L	-0.0003 ppm
3	Cr 267.716	-343.2	-42.2	-0.0005 mg/L	-0.0231 ppm
3	Cu 324.754	2966.1	-174.3	-0.0006 mg/L	-0.0290 ppm
3	Fe 273.955	2473.8	1826.0	0.0406 mg/L	2.032 ppm
3	K 766.491	-2592.0	30.5	0.0475 mg/L	2.376 ppm
3	Mg 279.079	1262.4	-4024.6	-0.0956 mg/L	-4.781 ppm
3	Mn 257.610	2147.1	1337.6	0.0010 mg/L	0.0502 ppm
3	Mo 202.030	-53.5	4.2	0.0002 mg/L	0.0113 ppm
3	Na 330.237	7086.3	367.9	0.5342 mg/L	26.71 ppm
3	Ni 231.604	-122.6	-42.2	-0.0008 mg/L	-0.0422 ppm
3	Pb 220.353	-180.7	-5.6	-0.0003 mg/L	-0.0175 ppm
3	Sb 206.833	-18.5	-7.3	-0.0018 mg/L	-0.0924 ppm
3	Se 196.026	61.9	10.1	0.0032 mg/L	0.1603 ppm
3	Tl 190.800	206.7	0.8	0.0002 mg/L	0.0110 ppm
3	V 292.402	-41.6	-182.5	-0.0014 mg/L	-0.0694 ppm
3	Zn 213.856	-625.1	-15.6	-0.0001 mg/L	-0.0073 ppm

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

): M-BL 03M1364S Seq. No.: 93 Sample No.: 48 A/S Pos: 57

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

Data: Original Date: 4/23/03 4:37:17 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
328.068	-74.1	-0.0004	0.00039	mg/L	-0.0183	0.01940	ppm	106.23%
308.215	244.2	0.0076	0.00521	mg/L	0.3775	0.26034	ppm	68.96%
188.979	-3.1	-0.0011	0.00115	mg/L	-0.0539	0.05733	ppm	106.37%
233.527	-45.6	-0.0001	0.00009	mg/L	-0.0054	0.00474	ppm	88.26%
313.107	-260.6	-0.0001	0.00001	mg/L	-0.0049	0.00066	ppm	13.69%
227.547	18.0	0.0732	0.06501	mg/L	3.660	3.2505	ppm	88.81%
228.802	-28.1	-0.0002	0.00003	mg/L	-0.0109	0.00128	ppm	11.71%
228.616	-9.7	-0.0001	0.00008	mg/L	-0.0047	0.00415	ppm	88.16%
267.716	-41.6	-0.0005	0.00002	mg/L	-0.0227	0.00120	ppm	5.27%
324.754	-158.1	-0.0005	0.00008	mg/L	-0.0263	0.00421	ppm	16.01%
273.955	1943.2	0.0432	0.00294	mg/L	2.162	0.1472	ppm	6.81%
766.491	220.7	0.0561	0.00900	mg/L	2.807	0.4502	ppm	16.04%
279.079	-4036.1	-0.0959	0.00038	mg/L	-4.794	0.0189	ppm	0.39%
257.610	1371.8	0.0010	0.00003	mg/L	0.0515	0.00173	ppm	3.35%
202.030	3.0	0.0002	0.00006	mg/L	0.0080	0.00310	ppm	38.77%
330.237	288.6	0.4174	0.18398	mg/L	20.87	9.199	ppm	44.08%

i 231.604	-32.3	-0.0006	0.00031 mg/L	-0.0324	0.01557 ppm	48.08%
b 220.353	-3.4	-0.0002	0.00054 mg/L	-0.0107	0.02721 ppm	254.98%
b 206.833	9.7	0.0024	0.00393 mg/L	0.1220	0.19641 ppm	161.00%
e 196.026	9.4	0.0030	0.00062 mg/L	0.1495	0.03104 ppm	20.77%
l 190.800	5.3	0.0014	0.00105 mg/L	0.0711	0.05233 ppm	73.60%
292.402	-93.3	-0.0007	0.00059 mg/L	-0.0355	0.02939 ppm	82.80%
n 213.856	-1.8	0.0000	0.00011 mg/L	-0.0009	0.00573 ppm	667.77%

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

D: LCS-03M1364 Date: 4/23/03 4:40:51 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	202487.7	202558.9	0.9990	mg/L	49.95	ppm
1	Al 308.215	72459.0	68411.8	2.116	mg/L	105.8	ppm
1	As 188.979	1551.0	1422.8	0.5007	mg/L	25.04	ppm
1	Ba 233.527	1819893.8	1819944.6	4.295	mg/L	214.7	ppm
1	Be 313.107	526265.5	526483.8	0.1961	mg/L	9.803	ppm
1	Ca 227.547	5687.4	5076.1	20.67	mg/L	1034	ppm
1	Cd 228.802	34770.3	34532.0	0.2674	mg/L	13.37	ppm
1	Co 228.616	110692.1	110995.8	1.078	mg/L	53.89	ppm
1	Cr 267.716	93786.9	94087.9	1.027	mg/L	51.36	ppm
1	Cu 324.754	314908.8	311768.4	1.038	mg/L	51.91	ppm
1	Fe 273.955	48125.3	47477.5	1.057	mg/L	52.83	ppm
1	K 766.491	119020.2	121642.7	5.364	mg/L	268.2	ppm
1	Mg 279.079	424686.2	419399.2	9.964	mg/L	498.2	ppm
1	Mn 257.610	1296328.8	1295519.3	0.9733	mg/L	48.67	ppm
1	Mo 202.030	40192.5	40250.1	2.184	mg/L	109.2	ppm
1	Na 330.237	33263.2	26544.8	38.66	mg/L	1933	ppm
1	Ni 231.604	53134.1	53214.4	1.066	mg/L	53.31	ppm
1	Pb 220.353	51196.3	51371.5	3.230	mg/L	161.5	ppm
1	Sb 206.833	2107.3	2118.5	0.5040	mg/L	25.20	ppm
1	Se 196.026	1725.2	1673.4	0.5322	mg/L	26.61	ppm
1	Tl 190.800	2148.2	1942.4	0.5249	mg/L	26.25	ppm
1	V 292.402	258961.5	258820.6	1.969	mg/L	98.46	ppm
1	Zn 213.856	55770.1	56379.6	0.5231	mg/L	26.16	ppm
2	Ag 328.068	196365.5	196436.8	0.9688	mg/L	48.44	ppm
2	Al 308.215	70480.5	66433.3	2.054	mg/L	102.7	ppm
2	As 188.979	1540.2	1412.0	0.4968	mg/L	24.84	ppm
2	Ba 233.527	1811717.4	1811768.2	4.275	mg/L	213.8	ppm
2	Be 313.107	522675.8	522894.2	0.1947	mg/L	9.736	ppm
2	Ca 227.547	5613.0	5001.7	20.37	mg/L	1019	ppm
2	Cd 228.802	34073.0	33834.7	0.2620	mg/L	13.10	ppm
2	Co 228.616	107348.0	107651.7	1.045	mg/L	52.27	ppm
2	Cr 267.716	91114.1	91415.1	0.9981	mg/L	49.90	ppm
2	Cu 324.754	306124.6	302984.2	1.009	mg/L	50.45	ppm
2	Fe 273.955	46923.7	46276.0	1.030	mg/L	51.49	ppm
2	K 766.491	119957.0	122579.5	5.404	mg/L	270.2	ppm
2	Mg 279.079	423481.3	418194.3	9.935	mg/L	496.7	ppm
2	Mn 257.610	1288723.9	1287914.5	0.9676	mg/L	48.38	ppm
2	Mo 202.030	39124.7	39182.3	2.126	mg/L	106.3	ppm
2	Na 330.237	32370.9	25652.5	37.37	mg/L	1869	ppm
2	Ni 231.604	51543.4	51623.7	1.034	mg/L	51.71	ppm
2	Pb 220.353	49631.8	49807.0	3.132	mg/L	156.6	ppm
2	Sb 206.833	2088.2	2099.4	0.5001	mg/L	25.00	ppm
2	Se 196.026	1715.2	1663.4	0.5291	mg/L	26.45	ppm
2	Tl 190.800	2128.0	1922.2	0.5195	mg/L	25.97	ppm
2	V 292.402	252104.4	251963.5	1.917	mg/L	95.85	ppm
2	Zn 213.856	54289.2	54898.7	0.5094	mg/L	25.47	ppm
3	Ag 328.068	192663.4	192734.6	0.9505	mg/L	47.53	ppm
3	Al 308.215	69706.8	65659.5	2.030	mg/L	101.5	ppm
3	As 188.979	1547.7	1419.5	0.4992	mg/L	24.96	ppm
3	Ba 233.527	1812384.6	1812435.3	4.277	mg/L	213.8	ppm
3	Be 313.107	525044.9	525263.2	0.1956	mg/L	9.780	ppm
3	Ca 227.547	5669.6	5058.3	20.60	mg/L	1030	ppm
3	Cd 228.802	33473.9	33235.6	0.2574	mg/L	12.87	ppm
3	Co 228.616	106229.1	106532.8	1.035	mg/L	51.73	ppm
3	Cr 267.716	89623.1	89924.1	0.9818	mg/L	49.09	ppm
3	Cu 324.754	301731.6	298591.2	0.9943	mg/L	49.72	ppm

3 Fe 273.955	45856.5	45208.7	1.006 mg/L	50.31 ppm
3 K 766.491	120867.3	123489.8	5.442 mg/L	272.1 ppm
3 Mg 279.079	424190.8	418903.8	9.952 mg/L	497.6 ppm
3 Mn 257.610	1291322.6	1290513.2	0.9696 mg/L	48.48 ppm
3 Mo 202.030	38568.7	38626.3	2.095 mg/L	104.8 ppm
3 Na 330.237	32201.1	25482.7	37.13 mg/L	1856 ppm
3 Ni 231.604	51153.0	51233.4	1.026 mg/L	51.32 ppm
3 Pb 220.353	48705.9	48881.1	3.074 mg/L	153.7 ppm
3 Sb 206.833	2102.2	2113.4	0.5041 mg/L	25.20 ppm
3 Se 196.026	1730.2	1678.4	0.5338 mg/L	26.69 ppm
3 Tl 190.800	2142.0	1936.1	0.5232 mg/L	26.16 ppm
3 V 292.402	247188.5	247047.6	1.880 mg/L	93.98 ppm
3 Zn 213.856	53646.5	54256.0	0.5034 mg/L	25.17 ppm

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

D: LCS-03M1364 Seq. No.: 94 Sample No.: 49 A/S Pos: 58
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 4:40:51 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	197243.4	0.9728	0.02447	mg/L	48.64	1.224	ppm	2.52%
l 308.215	66834.9	2.067	0.0439	mg/L	103.3	2.19	ppm	2.12%
s 188.979	1418.1	0.4989	0.00200	mg/L	24.95	0.100	ppm	0.40%
a 233.527	1814716.0	4.282	0.0107	mg/L	214.1	0.54	ppm	0.25%
e 313.107	524880.4	0.1955	0.00068	mg/L	9.773	0.0340	ppm	0.35%
a 227.547	5045.4	20.55	0.158	mg/L	1027	7.9	ppm	0.77%
d 228.802	33867.4	0.2623	0.00502	mg/L	13.11	0.251	ppm	1.92%
o 228.616	108393.4	1.053	0.0225	mg/L	52.63	1.127	ppm	2.14%
r 267.716	91809.0	1.002	0.0230	mg/L	50.12	1.152	ppm	2.30%
u 324.754	304447.9	1.014	0.0223	mg/L	50.69	1.117	ppm	2.20%
e 273.955	46320.8	1.031	0.0253	mg/L	51.54	1.263	ppm	2.45%
766.491	122570.6	5.404	0.0390	mg/L	270.2	1.95	ppm	0.72%
g 279.079	418832.4	9.950	0.0144	mg/L	497.5	0.72	ppm	0.14%
n 257.610	1291315.6	0.9702	0.00290	mg/L	48.51	0.145	ppm	0.30%
o 202.030	39352.9	2.135	0.0448	mg/L	106.7	2.24	ppm	2.10%
a 330.237	25893.3	37.72	0.822	mg/L	1886	41.1	ppm	2.18%
i 231.604	52023.9	1.042	0.0210	mg/L	52.11	1.051	ppm	2.02%
b 220.353	50019.8	3.145	0.0792	mg/L	157.3	3.96	ppm	2.52%
b 206.833	2110.4	0.5027	0.00229	mg/L	25.14	0.115	ppm	0.46%
e 196.026	1671.7	0.5317	0.00243	mg/L	26.58	0.121	ppm	0.46%
l 190.800	1933.6	0.5225	0.00280	mg/L	26.13	0.140	ppm	0.53%
292.402	252610.6	1.922	0.0450	mg/L	96.10	2.250	ppm	2.34%
n 213.856	55178.1	0.5120	0.01011	mg/L	25.60	0.505	ppm	1.97%

atrix Check Sample: LCS-03M1364

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9996	0.9728	0.024	mg/L	97.315
l 308.215	2.008	2.067	0.044	mg/L	102.961
s 188.979	0.4989	0.4989	0.002	mg/L	99.997
a 233.527	4.000	4.282	0.011	mg/L	107.057
e 313.107	0.1999	0.1955	0.001	mg/L	97.780
a 227.547	20.07	20.55	0.158	mg/L	102.380
d 228.802	0.2498	0.2623	0.005	mg/L	105.005
o 228.616	0.9999	1.053	0.023	mg/L	105.268
r 267.716	0.9995	1.002	0.023	mg/L	100.281
u 324.754	0.9995	1.014	0.022	mg/L	101.435
e 273.955	1.043	1.031	0.025	mg/L	98.765
766.491	5.056	5.404	0.039	mg/L	106.949
g 279.079	9.904	9.950	0.014	mg/L	100.460
n 257.610	1.001	0.9702	0.003	mg/L	96.913
o 202.030	2.000	2.135	0.045	mg/L	106.737
a 330.237	40.42	37.72	0.822	mg/L	93.250
i 231.604	0.9994	1.042	0.021	mg/L	104.294
o 220.353	3.000	3.145	0.079	mg/L	104.849
o 206.833	0.5024	0.5027	0.002	mg/L	100.056
e 196.026	0.5030	0.5317	0.002	mg/L	105.741
190.800	0.5014	0.5225	0.003	mg/L	104.221
292.402	1.999	1.922	0.045	mg/L	96.136

n 213.856 0.5000 0.5120 0.010 mg/L 102.403

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

D: LCSD-03M1364 Date: 4/23/03 4:44:30 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	201608.9	201680.1	0.9947	mg/L	49.73	ppm
1	Al 308.215	72311.8	68264.6	2.111	mg/L	105.5	ppm
1	As 188.979	1575.2	1447.0	0.5091	mg/L	25.46	ppm
1	Ba 233.527	1811303.7	1811354.5	4.274	mg/L	213.7	ppm
1	Be 313.107	520067.4	520285.7	0.1938	mg/L	9.688	ppm
1	Ca 227.547	5677.2	5065.9	20.63	mg/L	1032	ppm
1	Cd 228.802	34855.7	34617.4	0.2681	mg/L	13.41	ppm
1	Co 228.616	110235.9	110539.6	1.073	mg/L	53.67	ppm
1	Cr 267.716	94079.7	94380.7	1.030	mg/L	51.52	ppm
1	Cu 324.754	314315.3	311174.9	1.036	mg/L	51.81	ppm
1	Fe 273.955	48145.1	47497.3	1.057	mg/L	52.85	ppm
1	K 766.491	119756.2	122378.7	5.396	mg/L	269.8	ppm
1	Mg 279.079	438000.2	432713.3	10.28	mg/L	514.0	ppm
1	Mn 257.610	1286800.8	1285991.3	0.9662	mg/L	48.31	ppm
1	Mo 202.030	39923.7	39981.4	2.169	mg/L	108.4	ppm
1	Na 330.237	33273.4	26555.0	38.67	mg/L	1934	ppm
1	Ni 231.604	52796.0	52876.4	1.059	mg/L	52.97	ppm
1	Pb 220.353	50646.9	50822.1	3.196	mg/L	159.8	ppm
1	Sb 206.833	2114.9	2126.1	0.5059	mg/L	25.29	ppm
1	Se 196.026	1741.4	1689.6	0.5374	mg/L	26.87	ppm
1	Tl 190.800	2140.7	1934.8	0.5229	mg/L	26.14	ppm
1	V 292.402	260437.2	260296.3	1.980	mg/L	99.02	ppm
1	Zn 213.856	55706.4	56315.9	0.5226	mg/L	26.13	ppm
2	Ag 328.068	201794.4	201865.7	0.9956	mg/L	49.78	ppm
2	Al 308.215	72331.4	68284.2	2.112	mg/L	105.6	ppm
2	As 188.979	1568.3	1440.1	0.5068	mg/L	25.34	ppm
2	Ba 233.527	1824912.8	1824963.6	4.306	mg/L	215.3	ppm
2	Be 313.107	525827.2	526045.6	0.1959	mg/L	9.795	ppm
2	Ca 227.547	5687.8	5076.5	20.68	mg/L	1034	ppm
2	Cd 228.802	35086.4	34848.1	0.2699	mg/L	13.49	ppm
2	Co 228.616	110515.2	110818.9	1.076	mg/L	53.81	ppm
2	Cr 267.716	94178.0	94479.0	1.032	mg/L	51.58	ppm
2	Cu 324.754	315573.7	312433.3	1.040	mg/L	52.02	ppm
2	Fe 273.955	47847.0	47199.3	1.050	mg/L	52.52	ppm
2	K 766.491	120603.7	123226.2	5.431	mg/L	271.6	ppm
2	Mg 279.079	439344.6	434057.6	10.31	mg/L	515.6	ppm
2	Mn 257.610	1297966.7	1297157.2	0.9745	mg/L	48.73	ppm
2	Mo 202.030	40096.0	40153.7	2.178	mg/L	108.9	ppm
2	Na 330.237	33145.5	26427.1	38.49	mg/L	1924	ppm
2	Ni 231.604	53019.8	53100.2	1.064	mg/L	53.19	ppm
2	Pb 220.353	51217.2	51392.4	3.232	mg/L	161.6	ppm
2	Sb 206.833	2123.6	2134.8	0.5080	mg/L	25.40	ppm
2	Se 196.026	1748.2	1696.3	0.5395	mg/L	26.98	ppm
2	Tl 190.800	2150.8	1944.9	0.5256	mg/L	26.28	ppm
2	V 292.402	260044.6	259903.7	1.978	mg/L	98.88	ppm
2	Zn 213.856	55814.1	56423.6	0.5236	mg/L	26.18	ppm
3	Ag 328.068	200091.9	200163.2	0.9872	mg/L	49.36	ppm
3	Al 308.215	71810.3	67763.1	2.095	mg/L	104.8	ppm
3	As 188.979	1554.6	1426.5	0.5019	mg/L	25.10	ppm
3	Ba 233.527	1864691.8	1864742.5	4.400	mg/L	220.0	ppm
3	Be 313.107	538051.8	538270.1	0.2004	mg/L	10.02	ppm
3	Ca 227.547	5667.9	5056.6	20.59	mg/L	1030	ppm
3	Cd 228.802	34759.0	34520.7	0.2674	mg/L	13.37	ppm
3	Co 228.616	109435.9	109739.6	1.066	mg/L	53.28	ppm
3	Cr 267.716	92875.4	93176.4	1.017	mg/L	50.86	ppm
3	Cu 324.754	312337.6	309197.2	1.030	mg/L	51.48	ppm
3	Fe 273.955	47451.1	46803.3	1.042	mg/L	52.08	ppm
3	K 766.491	125008.9	127631.4	5.617	mg/L	280.8	ppm
3	Mg 279.079	435386.9	430099.9	10.22	mg/L	510.9	ppm
3	Mn 257.610	1323918.4	1323108.9	0.9940	mg/L	49.70	ppm
3	Mo 202.030	39843.4	39901.0	2.165	mg/L	108.2	ppm
3	Na 330.237	32794.3	26075.8	37.98	mg/L	1899	ppm

3 Ni 231.604	52343.8	52424.2	1.050 mg/L	52.52 ppm
3 Pb 220.353	50583.3	50758.5	3.192 mg/L	159.6 ppm
3 Sb 206.833	2107.8	2119.0	0.5044 mg/L	25.22 ppm
3 Se 196.026	1743.1	1691.3	0.5379 mg/L	26.90 ppm
3 Tl 190.800	2138.4	1932.5	0.5222 mg/L	26.11 ppm
3 V 292.402	257684.6	257543.7	1.960 mg/L	97.98 ppm
3 Zn 213.856	55340.2	55949.6	0.5192 mg/L	25.96 ppm

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

D: LCSD-03M1364 Seq. No.: 95 Sample No.: 50 A/S Pos: 59
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 4:44:30 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	201236.3	0.9925	0.00461	mg/L	49.62	0.230	ppm	0.46%
l 308.215	68104.0	2.106	0.0091	mg/L	105.3	0.46	ppm	0.43%
s 188.979	1437.9	0.5059	0.00368	mg/L	25.30	0.184	ppm	0.73%
a 233.527	1833686.9	4.327	0.0655	mg/L	216.3	3.27	ppm	1.51%
e 313.107	528200.5	0.1967	0.00342	mg/L	9.835	0.1710	ppm	1.74%
a 227.547	5066.4	20.63	0.041	mg/L	1032	2.0	ppm	0.20%
d 228.802	34662.1	0.2684	0.00130	mg/L	13.42	0.065	ppm	0.49%
o 228.616	110366.0	1.072	0.0054	mg/L	53.59	0.272	ppm	0.51%
r 267.716	94012.0	1.026	0.0079	mg/L	51.32	0.396	ppm	0.77%
u 324.754	310935.2	1.035	0.0054	mg/L	51.77	0.272	ppm	0.52%
e 273.955	47166.6	1.050	0.0077	mg/L	52.49	0.387	ppm	0.74%
766.491	124412.1	5.481	0.1188	mg/L	274.1	5.94	ppm	2.17%
g 279.079	432290.3	10.27	0.048	mg/L	513.5	2.39	ppm	0.47%
n 257.610	1302085.8	0.9782	0.01431	mg/L	48.91	0.715	ppm	1.46%
o 202.030	40012.0	2.171	0.0070	mg/L	108.5	0.35	ppm	0.32%
a 330.237	26352.6	38.38	0.357	mg/L	1919	17.9	ppm	0.93%
i 231.604	52800.3	1.058	0.0069	mg/L	52.89	0.345	ppm	0.65%
b 220.353	50991.0	3.206	0.0220	mg/L	160.3	1.10	ppm	0.68%
b 206.833	2126.6	0.5061	0.00180	mg/L	25.31	0.090	ppm	0.36%
e 196.026	1692.4	0.5383	0.00112	mg/L	26.91	0.056	ppm	0.21%
l 190.800	1937.4	0.5236	0.00178	mg/L	26.18	0.089	ppm	0.34%
292.402	259247.9	1.973	0.0113	mg/L	98.63	0.566	ppm	0.57%
n 213.856	56229.7	0.5218	0.00231	mg/L	26.09	0.115	ppm	0.44%

atrix Check Sample: LCSD-03M1364

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9996	0.9925	0.005	mg/L	99.284
l 308.215	2.008	2.106	0.009	mg/L	104.923
s 188.979	0.4989	0.5059	0.004	mg/L	101.401
a 233.527	4.000	4.327	0.065	mg/L	108.176
e 313.107	0.1999	0.1967	0.003	mg/L	98.398
a 227.547	20.07	20.63	0.041	mg/L	102.807
d 228.802	0.2498	0.2684	0.001	mg/L	107.466
o 228.616	0.9999	1.072	0.005	mg/L	107.184
r 267.716	0.9995	1.026	0.008	mg/L	102.687
u 324.754	0.9995	1.035	0.005	mg/L	103.596
e 273.955	1.043	1.050	0.008	mg/L	100.647
766.491	5.056	5.481	0.119	mg/L	108.501
g 279.079	9.904	10.27	0.048	mg/L	103.657
n 257.610	1.001	0.9782	0.014	mg/L	97.722
o 202.030	2.000	2.171	0.007	mg/L	108.524
a 330.237	40.42	38.38	0.357	mg/L	94.904
i 231.604	0.9994	1.058	0.007	mg/L	105.850
o 220.353	3.000	3.206	0.022	mg/L	106.885
o 206.833	0.5024	0.5061	0.002	mg/L	100.733
e 196.026	0.5030	0.5383	0.001	mg/L	107.058
. 190.800	0.5014	0.5236	0.002	mg/L	104.430
292.402	1.999	1.973	0.011	mg/L	98.661
n 213.856	0.5000	0.5218	0.002	mg/L	104.354

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

): 2822-4 S F=50 Date: 4/23/03 4:47:50 PM

	Net	Corrected	Calib	Sample

epl#	Element	Intensity	Intensity	Conc.	Units	Conc.	Units
1	Ag 328.068	-700.8	-629.6	-0.0031	mg/L	-0.1552	ppm
1	Al 308.215	3771394.6	3767347.4	116.5	mg/L	5825	ppm
1	As 188.979	319.1	190.9	0.1087	mg/L	5.437	ppm
1	Ba 233.527	1254758.0	1254808.8	2.961	mg/L	148.0	ppm
1	Be 313.107	10981.0	11199.4	0.0042	mg/L	0.2085	ppm
1	Ca 227.547	364249.7	363638.5	1484	mg/L	74200	ppm
1	Cd 228.802	507.2	268.9	0.0021	mg/L	0.1041	ppm
1	Co 228.616	5540.6	5844.2	0.0568	mg/L	2.838	ppm
1	Cr 267.716	16511.4	16812.4	0.1836	mg/L	9.178	ppm
1	Cu 324.754	35913.8	32773.4	0.1162	mg/L	5.809	ppm
1	Fe 273.955	6665231.6	6664583.8	148.3	mg/L	7416	ppm
1	K 766.491	Saturated					
1	Mg 279.079	3304400.7	3299113.8	78.38	mg/L	3919	ppm
1	Mn 257.610	2437628.7	2436819.2	1.831	mg/L	91.54	ppm
1	Mo 202.030	328.6	386.3	0.0161	mg/L	0.8057	ppm
1	Na 330.237	12696.6	5978.2	8.780	mg/L	439.0	ppm
1	Ni 231.604	5523.9	5604.2	0.1123	mg/L	5.614	ppm
1	Pb 220.353	638.7	813.8	0.0669	mg/L	3.343	ppm
1	Sb 206.833	79.6	90.8	0.0237	mg/L	1.187	ppm
1	Se 196.026	-33.3	-85.1	0.0039	mg/L	0.1954	ppm
1	Tl 190.800	350.6	144.7	0.0082	mg/L	0.4111	ppm
1	V 292.402	46093.3	45952.4	0.3496	mg/L	17.48	ppm
1	Zn 213.856	41486.7	42096.2	0.3779	mg/L	18.90	ppm
2	Ag 328.068	-693.3	-622.1	-0.0031	mg/L	-0.1534	ppm
2	Al 308.215	3772979.3	3768932.1	116.5	mg/L	5827	ppm
2	As 188.979	290.7	162.5	0.0995	mg/L	4.974	ppm
2	Ba 233.527	1262851.6	1262902.4	2.980	mg/L	149.0	ppm
2	Be 313.107	10831.4	11049.8	0.0041	mg/L	0.2057	ppm
2	Ca 227.547	368676.5	368065.2	1502	mg/L	75100	ppm
2	Cd 228.802	612.5	374.2	0.0029	mg/L	0.1449	ppm
2	Co 228.616	5732.6	6036.3	0.0586	mg/L	2.931	ppm
2	Cr 267.716	17064.1	17365.1	0.1896	mg/L	9.479	ppm
2	Cu 324.754	35808.4	32668.0	0.1158	mg/L	5.790	ppm
2	Fe 273.955	6647421.2	6646773.4	147.9	mg/L	7396	ppm
2	K 766.491	Saturated					
2	Mg 279.079	3302280.4	3296993.4	78.33	mg/L	3916	ppm
2	Mn 257.610	2437342.2	2436532.7	1.831	mg/L	91.53	ppm
2	Mo 202.030	414.8	472.5	0.0208	mg/L	1.040	ppm
2	Na 330.237	12374.8	5656.4	8.309	mg/L	415.4	ppm
2	Ni 231.604	5841.2	5921.6	0.1186	mg/L	5.932	ppm
2	Pb 220.353	678.0	853.1	0.0694	mg/L	3.470	ppm
2	Sb 206.833	56.6	67.8	0.0178	mg/L	0.8918	ppm
2	Se 196.026	-37.4	-89.2	0.0025	mg/L	0.1230	ppm
2	Tl 190.800	358.6	152.7	0.0106	mg/L	0.5287	ppm
2	V 292.402	46547.8	46406.9	0.3531	mg/L	17.65	ppm
2	Zn 213.856	41739.7	42349.2	0.3803	mg/L	19.02	ppm
3	Ag 328.068	-766.8	-695.5	-0.0034	mg/L	-0.1715	ppm
3	Al 308.215	3788454.3	3784407.0	117.0	mg/L	5851	ppm
3	As 188.979	301.5	173.3	0.1038	mg/L	5.188	ppm
3	Ba 233.527	1279941.6	1279992.4	3.020	mg/L	151.0	ppm
3	Be 313.107	10919.9	11138.3	0.0041	mg/L	0.2074	ppm
3	Ca 227.547	373550.2	372938.9	1522	mg/L	76090	ppm
3	Cd 228.802	595.5	357.2	0.0028	mg/L	0.1383	ppm
3	Co 228.616	5457.2	5760.9	0.0559	mg/L	2.797	ppm
3	Cr 267.716	16277.1	16578.1	0.1810	mg/L	9.050	ppm
3	Cu 324.754	36210.6	33070.1	0.1172	mg/L	5.858	ppm
3	Fe 273.955	6666714.4	6666066.7	148.4	mg/L	7418	ppm
3	K 766.491	Saturated					
3	Mg 279.079	3309081.4	3303794.4	78.49	mg/L	3924	ppm
3	Mn 257.610	2439623.3	2438813.9	1.832	mg/L	91.61	ppm
3	Mo 202.030	380.8	438.5	0.0189	mg/L	0.9473	ppm
3	Na 330.237	12425.0	5706.5	8.382	mg/L	419.1	ppm
3	Ni 231.604	5564.4	5644.8	0.1131	mg/L	5.655	ppm
3	Pb 220.353	778.9	954.1	0.0758	mg/L	3.792	ppm
3	Sb 206.833	28.3	39.5	0.0110	mg/L	0.5511	ppm
3	Se 196.026	18.4	-33.4	0.0203	mg/L	1.013	ppm
3	Tl 190.800	338.4	132.5	0.0051	mg/L	0.2564	ppm
3	V 292.402	47063.8	46922.9	0.3570	mg/L	17.85	ppm

3 Zn 213.856	42609.3	43218.8	0.3884 mg/L	19.42 ppm	

ean Data

D: 2822-4 S F=50 Seq. No.: 96 Sample No.: 51 A/S Pos: 60
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 4:47:50 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-649.1	-0.0032	0.00020	mg/L	-0.1601	0.00997	ppm	6.23%
l 308.215	3773562.2	116.7	0.29	mg/L	5835	14.6	ppm	0.25%
s 188.979	175.6	0.1040	0.00463	mg/L	5.200	0.2315	ppm	4.45%
a 233.527	1265901.2	2.987	0.0303	mg/L	149.4	1.52	ppm	1.02%
e 313.107	11129.1	0.0041	0.00003	mg/L	0.2072	0.00140	ppm	0.68%
a 227.547	368214.2	1503	18.9	mg/L	75130	947.4	ppm	1.26%
d 228.802	333.4	0.0026	0.00044	mg/L	0.1291	0.02188	ppm	16.94%
o 228.616	5880.5	0.0571	0.00137	mg/L	2.855	0.0686	ppm	2.40%
r 267.716	16918.5	0.1847	0.00441	mg/L	9.236	0.2206	ppm	2.39%
u 324.754	32837.2	0.1164	0.00070	mg/L	5.819	0.0351	ppm	0.60%
e 273.955	6659141.3	148.2	0.24	mg/L	7410	11.9	ppm	0.16%
766.491	Saturated							
g 279.079	3299967.2	78.40	0.083	mg/L	3920	4.1	ppm	0.11%
n 257.610	2437388.6	1.831	0.0009	mg/L	91.56	0.047	ppm	0.05%
o 202.030	432.4	0.0186	0.00236	mg/L	0.9310	0.11807	ppm	12.68%
a 330.237	5780.4	8.490	0.2538	mg/L	424.5	12.69	ppm	2.99%
i 231.604	5723.5	0.1147	0.00346	mg/L	5.734	0.1730	ppm	3.02%
b 220.353	873.7	0.0707	0.00463	mg/L	3.535	0.2314	ppm	6.55%
b 206.833	66.0	0.0175	0.00636	mg/L	0.8766	0.31823	ppm	36.30%
e 196.026	-69.3	0.0089	0.00989	mg/L	0.4438	0.49428	ppm	111.37%
l 190.800	143.3	0.0080	0.00273	mg/L	0.3987	0.13656	ppm	34.25%
292.402	46427.4	0.3532	0.00369	mg/L	17.66	0.185	ppm	1.05%
n 213.856	42554.7	0.3822	0.00546	mg/L	19.11	0.273	ppm	1.43%

eplicate Data

D: 2822-4 D F=50 Date: 4/23/03 4:50:35 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-721.7	-650.4	-0.0032	mg/L	-0.1604	ppm
1	Al 308.215	3220602.3	3216555.1	99.47	mg/L	4973	ppm
1	As 188.979	316.1	187.9	0.1178	mg/L	5.889	ppm
1	Ba 233.527	1667182.5	1667233.3	3.934	mg/L	196.7	ppm
1	Be 313.107	10539.1	10757.5	0.0040	mg/L	0.2003	ppm
1	Ca 227.547	437359.1	436747.8	1781	mg/L	89070	ppm
1	Cd 228.802	631.6	393.3	0.0030	mg/L	0.1523	ppm
1	Co 228.616	3922.1	4225.7	0.0410	mg/L	2.052	ppm
1	Cr 267.716	14465.3	14766.3	0.1612	mg/L	8.061	ppm
1	Cu 324.754	32163.2	29022.8	0.1029	mg/L	5.143	ppm
1	Fe 273.955	5877554.3	5876906.6	130.8	mg/L	6540	ppm
1	K 766.491	829814.4	832436.8	31.07	mg/L	1553	ppm
1	Mg 279.079	3022832.5	3017545.5	71.69	mg/L	3584	ppm
1	Mn 257.610	2208480.0	2207670.5	1.659	mg/L	82.93	ppm
1	Mo 202.030	243.5	301.2	0.0121	mg/L	0.6034	ppm
1	Na 330.237	13930.3	7211.9	10.59	mg/L	529.4	ppm
1	Ni 231.604	5006.3	5086.7	0.1019	mg/L	5.096	ppm
1	Pb 220.353	521.1	696.2	0.0586	mg/L	2.930	ppm
1	Sb 206.833	12.8	24.0	0.0088	mg/L	0.4396	ppm
1	Se 196.026	-10.1	-61.9	0.0067	mg/L	0.3356	ppm
1	Tl 190.800	322.9	117.0	0.0082	mg/L	0.4086	ppm
1	V 292.402	42842.6	42701.7	0.3249	mg/L	16.24	ppm
1	Zn 213.856	36712.9	37322.4	0.3351	mg/L	16.76	ppm
2	Ag 328.068	-928.1	-856.9	-0.0042	mg/L	-0.2113	ppm
2	Al 308.215	3162584.9	3158537.7	97.67	mg/L	4884	ppm
2	As 188.979	259.5	131.3	0.0975	mg/L	4.873	ppm
2	Ba 233.527	1640269.9	1640320.7	3.871	mg/L	193.5	ppm
2	Be 313.107	10441.0	10659.4	0.0040	mg/L	0.1985	ppm
2	Ca 227.547	430235.3	429624.1	1752	mg/L	87620	ppm
2	Cd 228.802	622.8	384.5	0.0030	mg/L	0.1489	ppm
2	Co 228.616	4196.0	4499.6	0.0437	mg/L	2.185	ppm
2	Cr 267.716	15095.9	15396.9	0.1681	mg/L	8.405	ppm

2 Cu 324.754	31622.5	28482.1	0.1010 mg/L	5.052 ppm	
2 Fe 273.955	5874757.0	5874109.2	130.7 mg/L	6537 ppm	
2 K 766.491	832326.1	834948.5	31.15 mg/L	1557 ppm	
2 Mg 279.079	2977285.6	2971998.6	70.60 mg/L	3530 ppm	
2 Mn 257.610	2171577.9	2170768.4	1.631 mg/L	81.54 ppm	
2 Mo 202.030	270.0	327.7	0.0135 mg/L	0.6755 ppm	
2 Na 330.237	14030.5	7312.0	10.73 mg/L	536.7 ppm	
2 Ni 231.604	5115.1	5195.5	0.1041 mg/L	5.205 ppm	
2 Pb 220.353	565.7	740.9	0.0611 mg/L	3.057 ppm	
2 Sb 206.833	28.5	39.7	0.0124 mg/L	0.6216 ppm	
2 Se 196.026	-20.2	-72.0	0.0036 mg/L	0.1795 ppm	
2 Tl 190.800	364.1	158.2	0.0193 mg/L	0.9660 ppm	
2 V 292.402	41900.5	41759.6	0.3177 mg/L	15.89 ppm	
2 Zn 213.856	38387.2	38996.7	0.3507 mg/L	17.53 ppm	
3 Ag 328.068	-661.1	-589.8	-0.0029 mg/L	-0.1454 ppm	
3 Al 308.215	3150859.9	3146812.7	97.31 mg/L	4866 ppm	
3 As 188.979	245.4	117.2	0.0921 mg/L	4.607 ppm	
3 Ba 233.527	1631997.9	1632048.6	3.851 mg/L	192.6 ppm	
3 Be 313.107	10404.1	10622.4	0.0040 mg/L	0.1978 ppm	
3 Ca 227.547	426694.3	426083.0	1738 mg/L	86900 ppm	
3 Cd 228.802	467.3	229.0	0.0018 mg/L	0.0887 ppm	
3 Co 228.616	4056.1	4359.8	0.0423 mg/L	2.117 ppm	
3 Cr 267.716	14989.5	15290.5	0.1669 mg/L	8.347 ppm	
3 Cu 324.754	31134.2	27993.8	0.0994 mg/L	4.970 ppm	
3 Fe 273.955	5857503.3	5856855.5	130.3 mg/L	6517 ppm	
3 K 766.491	831824.8	834447.2	31.13 mg/L	1557 ppm	
3 Mg 279.079	2960054.6	2954767.6	70.20 mg/L	3510 ppm	
3 Mn 257.610	2160004.3	2159194.8	1.622 mg/L	81.11 ppm	
3 Mo 202.030	297.1	354.8	0.0150 mg/L	0.7496 ppm	
3 Na 330.237	13830.0	7111.6	10.44 mg/L	522.1 ppm	
3 Ni 231.604	5069.8	5150.2	0.1032 mg/L	5.159 ppm	
3 Pb 220.353	472.8	648.0	0.0552 mg/L	2.762 ppm	
3 Sb 206.833	32.0	43.2	0.0133 mg/L	0.6640 ppm	
3 Se 196.026	-85.9	-137.7	-0.0174 mg/L	-0.8683 ppm	
3 Tl 190.800	299.9	94.0	0.0020 mg/L	0.0994 ppm	
3 V 292.402	41831.7	41690.8	0.3172 mg/L	15.86 ppm	
3 Zn 213.856	38130.7	38740.2	0.3483 mg/L	17.42 ppm	

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

D: 2822-4 D F=50 Seq. No.: 97 Sample No.: 52 A/S Pos: 61
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 4:50:35 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-699.1	-0.0034	0.00069	mg/L	-0.1724	0.03452	ppm	20.03%
l 308.215	3173968.5	98.15	1.155	mg/L	4907	57.7	ppm	1.18%
s 188.979	145.5	0.1025	0.01353	mg/L	5.123	0.6766	ppm	13.21%
a 233.527	1646534.2	3.885	0.0434	mg/L	194.3	2.17	ppm	1.12%
e 313.107	10679.8	0.0040	0.00003	mg/L	0.1989	0.00130	ppm	0.65%
a 227.547	430818.3	1757	22.1	mg/L	87860	1106.3	ppm	1.26%
d 228.802	335.6	0.0026	0.00072	mg/L	0.1300	0.03578	ppm	27.53%
o 228.616	4361.7	0.0424	0.00133	mg/L	2.118	0.0665	ppm	3.14%
r 267.716	15151.2	0.1654	0.00369	mg/L	8.271	0.1843	ppm	2.23%
u 324.754	28499.6	0.1011	0.00172	mg/L	5.055	0.0862	ppm	1.71%
e 273.955	5869290.4	130.6	0.24	mg/L	6531	12.1	ppm	0.19%
766.491	833944.2	31.12	0.042	mg/L	1556	2.1	ppm	0.14%
g 279.079	2981437.3	70.83	0.771	mg/L	3541	38.5	ppm	1.09%
n 257.610	2179211.3	1.637	0.0190	mg/L	81.86	0.951	ppm	1.16%
o 202.030	327.9	0.0135	0.00146	mg/L	0.6762	0.07310	ppm	10.81%
a 330.237	7211.8	10.59	0.147	mg/L	529.4	7.34	ppm	1.39%
. 231.604	5144.1	0.1031	0.00109	mg/L	5.153	0.0547	ppm	1.06%
o 220.353	695.0	0.0583	0.00297	mg/L	2.916	0.1484	ppm	5.09%
o 206.833	35.7	0.0115	0.00238	mg/L	0.5751	0.11920	ppm	20.73%
e 196.026	-90.6	-0.0024	0.01309	mg/L	-0.1177	0.65465	ppm	556.07%
. 190.800	123.1	0.0098	0.00878	mg/L	0.4913	0.43917	ppm	89.39%
292.402	42050.7	0.3199	0.00430	mg/L	16.00	0.215	ppm	1.34%
n 213.856	38353.1	0.3447	0.00838	mg/L	17.24	0.419	ppm	2.43%

atrix Check Sample: 2822-4 D F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	Relative % Diff.
g 328.068	-0.0032	-0.0034	0.001	mg/L	-7.417
l 308.215	116.7	98.15	1.155	mg/L	17.261
s 188.979	0.1040	0.1025	0.014	mg/L	1.487
a 233.527	2.987	3.885	0.043	mg/L	26.138
e 313.107	0.0041	0.0040	0.000	mg/L	4.121
a 227.547	1503	1757	22.127	mg/L	15.623
d 228.802	0.0026	0.0026	0.001	mg/L	0.647
o 228.616	0.0571	0.0424	0.001	mg/L	29.657
r 267.716	0.1847	0.1654	0.004	mg/L	11.021
u 324.754	0.1164	0.1011	0.002	mg/L	14.050
e 273.955	148.2	130.6	0.242	mg/L	12.609
766.491		31.12	0.042	mg/L	
g 279.079	78.40	70.83	0.771	mg/L	10.142
n 257.610	1.831	1.637	0.019	mg/L	11.185
o 202.030	0.0186	0.0135	0.001	mg/L	31.716
a 330.237	8.490	10.59	0.147	mg/L	21.990
i 231.604	0.1147	0.1031	0.001	mg/L	10.664
b 220.353	0.0707	0.0583	0.003	mg/L	19.174
b 206.833	0.0175	0.0115	0.002	mg/L	41.545
e 196.026	0.0089	-0.0024	0.013	mg/L	344.410
l 190.800	0.0080	0.0098	0.009	mg/L	20.812
292.402	0.3532	0.3199	0.004	mg/L	9.893
n 213.856	0.3822	0.3447	0.008	mg/L	10.313

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

D: 2822-4 1/5 F=250 Date: 4/23/03 4:53:39 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-76.4	-5.2	0.0000	mg/L	-0.0064	ppm
1	Al 308.215	835557.1	831509.9	25.71	mg/L	6428	ppm
1	As 188.979	165.3	37.1	0.0212	mg/L	5.307	ppm
1	Ba 233.527	266198.8	266249.6	0.6283	mg/L	157.1	ppm
1	Be 313.107	1830.3	2048.6	0.0008	mg/L	0.1907	ppm
1	Ca 227.547	74973.6	74362.4	302.9	mg/L	75720	ppm
1	Cd 228.802	288.0	49.7	0.0004	mg/L	0.0962	ppm
1	Co 228.616	934.4	1238.1	0.0120	mg/L	3.006	ppm
1	Cr 267.716	3252.5	3553.4	0.0388	mg/L	9.699	ppm
1	Cu 324.754	9786.3	6645.9	0.0221	mg/L	5.533	ppm
1	Fe 273.955	1504918.4	1504270.7	33.48	mg/L	8370	ppm
1	K 766.491	146243.4	148865.9	6.505	mg/L	1626	ppm
1	Mg 279.079	745293.0	740006.1	17.58	mg/L	4395	ppm
1	Mn 257.610	542184.1	541374.6	0.4067	mg/L	101.7	ppm
1	Mo 202.030	31.2	88.9	0.0048	mg/L	1.205	ppm
1	Na 330.237	7743.9	1025.5	1.503	mg/L	375.8	ppm
1	Ni 231.604	1126.6	1207.0	0.0242	mg/L	6.046	ppm
1	Pb 220.353	19.9	195.1	0.0148	mg/L	3.706	ppm
1	Sb 206.833	-6.5	4.7	0.0012	mg/L	0.2981	ppm
1	Se 196.026	40.7	-11.2	0.0047	mg/L	1.184	ppm
1	Tl 190.800	240.1	34.2	0.0025	mg/L	0.6263	ppm
1	V 292.402	9659.8	9518.9	0.0724	mg/L	18.11	ppm
1	Zn 213.856	8003.8	8613.3	0.0799	mg/L	19.98	ppm
2	Ag 328.068	-291.3	-220.0	-0.0011	mg/L	-0.2713	ppm
2	Al 308.215	799946.7	795899.5	24.61	mg/L	6153	ppm
2	As 188.979	164.0	35.9	0.0210	mg/L	5.238	ppm
2	Ba 233.527	269818.1	269868.8	0.6368	mg/L	159.2	ppm
2	Be 313.107	1704.5	1922.9	0.0007	mg/L	0.1790	ppm
2	Ca 227.547	75974.5	75363.2	306.9	mg/L	76740	ppm
2	Cd 228.802	285.5	47.2	0.0004	mg/L	0.0913	ppm
2	Co 228.616	942.2	1245.9	0.0121	mg/L	3.025	ppm
2	Cr 267.716	3227.9	3528.8	0.0385	mg/L	9.632	ppm
2	Cu 324.754	9770.3	6629.9	0.0221	mg/L	5.519	ppm
2	Fe 273.955	1439661.5	1439013.7	32.03	mg/L	8007	ppm
2	K 766.491	139471.5	142094.0	6.223	mg/L	1556	ppm
2	Mg 279.079	715447.5	710160.6	16.87	mg/L	4218	ppm
2	Mn 257.610	520304.7	519495.3	0.3903	mg/L	97.57	ppm
2	Mo 202.030	30.6	88.3	0.0048	mg/L	1.197	ppm

2 Na 330.237	7818.2	1099.8	1.612 mg/L	403.1 ppm	
2 Ni 231.604	1128.4	1208.8	0.0242 mg/L	6.055 ppm	
2 Pb 220.353	36.4	211.6	0.0158 mg/L	3.938 ppm	
2 Sb 206.833	9.3	20.5	0.0052 mg/L	1.291 ppm	
2 Se 196.026	41.8	-10.1	0.0047 mg/L	1.179 ppm	
2 Tl 190.800	226.2	20.3	-0.0008 mg/L	-0.2057 ppm	
2 V 292.402	9739.6	9598.7	0.0730 mg/L	18.26 ppm	
2 Zn 213.856	8020.7	8630.2	0.0801 mg/L	20.02 ppm	
3 Ag 328.068	-265.0	-193.7	-0.0010 mg/L	-0.2389 ppm	
3 Al 308.215	801235.9	797188.7	24.65 mg/L	6163 ppm	
3 As 188.979	166.6	38.4	0.0218 mg/L	5.453 ppm	
3 Ba 233.527	269108.8	269159.6	0.6351 mg/L	158.8 ppm	
3 Be 313.107	1847.9	2066.3	0.0008 mg/L	0.1924 ppm	
3 Ca 227.547	75828.8	75217.5	306.4 mg/L	76590 ppm	
3 Cd 228.802	264.9	26.6	0.0002 mg/L	0.0515 ppm	
3 Co 228.616	927.2	1230.8	0.0120 mg/L	2.988 ppm	
3 Cr 267.716	3198.0	3499.0	0.0382 mg/L	9.550 ppm	
3 Cu 324.754	9530.7	6390.3	0.0213 mg/L	5.320 ppm	
3 Fe 273.955	1439858.8	1439211.1	32.03 mg/L	8008 ppm	
3 K 766.491	140737.1	143359.6	6.276 mg/L	1569 ppm	
3 Mg 279.079	716411.3	711124.3	16.89 mg/L	4223 ppm	
3 Mn 257.610	520517.6	519708.1	0.3905 mg/L	97.61 ppm	
3 Mo 202.030	31.1	88.7	0.0048 mg/L	1.203 ppm	
3 Na 330.237	7720.0	1001.5	1.468 mg/L	366.9 ppm	
3 Ni 231.604	1111.4	1191.8	0.0239 mg/L	5.970 ppm	
3 Pb 220.353	32.3	207.4	0.0155 mg/L	3.874 ppm	
3 Sb 206.833	11.0	22.2	0.0056 mg/L	1.401 ppm	
3 Se 196.026	31.0	-20.8	0.0013 mg/L	0.3245 ppm	
3 Tl 190.800	230.2	24.4	0.0003 mg/L	0.0631 ppm	
3 V 292.402	9717.7	9576.8	0.0729 mg/L	18.22 ppm	
3 Zn 213.856	7964.5	8573.9	0.0796 mg/L	19.89 ppm	

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

D: 2822-4 1/5 F=250 Seq. No.: 98 Sample No.: 53 A/S Pos: 62
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0
Data: Original Date: 4/23/03 4:53:39 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-139.6	-0.0007	0.00058	mg/L	-0.1722	0.14450	ppm	83.93%
l 308.215	808199.3	24.99	0.625	mg/L	6248	156.1	ppm	2.50%
s 188.979	37.1	0.0213	0.00044	mg/L	5.333	0.1099	ppm	2.06%
a 233.527	268426.0	0.6334	0.00453	mg/L	158.4	1.13	ppm	0.71%
e 313.107	2012.6	0.0007	0.00003	mg/L	0.1874	0.00728	ppm	3.89%
a 227.547	74981.0	305.4	2.20	mg/L	76350	550.6	ppm	0.72%
d 228.802	41.1	0.0003	0.00010	mg/L	0.0796	0.02454	ppm	30.81%
o 228.616	1238.3	0.0120	0.00007	mg/L	3.006	0.0183	ppm	0.61%
r 267.716	3527.1	0.0385	0.00030	mg/L	9.627	0.0744	ppm	0.77%
u 324.754	6555.4	0.0218	0.00048	mg/L	5.457	0.1192	ppm	2.18%
e 273.955	1460831.8	32.51	0.837	mg/L	8128	209.3	ppm	2.58%
766.491	144773.2	6.335	0.1500	mg/L	1584	37.5	ppm	2.37%
g 279.079	720430.3	17.12	0.403	mg/L	4279	100.7	ppm	2.35%
n 257.610	526859.3	0.3958	0.00944	mg/L	98.96	2.361	ppm	2.39%
o 202.030	88.6	0.0048	0.00002	mg/L	1.202	0.0043	ppm	0.35%
a 330.237	1042.3	1.528	0.0754	mg/L	381.9	18.86	ppm	4.94%
i 231.604	1202.5	0.0241	0.00019	mg/L	6.023	0.0467	ppm	0.77%
o 220.353	204.7	0.0154	0.00048	mg/L	3.839	0.1198	ppm	3.12%
o 206.833	15.8	0.0040	0.00243	mg/L	0.9968	0.60758	ppm	60.96%
e 196.026	-14.0	0.0036	0.00198	mg/L	0.8957	0.49470	ppm	55.23%
l 190.800	26.3	0.0006	0.00170	mg/L	0.1613	0.42459	ppm	263.30%
292.402	9564.8	0.0728	0.00031	mg/L	18.19	0.078	ppm	0.43%
n 213.856	8605.8	0.0799	0.00027	mg/L	19.96	0.067	ppm	0.34%

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

D: 2822-4 MS F=50 Date: 4/23/03 4:57:02 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	151548.2	151619.5	0.7478	mg/L	37.39	ppm
1 Al 308.215	3813855.4	3809808.2	117.8	mg/L	5891	ppm

1	As 188.979	1630.8	1502.6	0.5713 mg/L	28.56 ppm
1	Ba 233.527	2777181.7	2777232.5	6.553 mg/L	327.7 ppm
1	Be 313.107	504646.5	504864.9	0.1880 mg/L	9.400 ppm
1	Ca 227.547	373785.2	373174.0	1523 mg/L	76140 ppm
1	Cd 228.802	31543.7	31305.4	0.2425 mg/L	12.12 ppm
1	Co 228.616	98708.3	99012.0	0.9615 mg/L	48.07 ppm
1	Cr 267.716	99299.1	99600.1	1.087 mg/L	54.37 ppm
1	Cu 324.754	296481.4	293341.0	0.9841 mg/L	49.20 ppm
1	Fe 273.955	6855670.4	6855022.7	152.6 mg/L	7628 ppm
1	K 766.491	1193785.2	1196407.7	42.00 mg/L	2100 ppm
1	Mg 279.079	3749409.5	3744122.6	88.95 mg/L	4447 ppm
1	Mn 257.610	3571957.3	3571147.8	2.683 mg/L	134.1 ppm
1	Mo 202.030	36143.9	36201.6	1.959 mg/L	97.95 ppm
1	Na 330.237	39042.1	32323.7	46.95 mg/L	2348 ppm
1	Ni 231.604	49302.4	49382.8	0.9894 mg/L	49.47 ppm
1	Pb 220.353	43143.8	43319.0	2.740 mg/L	137.0 ppm
1	Sb 206.833	1844.0	1855.2	0.4423 mg/L	22.11 ppm
1	Se 196.026	1387.6	1335.7	0.4567 mg/L	22.84 ppm
1	Tl 190.800	1916.4	1710.5	0.4305 mg/L	21.52 ppm
1	V 292.402	283260.4	283119.5	2.154 mg/L	107.7 ppm
1	Zn 213.856	91081.7	91691.2	0.8378 mg/L	41.89 ppm
2	Ag 328.068	148643.1	148714.4	0.7334 mg/L	36.67 ppm
2	Al 308.215	3840090.0	3836042.8	118.6 mg/L	5931 ppm
2	As 188.979	1669.0	1540.8	0.5846 mg/L	29.23 ppm
2	Ba 233.527	2789892.2	2789943.0	6.583 mg/L	329.2 ppm
2	Be 313.107	504996.9	505215.2	0.1881 mg/L	9.407 ppm
2	Ca 227.547	375991.9	375380.6	1532 mg/L	76590 ppm
2	Cd 228.802	30924.3	30686.1	0.2377 mg/L	11.88 ppm
2	Co 228.616	98769.4	99073.1	0.9621 mg/L	48.10 ppm
2	Cr 267.716	99584.8	99885.8	1.091 mg/L	54.53 ppm
2	Cu 324.754	298590.6	295450.2	0.9910 mg/L	49.55 ppm
2	Fe 273.955	6738591.2	6737943.5	150.0 mg/L	7498 ppm
2	K 766.491	1167559.8	1170182.3	41.25 mg/L	2062 ppm
2	Mg 279.079	3766065.0	3760778.0	89.34 mg/L	4467 ppm
2	Mn 257.610	3587064.4	3586255.0	2.694 mg/L	134.7 ppm
2	Mo 202.030	35814.1	35871.8	1.941 mg/L	97.06 ppm
2	Na 330.237	38865.4	32147.0	46.70 mg/L	2335 ppm
2	Ni 231.604	49687.0	49767.4	0.9971 mg/L	49.85 ppm
2	Pb 220.353	43230.3	43405.4	2.745 mg/L	137.3 ppm
2	Sb 206.833	1815.1	1826.3	0.4349 mg/L	21.75 ppm
2	Se 196.026	1333.3	1281.5	0.4388 mg/L	21.94 ppm
2	Tl 190.800	1899.9	1694.1	0.4265 mg/L	21.32 ppm
2	V 292.402	285292.3	285151.4	2.170 mg/L	108.5 ppm
2	Zn 213.856	91727.4	92336.9	0.8440 mg/L	42.20 ppm
3	Ag 328.068	166482.0	166553.3	0.8214 mg/L	41.07 ppm
3	Al 308.215	3861215.9	3857168.7	119.3 mg/L	5964 ppm
3	As 188.979	1597.5	1469.3	0.5603 mg/L	28.01 ppm
3	Ba 233.527	2803522.2	2803572.9	6.616 mg/L	330.8 ppm
3	Be 313.107	507669.0	507887.4	0.1891 mg/L	9.457 ppm
3	Ca 227.547	378250.7	377639.5	1541 mg/L	77050 ppm
3	Cd 228.802	30771.4	30533.1	0.2365 mg/L	11.82 ppm
3	Co 228.616	99271.2	99574.9	0.9670 mg/L	48.35 ppm
3	Cr 267.716	100197.9	100498.9	1.097 mg/L	54.86 ppm
3	Cu 324.754	301455.8	298315.4	1.001 mg/L	50.03 ppm
3	Fe 273.955	6874612.2	6873964.5	153.0 mg/L	7649 ppm
3	K 766.491	1204940.2	1207562.7	42.32 mg/L	2116 ppm
3	Mg 279.079	3784435.9	3779148.9	89.78 mg/L	4489 ppm
3	Mn 257.610	3603304.8	3602495.3	2.707 mg/L	135.3 ppm
3	Mo 202.030	35173.4	35231.1	1.906 mg/L	95.31 ppm
3	Na 330.237	39266.3	32547.9	47.27 mg/L	2364 ppm
3	Ni 231.604	49763.6	49844.0	0.9986 mg/L	49.93 ppm
3	Pb 220.353	43586.0	43761.2	2.768 mg/L	138.4 ppm
3	Sb 206.833	1749.7	1760.9	0.4183 mg/L	20.92 ppm
3	Se 196.026	1426.4	1374.6	0.4691 mg/L	23.46 ppm
3	Tl 190.800	1860.1	1654.2	0.4151 mg/L	20.76 ppm
3	V 292.402	285837.9	285697.0	2.174 mg/L	108.7 ppm
3	Zn 213.856	92283.8	92893.3	0.8489 mg/L	42.44 ppm

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

): 2822-4 MS F=50 Seq. No.: 99 Sample No.: 54 A/S Pos: 63

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 4:57:02 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	155629.0	0.7675	0.04721	mg/L	38.38	2.360	ppm	6.15%
l 308.215	3834339.9	118.6	0.73	mg/L	5929	36.7	ppm	0.62%
s 188.979	1504.2	0.5720	0.01219	mg/L	28.60	0.610	ppm	2.13%
a 233.527	2790249.5	6.584	0.0311	mg/L	329.2	1.55	ppm	0.47%
e 313.107	505989.2	0.1884	0.00062	mg/L	9.421	0.0308	ppm	0.33%
a 227.547	375398.0	1532	9.1	mg/L	76600	454.9	ppm	0.59%
d 228.802	30841.5	0.2389	0.00317	mg/L	11.94	0.158	ppm	1.33%
o 228.616	99220.0	0.9635	0.00300	mg/L	48.18	0.150	ppm	0.31%
r 267.716	99994.9	1.092	0.0050	mg/L	54.59	0.251	ppm	0.46%
u 324.754	295702.2	0.9919	0.00833	mg/L	49.60	0.417	ppm	0.84%
e 273.955	6822310.2	151.8	1.64	mg/L	7592	82.0	ppm	1.08%
766.491	1191384.2	41.86	0.550	mg/L	2093	27.5	ppm	1.31%
g 279.079	3761349.8	89.36	0.416	mg/L	4468	20.8	ppm	0.47%
n 257.610	3586632.7	2.695	0.0118	mg/L	134.7	0.59	ppm	0.44%
o 202.030	35768.1	1.935	0.0268	mg/L	96.77	1.339	ppm	1.38%
a 330.237	32339.5	46.98	0.288	mg/L	2349	14.4	ppm	0.61%
i 231.604	49664.7	0.9950	0.00495	mg/L	49.75	0.248	ppm	0.50%
b 220.353	43495.2	2.751	0.0148	mg/L	137.6	0.74	ppm	0.54%
b 206.833	1814.1	0.4318	0.01228	mg/L	21.59	0.614	ppm	2.84%
e 196.026	1330.6	0.4549	0.01525	mg/L	22.75	0.762	ppm	3.35%
l 190.800	1686.3	0.4240	0.00796	mg/L	21.20	0.398	ppm	1.88%
292.402	284656.0	2.166	0.0103	mg/L	108.3	0.52	ppm	0.48%
n 213.856	92307.1	0.8435	0.00557	mg/L	42.18	0.279	ppm	0.66%

atrix Check Sample: 2822-4 MS F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9968	0.7675	0.047	mg/L	77.075
l 308.215	118.7	118.6	0.734	mg/L	93.973
s 188.979	0.6040	0.5720	0.012	mg/L	93.610
a 233.527	6.987	6.584	0.031	mg/L	89.925
e 313.107	0.2041	0.1884	0.001	mg/L	92.141
a 227.547	1523	1532	9.098	mg/L	146.648
d 228.802	0.2526	0.2389	0.003	mg/L	94.511
o 228.616	1.057	0.9635	0.003	mg/L	90.640
r 267.716	1.185	1.092	0.005	mg/L	90.702
u 324.754	1.116	0.9919	0.008	mg/L	87.553
e 273.955	149.2	151.8	1.640	mg/L	363.141
766.491		41.86	0.550	mg/L	
g 279.079	88.40	89.36	0.416	mg/L	109.609
n 257.610	2.831	2.695	0.012	mg/L	86.342
o 202.030	2.019	1.935	0.027	mg/L	95.842
a 330.237	48.49	46.98	0.288	mg/L	96.212
i 231.604	1.115	0.9950	0.005	mg/L	88.036
o 220.353	3.071	2.751	0.015	mg/L	89.344
o 206.833	0.5175	0.4318	0.012	mg/L	82.860
e 196.026	0.5089	0.4549	0.015	mg/L	89.205
l 190.800	0.5080	0.4240	0.008	mg/L	83.212
292.402	2.353	2.166	0.010	mg/L	90.629
n 213.856	0.8822	0.8435	0.006	mg/L	92.268

eplicate Data
D: 2822-4 MSD F=50 Date: 4/23/03 4:59:46 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	158634.7	158705.9	0.7827	mg/L	39.14	ppm
1	Al 308.215	3901722.5	3897675.2	120.5	mg/L	6026	ppm
1	As 188.979	1664.7	1536.5	0.5843	mg/L	29.21	ppm
1	Ba 233.527	2852308.3	2852359.1	6.731	mg/L	336.5	ppm
1	Be 313.107	516898.4	517116.7	0.1926	mg/L	9.629	ppm
1	Ca 227.547	384420.4	383809.1	1566	mg/L	78310	ppm
1	Cd 228.802	31891.1	31652.8	0.2451	mg/L	12.26	ppm
1	Co 228.616	100845.7	101149.3	0.9822	mg/L	49.11	ppm

1	Cr 267.716	101642.1	101943.1	1.113 mg/L	55.65 ppm
1	Cu 324.754	305313.1	302172.7	1.013 mg/L	50.67 ppm
1	Fe 273.955	6825287.0	6824639.3	151.9 mg/L	7594 ppm
1	K 766.491	Saturated			
1	Mg 279.079	3834004.0	3828717.0	90.96 mg/L	4548 ppm
1	Mn 257.610	3660603.7	3659794.3	2.750 mg/L	137.5 ppm
1	Mo 202.030	36589.2	36646.9	1.983 mg/L	99.16 ppm
1	Na 330.237	39661.8	32943.4	47.84 mg/L	2392 ppm
1	Ni 231.604	50656.7	50737.1	1.017 mg/L	50.83 ppm
1	Pb 220.353	44050.9	44226.1	2.797 mg/L	139.9 ppm
1	Sb 206.833	1859.4	1870.6	0.4456 mg/L	22.28 ppm
1	Se 196.026	1445.9	1394.0	0.4750 mg/L	23.75 ppm
1	Tl 190.800	1930.1	1724.3	0.4343 mg/L	21.71 ppm
1	V 292.402	290547.4	290406.5	2.210 mg/L	110.5 ppm
1	Zn 213.856	93194.1	93803.6	0.8574 mg/L	42.87 ppm
2	Ag 328.068	154803.9	154875.1	0.7638 mg/L	38.19 ppm
2	Al 308.215	3835558.8	3831511.6	118.5 mg/L	5924 ppm
2	As 188.979	1673.6	1545.4	0.5858 mg/L	29.29 ppm
2	Ba 233.527	2807281.8	2807332.5	6.624 mg/L	331.2 ppm
2	Be 313.107	502113.9	502332.3	0.1871 mg/L	9.353 ppm
2	Ca 227.547	372727.1	372115.8	1518 mg/L	75920 ppm
2	Cd 228.802	32056.3	31818.0	0.2464 mg/L	12.32 ppm
2	Co 228.616	98232.7	98536.4	0.9569 mg/L	47.84 ppm
2	Cr 267.716	98899.3	99200.3	1.083 mg/L	54.15 ppm
2	Cu 324.754	298713.5	295573.1	0.9914 mg/L	49.57 ppm
2	Fe 273.955	6723773.3	6723125.5	149.6 mg/L	7481 ppm
2	K 766.491	Saturated			
2	Mg 279.079	3765668.8	3760381.8	89.33 mg/L	4467 ppm
2	Mn 257.610	3593323.4	3592513.9	2.699 mg/L	135.0 ppm
2	Mo 202.030	36504.8	36562.5	1.979 mg/L	98.93 ppm
2	Na 330.237	38579.3	31860.9	46.29 mg/L	2314 ppm
2	Ni 231.604	49308.6	49389.0	0.9895 mg/L	49.48 ppm
2	Pb 220.353	43005.7	43180.8	2.731 mg/L	136.6 ppm
2	Sb 206.833	1875.9	1887.1	0.4504 mg/L	22.52 ppm
2	Se 196.026	1446.9	1395.0	0.4749 mg/L	23.74 ppm
2	Tl 190.800	1937.9	1732.0	0.4367 mg/L	21.84 ppm
2	V 292.402	282371.0	282230.1	2.147 mg/L	107.4 ppm
2	Zn 213.856	91249.6	91859.1	0.8396 mg/L	41.98 ppm
3	Ag 328.068	162581.4	162652.7	0.8022 mg/L	40.11 ppm
3	Al 308.215	3844457.0	3840409.8	118.8 mg/L	5938 ppm
3	As 188.979	1635.5	1507.3	0.5726 mg/L	28.63 ppm
3	Ba 233.527	2810941.6	2810992.3	6.633 mg/L	331.7 ppm
3	Be 313.107	502300.8	502519.1	0.1871 mg/L	9.357 ppm
3	Ca 227.547	372963.3	372352.0	1519 mg/L	75970 ppm
3	Cd 228.802	31113.4	30875.1	0.2391 mg/L	11.96 ppm
3	Co 228.616	98342.6	98646.3	0.9579 mg/L	47.90 ppm
3	Cr 267.716	99055.9	99356.9	1.085 mg/L	54.24 ppm
3	Cu 324.754	298945.3	295804.9	0.9921 mg/L	49.61 ppm
3	Fe 273.955	6723917.5	6723269.8	149.6 mg/L	7482 ppm
3	K 766.491	Saturated			
3	Mg 279.079	3778811.4	3773524.5	89.65 mg/L	4482 ppm
3	Mn 257.610	3606801.7	3605992.2	2.709 mg/L	135.5 ppm
3	Mo 202.030	35894.7	35952.4	1.946 mg/L	97.28 ppm
3	Na 330.237	38812.2	32093.8	46.62 mg/L	2331 ppm
3	Ni 231.604	49301.2	49381.6	0.9894 mg/L	49.47 ppm
3	Pb 220.353	43093.7	43268.9	2.737 mg/L	136.8 ppm
3	Sb 206.833	1873.2	1884.4	0.4497 mg/L	22.48 ppm
3	Se 196.026	1464.0	1412.2	0.4803 mg/L	24.02 ppm
3	Tl 190.800	1898.4	1692.5	0.4260 mg/L	21.30 ppm
3	V 292.402	282338.8	282197.9	2.147 mg/L	107.4 ppm
3	Zn 213.856	91640.6	92250.1	0.8432 mg/L	42.16 ppm

ean Data

): 2822-4 MSD F=50 Seq. No.: 100 Sample No.: 55 A/S Pos: 64

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

Data: Original Date: 4/23/03 4:59:46 PM

ement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
328.068	158744.6	0.7829	0.01918	mg/L	39.15	0.959	ppm	2.45%

l 308.215	3856532.2	119.3	1.11 mg/L	5963	55.5 ppm	0.93%
s 188.979	1529.7	0.5809	0.00722 mg/L	29.04	0.361 ppm	1.24%
a 233.527	2823561.3	6.663	0.0590 mg/L	333.1	2.95 ppm	0.89%
e 313.107	507322.7	0.1889	0.00316 mg/L	9.446	0.1579 ppm	1.67%
a 227.547	376092.3	1535	27.2 mg/L	76740	1362.4 ppm	1.78%
d 228.802	31448.6	0.2436	0.00390 mg/L	12.18	0.195 ppm	1.60%
o 228.616	99444.0	0.9657	0.01435 mg/L	48.28	0.718 ppm	1.49%
r 267.716	100166.8	1.094	0.0168 mg/L	54.68	0.841 ppm	1.54%
u 324.754	297850.2	0.9990	0.01253 mg/L	49.95	0.627 ppm	1.25%
e 273.955	6757011.5	150.4	1.30 mg/L	7519	65.2 ppm	0.87%
766.491	Saturated					
g 279.079	3787541.1	89.98	0.861 mg/L	4499	43.1 ppm	0.96%
n 257.610	3619433.5	2.719	0.0267 mg/L	136.0	1.34 ppm	0.98%
o 202.030	36387.2	1.969	0.0205 mg/L	98.45	1.027 ppm	1.04%
a 330.237	32299.3	46.92	0.816 mg/L	2346	40.8 ppm	1.74%
i 231.604	49835.9	0.9985	0.01564 mg/L	49.92	0.782 ppm	1.57%
b 220.353	43558.6	2.755	0.0366 mg/L	137.8	1.83 ppm	1.33%
b 206.833	1880.7	0.4486	0.00260 mg/L	22.43	0.130 ppm	0.58%
e 196.026	1400.4	0.4767	0.00312 mg/L	23.84	0.156 ppm	0.66%
l 190.800	1716.3	0.4323	0.00562 mg/L	21.62	0.281 ppm	1.30%
292.402	284944.8	2.168	0.0360 mg/L	108.4	1.80 ppm	1.66%
n 213.856	92637.6	0.8467	0.00943 mg/L	42.34	0.472 ppm	1.11%

atrix Check Sample: 2822-4 MSD F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9968	0.7829	0.019	mg/L	78.611
l 308.215	118.7	119.3	1.110	mg/L	128.286
s 188.979	0.6040	0.5809	0.007	mg/L	95.375
a 233.527	6.987	6.663	0.059	mg/L	91.890
e 313.107	0.2041	0.1889	0.003	mg/L	92.390
a 227.547	1523	1535	27.248	mg/L	160.645
d 228.802	0.2526	0.2436	0.004	mg/L	96.391
o 228.616	1.057	0.9657	0.014	mg/L	90.858
r 267.716	1.185	1.094	0.017	mg/L	90.889
u 324.754	1.116	0.9990	0.013	mg/L	88.261
e 273.955	149.2	150.4	1.303	mg/L	217.816
766.491			0.000	mg/L	
g 279.079	88.40	89.98	0.861	mg/L	115.831
n 257.610	2.831	2.719	0.027	mg/L	88.806
o 202.030	2.019	1.969	0.021	mg/L	97.524
a 330.237	48.49	46.92	0.816	mg/L	96.068
i 231.604	1.115	0.9985	0.016	mg/L	88.379
o 220.353	3.071	2.755	0.037	mg/L	89.479
o 206.833	0.5175	0.4486	0.003	mg/L	86.206
e 196.026	0.5089	0.4767	0.003	mg/L	93.570
l 190.800	0.5080	0.4323	0.006	mg/L	84.873
292.402	2.353	2.168	0.036	mg/L	90.739
n 213.856	0.8822	0.8467	0.009	mg/L	92.906

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

): 2822-4 PS F=50 Date: 4/23/03 5:02:29 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	198536.1	198607.3	0.9795	mg/L	48.98	ppm
1 Al 308.215	3680002.5	3675955.3	113.7	mg/L	5684	ppm
1 As 188.979	1750.8	1622.6	0.6107	mg/L	30.54	ppm
1 Ba 233.527	2913046.9	2913097.6	6.874	mg/L	343.7	ppm
1 Be 313.107	540084.7	540303.1	0.2012	mg/L	10.06	ppm
1 Ca 227.547	354818.1	354206.8	1445	mg/L	72270	ppm
1 Cd 228.802	33130.8	32892.5	0.2547	mg/L	12.74	ppm
1 Co 228.616	105068.9	105372.6	1.023	mg/L	51.16	ppm
1 Cr 267.716	103223.2	103524.1	1.130	mg/L	56.51	ppm
1 Cu 324.754	322795.1	319654.7	1.071	mg/L	53.56	ppm
1 Fe 273.955	6405369.7	6404722.0	142.5	mg/L	7127	ppm
1 K 766.491	Saturated					
1 Mg 279.079	3557389.4	3552102.4	84.39	mg/L	4219	ppm
1 Mn 257.610	3568588.5	3567779.0	2.680	mg/L	134.0	ppm

1 Mo 202.030	39170.6	39228.3	2.123	mg/L	106.2 ppm
1 Na 330.237	41549.3	34830.9	50.54	mg/L	2527 ppm
1 Ni 231.604	52732.6	52813.0	1.058	mg/L	52.91 ppm
1 Pb 220.353	46148.9	46324.0	2.928	mg/L	146.4 ppm
1 Sb 206.833	2110.9	2122.1	0.5080	mg/L	25.40 ppm
1 Se 196.026	1547.4	1495.5	0.5054	mg/L	25.27 ppm
1 Tl 190.800	2076.5	1870.6	0.4756	mg/L	23.78 ppm
1 V 292.402	294348.3	294207.4	2.239	mg/L	111.9 ppm
1 Zn 213.856	92712.3	93321.8	0.8538	mg/L	42.69 ppm
2 Ag 328.068	197021.6	197092.8	0.9720	mg/L	48.60 ppm
2 Al 308.215	3622443.8	3618396.6	111.9	mg/L	5595 ppm
2 As 188.979	1699.0	1570.8	0.5928	mg/L	29.64 ppm
2 Ba 233.527	2865034.0	2865084.8	6.761	mg/L	338.0 ppm
2 Be 313.107	535989.0	536207.3	0.1997	mg/L	9.984 ppm
2 Ca 227.547	353963.8	353352.5	1442	mg/L	72090 ppm
2 Cd 228.802	32776.9	32538.6	0.2520	mg/L	12.60 ppm
2 Co 228.616	104504.6	104808.3	1.018	mg/L	50.89 ppm
2 Cr 267.716	103166.4	103467.4	1.130	mg/L	56.48 ppm
2 Cu 324.754	320218.3	317077.9	1.063	mg/L	53.13 ppm
2 Fe 273.955	6306503.9	6305856.2	140.3	mg/L	7017 ppm
2 K 766.491	Saturated				
2 Mg 279.079	3493324.9	3488037.9	82.86	mg/L	4143 ppm
2 Mn 257.610	3501129.3	3500319.8	2.630	mg/L	131.5 ppm
2 Mo 202.030	39224.9	39282.6	2.126	mg/L	106.3 ppm
2 Na 330.237	41033.8	34315.3	49.80	mg/L	2490 ppm
2 Ni 231.604	52304.4	52384.8	1.050	mg/L	52.48 ppm
2 Pb 220.353	45935.2	46110.4	2.915	mg/L	145.7 ppm
2 Sb 206.833	2119.1	2130.3	0.5100	mg/L	25.50 ppm
2 Se 196.026	1642.6	1590.7	0.5351	mg/L	26.76 ppm
2 Tl 190.800	2068.0	1862.1	0.4739	mg/L	23.69 ppm
2 V 292.402	293566.1	293425.1	2.233	mg/L	111.6 ppm
2 Zn 213.856	92163.3	92772.8	0.8488	mg/L	42.44 ppm
3 Ag 328.068	199945.6	200016.9	0.9865	mg/L	49.32 ppm
3 Al 308.215	3720871.1	3716823.9	114.9	mg/L	5747 ppm
3 As 188.979	1668.4	1540.2	0.5828	mg/L	29.14 ppm
3 Ba 233.527	2939058.7	2939109.4	6.935	mg/L	346.8 ppm
3 Be 313.107	543391.1	543609.5	0.2024	mg/L	10.12 ppm
3 Ca 227.547	358703.2	358091.9	1461	mg/L	73060 ppm
3 Cd 228.802	33391.2	33152.9	0.2568	mg/L	12.84 ppm
3 Co 228.616	106101.8	106405.5	1.033	mg/L	51.66 ppm
3 Cr 267.716	104463.7	104764.6	1.144	mg/L	57.19 ppm
3 Cu 324.754	326597.3	323456.9	1.084	mg/L	54.20 ppm
3 Fe 273.955	6466215.6	6465567.9	143.9	mg/L	7195 ppm
3 K 766.491	Saturated				
3 Mg 279.079	3590791.8	3585504.9	85.18	mg/L	4259 ppm
3 Mn 257.610	3595853.4	3595043.9	2.701	mg/L	135.0 ppm
3 Mo 202.030	38075.9	38133.5	2.064	mg/L	103.2 ppm
3 Na 330.237	41995.7	35277.2	51.18	mg/L	2559 ppm
3 Ni 231.604	53282.1	53362.5	1.069	mg/L	53.46 ppm
3 Pb 220.353	46694.4	46869.6	2.963	mg/L	148.1 ppm
3 Sb 206.833	2024.0	2035.2	0.4857	mg/L	24.29 ppm
3 Se 196.026	1516.8	1464.9	0.4959	mg/L	24.80 ppm
3 Tl 190.800	2018.7	1812.8	0.4597	mg/L	22.98 ppm
3 V 292.402	297914.4	297773.5	2.266	mg/L	113.3 ppm
3 Zn 213.856	94332.3	94941.8	0.8687	mg/L	43.43 ppm

ean Data

D: 2822-4 PS F=50 Seq. No.: 101 Sample No.: 56 A/S Pos: 65
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 50.0
Data: Original Date: 4/23/03 5:02:29 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	198572.3	0.9793	0.00721	mg/L	48.97	0.361	ppm	0.74%
l 308.215	3670391.9	113.5	1.53	mg/L	5675	76.5	ppm	1.35%
s 188.979	1577.9	0.5954	0.01418	mg/L	29.77	0.709	ppm	2.38%
a 233.527	2905763.9	6.857	0.0886	mg/L	342.8	4.43	ppm	1.29%
e 313.107	540040.0	0.2011	0.00138	mg/L	10.06	0.069	ppm	0.69%
a 227.547	355217.1	1450	10.3	mg/L	72480	516.0	ppm	0.71%
d 228.802	32861.3	0.2545	0.00239	mg/L	12.73	0.119	ppm	0.94%

o 228.616	105528.8	1.025	0.0079 mg/L	51.24	0.393 ppm	0.77%
r 267.716	103918.7	1.135	0.0080 mg/L	56.73	0.400 ppm	0.71%
u 324.754	320063.2	1.073	0.0108 mg/L	53.63	0.538 ppm	1.00%
e 273.955	6392048.7	142.3	1.79 mg/L	7113	89.7 ppm	1.26%
766.491	Saturated					
g 279.079	3541881.7	84.14	1.177 mg/L	4207	58.8 ppm	1.40%
n 257.610	3554380.9	2.670	0.0366 mg/L	133.5	1.83 ppm	1.37%
o 202.030	38881.5	2.105	0.0352 mg/L	105.2	1.76 ppm	1.67%
a 330.237	34807.8	50.51	0.688 mg/L	2525	34.4 ppm	1.36%
i 231.604	52853.4	1.059	0.0098 mg/L	52.95	0.491 ppm	0.93%
b 220.353	46434.7	2.935	0.0248 mg/L	146.8	1.24 ppm	0.84%
b 206.833	2095.9	0.5012	0.01347 mg/L	25.06	0.673 ppm	2.69%
e 196.026	1517.1	0.5121	0.02048 mg/L	25.61	1.024 ppm	4.00%
l 190.800	1848.5	0.4697	0.00874 mg/L	23.49	0.437 ppm	1.86%
292.402	295135.4	2.246	0.0176 mg/L	112.3	0.88 ppm	0.79%
n 213.856	93678.8	0.8571	0.01032 mg/L	42.85	0.516 ppm	1.20%

atrix Check Sample: 2822-4 PS F=50

lement	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
g 328.068	0.9968	0.9793	0.007	mg/L	98.254
l 308.215	118.7	113.5	1.529	mg/L	-159.519
s 188.979	0.6040	0.5954	0.014	mg/L	98.285
a 233.527	6.987	6.857	0.089	mg/L	96.739
e 313.107	0.2041	0.2011	0.001	mg/L	98.482
a 227.547	1523	1450	10.319	mg/L	-265.258
d 228.802	0.2526	0.2545	0.002	mg/L	100.768
o 228.616	1.057	1.025	0.008	mg/L	96.767
r 267.716	1.185	1.135	0.008	mg/L	94.986
u 324.754	1.116	1.073	0.011	mg/L	95.620
e 273.955	149.2	142.3	1.794	mg/L	-594.430
766.491			0.000	mg/L	
g 279.079	88.40	84.14	1.177	mg/L	57.471
n 257.610	2.831	2.670	0.037	mg/L	83.919
o 202.030	2.019	2.105	0.035	mg/L	104.303
a 330.237	48.49	50.51	0.688	mg/L	105.040
i 231.604	1.115	1.059	0.010	mg/L	94.424
b 220.353	3.071	2.935	0.025	mg/L	95.481
b 206.833	0.5175	0.5012	0.013	mg/L	96.742
e 196.026	0.5089	0.5121	0.020	mg/L	100.651
l 190.800	0.5080	0.4697	0.009	mg/L	92.348
292.402	2.353	2.246	0.018	mg/L	94.616
n 213.856	0.8822	0.8571	0.010	mg/L	94.977

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

D: 2822-2 F=50 Date: 4/23/03 5:05:09 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-942.5	-871.2	-0.0043	mg/L	-0.2148	ppm
1	Al 308.215	3835971.6	3831924.4	118.5	mg/L	5925	ppm
1	As 188.979	345.5	217.3	0.1234	mg/L	6.168	ppm
1	Ba 233.527	1462833.6	1462884.4	3.452	mg/L	172.6	ppm
1	Be 313.107	10509.8	10728.1	0.0040	mg/L	0.1998	ppm
1	Ca 227.547	406272.8	405661.5	1655	mg/L	82760	ppm
1	Cd 228.802	534.7	296.4	0.0023	mg/L	0.1148	ppm
1	Co 228.616	6407.5	6711.2	0.0652	mg/L	3.259	ppm
1	Cr 267.716	17319.1	17620.0	0.1924	mg/L	9.619	ppm
1	Cu 324.754	37726.8	34586.4	0.1225	mg/L	6.127	ppm
1	Fe 273.955	6978080.2	6977432.5	155.3	mg/L	7764	ppm
1	K 766.491	Saturated					
1	Mg 279.079	3188665.0	3183378.0	75.63	mg/L	3781	ppm
1	Mn 257.610	3926429.2	3925619.8	2.949	mg/L	147.5	ppm
1	Mo 202.030	694.3	752.0	0.0357	mg/L	1.786	ppm
1	Na 330.237	12122.0	5403.6	7.938	mg/L	396.9	ppm
1	Ni 231.604	6703.2	6783.6	0.1359	mg/L	6.795	ppm
1	Pb 220.353	742.5	917.7	0.0741	mg/L	3.703	ppm
1	Sb 206.833	55.1	66.3	0.0180	mg/L	0.9011	ppm
1	Se 196.026	21.0	-30.8	0.0225	mg/L	1.125	ppm

1 Tl 190.800	325.2	119.4	0.0012 mg/L	0.0596 ppm
1 V 292.402	52658.5	52517.6	0.3996 mg/L	19.98 ppm
1 Zn 213.856	43486.4	44095.9	0.3959 mg/L	19.80 ppm

alibration Summary
ethod: 23ME ICP-M Date: 4/23/03 5:06:41 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: 2822-2 F=200 Date: 4/23/03 5:08:03 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1 Ag 328.068	-217.7	-146.5	-0.0007 mg/L	-0.1445 ppm
1 Al 308.215	1040514.2	1036467.0	32.05 mg/L	6410 ppm
1 As 188.979	172.3	44.1	0.0278 mg/L	5.557 ppm
1 Ba 233.527	407244.0	407294.8	0.9611 mg/L	192.2 ppm
1 Be 313.107	2402.6	2621.0	0.0010 mg/L	0.1952 ppm
1 Ca 227.547	109417.9	108806.6	443.2 mg/L	88630 ppm
1 Cd 228.802	302.2	63.9	0.0005 mg/L	0.0990 ppm
1 Co 228.616	1510.5	1814.1	0.0176 mg/L	3.523 ppm
1 Cr 267.716	4363.9	4664.9	0.0509 mg/L	10.19 ppm
1 Cu 324.754	12726.6	9586.2	0.0319 mg/L	6.385 ppm
1 Fe 273.955	1924440.1	1923792.4	42.82 mg/L	8563 ppm
1 K 766.491	187830.2	190452.6	8.216 mg/L	1643 ppm
1 Mg 279.079	880148.0	874861.1	20.78 mg/L	4157 ppm
1 Mn 257.610	1071103.7	1070294.3	0.8041 mg/L	160.8 ppm
1 Mo 202.030	155.1	212.7	0.0115 mg/L	2.308 ppm
1 Na 330.237	8020.9	1302.5	1.911 mg/L	382.2 ppm
1 Ni 231.604	1727.8	1808.2	0.0362 mg/L	7.246 ppm
1 Pb 220.353	47.5	222.7	0.0184 mg/L	3.683 ppm
1 Sb 206.833	19.2	30.4	0.0077 mg/L	1.534 ppm
1 Se 196.026	27.0	-24.8	0.0027 mg/L	0.5392 ppm
1 Tl 190.800	241.9	36.1	0.0016 mg/L	0.3259 ppm
1 V 292.402	14308.4	14167.5	0.1078 mg/L	21.56 ppm
1 Zn 213.856	10798.2	11407.7	0.1059 mg/L	21.17 ppm
2 Ag 328.068	-271.7	-200.4	-0.0010 mg/L	-0.1977 ppm
2 Al 308.215	1060366.9	1056319.7	32.67 mg/L	6533 ppm
2 As 188.979	181.1	52.9	0.0305 mg/L	6.094 ppm
2 Ba 233.527	399196.6	399247.4	0.9421 mg/L	188.4 ppm
2 Be 313.107	2328.0	2546.4	0.0009 mg/L	0.1897 ppm
2 Ca 227.547	106874.3	106263.0	432.8 mg/L	86560 ppm
2 Cd 228.802	286.3	48.0	0.0004 mg/L	0.0743 ppm
2 Co 228.616	1519.2	1822.9	0.0177 mg/L	3.540 ppm

2 Cr 267.716	4363.6	4664.5	0.0509 mg/L	10.19 ppm	
2 Cu 324.754	12128.4	8988.0	0.0299 mg/L	5.986 ppm	
2 Fe 273.955	1949914.0	1949266.2	43.38 mg/L	8676 ppm	
2 K 766.491	193746.2	196368.6	8.456 mg/L	1691 ppm	
2 Mg 279.079	891758.4	886471.4	21.06 mg/L	4212 ppm	
2 Mn 257.610	1081310.2	1080500.7	0.8118 mg/L	162.4 ppm	
2 Mo 202.030	147.5	205.2	0.0111 mg/L	2.226 ppm	
2 Na 330.237	7911.3	1192.8	1.749 mg/L	349.9 ppm	
2 Ni 231.604	1722.8	1803.2	0.0361 mg/L	7.225 ppm	
2 Pb 220.353	58.6	233.8	0.0191 mg/L	3.829 ppm	
2 Sb 206.833	-2.0	9.2	0.0023 mg/L	0.4641 ppm	
2 Se 196.026	39.4	-12.5	0.0068 mg/L	1.354 ppm	
2 Tl 190.800	232.5	26.6	-0.0012 mg/L	-0.2343 ppm	
2 V 292.402	14089.3	13948.4	0.1061 mg/L	21.23 ppm	
2 Zn 213.856	10856.0	11465.5	0.1064 mg/L	21.28 ppm	
3 Ag 328.068	-307.1	-235.8	-0.0012 mg/L	-0.2326 ppm	
3 Al 308.215	1034019.5	1029972.3	31.85 mg/L	6370 ppm	
3 As 188.979	172.6	44.4	0.0276 mg/L	5.522 ppm	
3 Ba 233.527	398724.1	398774.9	0.9410 mg/L	188.2 ppm	
3 Be 313.107	2300.3	2518.6	0.0009 mg/L	0.1876 ppm	
3 Ca 227.547	107118.4	106507.1	433.8 mg/L	86760 ppm	
3 Cd 228.802	302.6	64.3	0.0005 mg/L	0.0996 ppm	
3 Co 228.616	1501.4	1805.0	0.0175 mg/L	3.506 ppm	
3 Cr 267.716	4363.8	4664.7	0.0509 mg/L	10.19 ppm	
3 Cu 324.754	12119.4	8979.0	0.0299 mg/L	5.980 ppm	
3 Fe 273.955	1902292.4	1901644.6	42.32 mg/L	8464 ppm	
3 K 766.491	186712.7	189335.1	8.170 mg/L	1634 ppm	
3 Mg 279.079	870244.3	864957.3	20.55 mg/L	4110 ppm	
3 Mn 257.610	1055971.7	1055162.2	0.7927 mg/L	158.5 ppm	
3 Mo 202.030	140.5	198.2	0.0108 mg/L	2.150 ppm	
3 Na 330.237	7738.7	1020.3	1.495 mg/L	299.1 ppm	
3 Ni 231.604	1748.2	1828.6	0.0366 mg/L	7.327 ppm	
3 Pb 220.353	46.4	221.6	0.0183 mg/L	3.660 ppm	
3 Sb 206.833	6.6	17.8	0.0045 mg/L	0.8969 ppm	
3 Se 196.026	40.0	-11.9	0.0067 mg/L	1.341 ppm	
3 Tl 190.800	238.6	32.8	0.0008 mg/L	0.1571 ppm	
3 V 292.402	14117.2	13976.3	0.1063 mg/L	21.27 ppm	
3 Zn 213.856	10927.4	11536.8	0.1071 mg/L	21.41 ppm	

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

D: 2822-2 F=200 Seq. No.: 103 Sample No.: 1 A/S Pos: 66
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 5:08:03 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-194.3	-0.0010	0.00022	mg/L	-0.1916	0.04437	ppm	23.16%
l 308.215	1040919.7	32.19	0.424	mg/L	6438	84.9	ppm	1.32%
s 188.979	47.1	0.0286	0.00161	mg/L	5.724	0.3210	ppm	5.61%
a 233.527	401772.3	0.9481	0.01130	mg/L	189.6	2.26	ppm	1.19%
e 313.107	2562.0	0.0010	0.00002	mg/L	0.1908	0.00394	ppm	2.07%
a 227.547	107192.2	436.6	5.72	mg/L	87320	1143.2	ppm	1.31%
d 228.802	58.7	0.0005	0.00007	mg/L	0.0910	0.01447	ppm	15.90%
o 228.616	1814.0	0.0176	0.00009	mg/L	3.523	0.0174	ppm	0.49%
r 267.716	4664.7	0.0509	0.00000	mg/L	10.19	0.000	ppm	0.00%
u 324.754	9184.4	0.0306	0.00116	mg/L	6.117	0.2318	ppm	3.79%
e 273.955	1924901.1	42.84	0.530	mg/L	8568	106.1	ppm	1.24%
766.491	192052.1	8.281	0.1536	mg/L	1656	30.7	ppm	1.86%
g 279.079	875429.9	20.80	0.256	mg/L	4159	51.2	ppm	1.23%
a 257.610	1068652.4	0.8029	0.00958	mg/L	160.6	1.92	ppm	1.19%
o 202.030	205.4	0.0111	0.00040	mg/L	2.228	0.0791	ppm	3.55%
a 330.237	1171.9	1.719	0.2095	mg/L	343.7	41.89	ppm	12.19%
. 231.604	1813.3	0.0363	0.00027	mg/L	7.266	0.0539	ppm	0.74%
o 220.353	226.0	0.0186	0.00046	mg/L	3.724	0.0917	ppm	2.46%
o 206.833	19.1	0.0048	0.00269	mg/L	0.9651	0.53834	ppm	55.78%
e 196.026	-16.4	0.0054	0.00233	mg/L	1.078	0.4667	ppm	43.29%
. 190.800	31.8	0.0004	0.00144	mg/L	0.0829	0.28737	ppm	346.69%
292.402	14030.7	0.1068	0.00091	mg/L	21.35	0.181	ppm	0.85%
a 213.856	11470.0	0.1064	0.00060	mg/L	21.29	0.120	ppm	0.56%

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

D: CCV 1447B Date: 4/23/03 5:11:41 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	201904.5	201975.7	0.9961	mg/L		
1	Al 308.215	169944.2	165897.0	5.130	mg/L		
1	As 188.979	1521.7	1393.5	0.4881	mg/L		
1	Ba 233.527	2217207.3	2217258.0	5.232	mg/L		
1	Be 313.107	1358444.0	1358662.4	0.5060	mg/L		
1	Ca 227.547	13539.9	12928.7	52.66	mg/L		
1	Cd 228.802	136804.1	136565.8	1.058	mg/L		
1	Co 228.616	218909.0	219212.6	2.129	mg/L		
1	Cr 267.716	45709.4	46010.4	0.5023	mg/L		
1	Cu 324.754	621111.4	617971.0	2.058	mg/L		
1	Fe 273.955	237572.5	236924.7	5.273	mg/L		
1	K 766.491	355351.9	357974.3	14.77	mg/L		
1	Mg 279.079	1112116.6	1106829.7	26.29	mg/L		
1	Mn 257.610	2745125.0	2744315.5	2.062	mg/L		
1	Mo 202.030	38031.3	38088.9	2.066	mg/L		
1	Na 330.237	76350.5	69632.1	99.55	mg/L		
1	Ni 231.604	106067.7	106148.1	2.127	mg/L		
1	Pb 220.353	7939.3	8114.4	0.5102	mg/L		
1	Sb 206.833	8141.7	8152.9	2.040	mg/L		
1	Se 196.026	1656.9	1605.1	0.5118	mg/L		
1	Tl 190.800	2030.2	1824.4	0.4930	mg/L		
1	V 292.402	263476.0	263335.1	2.004	mg/L		
1	Zn 213.856	223643.2	224252.7	2.081	mg/L		
2	Ag 328.068	199318.6	199389.8	0.9834	mg/L		
2	Al 308.215	167856.4	163809.2	5.066	mg/L		
2	As 188.979	1542.2	1414.0	0.4951	mg/L		
2	Ba 233.527	2187615.3	2187666.0	5.162	mg/L		
2	Be 313.107	1383640.6	1383858.9	0.5153	mg/L		
2	Ca 227.547	13581.4	12970.2	52.83	mg/L		
2	Cd 228.802	135228.5	134990.2	1.045	mg/L		
2	Co 228.616	216310.2	216613.9	2.103	mg/L		
2	Cr 267.716	45215.3	45516.3	0.4969	mg/L		
2	Cu 324.754	615172.4	612032.0	2.038	mg/L		
2	Fe 273.955	233390.9	232743.2	5.180	mg/L		
2	K 766.491	367166.0	369788.5	15.21	mg/L		
2	Mg 279.079	1098876.0	1093589.0	25.98	mg/L		
2	Mn 257.610	2792738.2	2791928.7	2.098	mg/L		
2	Mo 202.030	37284.9	37342.5	2.026	mg/L		
2	Na 330.237	75581.7	68863.3	98.48	mg/L		
2	Ni 231.604	105431.3	105511.7	2.114	mg/L		
2	Pb 220.353	8084.8	8260.0	0.5194	mg/L		
2	Sb 206.833	8248.9	8260.1	2.067	mg/L		
2	Se 196.026	1672.6	1620.7	0.5168	mg/L		
2	Tl 190.800	2054.7	1848.8	0.4996	mg/L		
2	V 292.402	259932.7	259791.8	1.977	mg/L		
2	Zn 213.856	220879.9	221489.4	2.055	mg/L		
3	Ag 328.068	203930.8	204002.0	1.006	mg/L		
3	Al 308.215	170604.0	166556.8	5.151	mg/L		
3	As 188.979	1559.7	1431.5	0.5013	mg/L		
3	Ba 233.527	2224742.0	2224792.8	5.250	mg/L		
3	Be 313.107	1381643.3	1381861.6	0.5146	mg/L		
3	Ca 227.547	13648.6	13037.3	53.10	mg/L		
3	Cd 228.802	137872.8	137634.5	1.066	mg/L		
3	Co 228.616	219969.0	220272.7	2.139	mg/L		
3	Cr 267.716	46023.5	46324.4	0.5058	mg/L		
3	Cu 324.754	628477.2	625336.8	2.082	mg/L		
3	Fe 273.955	236525.9	235878.1	5.250	mg/L		
3	K 766.491	369414.5	372037.0	15.29	mg/L		
3	Mg 279.079	1117658.6	1112371.6	26.43	mg/L		
3	Mn 257.610	2791130.8	2790321.3	2.096	mg/L		
3	Mo 202.030	38065.5	38123.1	2.068	mg/L		
3	Na 330.237	76568.7	69850.3	99.85	mg/L		
3	Ni 231.604	106910.4	106990.8	2.144	mg/L		
3	Pb 220.353	8105.1	8280.3	0.5207	mg/L		
3	Sb 206.833	8310.5	8321.7	2.083	mg/L		

3	Se 196.026	1678.0	1626.1	0.5185 mg/L
3	Tl 190.800	2068.5	1862.6	0.5034 mg/L
3	V 292.402	264921.1	264780.2	2.015 mg/L
3	Zn 213.856	225612.3	226221.8	2.099 mg/L

ean Data

D: CCV 1447B Seq. No.: 104 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 5:11:41 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	201789.2	0.9952	0.01140	mg/L				1.15%
l 308.215	165421.0	5.115	0.0444	mg/L				0.87%
s 188.979	1413.0	0.4948	0.00661	mg/L				1.34%
a 233.527	2209905.6	5.215	0.0463	mg/L				0.89%
e 313.107	1374794.3	0.5120	0.00522	mg/L				1.02%
a 227.547	12978.7	52.86	0.223	mg/L				0.42%
d 228.802	136396.8	1.056	0.0103	mg/L				0.98%
o 228.616	218699.8	2.124	0.0183	mg/L				0.86%
r 267.716	45950.4	0.5017	0.00445	mg/L				0.89%
u 324.754	618446.6	2.059	0.0222	mg/L				1.08%
e 273.955	235182.0	5.234	0.0484	mg/L				0.93%
766.491	366599.9	15.09	0.283	mg/L				1.88%
g 279.079	1104263.4	26.23	0.229	mg/L				0.87%
n 257.610	2775521.8	2.085	0.0203	mg/L				0.97%
o 202.030	37851.5	2.053	0.0239	mg/L				1.17%
a 330.237	69448.5	99.29	0.720	mg/L				0.72%
i 231.604	106216.9	2.128	0.0149	mg/L				0.70%
o 220.353	8218.2	0.5168	0.00569	mg/L				1.10%
o 206.833	8244.9	2.063	0.0215	mg/L				1.04%
e 196.026	1617.3	0.5157	0.00348	mg/L				0.67%
l 190.800	1845.3	0.4987	0.00523	mg/L				1.05%
292.402	262635.7	1.998	0.0195	mg/L				0.98%
n 213.856	223988.0	2.078	0.0221	mg/L				1.06%

eplicate Data

D: CCB Date: 4/23/03 5:15:12 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	108.6	179.8	0.0009	mg/L		
1	Al 308.215	4569.0	521.8	0.0161	mg/L		
1	As 188.979	119.7	-8.5	-0.0029	mg/L		
1	Ba 233.527	1104.5	1155.2	0.0027	mg/L		
1	Be 313.107	137.9	356.3	0.0001	mg/L		
1	Ca 227.547	676.6	65.3	0.2659	mg/L		
1	Cd 228.802	239.1	0.8	0.0000	mg/L		
1	Co 228.616	-270.2	33.5	0.0003	mg/L		
1	Cr 267.716	-303.6	-2.6	0.0000	mg/L		
1	Cu 324.754	4339.7	1199.3	0.0040	mg/L		
1	Fe 273.955	5111.5	4463.7	0.0993	mg/L		
1	K 766.491	-2735.7	-113.3	0.0410	mg/L		
1	Mg 279.079	1557.9	-3729.1	-0.0886	mg/L		
1	Mn 257.610	3601.0	2791.5	0.0021	mg/L		
1	Mo 202.030	-40.0	17.7	0.0010	mg/L		
1	Na 330.237	6951.8	233.4	0.3361	mg/L		
1	Ni 231.604	-78.8	1.6	0.0000	mg/L		
1	Pb 220.353	-199.0	-23.8	-0.0015	mg/L		
1	Sb 206.833	2.7	13.9	0.0035	mg/L		
1	Se 196.026	74.3	22.4	0.0071	mg/L		
1	Tl 190.800	209.7	3.9	0.0010	mg/L		
1	V 292.402	168.9	28.0	0.0002	mg/L		
1	Zn 213.856	-491.9	117.6	0.0011	mg/L		
2	Ag 328.068	40.7	112.0	0.0006	mg/L		
2	Al 308.215	4663.6	616.4	0.0191	mg/L		
2	As 188.979	121.0	-7.2	-0.0025	mg/L		
2	Ba 233.527	820.6	871.3	0.0021	mg/L		
2	Be 313.107	11.7	230.0	0.0001	mg/L		
2	Ca 227.547	658.6	47.4	0.1929	mg/L		

2 Cd 228.802	218.7	-19.6	-0.0002	mg/L
2 Co 228.616	-262.9	40.8	0.0004	mg/L
2 Cr 267.716	-315.7	-14.8	-0.0002	mg/L
2 Cu 324.754	4025.4	885.0	0.0029	mg/L
2 Fe 273.955	4484.2	3836.4	0.0854	mg/L
2 K 766.491	-2201.5	420.9	0.0652	mg/L
2 Mg 279.079	1753.0	-3534.0	-0.0840	mg/L
2 Mn 257.610	3103.5	2294.0	0.0017	mg/L
2 Mo 202.030	-35.9	21.7	0.0012	mg/L
2 Na 330.237	6842.7	124.2	0.1752	mg/L
2 Ni 231.604	-95.8	-15.4	-0.0003	mg/L
2 Pb 220.353	-194.6	-19.4	-0.0012	mg/L
2 Sb 206.833	13.2	24.4	0.0061	mg/L
2 Se 196.026	57.4	5.5	0.0018	mg/L
2 Tl 190.800	220.3	14.4	0.0039	mg/L
2 V 292.402	221.5	80.6	0.0006	mg/L
2 Zn 213.856	-513.0	96.5	0.0009	mg/L
3 Ag 328.068	32.5	103.8	0.0005	mg/L
3 Al 308.215	4375.4	328.1	0.0101	mg/L
3 As 188.979	121.8	-6.4	-0.0022	mg/L
3 Ba 233.527	670.2	720.9	0.0017	mg/L
3 Be 313.107	-248.0	-29.6	0.0000	mg/L
3 Ca 227.547	676.4	65.1	0.2652	mg/L
3 Cd 228.802	231.2	-7.1	-0.0001	mg/L
3 Co 228.616	-267.3	36.4	0.0004	mg/L
3 Cr 267.716	-317.3	-16.3	-0.0002	mg/L
3 Cu 324.754	3827.0	686.6	0.0023	mg/L
3 Fe 273.955	3943.3	3295.5	0.0733	mg/L
3 K 766.491	-2499.4	123.0	0.0517	mg/L
3 Mg 279.079	1405.4	-3881.6	-0.0922	mg/L
3 Mn 257.610	2778.4	1969.0	0.0015	mg/L
3 Mo 202.030	-47.1	10.5	0.0006	mg/L
3 Na 330.237	7034.7	316.3	0.4583	mg/L
3 Ni 231.604	-88.4	-8.0	-0.0002	mg/L
3 Pb 220.353	-168.1	7.0	0.0004	mg/L
3 Sb 206.833	1.6	12.8	0.0032	mg/L
3 Se 196.026	70.8	18.9	0.0060	mg/L
3 Tl 190.800	211.2	5.4	0.0015	mg/L
3 V 292.402	147.4	6.5	0.0000	mg/L
3 Zn 213.856	-549.6	59.8	0.0006	mg/L

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

): CCB Seq. No.: 105 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 5:15:12 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
g 328.068	131.8	0.0007	0.00021	mg/L				31.66%
l 308.215	488.8	0.0151	0.00454	mg/L				30.06%
s 188.979	-7.3	-0.0025	0.00036	mg/L				14.19%
a 233.527	915.8	0.0022	0.00052	mg/L				24.08%
e 313.107	185.6	0.0001	0.00007	mg/L				106.03%
a 227.547	59.3	0.2414	0.04193	mg/L				17.37%
d 228.802	-8.6	-0.0001	0.00008	mg/L				118.63%
o 228.616	36.9	0.0004	0.00004	mg/L				9.96%
r 267.716	-11.2	-0.0001	0.00008	mg/L				66.88%
u 324.754	923.6	0.0031	0.00086	mg/L				27.99%
e 273.955	3865.2	0.0860	0.01301	mg/L				15.13%
766.491	143.6	0.0526	0.01214	mg/L				23.06%
g 279.079	-3714.9	-0.0883	0.00414	mg/L				4.69%
n 257.610	2351.5	0.0018	0.00031	mg/L				17.62%
o 202.030	16.6	0.0009	0.00031	mg/L				34.16%
a 330.237	224.7	0.3232	0.14198	mg/L				43.93%
. 231.604	-7.3	-0.0001	0.00017	mg/L				117.55%
o 220.353	-12.1	-0.0008	0.00105	mg/L				138.38%
o 206.833	17.0	0.0043	0.00161	mg/L				37.63%
e 196.026	15.6	0.0050	0.00284	mg/L				57.05%
. 190.800	7.9	0.0021	0.00154	mg/L				72.14%
292.402	38.4	0.0003	0.00029	mg/L				99.43%
a 213.856	91.3	0.0008	0.00027	mg/L				32.00%

eplicate Data
D: 2822-3 F=50 Date: 4/23/03 5:18:24 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-599.4	-528.2	-0.0026	mg/L	-0.1302	ppm
1	Al 308.215	3580297.9	3576250.6	110.6	mg/L	5529	ppm
1	As 188.979	491.8	363.7	0.1453	mg/L	7.265	ppm
1	Ba 233.527	945639.2	945690.0	2.232	mg/L	111.6	ppm
1	Be 313.107	6350.6	6568.9	0.0024	mg/L	0.1223	ppm
1	Ca 227.547	178874.2	178262.9	728.9	mg/L	36450	ppm
1	Cd 228.802	356.7	118.4	0.0009	mg/L	0.0459	ppm
1	Co 228.616	4802.0	5105.7	0.0496	mg/L	2.479	ppm
1	Cr 267.716	15985.1	16286.1	0.1778	mg/L	8.890	ppm
1	Cu 324.754	29814.2	26673.8	0.0958	mg/L	4.789	ppm
1	Fe 273.955	6586859.3	6586211.6	146.6	mg/L	7329	ppm
1	K 766.491	827961.6	830584.0	31.01	mg/L	1551	ppm
1	Mg 279.079	1951043.9	1945756.9	46.22	mg/L	2311	ppm
1	Mn 257.610	3142141.1	3141331.6	2.360	mg/L	118.0	ppm
1	Mo 202.030	431.0	488.7	0.0217	mg/L	1.086	ppm
1	Na 330.237	10217.1	3498.7	5.141	mg/L	257.1	ppm
1	Ni 231.604	4034.3	4114.7	0.0824	mg/L	4.122	ppm
1	Pb 220.353	680.5	855.7	0.0668	mg/L	3.341	ppm
1	Sb 206.833	-63.1	-51.9	-0.0152	mg/L	-0.7607	ppm
1	Se 196.026	12.1	-39.8	0.0196	mg/L	0.9799	ppm
1	Tl 190.800	343.8	138.0	0.0025	mg/L	0.1260	ppm
1	V 292.402	52835.1	52694.2	0.4009	mg/L	20.05	ppm
1	Zn 213.856	36184.9	36794.4	0.3289	mg/L	16.44	ppm

alibration Summary
ethod: 23ME ICP-M Date: 4/23/03 5:19:56 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
. 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
. 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
): 2822-3 F=200 Date: 4/23/03 5:21:18 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-279.7	-208.5	-0.0010	mg/L	-0.2056	ppm
1	Al 308.215	908553.4	904506.2	27.97	mg/L	5594	ppm
1	As 188.979	212.7	84.5	0.0340	mg/L	6.798	ppm
1	Ba 233.527	250358.1	250408.9	0.5909	mg/L	118.2	ppm
1	Be 313.107	1330.8	1549.1	0.0006	mg/L	0.1154	ppm

1	Ca 227.547	46709.1	46097.8	187.7 mg/L	37550 ppm
1	Cd 228.802	247.3	9.0	0.0001 mg/L	0.0139 ppm
1	Co 228.616	1009.6	1313.2	0.0128 mg/L	2.551 ppm
1	Cr 267.716	3804.9	4105.9	0.0448 mg/L	8.966 ppm
1	Cu 324.754	9886.8	6746.4	0.0225 mg/L	4.493 ppm
1	Fe 273.955	1714369.2	1713721.4	38.14 mg/L	7628 ppm
1	K 766.491	150967.0	153589.5	6.701 mg/L	1340 ppm
1	Mg 279.079	508917.9	503630.9	11.96 mg/L	2393 ppm
1	Mn 257.610	811982.1	811172.6	0.6094 mg/L	121.9 ppm
1	Mo 202.030	62.2	119.8	0.0065 mg/L	1.300 ppm
1	Na 330.237	7295.0	576.6	0.8417 mg/L	168.3 ppm
1	Ni 231.604	954.2	1034.6	0.0207 mg/L	4.146 ppm
1	Pb 220.353	71.2	246.3	0.0183 mg/L	3.654 ppm
1	Sb 206.833	-14.0	-2.8	-0.0007 mg/L	-0.1431 ppm
1	Se 196.026	41.3	-10.6	0.0061 mg/L	1.216 ppm
1	Tl 190.800	233.2	27.3	-0.0013 mg/L	-0.2636 ppm
1	V 292.402	13666.2	13525.3	0.1029 mg/L	20.58 ppm
1	Zn 213.856	8726.6	9336.1	0.0866 mg/L	17.33 ppm
2	Ag 328.068	-46.1	25.1	0.0001 mg/L	0.0248 ppm
2	Al 308.215	936310.1	932262.9	28.83 mg/L	5766 ppm
2	As 188.979	228.9	100.7	0.0395 mg/L	7.899 ppm
2	Ba 233.527	248074.2	248125.0	0.5855 mg/L	117.1 ppm
2	Be 313.107	1502.3	1720.6	0.0006 mg/L	0.1281 ppm
2	Ca 227.547	46413.3	45802.1	186.5 mg/L	37310 ppm
2	Cd 228.802	246.6	8.3	0.0001 mg/L	0.0128 ppm
2	Co 228.616	998.9	1302.6	0.0126 mg/L	2.530 ppm
2	Cr 267.716	3827.7	4128.7	0.0451 mg/L	9.015 ppm
2	Cu 324.754	9930.8	6790.4	0.0226 mg/L	4.523 ppm
2	Fe 273.955	1752616.9	1751969.1	38.99 mg/L	7798 ppm
2	K 766.491	157535.2	160157.7	6.973 mg/L	1395 ppm
2	Mg 279.079	521731.4	516444.5	12.27 mg/L	2454 ppm
2	Mn 257.610	830274.0	829464.5	0.6232 mg/L	124.6 ppm
2	Mo 202.030	57.7	115.4	0.0063 mg/L	1.252 ppm
2	Na 330.237	7506.3	787.8	1.153 mg/L	230.6 ppm
2	Ni 231.604	966.4	1046.8	0.0210 mg/L	4.194 ppm
2	Pb 220.353	35.8	210.9	0.0161 mg/L	3.226 ppm
2	Sb 206.833	9.3	20.5	0.0052 mg/L	1.033 ppm
2	Se 196.026	44.8	-7.1	0.0074 mg/L	1.480 ppm
2	Tl 190.800	232.7	26.8	-0.0017 mg/L	-0.3402 ppm
2	V 292.402	13727.8	13586.9	0.1034 mg/L	20.68 ppm
2	Zn 213.856	8752.9	9362.4	0.0869 mg/L	17.37 ppm
3	Ag 328.068	-375.7	-304.4	-0.0015 mg/L	-0.3003 ppm
3	Al 308.215	928342.9	924295.7	28.58 mg/L	5716 ppm
3	As 188.979	214.0	85.8	0.0341 mg/L	6.826 ppm
3	Ba 233.527	240117.0	240167.8	0.5667 mg/L	113.3 ppm
3	Be 313.107	1296.1	1514.4	0.0006 mg/L	0.1128 ppm
3	Ca 227.547	44663.9	44052.6	179.4 mg/L	35880 ppm
3	Cd 228.802	252.7	14.4	0.0001 mg/L	0.0224 ppm
3	Co 228.616	1001.4	1305.1	0.0127 mg/L	2.535 ppm
3	Cr 267.716	3833.6	4134.6	0.0451 mg/L	9.028 ppm
3	Cu 324.754	9720.9	6580.5	0.0219 mg/L	4.383 ppm
3	Fe 273.955	1739758.0	1739110.2	38.70 mg/L	7741 ppm
3	K 766.491	154872.3	157494.8	6.863 mg/L	1373 ppm
3	Mg 279.079	517852.3	512565.3	12.18 mg/L	2435 ppm
3	Mn 257.610	822505.9	821696.4	0.6173 mg/L	123.5 ppm
3	Mo 202.030	71.5	129.2	0.0070 mg/L	1.401 ppm
3	Na 330.237	7495.6	777.2	1.137 mg/L	227.4 ppm
3	Ni 231.604	956.0	1036.4	0.0208 mg/L	4.153 ppm
3	Pb 220.353	67.4	242.6	0.0181 mg/L	3.619 ppm
3	Sb 206.833	24.2	35.4	0.0089 mg/L	1.783 ppm
3	Se 196.026	34.9	-17.0	0.0042 mg/L	0.8359 ppm
3	Tl 190.800	230.5	24.6	-0.0023 mg/L	-0.4557 ppm
3	V 292.402	13187.2	13046.3	0.0993 mg/L	19.85 ppm
3	Zn 213.856	8824.3	9433.8	0.0875 mg/L	17.51 ppm

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

): 2822-3 F=200 Seq. No.: 107 Sample No.: 1 A/S Pos: 67

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

Data: Original Date: 4/23/03 5:21:18 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-162.6	-0.0008	0.00084	mg/L	-0.1604	0.16718	ppm	104.23%
l 308.215	920354.9	28.46	0.442	mg/L	5692	88.4	ppm	1.55%
s 188.979	90.3	0.0359	0.00314	mg/L	7.174	0.6278	ppm	8.75%
a 233.527	246233.9	0.5810	0.01269	mg/L	116.2	2.54	ppm	2.18%
e 313.107	1594.7	0.0006	0.00004	mg/L	0.1188	0.00822	ppm	6.92%
a 227.547	45317.5	184.6	4.50	mg/L	36910	900.4	ppm	2.44%
d 228.802	10.6	0.0001	0.00003	mg/L	0.0164	0.00523	ppm	31.99%
o 228.616	1307.0	0.0127	0.00005	mg/L	2.538	0.0108	ppm	0.43%
r 267.716	4123.1	0.0450	0.00017	mg/L	9.003	0.0331	ppm	0.37%
u 324.754	6705.8	0.0223	0.00037	mg/L	4.466	0.0737	ppm	1.65%
e 273.955	1734933.6	38.61	0.433	mg/L	7722	86.6	ppm	1.12%
766.491	157080.6	6.846	0.1368	mg/L	1369	27.4	ppm	2.00%
g 279.079	510880.2	12.14	0.156	mg/L	2427	31.2	ppm	1.29%
n 257.610	820777.8	0.6166	0.00690	mg/L	123.3	1.38	ppm	1.12%
o 202.030	121.4	0.0066	0.00038	mg/L	1.318	0.0764	ppm	5.80%
a 330.237	713.9	1.044	0.1753	mg/L	208.8	35.07	ppm	16.79%
i 231.604	1039.3	0.0208	0.00013	mg/L	4.164	0.0263	ppm	0.63%
b 220.353	233.3	0.0175	0.00119	mg/L	3.500	0.2376	ppm	6.79%
b 206.833	17.7	0.0045	0.00485	mg/L	0.8907	0.97067	ppm	108.97%
e 196.026	-11.5	0.0059	0.00162	mg/L	1.177	0.3240	ppm	27.52%
l 190.800	26.2	-0.0018	0.00048	mg/L	-0.3532	0.09668	ppm	27.37%
292.402	13386.2	0.1018	0.00225	mg/L	20.37	0.450	ppm	2.21%
n 213.856	9377.4	0.0870	0.00047	mg/L	17.40	0.094	ppm	0.54%

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

D: 2822-5 F=50 Date: 4/23/03 5:24:35 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-986.3	-915.1	-0.0045	mg/L	-0.2257	ppm
1	Al 308.215	3086402.5	3082355.3	95.32	mg/L	4766	ppm
1	As 188.979	436.9	308.7	0.1314	mg/L	6.571	ppm
1	Ba 233.527	891231.5	891282.2	2.103	mg/L	105.2	ppm
1	Be 313.107	9037.2	9255.5	0.0034	mg/L	0.1723	ppm
1	Ca 227.547	209901.6	209290.4	855.3	mg/L	42760	ppm
1	Cd 228.802	421.2	182.9	0.0014	mg/L	0.0708	ppm
1	Co 228.616	4605.0	4908.6	0.0477	mg/L	2.383	ppm
1	Cr 267.716	13796.8	14097.8	0.1539	mg/L	7.696	ppm
1	Cu 324.754	29366.7	26226.3	0.0943	mg/L	4.714	ppm
1	Fe 273.955	6572661.5	6572013.8	146.3	mg/L	7313	ppm
1	K 766.491	800987.7	803610.2	30.15	mg/L	1508	ppm
1	Mg 279.079	2437394.7	2432107.8	57.78	mg/L	2889	ppm
1	Mn 257.610	2076113.9	2075304.5	1.559	mg/L	77.96	ppm
1	Mo 202.030	482.5	540.1	0.0245	mg/L	1.226	ppm
1	Na 330.237	10546.0	3827.6	5.624	mg/L	281.2	ppm
1	Ni 231.604	4505.3	4585.7	0.0919	mg/L	4.594	ppm
1	Pb 220.353	773.1	948.3	0.0715	mg/L	3.573	ppm
1	Sb 206.833	80.7	91.9	0.0222	mg/L	1.112	ppm
1	Se 196.026	-31.5	-83.3	0.0058	mg/L	0.2877	ppm
1	Tl 190.800	320.4	114.6	-0.0014	mg/L	-0.0707	ppm
1	V 292.402	47510.7	47369.8	0.3604	mg/L	18.02	ppm
1	Zn 213.856	38846.0	39455.5	0.3536	mg/L	17.68	ppm

ılibration Summary ----------

ethod: 23ME ICP-M Date: 4/23/03 5:26:06 PM

ement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
328.068	3	Linear-thru-Zero	0.0	202761.6	0.00000	0.999942
308.215	3	Linear-thru-Zero	0.0	32338.0	0.00000	0.999862
188.979	3	Linear-thru-Zero	0.0	2888.4	0.00000	0.999757
233.527	3	Linear-thru-Zero	0.0	423784.1	0.00000	0.999473
313.107	3	Linear-thru-Zero	0.0	2685329.9	0.00000	0.999950
227.547	3	Linear-thru-Zero	0.0	245.5	0.00000	0.999922
228.802	3	Linear-thru-Zero	0.0	129120.3	0.00000	0.999828
228.616	3	Linear-thru-Zero	0.0	102978.0	0.00000	0.999552
267.716	3	Linear-thru-Zero	0.0	91592.9	0.00000	0.999623
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: 2822-5 F=200 Date: 4/23/03 5:27:30 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-318.0	-246.7	-0.0012	mg/L	-0.2434	ppm
1	Al 308.215	807789.5	803742.3	24.85	mg/L	4971	ppm
1	As 188.979	207.0	78.8	0.0333	mg/L	6.655	ppm
1	Ba 233.527	234829.8	234880.6	0.5542	mg/L	110.8	ppm
1	Be 313.107	1922.4	2140.8	0.0008	mg/L	0.1594	ppm
1	Ca 227.547	54320.6	53709.3	218.8	mg/L	43750	ppm
1	Cd 228.802	261.5	23.2	0.0002	mg/L	0.0360	ppm
1	Co 228.616	1024.4	1328.1	0.0129	mg/L	2.579	ppm
1	Cr 267.716	3477.7	3778.6	0.0413	mg/L	8.251	ppm
1	Cu 324.754	9861.7	6721.3	0.0224	mg/L	4.476	ppm
1	Fe 273.955	1724804.4	1724156.6	38.37	mg/L	7674	ppm
1	K 766.491	144177.5	146799.9	6.419	mg/L	1284	ppm
1	Mg 279.079	653534.9	648247.9	15.40	mg/L	3080	ppm
1	Mn 257.610	550699.9	549890.4	0.4131	mg/L	82.63	ppm
1	Mo 202.030	90.6	148.2	0.0080	mg/L	1.608	ppm
1	Na 330.237	7610.7	892.2	1.307	mg/L	261.4	ppm
1	Ni 231.604	1150.2	1230.5	0.0247	mg/L	4.931	ppm
1	Pb 220.353	83.5	258.6	0.0187	mg/L	3.747	ppm
1	Sb 206.833	9.8	21.0	0.0053	mg/L	1.059	ppm
1	Se 196.026	27.3	-24.5	0.0017	mg/L	0.3404	ppm
1	Tl 190.800	232.2	26.3	-0.0010	mg/L	-0.2100	ppm
1	V 292.402	12472.2	12331.3	0.0938	mg/L	18.76	ppm
1	Zn 213.856	9427.7	10037.2	0.0931	mg/L	18.63	ppm
2	Ag 328.068	-179.6	-108.3	-0.0005	mg/L	-0.1068	ppm
2	Al 308.215	828628.0	824580.8	25.50	mg/L	5100	ppm
2	As 188.979	204.8	76.6	0.0326	mg/L	6.512	ppm
2	Ba 233.527	237894.2	237945.0	0.5615	mg/L	112.3	ppm
2	Be 313.107	1950.6	2168.9	0.0008	mg/L	0.1615	ppm
2	Ca 227.547	55059.3	54448.0	221.8	mg/L	44350	ppm
2	Cd 228.802	260.0	21.7	0.0002	mg/L	0.0336	ppm
2	Co 228.616	1029.4	1333.1	0.0129	mg/L	2.589	ppm
2	Cr 267.716	3471.0	3771.9	0.0412	mg/L	8.236	ppm
2	Cu 324.754	9743.1	6602.7	0.0220	mg/L	4.397	ppm
2	Fe 273.955	1755083.9	1754436.1	39.05	mg/L	7809	ppm
2	K 766.491	151067.4	153689.9	6.705	mg/L	1341	ppm
2	Mg 279.079	667207.4	661920.4	15.73	mg/L	3145	ppm
2	Mn 257.610	560572.0	559762.5	0.4205	mg/L	84.11	ppm
2	Mo 202.030	101.3	159.0	0.0086	mg/L	1.725	ppm
2	Na 330.237	7572.3	853.8	1.250	mg/L	250.0	ppm
2	Ni 231.604	1145.1	1225.5	0.0246	mg/L	4.911	ppm
2	Pb 220.353	56.3	231.5	0.0171	mg/L	3.418	ppm
2	Sb 206.833	1.6	12.8	0.0032	mg/L	0.6456	ppm
2	Se 196.026	37.9	-14.0	0.0052	mg/L	1.044	ppm
2	Tl 190.800	226.2	20.4	-0.0028	mg/L	-0.5671	ppm
2	V 292.402	12437.2	12296.3	0.0936	mg/L	18.71	ppm
2	Zn 213.856	9464.9	10074.4	0.0935	mg/L	18.70	ppm
3	Ag 328.068	-183.5	-112.2	-0.0006	mg/L	-0.1107	ppm
3	Al 308.215	825316.7	821269.5	25.40	mg/L	5079	ppm
3	As 188.979	200.2	72.0	0.0311	mg/L	6.217	ppm
3	Ba 233.527	239402.8	239453.6	0.5650	mg/L	113.0	ppm

3 Be 313.107	1857.0	2075.4	0.0008	mg/L	0.1546 ppm
3 Ca 227.547	55923.7	55312.4	225.3	mg/L	45060 ppm
3 Cd 228.802	239.0	0.7	0.0000	mg/L	0.0011 ppm
3 Co 228.616	1016.6	1320.3	0.0128	mg/L	2.564 ppm
3 Cr 267.716	3467.1	3768.0	0.0411	mg/L	8.228 ppm
3 Cu 324.754	9784.9	6644.5	0.0221	mg/L	4.425 ppm
3 Fe 273.955	1745652.0	1745004.3	38.84	mg/L	7767 ppm
3 K 766.491	149448.6	152071.0	6.638	mg/L	1328 ppm
3 Mg 279.079	664787.3	659500.3	15.67	mg/L	3134 ppm
3 Mn 257.610	557714.4	556904.9	0.4184	mg/L	83.68 ppm
3 Mo 202.030	93.3	151.0	0.0082	mg/L	1.638 ppm
3 Na 330.237	7658.0	939.5	1.376	mg/L	275.3 ppm
3 Ni 231.604	1159.2	1239.6	0.0248	mg/L	4.967 ppm
3 Pb 220.353	51.1	226.2	0.0167	mg/L	3.350 ppm
3 Sb 206.833	-1.4	9.8	0.0025	mg/L	0.4950 ppm
3 Se 196.026	37.3	-14.6	0.0050	mg/L	0.9936 ppm
3 Tl 190.800	229.9	24.1	-0.0018	mg/L	-0.3520 ppm
3 V 292.402	12676.9	12536.0	0.0954	mg/L	19.08 ppm
3 Zn 213.856	9522.0	10131.5	0.0940	mg/L	18.80 ppm

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

D: 2822-5 F=200 Seq. No.: 109 Sample No.: 1 A/S Pos: 68
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 5:27:30 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-155.8	-0.0008	0.00039	mg/L	-0.1536	0.07773	ppm	50.60%
l 308.215	816530.9	25.25	0.346	mg/L	5050	69.3	ppm	1.37%
s 188.979	75.8	0.0323	0.00112	mg/L	6.462	0.2236	ppm	3.46%
a 233.527	237426.4	0.5603	0.00550	mg/L	112.1	1.10	ppm	0.98%
e 313.107	2128.4	0.0008	0.00002	mg/L	0.1585	0.00357	ppm	2.26%
a 227.547	54489.9	221.9	3.27	mg/L	44390	653.6	ppm	1.47%
d 228.802	15.2	0.0001	0.00010	mg/L	0.0236	0.01950	ppm	82.78%
o 228.616	1327.2	0.0129	0.00006	mg/L	2.578	0.0126	ppm	0.49%
r 267.716	3772.9	0.0412	0.00006	mg/L	8.238	0.0117	ppm	0.14%
u 324.754	6656.1	0.0222	0.00020	mg/L	4.433	0.0401	ppm	0.90%
e 273.955	1741199.0	38.75	0.345	mg/L	7750	69.0	ppm	0.89%
766.491	150853.6	6.588	0.1497	mg/L	1318	29.9	ppm	2.27%
g 279.079	656556.2	15.60	0.173	mg/L	3120	34.7	ppm	1.11%
n 257.610	555519.3	0.4174	0.00382	mg/L	83.47	0.763	ppm	0.91%
o 202.030	152.7	0.0083	0.00030	mg/L	1.657	0.0606	ppm	3.66%
a 330.237	895.2	1.311	0.0632	mg/L	262.2	12.64	ppm	4.82%
i 231.604	1231.9	0.0247	0.00014	mg/L	4.936	0.0285	ppm	0.58%
o 220.353	238.8	0.0175	0.00106	mg/L	3.505	0.2123	ppm	6.06%
o 206.833	14.5	0.0037	0.00146	mg/L	0.7333	0.29212	ppm	39.84%
e 196.026	-17.7	0.0040	0.00196	mg/L	0.7926	0.39243	ppm	49.51%
l 190.800	23.6	-0.0019	0.00090	mg/L	-0.3764	0.17981	ppm	47.78%
292.402	12387.9	0.0943	0.00099	mg/L	18.85	0.197	ppm	1.05%
n 213.856	10081.0	0.0935	0.00044	mg/L	18.71	0.088	ppm	0.47%

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

D: 2822-6 F=50 Date: 4/23/03 5:30:46 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1 Ag 328.068	-1325.0	-1253.8	-0.0011	mg/L	-0.0544	ppm
1 Al 308.215	5310659.1	5306611.9	164.1	mg/L	8205	ppm
1 As 188.979	351.3	223.1	0.1003	mg/L	5.016	ppm
1 Ba 233.527	901645.0	901695.8	2.128	mg/L	106.4	ppm
1 Be 313.107	16001.9	16220.3	0.0060	mg/L	0.3020	ppm
1 Ca 227.547	229777.3	229166.0	937.1	mg/L	46860	ppm
1 Cd 228.802	523.3	285.0	0.0022	mg/L	0.1104	ppm
1 Co 228.616	9409.4	9713.1	0.0943	mg/L	4.716	ppm
1 Cr 267.716	20405.8	20706.8	0.2261	mg/L	11.30	ppm
1 Cu 324.754	37522.1	34381.7	0.1236	mg/L	6.181	ppm
1 Fe 273.955	8652826.7	8652179.0	192.6	mg/L	9628	ppm
1 K 766.491	Saturated					
1 Mg 279.079	3412599.9	3407312.9	80.95	mg/L	4047	ppm
1 Mn 257.610	3496676.9	3495867.4	2.626	mg/L	131.3	ppm
1 Mo 202.030	196.1	253.8	0.0075	mg/L	0.3740	ppm

1 Na 330.237	9973.4	3255.0	4.783 mg/L	239.2 ppm	
1 Ni 231.604	7479.2	7559.6	0.1515 mg/L	7.573 ppm	
1 Pb 220.353	843.7	1018.8	0.0830 mg/L	4.148 ppm	
1 Sb 206.833	3.7	14.9	0.0011 mg/L	0.0538 ppm	
1 Se 196.026	-82.8	-134.7	-0.0009 mg/L	-0.0430 ppm	
1 Tl 190.800	377.7	171.8	-0.0019 mg/L	-0.0951 ppm	
1 V 292.402	54264.9	54124.0	0.4118 mg/L	20.59 ppm	
1 Zn 213.856	53389.6	53999.1	0.4846 mg/L	24.23 ppm	

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

ethod: 23ME ICP-M Date: 4/23/03 5:32:13 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
c 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
. 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

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

): 2822-6 F=200 Date: 4/23/03 5:33:37 PM

pl# Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1 Ag 328.068	-362.3	-291.0	-0.0014 mg/L	-0.2870 ppm
1 Al 308.215	1446258.6	1442211.4	44.60 mg/L	8920 ppm
1 As 188.979	178.4	50.2	0.0230 mg/L	4.593 ppm
1 Ba 233.527	245204.1	245254.8	0.5787 mg/L	115.7 ppm
1 Be 313.107	3924.2	4142.6	0.0015 mg/L	0.3085 ppm
1 Ca 227.547	60948.6	60337.3	245.7 mg/L	49150 ppm
1 Cd 228.802	258.6	20.3	0.0002 mg/L	0.0315 ppm
1 Co 228.616	2268.3	2572.0	0.0250 mg/L	4.995 ppm
1 Cr 267.716	5211.8	5512.8	0.0602 mg/L	12.04 ppm
1 Cu 324.754	12595.3	9454.9	0.0315 mg/L	6.297 ppm
1 Fe 273.955	2424592.3	2423944.6	53.95 mg/L	10790 ppm
1 K 766.491	256198.4	258820.9	10.95 mg/L	2190 ppm
1 Mg 279.079	938371.0	933084.1	22.17 mg/L	4433 ppm
1 Mn 257.610	953436.2	952626.7	0.7157 mg/L	143.1 ppm
1 Mo 202.030	-3.9	53.8	0.0029 mg/L	0.5837 ppm
1 Na 330.237	7666.7	948.3	1.389 mg/L	277.9 ppm
1 Ni 231.604	1955.3	2035.7	0.0408 mg/L	8.157 ppm
1 Pb 220.353	105.4	280.5	0.0221 mg/L	4.414 ppm
1 Sb 206.833	8.4	19.6	0.0049 mg/L	0.9894 ppm
1 Se 196.026	32.1	-19.8	0.0060 mg/L	1.208 ppm
1 Tl 190.800	242.6	36.8	-0.0031 mg/L	-0.6106 ppm
1 V 292.402	14526.6	14385.7	0.1095 mg/L	21.89 ppm
1 Zn 213.856	13680.3	14289.8	0.1280 mg/L	25.60 ppm
2 Ag 328.068	-242.7	-171.5	-0.0008 mg/L	-0.1692 ppm
2 Al 308.215	1432337.4	1428290.2	44.17 mg/L	8834 ppm
2 As 188.979	179.3	51.1	0.0232 mg/L	4.635 ppm

2	Ba 233.527	242188.6	242239.3	0.5716 mg/L	114.3 ppm
2	Be 313.107	3880.7	4099.0	0.0015 mg/L	0.3053 ppm
2	Ca 227.547	59894.3	59283.1	241.5 mg/L	48290 ppm
2	Cd 228.802	261.5	23.2	0.0002 mg/L	0.0360 ppm
2	Co 228.616	2235.3	2539.0	0.0247 mg/L	4.931 ppm
2	Cr 267.716	5169.9	5470.9	0.0597 mg/L	11.95 ppm
2	Cu 324.754	12064.6	8924.2	0.0297 mg/L	5.944 ppm
2	Fe 273.955	2390254.8	2389607.0	53.18 mg/L	10640 ppm
2	K 766.491	255784.3	258406.8	10.94 mg/L	2187 ppm
2	Mg 279.079	925876.3	920589.3	21.87 mg/L	4374 ppm
2	Mn 257.610	937906.1	937096.6	0.7040 mg/L	140.8 ppm
2	Mo 202.030	-2.9	54.8	0.0030 mg/L	0.5944 ppm
2	Na 330.237	7604.5	886.1	1.298 mg/L	259.5 ppm
2	Ni 231.604	1919.2	1999.6	0.0401 mg/L	8.012 ppm
2	Pb 220.353	109.4	284.6	0.0223 mg/L	4.457 ppm
2	Sb 206.833	6.9	18.1	0.0046 mg/L	0.9134 ppm
2	Se 196.026	26.4	-25.5	0.0041 mg/L	0.8106 ppm
2	Tl 190.800	241.0	35.2	-0.0033 mg/L	-0.6659 ppm
2	V 292.402	14358.9	14218.0	0.1082 mg/L	21.64 ppm
2	Zn 213.856	13649.0	14258.5	0.1278 mg/L	25.55 ppm
3	Ag 328.068	-502.4	-431.1	-0.0021 mg/L	-0.4252 ppm
3	Al 308.215	1467055.6	1463008.4	45.24 mg/L	9048 ppm
3	As 188.979	171.9	43.7	0.0207 mg/L	4.145 ppm
3	Ba 233.527	246336.2	246387.0	0.5814 mg/L	116.3 ppm
3	Be 313.107	3857.4	4075.7	0.0015 mg/L	0.3036 ppm
3	Ca 227.547	61300.0	60688.7	247.2 mg/L	49440 ppm
3	Cd 228.802	256.5	18.2	0.0001 mg/L	0.0282 ppm
3	Co 228.616	2252.8	2556.5	0.0248 mg/L	4.965 ppm
3	Cr 267.716	5145.4	5446.4	0.0595 mg/L	11.89 ppm
3	Cu 324.754	12119.9	8979.5	0.0299 mg/L	5.980 ppm
3	Fe 273.955	2441607.8	2440960.1	54.32 mg/L	10860 ppm
3	K 766.491	251631.4	254253.9	10.77 mg/L	2154 ppm
3	Mg 279.079	944927.4	939640.5	22.32 mg/L	4465 ppm
3	Mn 257.610	955932.1	955122.7	0.7176 mg/L	143.5 ppm
3	Mo 202.030	-3.6	54.1	0.0029 mg/L	0.5867 ppm
3	Na 330.237	7692.9	974.5	1.428 mg/L	285.6 ppm
3	Ni 231.604	1916.6	1996.9	0.0400 mg/L	8.002 ppm
3	Pb 220.353	117.8	292.9	0.0229 mg/L	4.584 ppm
3	Sb 206.833	4.5	15.7	0.0039 mg/L	0.7891 ppm
3	Se 196.026	32.9	-19.0	0.0064 mg/L	1.275 ppm
3	Tl 190.800	249.4	43.5	-0.0014 mg/L	-0.2730 ppm
3	V 292.402	14532.5	14391.6	0.1095 mg/L	21.90 ppm
3	Zn 213.856	13723.4	14332.9	0.1284 mg/L	25.67 ppm

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

D: 2822-6 F=200 Seq. No.: 111 Sample No.: 1 A/S Pos: 69
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 5:33:37 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-297.9	-0.0015	0.00064	mg/L	-0.2938	0.12817	ppm	43.62%
l 308.215	1444503.3	44.67	0.540	mg/L	8934	108.1	ppm	1.21%
s 188.979	48.3	0.0223	0.00136	mg/L	4.458	0.2717	ppm	6.09%
a 233.527	244627.1	0.5772	0.00506	mg/L	115.4	1.01	ppm	0.88%
e 313.107	4105.8	0.0015	0.00001	mg/L	0.3058	0.00253	ppm	0.83%
a 227.547	60103.0	244.8	2.98	mg/L	48960	595.9	ppm	1.22%
d 228.802	20.6	0.0002	0.00002	mg/L	0.0319	0.00390	ppm	12.23%
o 228.616	2555.8	0.0248	0.00016	mg/L	4.964	0.0321	ppm	0.65%
r 267.716	5476.7	0.0598	0.00037	mg/L	11.96	0.073	ppm	0.61%
u 324.754	9119.5	0.0304	0.00097	mg/L	6.074	0.1943	ppm	3.20%
e 273.955	2418170.5	53.82	0.582	mg/L	10760	116.4	ppm	1.08%
766.491	257160.5	10.89	0.099	mg/L	2177	19.9	ppm	0.91%
g 279.079	931104.6	22.12	0.230	mg/L	4424	46.0	ppm	1.04%
n 257.610	948282.0	0.7124	0.00734	mg/L	142.5	1.47	ppm	1.03%
o 202.030	54.2	0.0029	0.00003	mg/L	0.5883	0.00550	ppm	0.94%
a 330.237	936.3	1.372	0.0669	mg/L	274.3	13.37	ppm	4.87%
i 231.604	2010.7	0.0403	0.00043	mg/L	8.057	0.0867	ppm	1.08%
o 220.353	286.0	0.0224	0.00044	mg/L	4.485	0.0880	ppm	1.96%
o 206.833	17.8	0.0045	0.00051	mg/L	0.8973	0.10113	ppm	11.27%
e 196.026	-21.4	0.0055	0.00125	mg/L	1.098	0.2509	ppm	22.86%

l 190.800	38.5	-0.0026	0.00106 mg/L	-0.5165	0.21267 ppm	41.17%
' 292.402	14331.8	0.1090	0.00075 mg/L	21.81	0.150 ppm	0.69%
n 213.856	14293.7	0.1280	0.00030 mg/L	25.61	0.060 ppm	0.23%

eplicate Data ----------
D: 2822-7 F=50 Date: 4/23/03 5:36:55 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-699.7	-628.5	-0.0031	mg/L	-0.1550	ppm
1	Al 308.215	4067208.6	4063161.4	125.6	mg/L	6282	ppm
1	As 188.979	306.7	178.5	0.0916	mg/L	4.581	ppm
1	Ba 233.527	848946.1	848996.8	2.003	mg/L	100.2	ppm
1	Be 313.107	8299.1	8517.5	0.0032	mg/L	0.1586	ppm
1	Ca 227.547	267254.7	266643.5	1089	mg/L	54450	ppm
1	Cd 228.802	417.7	179.4	0.0014	mg/L	0.0695	ppm
1	Co 228.616	7064.9	7368.6	0.0716	mg/L	3.578	ppm
1	Cr 267.716	19052.2	19353.2	0.2113	mg/L	10.56	ppm
1	Cu 324.754	32047.4	28907.0	0.1035	mg/L	5.177	ppm
1	Fe 273.955	6890305.4	6889657.6	153.3	mg/L	7667	ppm
1	K 766.491	915266.5	917889.0	33.74	mg/L	1687	ppm
1	Mg 279.079	2861157.3	2855870.4	67.85	mg/L	3392	ppm
1	Mn 257.610	3260377.3	3259567.8	2.449	mg/L	122.4	ppm
1	Mo 202.030	133.8	191.4	0.0054	mg/L	0.2689	ppm
1	Na 330.237	7931.8	1213.4	1.780	mg/L	88.98	ppm
1	Ni 231.604	5447.1	5527.5	0.1107	mg/L	5.537	ppm
1	Pb 220.353	543.1	718.3	0.0607	mg/L	3.034	ppm
1	Sb 206.833	34.9	46.1	0.0100	mg/L	0.5004	ppm
1	Se 196.026	-38.9	-90.8	0.0039	mg/L	0.1973	ppm
1	Tl 190.800	269.1	63.2	-0.0184	mg/L	-0.9202	ppm
1	V 292.402	52357.6	52216.7	0.3973	mg/L	19.86	ppm
1	Zn 213.856	39585.7	40195.1	0.3599	mg/L	17.99	ppm

alibration Summary ----------
ethod: 23ME ICP-M Date: 4/23/03 5:38:47 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
. 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: 2822-7 F=200 Date: 4/23/03 5:40:10 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-134.2	-62.9	-0.0003	mg/L	-0.0621	ppm
1	Al 308.215	1131026.6	1126979.4	34.85	mg/L	6970	ppm

1	As 188.979	176.3	48.1	0.0239 mg/L	4.776 ppm
1	Ba 233.527	225994.0	226044.7	0.5334 mg/L	106.7 ppm
1	Be 313.107	1898.0	2116.4	0.0008 mg/L	0.1576 ppm
1	Ca 227.547	69487.2	68875.9	280.5 mg/L	56100 ppm
1	Cd 228.802	249.9	11.6	0.0001 mg/L	0.0179 ppm
1	Co 228.616	1785.6	2089.3	0.0203 mg/L	4.058 ppm
1	Cr 267.716	5015.8	5316.8	0.0580 mg/L	11.61 ppm
1	Cu 324.754	10497.2	7356.8	0.0245 mg/L	4.900 ppm
1	Fe 273.955	1990542.7	1989894.9	44.29 mg/L	8857 ppm
1	K 766.491	189596.2	192218.7	8.288 mg/L	1658 ppm
1	Mg 279.079	815500.6	810213.7	19.25 mg/L	3850 ppm
1	Mn 257.610	919344.4	918535.0	0.6901 mg/L	138.0 ppm
1	Mo 202.030	-5.4	52.2	0.0028 mg/L	0.5665 ppm
1	Na 330.237	6947.9	229.5	0.3303 mg/L	66.06 ppm
1	Ni 231.604	1437.8	1518.2	0.0304 mg/L	6.083 ppm
1	Pb 220.353	60.0	235.2	0.0183 mg/L	3.651 ppm
1	Sb 206.833	4.3	15.5	0.0039 mg/L	0.7788 ppm
1	Se 196.026	25.9	-26.0	0.0027 mg/L	0.5392 ppm
1	Tl 190.800	227.1	21.3	-0.0041 mg/L	-0.8297 ppm
1	V 292.402	13826.5	13685.6	0.1041 mg/L	20.83 ppm
1	Zn 213.856	9931.2	10540.7	0.0978 mg/L	19.56 ppm
2	Ag 328.068	-373.3	-302.1	-0.0015 mg/L	-0.2980 ppm
2	Al 308.215	1081364.7	1077317.5	33.31 mg/L	6663 ppm
2	As 188.979	167.2	39.0	0.0208 mg/L	4.169 ppm
2	Ba 233.527	225650.2	225701.0	0.5326 mg/L	106.5 ppm
2	Be 313.107	1598.1	1816.4	0.0007 mg/L	0.1353 ppm
2	Ca 227.547	69867.7	69256.4	282.1 mg/L	56410 ppm
2	Cd 228.802	245.1	6.8	0.0001 mg/L	0.0106 ppm
2	Co 228.616	1745.4	2049.1	0.0199 mg/L	3.980 ppm
2	Cr 267.716	4997.6	5298.6	0.0578 mg/L	11.57 ppm
2	Cu 324.754	10739.3	7598.9	0.0253 mg/L	5.061 ppm
2	Fe 273.955	1902436.9	1901789.1	42.33 mg/L	8465 ppm
2	K 766.491	180616.0	183238.5	7.922 mg/L	1584 ppm
2	Mg 279.079	780132.1	774845.1	18.41 mg/L	3682 ppm
2	Mn 257.610	878695.9	877886.5	0.6596 mg/L	131.9 ppm
2	Mo 202.030	-16.7	41.0	0.0022 mg/L	0.4444 ppm
2	Na 330.237	6869.8	151.4	0.2152 mg/L	43.04 ppm
2	Ni 231.604	1405.4	1485.8	0.0298 mg/L	5.953 ppm
2	Pb 220.353	85.2	260.4	0.0197 mg/L	3.937 ppm
2	Sb 206.833	-3.9	7.3	0.0018 mg/L	0.3691 ppm
2	Se 196.026	26.1	-25.8	0.0023 mg/L	0.4571 ppm
2	Tl 190.800	226.1	20.3	-0.0039 mg/L	-0.7746 ppm
2	V 292.402	13814.5	13673.6	0.1040 mg/L	20.81 ppm
2	Zn 213.856	9913.1	10522.5	0.0976 mg/L	19.53 ppm
3	Ag 328.068	-158.3	-87.1	-0.0004 mg/L	-0.0859 ppm
3	Al 308.215	1101269.5	1097222.3	33.93 mg/L	6786 ppm
3	As 188.979	175.1	46.9	0.0236 mg/L	4.718 ppm
3	Ba 233.527	227089.5	227140.3	0.5360 mg/L	107.2 ppm
3	Be 313.107	1850.5	2068.8	0.0008 mg/L	0.1541 ppm
3	Ca 227.547	70178.0	69566.7	283.3 mg/L	56670 ppm
3	Cd 228.802	261.7	23.4	0.0002 mg/L	0.0362 ppm
3	Co 228.616	1775.2	2078.9	0.0202 mg/L	4.037 ppm
3	Cr 267.716	5009.3	5310.3	0.0580 mg/L	11.60 ppm
3	Cu 324.754	10436.2	7295.8	0.0243 mg/L	4.859 ppm
3	Fe 273.955	1931638.7	1930991.0	42.98 mg/L	8595 ppm
3	K 766.491	183938.2	186560.6	8.057 mg/L	1611 ppm
3	Mg 279.079	792857.0	787570.0	18.71 mg/L	3742 ppm
3	Mn 257.610	891444.2	890634.7	0.6691 mg/L	133.8 ppm
3	Mo 202.030	-4.8	52.8	0.0029 mg/L	0.5729 ppm
3	Na 330.237	6693.7	-24.7	-0.0444 mg/L	-8.877 ppm
3	Ni 231.604	1424.5	1504.9	0.0302 mg/L	6.030 ppm
3	Pb 220.353	56.8	231.9	0.0180 mg/L	3.591 ppm
3	Sb 206.833	-6.2	5.0	0.0013 mg/L	0.2541 ppm
3	Se 196.026	24.3	-27.6	0.0019 mg/L	0.3721 ppm
3	Tl 190.800	233.2	27.4	-0.0021 mg/L	-0.4261 ppm
3	V 292.402	13725.0	13584.1	0.1034 mg/L	20.67 ppm
3	Zn 213.856	9961.7	10571.2	0.0981 mg/L	19.62 ppm

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

): 2822-7 F=200 Seq. No.: 113 Sample No.: 1 A/S Pos: 70

ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 5:40:10 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Sample Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-150.7	-0.0007	0.00065	mg/L	-0.1487	0.12987	ppm	87.36%
l 308.215	1100506.4	34.03	0.773	mg/L	6806	154.6	ppm	2.27%
s 188.979	44.7	0.0228	0.00168	mg/L	4.554	0.3351	ppm	7.36%
a 233.527	226295.3	0.5340	0.00177	mg/L	106.8	0.35	ppm	0.33%
e 313.107	2000.5	0.0007	0.00006	mg/L	0.1490	0.01201	ppm	8.06%
a 227.547	69233.0	282.0	1.41	mg/L	56400	281.8	ppm	0.50%
d 228.802	13.9	0.0001	0.00007	mg/L	0.0216	0.01321	ppm	61.21%
o 228.616	2072.4	0.0201	0.00020	mg/L	4.025	0.0405	ppm	1.01%
r 267.716	5308.6	0.0580	0.00010	mg/L	11.59	0.020	ppm	0.17%
u 324.754	7417.2	0.0247	0.00053	mg/L	4.940	0.1068	ppm	2.16%
e 273.955	1940891.7	43.20	0.999	mg/L	8639	199.8	ppm	2.31%
766.491	187339.3	8.089	0.1850	mg/L	1618	37.0	ppm	2.29%
g 279.079	790876.3	18.79	0.426	mg/L	3758	85.1	ppm	2.27%
n 257.610	895685.4	0.6729	0.01562	mg/L	134.6	3.12	ppm	2.32%
o 202.030	48.7	0.0026	0.00036	mg/L	0.5279	0.07240	ppm	13.71%
a 330.237	118.7	0.1670	0.19193	mg/L	33.41	38.386	ppm	114.90%
i 231.604	1503.0	0.0301	0.00033	mg/L	6.022	0.0654	ppm	1.09%
b 220.353	242.5	0.0186	0.00092	mg/L	3.726	0.1848	ppm	4.96%
o 206.833	9.3	0.0023	0.00138	mg/L	0.4673	0.27577	ppm	59.01%
e 196.026	-26.4	0.0023	0.00042	mg/L	0.4561	0.08354	ppm	18.31%
l 190.800	23.0	-0.0034	0.00109	mg/L	-0.6768	0.21887	ppm	32.34%
292.402	13647.7	0.1038	0.00042	mg/L	20.77	0.084	ppm	0.41%
n 213.856	10544.8	0.0978	0.00023	mg/L	19.57	0.046	ppm	0.23%

eplicate Data
D: 2822-8 F=50 Date: 4/23/03 5:43:29 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-1028.3	-957.0	-0.0047	mg/L	-0.2360	ppm
1 Al 308.215	3649259.8	3645212.5	112.7	mg/L	5636	ppm
1 As 188.979	311.3	183.1	0.1043	mg/L	5.217	ppm
1 Ba 233.527	1104459.1	1104509.9	2.606	mg/L	130.3	ppm
1 Be 313.107	9066.0	9284.3	0.0035	mg/L	0.1729	ppm
1 Ca 227.547	351902.5	351291.3	1433	mg/L	71670	ppm
1 Cd 228.802	492.7	254.4	0.0020	mg/L	0.0985	ppm
1 Co 228.616	6312.0	6615.7	0.0642	mg/L	3.212	ppm
1 Cr 267.716	16058.3	16359.2	0.1786	mg/L	8.930	ppm
1 Cu 324.754	30637.4	27497.0	0.0981	mg/L	4.903	ppm
1 Fe 273.955	6145904.0	6145256.2	136.8	mg/L	6838	ppm
1 K 766.491	829382.7	832005.2	31.06	mg/L	1553	ppm
1 Mg 279.079	2726152.2	2720865.3	64.64	mg/L	3232	ppm
1 Mn 257.610	2999023.7	2998214.2	2.253	mg/L	112.6	ppm
1 Mo 202.030	180.9	238.6	0.0085	mg/L	0.4240	ppm
1 Na 330.237	10040.9	3322.4	4.882	mg/L	244.1	ppm
1 Ni 231.604	5420.9	5501.3	0.1102	mg/L	5.511	ppm
1 Pb 220.353	527.1	702.3	0.0593	mg/L	2.967	ppm
1 Sb 206.833	16.1	27.3	0.0076	mg/L	0.3823	ppm
1 Se 196.026	-0.0	-51.9	0.0118	mg/L	0.5902	ppm
1 Tl 190.800	282.4	76.6	-0.0077	mg/L	-0.3857	ppm
1 V 292.402	46377.3	46236.4	0.3518	mg/L	17.59	ppm
1 Zn 213.856	36662.9	37272.4	0.3342	mg/L	16.71	ppm

alibration Summary
ethod: 23ME ICP-M Date: 4/23/03 5:44:48 PM

ement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
328.068	3	Linear-thru-Zero	0.0	202761.6	0.00000	0.999942
308.215	3	Linear-thru-Zero	0.0	32338.0	0.00000	0.999862
188.979	3	Linear-thru-Zero	0.0	2888.4	0.00000	0.999757
233.527	3	Linear-thru-Zero	0.0	423784.1	0.00000	0.999473
313.107	3	Linear-thru-Zero	0.0	2685329.9	0.00000	0.999950
227.547	3	Linear-thru-Zero	0.0	245.5	0.00000	0.999922
228.802	3	Linear-thru-Zero	0.0	129120.3	0.00000	0.999828

computer down, restart and reanalysis. 4482 4/23/03