ethod: 23ME ICP-M
esults: 03M1359M
ample Info: 03m1359m
ethod Description: 6010B/200.7--23ME 4/16/03

IEC: 03miecm.iec
Spectra Stored: Yes
User: User1

MSF:
Method Stored: Yes
Date: 4/23/03 6:02:21 PM

eplicate Data
D: Calib Blank

Date: 4/23/03 6:03:38 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units
1	Ag 328.068	47.3	47.3	0	mg/L
1	Al 308.215	4627.9	4627.9	0	mg/L
1	As 188.979	119.4	119.4	0	mg/L
1	Ba 233.527	92.5	92.5	0	mg/L
1	Be 313.107	-441.5	-441.5	0	mg/L
1	Ca 227.547	658.1	658.1	0	mg/L
1	Cd 228.802	190.2	190.2	0	mg/L
1	Co 228.616	-310.3	-310.3	0	mg/L
1	Cr 267.716	-316.6	-316.6	0	mg/L
1	Cu 324.754	2967.2	2967.2	0	mg/L
1	Fe 273.955	5318.5	5318.5	0	mg/L
1	K 766.491	-2647.0	-2647.0	0	mg/L
1	Mg 279.079	1484.9	1484.9	0	mg/L
1	Mn 257.610	2338.7	2338.7	0	mg/L
1	Mo 202.030	-64.6	-64.6	0	mg/L
1	Na 330.237	6754.1	6754.1	0	mg/L
1	Ni 231.604	-85.4	-85.4	0	mg/L
1	Pb 220.353	-157.4	-157.4	0	mg/L
1	Sb 206.833	-11.4	-11.4	0	mg/L
1	Se 196.026	59.5	59.5	0	mg/L
1	Tl 190.800	188.6	188.6	0	mg/L
1	V 292.402	0.7	0.7	0	mg/L
1	Zn 213.856	-655.6	-655.6	0	mg/L
2	Ag 328.068	-46.5	-46.5	0	mg/L
2	Al 308.215	4718.4	4718.4	0	mg/L
2	As 188.979	117.5	117.5	0	mg/L
2	Ba 233.527	20.2	20.2	0	mg/L
2	Be 313.107	-563.4	-563.4	0	mg/L
2	Ca 227.547	645.8	645.8	0	mg/L
2	Cd 228.802	237.3	237.3	0	mg/L
2	Co 228.616	-323.7	-323.7	0	mg/L
2	Cr 267.716	-302.8	-302.8	0	mg/L
2	Cu 324.754	2902.2	2902.2	0	mg/L
2	Fe 273.955	6169.4	6169.4	0	mg/L
2	K 766.491	-2384.2	-2384.2	0	mg/L
2	Mg 279.079	1443.1	1443.1	0	mg/L
2	Mn 257.610	2149.5	2149.5	0	mg/L
2	Mo 202.030	-64.7	-64.7	0	mg/L
2	Na 330.237	6800.4	6800.4	0	mg/L
2	Ni 231.604	-101.0	-101.0	0	mg/L
2	Pb 220.353	-163.2	-163.2	0	mg/L
2	Sb 206.833	3.0	3.0	0	mg/L
2	Se 196.026	65.2	65.2	0	mg/L
2	Tl 190.800	193.4	193.4	0	mg/L
2	V 292.402	107.9	107.9	0	mg/L
2	Zn 213.856	-637.4	-637.4	0	mg/L
3	Ag 328.068	-65.8	-65.8	0	mg/L
3	Al 308.215	4573.9	4573.9	0	mg/L
3	As 188.979	131.9	131.9	0	mg/L
3	Ba 233.527	-6.2	-6.2	0	mg/L
3	Be 313.107	-805.3	-805.3	0	mg/L
3	Ca 227.547	662.5	662.5	0	mg/L
3	Cd 228.802	190.7	190.7	0	mg/L
3	Co 228.616	-326.2	-326.2	0	mg/L
3	Cr 267.716	-316.5	-316.5	0	mg/L
3	Cu 324.754	2780.4	2780.4	0	mg/L
3	Fe 273.955	3556.9	3556.9	0	mg/L

3	K 766.491	-2356.5	-2356.5	0 mg/L
3	Mg 279.079	1674.3	1674.3	0 mg/L
3	Mn 257.610	1785.5	1785.5	0 mg/L
3	Mo 202.030	-61.1	-61.1	0 mg/L
3	Na 330.237	6996.7	6996.7	0 mg/L
3	Ni 231.604	-116.6	-116.6	0 mg/L
3	Pb 220.353	-158.6	-158.6	0 mg/L
3	Sb 206.833	4.4	4.4	0 mg/L
3	Se 196.026	57.0	57.0	0 mg/L
3	Tl 190.800	192.9	192.9	0 mg/L
3	V 292.402	88.0	88.0	0 mg/L
3	Zn 213.856	-636.6	-636.6	0 mg/L

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

D: Calib Blank Seq. No.: 1 A/S Pos: 1
Data: Original Date: 4/23/03 6:03:38 PM

lement	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	-21.7	60.48	278.86%	0	mg/L
l 308.215	4640.0	73.02	1.57%	0	mg/L
s 188.979	123.0	7.82	6.36%	0	mg/L
a 233.527	35.5	51.13	143.97%	0	mg/L
e 313.107	-603.4	185.16	30.69%	0	mg/L
a 227.547	655.5	8.69	1.33%	0	mg/L
d 228.802	206.1	27.05	13.13%	0	mg/L
o 228.616	-320.1	8.54	2.67%	0	mg/L
r 267.716	-312.0	7.94	2.55%	0	mg/L
u 324.754	2883.3	94.81	3.29%	0	mg/L
e 273.955	5014.9	1332.47	26.57%	0	mg/L
766.491	-2462.6	160.32	6.51%	0	mg/L
g 279.079	1534.1	123.20	8.03%	0	mg/L
n 257.610	2091.2	281.16	13.44%	0	mg/L
o 202.030	-63.5	2.02	3.18%	0	mg/L
a 330.237	6850.4	128.80	1.88%	0	mg/L
i 231.604	-101.0	15.60	15.45%	0	mg/L
o 220.353	-159.7	3.08	1.93%	0	mg/L
o 206.833	-1.3	8.75	654.29%	0	mg/L
e 196.026	60.6	4.23	6.99%	0	mg/L
l 190.800	191.6	2.64	1.38%	0	mg/L
292.402	65.6	57.03	86.99%	0	mg/L
n 213.856	-643.2	10.73	1.67%	0	mg/L

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

D: STD1 1423A Date: 4/23/03 6:07:19 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	385503.5	385525.1	2.0000	mg/L
1	Al 308.215	313880.8	309240.8	10.00	mg/L
1	As 188.979	2845.2	2722.3	1.000	mg/L
1	Ba 233.527	4102336.5	4102301.0	10.0000	mg/L
1	Be 313.107	2705927.4	2706530.8	1.00000	mg/L
1	Ca 227.547	25026.3	24370.8	100.0	mg/L
1	Cd 228.802	258970.7	258764.6	2.000	mg/L
1	Co 228.616	411923.7	412243.8	4.0000	mg/L
1	Cr 267.716	85277.6	85589.6	1.0000	mg/L
1	Cu 324.754	1170517.9	1167634.6	4.0000	mg/L
1	Fe 273.955	434207.1	429192.2	10.00	mg/L
1	K 766.491	758165.0	760627.5	30.00	mg/L
1	Mg 279.079	2057664.4	2056130.3	50.00	mg/L
1	Mn 257.610	5378637.6	5376546.4	4.0000	mg/L
1	Mo 202.030	71435.5	71499.0	4.000	mg/L
1	Na 330.237	143390.4	136540.0	200.00	mg/L
1	Ni 231.604	197785.9	197886.9	4.0000	mg/L
1	Pb 220.353	15543.2	15703.0	1.000	mg/L
1	Sb 206.833	16140.5	16141.8	4.000	mg/L
1	Se 196.026	3082.9	3022.3	1.000	mg/L
1	Tl 190.800	3688.8	3497.2	1.000	mg/L
1	V 292.402	488050.3	487984.8	4.0000	mg/L
1	Zn 213.856	420684.6	421327.8	4.000	mg/L

2 Ag 328.068	390399.2	390420.9	2.0000	mg/L
2 Al 308.215	318381.2	313741.2	10.00	mg/L
2 As 188.979	2829.9	2706.9	1.000	mg/L
2 Ba 233.527	4116827.2	4116791.7	10.0000	mg/L
2 Be 313.107	2683379.0	2683982.4	1.00000	mg/L
2 Ca 227.547	25396.7	24741.2	100.0	mg/L
2 Cd 228.802	262541.7	262335.6	2.000	mg/L
2 Co 228.616	418041.1	418361.2	4.0000	mg/L
2 Cr 267.716	86290.4	86602.4	1.0000	mg/L
2 Cu 324.754	1177839.2	1174956.0	4.0000	mg/L
2 Fe 273.955	440742.0	435727.1	10.00	mg/L
2 K 766.491	741979.2	744441.7	30.00	mg/L
2 Mg 279.079	2062545.5	2061011.4	50.00	mg/L
2 Mn 257.610	5340844.3	5338753.1	4.0000	mg/L
2 Mo 202.030	72939.8	73003.3	4.000	mg/L
2 Na 330.237	144661.2	137810.8	200.00	mg/L
2 Ni 231.604	201501.3	201602.3	4.0000	mg/L
2 Pb 220.353	15815.8	15975.6	1.000	mg/L
2 Sb 206.833	16064.1	16065.4	4.000	mg/L
2 Se 196.026	3068.7	3008.2	1.000	mg/L
2 Tl 190.800	3699.4	3507.8	1.000	mg/L
2 V 292.402	488289.5	488223.9	4.0000	mg/L
2 Zn 213.856	427964.7	428607.9	4.000	mg/L
3 Ag 328.068	385810.3	385832.0	2.0000	mg/L
3 Al 308.215	315040.3	310400.3	10.00	mg/L
3 As 188.979	2854.5	2731.5	1.000	mg/L
3 Ba 233.527	4073258.2	4073222.7	10.0000	mg/L
3 Be 313.107	2712463.3	2713066.7	1.00000	mg/L
3 Ca 227.547	25033.0	24377.5	100.0	mg/L
3 Cd 228.802	260704.0	260497.9	2.000	mg/L
3 Co 228.616	413605.8	413925.9	4.0000	mg/L
3 Cr 267.716	85332.5	85644.5	1.0000	mg/L
3 Cu 324.754	1166625.0	1163741.7	4.0000	mg/L
3 Fe 273.955	435504.5	430489.6	10.00	mg/L
3 K 766.491	753032.0	755494.6	30.00	mg/L
3 Mg 279.079	2042317.2	2040783.1	50.00	mg/L
3 Mn 257.610	5392540.6	5390449.4	4.0000	mg/L
3 Mo 202.030	71928.8	71992.2	4.000	mg/L
3 Na 330.237	143387.5	136537.2	200.00	mg/L
3 Ni 231.604	199604.3	199705.3	4.0000	mg/L
3 Pb 220.353	15576.7	15736.4	1.000	mg/L
3 Sb 206.833	16183.1	16184.4	4.000	mg/L
3 Se 196.026	3069.0	3008.5	1.000	mg/L
3 Tl 190.800	3701.2	3509.6	1.000	mg/L
3 V 292.402	482006.4	481940.9	4.0000	mg/L
3 Zn 213.856	424615.1	425258.3	4.000	mg/L

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

D: STD1 1423A Seq. No.: 2 A/S Pos: 2
Data: Original Date: 4/23/03 6:07:19 PM

lement	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	387259.3	2742.26	0.71%	2.0000	mg/L
l 308.215	311127.4	2336.66	0.75%	10.00	mg/L
s 188.979	2720.3	12.43	0.46%	1.000	mg/L
a 233.527	4097438.4	22187.78	0.54%	10.0000	mg/L
e 313.107	2701193.3	15259.13	0.56%	1.00000	mg/L
a 227.547	24496.5	211.95	0.87%	100.0	mg/L
d 228.802	260532.7	1785.74	0.69%	2.000	mg/L
o 228.616	414843.6	3160.24	0.76%	4.0000	mg/L
r 267.716	85945.5	569.57	0.66%	1.0000	mg/L
u 324.754	1168777.5	5693.78	0.49%	4.0000	mg/L
e 273.955	431802.9	3459.76	0.80%	10.00	mg/L
766.491	753521.3	8271.36	1.10%	30.00	mg/L
g 279.079	2052641.6	10555.80	0.51%	50.00	mg/L
n 257.610	5368583.0	26752.38	0.50%	4.0000	mg/L
o 202.030	72164.9	766.84	1.06%	4.000	mg/L
a 330.237	136962.7	734.53	0.54%	200.00	mg/L
. 231.604	199731.5	1857.83	0.93%	4.0000	mg/L

b 220.353	15805.0	148.66	0.94%	1.000 mg/L
b 206.833	16130.6	60.30	0.37%	4.000 mg/L
e 196.026	3013.0	8.07	0.27%	1.000 mg/L
l 190.800	3504.9	6.70	0.19%	1.000 mg/L
292.402	486049.9	3560.50	0.73%	4.0000 mg/L
n 213.856	425064.7	3643.90	0.86%	4.000 mg/L

eplicate Data ----------
D: STD2 1423B Date: 4/23/03 6:11:04 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	199605.9	199627.6	1.0000	mg/L
1	Al 308.215	166222.3	161582.2	5.000	mg/L
1	As 188.979	1542.4	1419.5	0.500	mg/L
1	Ba 233.527	2199468.3	2199432.8	5.0000	mg/L
1	Be 313.107	1417053.5	1417656.9	0.50000	mg/L
1	Ca 227.547	13606.9	12951.5	50.00	mg/L
1	Cd 228.802	137860.6	137654.5	1.000	mg/L
1	Co 228.616	220272.7	220592.8	2.0000	mg/L
1	Cr 267.716	44871.2	45183.2	0.5000	mg/L
1	Cu 324.754	623533.9	620650.6	2.0000	mg/L
1	Fe 273.955	230667.4	225652.5	5.000	mg/L
1	K 766.491	351029.9	353492.5	15.00	mg/L
1	Mg 279.079	1100604.9	1099070.8	25.000	mg/L
1	Mn 257.610	2857552.8	2855461.6	2.0000	mg/L
1	Mo 202.030	37692.8	37756.2	2.000	mg/L
1	Na 330.237	74381.4	67531.0	100.00	mg/L
1	Ni 231.604	107151.5	107252.5	2.0000	mg/L
1	Pb 220.353	7971.4	8131.1	0.500	mg/L
1	Sb 206.833	8290.1	8291.4	2.000	mg/L
1	Se 196.026	1641.6	1581.0	0.5000	mg/L
1	Tl 190.800	2022.7	1831.1	0.500	mg/L
1	V 292.402	257898.4	257832.8	2.0000	mg/L
1	Zn 213.856	223273.1	223916.3	2.000	mg/L
2	Ag 328.068	198313.3	198335.0	1.0000	mg/L
2	Al 308.215	165471.3	160831.2	5.000	mg/L
2	As 188.979	1545.9	1423.0	0.500	mg/L
2	Ba 233.527	2181924.4	2181888.9	5.0000	mg/L
2	Be 313.107	1398810.0	1399413.4	0.50000	mg/L
2	Ca 227.547	13256.5	12601.0	50.00	mg/L
2	Cd 228.802	137317.2	137111.1	1.000	mg/L
2	Co 228.616	219137.0	219457.1	2.0000	mg/L
2	Cr 267.716	44481.5	44793.5	0.5000	mg/L
2	Cu 324.754	621658.7	618775.4	2.0000	mg/L
2	Fe 273.955	228303.9	223288.9	5.000	mg/L
2	K 766.491	347358.0	349820.6	15.00	mg/L
2	Mg 279.079	1093624.4	1092090.3	25.000	mg/L
2	Mn 257.610	2825919.1	2823827.9	2.0000	mg/L
2	Mo 202.030	37414.8	37478.3	2.000	mg/L
2	Na 330.237	74199.0	67348.6	100.00	mg/L
2	Ni 231.604	106119.5	106220.5	2.0000	mg/L
2	Pb 220.353	8039.7	8199.4	0.500	mg/L
2	Sb 206.833	8354.6	8355.9	2.000	mg/L
2	Se 196.026	1663.4	1602.8	0.5000	mg/L
2	Tl 190.800	2052.1	1860.5	0.500	mg/L
2	V 292.402	256235.5	256169.9	2.0000	mg/L
2	Zn 213.856	222178.2	222821.4	2.000	mg/L
3	Ag 328.068	192660.5	192682.2	1.0000	mg/L
3	Al 308.215	161310.6	156670.5	5.000	mg/L
3	As 188.979	1550.5	1427.5	0.500	mg/L
3	Ba 233.527	2129453.3	2129417.7	5.0000	mg/L
3	Be 313.107	1407568.7	1408172.1	0.50000	mg/L
3	Ca 227.547	13039.1	12383.6	50.00	mg/L
3	Cd 228.802	133280.7	133074.7	1.000	mg/L
3	Co 228.616	213277.4	213597.5	2.0000	mg/L
3	Cr 267.716	43428.4	43740.4	0.5000	mg/L
3	Cu 324.754	603405.8	600522.5	2.0000	mg/L
3	Fe 273.955	222871.5	217856.6	5.000	mg/L

3	K 766.491	351670.5	354133.1	15.00 mg/L
3	Mg 279.079	1067768.4	1066234.3	25.000 mg/L
3	Mn 257.610	2827458.1	2825366.9	2.0000 mg/L
3	Mo 202.030	36623.0	36686.4	2.000 mg/L
3	Na 330.237	71958.5	65108.1	100.00 mg/L
3	Ni 231.604	104022.9	104123.9	2.0000 mg/L
3	Pb 220.353	8060.9	8220.7	0.500 mg/L
3	Sb 206.833	8432.1	8433.4	2.000 mg/L
3	Se 196.026	1660.5	1599.9	0.5000 mg/L
3	Tl 190.800	2053.7	1862.1	0.500 mg/L
3	V 292.402	249237.0	249171.5	2.0000 mg/L
3	Zn 213.856	216686.1	217329.3	2.000 mg/L

ean Data

D: STD2 1423B Seq. No.: 3 A/S Pos: 3
Data: Original Date: 4/23/03 6:11:04 PM

lement	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	196881.6	3693.75	1.88%	1.0000	mg/L
l 308.215	159694.7	2645.76	1.66%	5.000	mg/L
s 188.979	1423.3	4.04	0.28%	0.500	mg/L
a 233.527	2170246.5	36430.57	1.68%	5.0000	mg/L
e 313.107	1408414.2	9124.15	0.65%	0.50000	mg/L
a 227.547	12645.3	286.50	2.27%	50.00	mg/L
d 228.802	135946.8	2502.11	1.84%	1.000	mg/L
o 228.616	217882.5	3754.06	1.72%	2.0000	mg/L
r 267.716	44572.4	746.40	1.67%	0.5000	mg/L
u 324.754	613316.2	11119.25	1.81%	2.0000	mg/L
e 273.955	222266.0	3997.32	1.80%	5.000	mg/L
766.491	352482.1	2327.03	0.66%	15.00	mg/L
g 279.079	1085798.5	17298.82	1.59%	25.000	mg/L
n 257.610	2834885.5	17836.08	0.63%	2.0000	mg/L
o 202.030	37307.0	555.09	1.49%	2.000	mg/L
a 330.237	66662.6	1349.30	2.02%	100.00	mg/L
i 231.604	105865.6	1594.20	1.51%	2.0000	mg/L
b 220.353	8183.7	46.80	0.57%	0.500	mg/L
b 206.833	8360.2	71.10	0.85%	2.000	mg/L
e 196.026	1594.6	11.83	0.74%	0.5000	mg/L
l 190.800	1851.2	17.47	0.94%	0.500	mg/L
292.402	254391.4	4596.43	1.81%	2.0000	mg/L
n 213.856	221355.7	3529.66	1.59%	2.000	mg/L

eplicate Data

D: STD3 1423C Date: 4/23/03 6:14:41 PM

epl#	Element	Net Intensity	Corrected Intensity	Conc.	Calib Units
1	Ag 328.068	96331.2	96352.9	0.5000	mg/L
1	Al 308.215	83306.0	78666.0	2.500	mg/L
1	As 188.979	861.8	738.8	0.250	mg/L
1	Ba 233.527	1104613.5	1104578.0	2.5000	mg/L
1	Be 313.107	701042.5	701645.9	0.25000	mg/L
1	Ca 227.547	7148.3	6492.8	25.00	mg/L
1	Cd 228.802	67224.4	67018.3	0.500	mg/L
1	Co 228.616	109143.1	109463.2	1.0000	mg/L
1	Cr 267.716	21651.7	21963.7	0.2500	mg/L
1	Cu 324.754	307200.9	304317.6	1.0000	mg/L
1	Fe 273.955	125402.7	120387.8	2.500	mg/L
1	K 766.491	151733.6	154196.2	7.500	mg/L
1	Mg 279.079	554259.0	552724.9	12.500	mg/L
1	Mn 257.610	1437289.8	1435198.6	1.0000	mg/L
1	Mo 202.030	19143.6	19207.1	1.000	mg/L
1	Na 330.237	38266.3	31416.0	50.00	mg/L
1	Ni 231.604	53540.3	53641.3	1.0000	mg/L
1	Pb 220.353	4010.8	4170.6	0.250	mg/L
1	Sb 206.833	4281.1	4282.5	1.000	mg/L
1	Se 196.026	871.6	811.0	0.250	mg/L
1	Tl 190.800	1143.7	952.1	0.250	mg/L
1	V 292.402	125373.6	125308.0	1.0000	mg/L
1	Zn 213.856	107986.7	108629.9	1.000	mg/L

2	Ag 328.068	98733.3	98755.0	0.5000 mg/L
2	Al 308.215	84942.3	80302.2	2.500 mg/L
2	As 188.979	848.7	725.7	0.250 mg/L
2	Ba 233.527	1099948.2	1099912.7	2.5000 mg/L
2	Be 313.107	699204.5	699807.9	0.25000 mg/L
2	Ca 227.547	7131.8	6476.3	25.00 mg/L
2	Cd 228.802	68739.6	68533.5	0.500 mg/L
2	Co 228.616	111398.6	111718.7	1.0000 mg/L
2	Cr 267.716	22222.5	22534.5	0.2500 mg/L
2	Cu 324.754	313956.8	311073.6	1.0000 mg/L
2	Fe 273.955	126833.0	121818.1	2.500 mg/L
2	K 766.491	153539.2	156001.7	7.500 mg/L
2	Mg 279.079	554201.0	552666.9	12.500 mg/L
2	Mn 257.610	1431256.9	1429165.6	1.0000 mg/L
2	Mo 202.030	19126.4	19189.9	1.000 mg/L
2	Na 330.237	38463.6	31613.2	50.00 mg/L
2	Ni 231.604	54586.4	54687.4	1.0000 mg/L
2	Pb 220.353	4014.0	4173.8	0.250 mg/L
2	Sb 206.833	4282.5	4283.9	1.000 mg/L
2	Se 196.026	862.3	801.8	0.250 mg/L
2	Tl 190.800	1154.1	962.5	0.250 mg/L
2	V 292.402	127297.5	127232.0	1.0000 mg/L
2	Zn 213.856	110421.9	111065.0	1.000 mg/L
3	Ag 328.068	97578.5	97600.2	0.5000 mg/L
3	Al 308.215	84420.2	79780.2	2.500 mg/L
3	As 188.979	849.5	726.5	0.250 mg/L
3	Ba 233.527	1121678.6	1121643.1	2.5000 mg/L
3	Be 313.107	711231.4	711834.8	0.25000 mg/L
3	Ca 227.547	7126.3	6470.8	25.00 mg/L
3	Cd 228.802	68040.2	67834.1	0.500 mg/L
3	Co 228.616	110371.6	110691.7	1.0000 mg/L
3	Cr 267.716	21946.6	22258.6	0.2500 mg/L
3	Cu 324.754	310503.1	307619.9	1.0000 mg/L
3	Fe 273.955	125778.0	120763.0	2.500 mg/L
3	K 766.491	156561.5	159024.1	7.500 mg/L
3	Mg 279.079	565190.2	563656.1	12.500 mg/L
3	Mn 257.610	1457882.8	1455791.5	1.0000 mg/L
3	Mo 202.030	19213.7	19277.2	1.000 mg/L
3	Na 330.237	38535.7	31685.3	50.00 mg/L
3	Ni 231.604	53773.6	53874.6	1.0000 mg/L
3	Pb 220.353	4009.6	4169.3	0.250 mg/L
3	Sb 206.833	4290.5	4291.8	1.000 mg/L
3	Se 196.026	876.9	816.4	0.250 mg/L
3	Tl 190.800	1154.1	962.5	0.250 mg/L
3	V 292.402	126525.9	126460.3	1.0000 mg/L
3	Zn 213.856	109376.6	110019.8	1.000 mg/L

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

D: STD3 1423C Seq. No.: 4 A/S Pos: 4
Data: Original Date: 4/23/03 6:14:41 PM

lement	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Calib Units
g 328.068	97569.4	1201.33	1.23%	0.5000	mg/L
l 308.215	79582.8	835.77	1.05%	2.500	mg/L
s 188.979	730.4	7.35	1.01%	0.250	mg/L
a 233.527	1108711.2	11439.62	1.03%	2.5000	mg/L
e 313.107	704429.6	6478.65	0.92%	0.25000	mg/L
a 227.547	6479.9	11.46	0.18%	25.00	mg/L
d 228.802	67795.3	758.32	1.12%	0.500	mg/L
o 228.616	110624.5	1129.23	1.02%	1.0000	mg/L
r 267.716	22252.3	285.45	1.28%	0.2500	mg/L
u 324.754	307670.3	3378.27	1.10%	1.0000	mg/L
e 273.955	120989.6	741.59	0.61%	2.500	mg/L
766.491	156407.3	2439.40	1.56%	7.500	mg/L
g 279.079	556349.3	6327.92	1.14%	12.500	mg/L
n 257.610	1440051.9	13960.69	0.97%	1.0000	mg/L
o 202.030	19224.7	46.21	0.24%	1.000	mg/L
a 330.237	31571.5	139.43	0.44%	50.00	mg/L
. 231.604	54067.8	549.14	1.02%	1.0000	mg/L

b 220.353	4171.2	2.30	0.06%	0.250 mg/L
b 206.833	4286.1	5.06	0.12%	1.000 mg/L
e 196.026	809.7	7.38	0.91%	0.250 mg/L
l 190.800	959.0	6.00	0.63%	0.250 mg/L
292.402	126333.4	968.23	0.77%	1.0000 mg/L
n 213.856	109904.9	1221.65	1.11%	1.000 mg/L

alibration Summary
ethod: 23ME ICP-M Date: 4/23/03 6:15:45 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	194320.9	0.00000	0.999948
l 308.215	3	Linear-thru-Zero	0.0	31304.4	0.00000	0.999856
s 188.979	3	Linear-thru-Zero	0.0	2753.9	0.00000	0.999392
a 233.527	3	Linear-thru-Zero	0.0	415980.2	0.00000	0.999113
e 313.107	3	Linear-thru-Zero	0.0	2728767.8	0.00000	0.999608
a 227.547	3	Linear-thru-Zero	0.0	247.2	0.00000	0.999669
d 228.802	3	Linear-thru-Zero	0.0	131601.9	0.00000	0.999604
o 228.616	3	Linear-thru-Zero	0.0	105036.4	0.00000	0.999377
r 267.716	3	Linear-thru-Zero	0.0	86700.8	0.00000	0.999708
u 324.754	3	Linear-thru-Zero	0.0	295686.3	0.00000	0.999464
e 273.955	3	Linear-thru-Zero	0.0	43671.1	0.00000	0.999142
766.491	3	Non-Linear	-3003.1	21346.4	130.14970	0.998767
g 279.079	3	Linear-thru-Zero	0.0	41670.5	0.00000	0.999125
n 257.610	3	Linear-thru-Zero	0.0	1361150.2	0.00000	0.999239
o 202.030	3	Linear-thru-Zero	0.0	18214.2	0.00000	0.999609
a 330.237	3	Non-Linear	-284.8	640.8	0.22933	0.999753
i 231.604	3	Linear-thru-Zero	0.0	50701.2	0.00000	0.999095
o 220.353	3	Linear-thru-Zero	0.0	15954.0	0.00000	0.999647
o 206.833	3	Linear-thru-Zero	0.0	4072.8	0.00000	0.999596
e 196.026	3	Linear-thru-Zero	0.0	3057.3	0.00000	0.999181
l 190.800	3	Linear-thru-Zero	0.0	3558.3	0.00000	0.999070
292.402	3	Linear-thru-Zero	0.0	122824.6	0.00000	0.999559
n 213.856	3	Linear-thru-Zero	0.0	107279.8	0.00000	0.999655

eplicate Data
D: CCV 1447B Date: 4/23/03 6:18:21 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	196984.8	197006.5	1.014	mg/L		
1	Al 308.215	164005.2	159365.2	5.091	mg/L		
1	As 188.979	1544.0	1421.1	0.5217	mg/L		
1	Ba 233.527	2171938.0	2171902.5	5.221	mg/L		
1	Be 313.107	1427299.6	1427903.0	0.5233	mg/L		
1	Ca 227.547	13489.7	12834.2	51.93	mg/L		
1	Cd 228.802	137396.0	137189.9	1.042	mg/L		
1	Co 228.616	219098.9	219419.0	2.089	mg/L		
1	Cr 267.716	44036.1	44348.1	0.5115	mg/L		
1	Cu 324.754	619224.7	616341.5	2.084	mg/L		
1	Fe 273.955	225333.5	220318.5	5.045	mg/L		
1	K 766.491	352785.8	355248.4	15.35	mg/L		
1	Mg 279.079	1091957.1	1090423.0	26.17	mg/L		
1	Mn 257.610	2874016.3	2871925.0	2.110	mg/L		
1	Mo 202.030	37259.7	37323.2	2.049	mg/L		
1	Na 330.237	73179.2	66328.8	100.3	mg/L		
1	Ni 231.604	107115.2	107216.2	2.115	mg/L		
1	Pb 220.353	8016.8	8176.6	0.5125	mg/L		
1	Sb 206.833	8369.8	8371.1	2.040	mg/L		
1	Se 196.026	1641.5	1580.9	0.5183	mg/L		
1	Tl 190.800	2037.6	1845.9	0.5188	mg/L		
1	V 292.402	253209.8	253144.2	2.061	mg/L		
1	Zn 213.856	222268.2	222911.3	2.078	mg/L		
2	Ag 328.068	197319.0	197340.7	1.016	mg/L		
2	Al 308.215	164903.0	160262.9	5.119	mg/L		
2	As 188.979	1545.2	1422.2	0.5221	mg/L		
2	Ba 233.527	2173238.1	2173202.6	5.224	mg/L		
2	Be 313.107	1379222.0	1379825.4	0.5057	mg/L		

2	Ca 227.547	13548.3	12892.9	52.16 mg/L
2	Cd 228.802	137497.3	137291.3	1.043 mg/L
2	Co 228.616	219489.5	219809.6	2.093 mg/L
2	Cr 267.716	44180.7	44492.7	0.5132 mg/L
2	Cu 324.754	620074.2	617191.0	2.087 mg/L
2	Fe 273.955	225335.8	220320.9	5.045 mg/L
2	K 766.491	341916.1	344378.7	14.92 mg/L
2	Mg 279.079	1093462.9	1091928.8	26.20 mg/L
2	Mn 257.610	2780468.6	2778377.3	2.041 mg/L
2	Mo 202.030	37239.2	37302.7	2.048 mg/L
2	Na 330.237	73620.5	66770.2	101.0 mg/L
2	Ni 231.604	107109.2	107210.2	2.115 mg/L
2	Pb 220.353	8011.9	8171.6	0.5122 mg/L
2	Sb 206.833	8351.2	8352.6	2.036 mg/L
2	Se 196.026	1640.2	1579.7	0.5179 mg/L
2	Tl 190.800	2034.6	1843.0	0.5179 mg/L
2	V 292.402	254204.7	254139.1	2.069 mg/L
2	Zn 213.856	222934.0	223577.2	2.084 mg/L
3	Ag 328.068	196203.1	196224.7	1.010 mg/L
3	Al 308.215	163710.1	159070.1	5.081 mg/L
3	As 188.979	1545.4	1422.5	0.5222 mg/L
3	Ba 233.527	2157144.7	2157109.2	5.186 mg/L
3	Be 313.107	1393313.1	1393916.5	0.5108 mg/L
3	Ca 227.547	13348.0	12692.6	51.35 mg/L
3	Cd 228.802	136673.5	136467.5	1.037 mg/L
3	Co 228.616	217356.1	217676.2	2.072 mg/L
3	Cr 267.716	43806.2	44118.2	0.5089 mg/L
3	Cu 324.754	616403.4	613520.1	2.075 mg/L
3	Fe 273.955	223980.3	218965.4	5.014 mg/L
3	K 766.491	345277.1	347739.7	15.05 mg/L
3	Mg 279.079	1085845.2	1084311.1	26.02 mg/L
3	Mn 257.610	2800294.5	2798203.3	2.056 mg/L
3	Mo 202.030	37095.6	37159.1	2.040 mg/L
3	Na 330.237	73034.2	66183.9	100.1 mg/L
3	Ni 231.604	106068.6	106169.6	2.094 mg/L
3	Pb 220.353	8007.9	8167.7	0.5119 mg/L
3	Sb 206.833	8363.6	8364.9	2.039 mg/L
3	Se 196.026	1641.9	1581.4	0.5185 mg/L
3	Tl 190.800	2022.1	1830.5	0.5144 mg/L
3	V 292.402	252753.7	252688.1	2.057 mg/L
3	Zn 213.856	221161.2	221804.4	2.068 mg/L

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

D: CCV 1447B Seq. No.: 5 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 6:18:21 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	196857.3	1.013	0.0029	mg/L				0.29%
. 308.215	159566.1	5.097	0.0198	mg/L				0.39%
s 188.979	1421.9	0.5220	0.00026	mg/L				0.05%
a 233.527	2167404.7	5.210	0.0215	mg/L				0.41%
e 313.107	1400548.3	0.5133	0.00906	mg/L				1.76%
a 227.547	12806.5	51.82	0.417	mg/L				0.80%
d 228.802	136982.9	1.041	0.0034	mg/L				0.33%
o 228.616	218968.3	2.085	0.0108	mg/L				0.52%
r 267.716	44319.7	0.5112	0.00218	mg/L				0.43%
u 324.754	615684.2	2.082	0.0065	mg/L				0.31%
e 273.955	219868.3	5.035	0.0179	mg/L				0.36%
766.491	349122.2	15.10	0.220	mg/L				1.46%
g 279.079	1088887.6	26.13	0.097	mg/L				0.37%
n 257.610	2816168.5	2.069	0.0362	mg/L				1.75%
o 202.030	37261.7	2.046	0.0049	mg/L				0.24%
a 330.237	66427.6	100.5	0.44	mg/L				0.44%
. 231.604	106865.3	2.108	0.0119	mg/L				0.56%
b 220.353	8172.0	0.5122	0.00028	mg/L				0.05%
b 206.833	8362.9	2.038	0.0024	mg/L				0.12%
e 196.026	1580.7	0.5183	0.00028	mg/L				0.05%
. 190.800	1839.8	0.5171	0.00231	mg/L				0.45%
292.402	253323.8	2.062	0.0060	mg/L				0.29%

n 213.856 222764.3 2.076 0.0083 mg/L 0.40%

eplicate Data ----------
D: CCB Date: 4/23/03 6:21:52 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-55.5	-33.8	-0.0002	mg/L		
1	Al 308.215	4404.1	-236.0	-0.0075	mg/L		
1	As 188.979	127.7	4.7	0.0017	mg/L		
1	Ba 233.527	1306.4	1270.9	0.0031	mg/L		
1	Be 313.107	614.1	1217.5	0.0004	mg/L		
1	Ca 227.547	645.4	-10.1	-0.0409	mg/L		
1	Cd 228.802	239.8	33.7	0.0003	mg/L		
1	Co 228.616	-253.1	67.0	0.0006	mg/L		
1	Cr 267.716	-306.2	5.8	0.0001	mg/L		
1	Cu 324.754	4167.3	1284.0	0.0043	mg/L		
1	Fe 273.955	2711.7	-2303.2	-0.0527	mg/L		
1	K 766.491	-2281.2	181.4	0.1490	mg/L		
1	Mg 279.079	1528.6	-5.5	-0.0001	mg/L		
1	Mn 257.610	3287.4	1196.2	0.0009	mg/L		
1	Mo 202.030	-31.1	32.4	0.0018	mg/L		
1	Na 330.237	7098.7	248.3	0.8316	mg/L		
1	Ni 231.604	-69.1	31.9	0.0006	mg/L		
1	Pb 220.353	-157.4	2.3	0.0001	mg/L		
1	Sb 206.833	18.2	19.5	0.0048	mg/L		
1	Se 196.026	78.0	17.4	0.0057	mg/L		
1	Tl 190.800	204.5	12.9	0.0036	mg/L		
1	V 292.402	154.4	88.8	0.0007	mg/L		
1	Zn 213.856	-520.2	123.0	0.0011	mg/L		
2	Ag 328.068	-197.3	-175.6	-0.0009	mg/L		
2	Al 308.215	4529.5	-110.5	-0.0035	mg/L		
2	As 188.979	124.3	1.3	0.0005	mg/L		
2	Ba 233.527	1006.7	971.1	0.0023	mg/L		
2	Be 313.107	322.6	926.0	0.0003	mg/L		
2	Ca 227.547	644.2	-11.3	-0.0457	mg/L		
2	Cd 228.802	246.7	40.6	0.0003	mg/L		
2	Co 228.616	-231.1	89.0	0.0008	mg/L		
2	Cr 267.716	-312.7	-0.7	0.0000	mg/L		
2	Cu 324.754	4049.6	1166.3	0.0039	mg/L		
2	Fe 273.955	2360.0	-2654.9	-0.0608	mg/L		
2	K 766.491	-2682.6	-220.1	0.1303	mg/L		
2	Mg 279.079	1421.1	-113.0	-0.0027	mg/L		
2	Mn 257.610	2647.5	556.2	0.0004	mg/L		
2	Mo 202.030	-32.8	30.6	0.0017	mg/L		
2	Na 330.237	6968.3	117.9	0.6281	mg/L		
2	Ni 231.604	-85.1	15.9	0.0003	mg/L		
2	Pb 220.353	-162.9	-3.1	-0.0002	mg/L		
2	Sb 206.833	13.1	14.5	0.0036	mg/L		
2	Se 196.026	53.4	-7.1	-0.0023	mg/L		
2	Tl 190.800	202.2	10.5	0.0030	mg/L		
2	V 292.402	128.1	62.6	0.0005	mg/L		
2	Zn 213.856	-546.8	96.4	0.0009	mg/L		
3	Ag 328.068	-94.3	-72.6	-0.0004	mg/L		
3	Al 308.215	4588.6	-51.5	-0.0016	mg/L		
3	As 188.979	126.2	3.3	0.0012	mg/L		
3	Ba 233.527	818.9	783.4	0.0019	mg/L		
3	Be 313.107	140.2	743.6	0.0003	mg/L		
3	Ca 227.547	639.9	-15.6	-0.0630	mg/L		
3	Cd 228.802	212.6	6.5	0.0000	mg/L		
3	Co 228.616	-249.8	70.3	0.0007	mg/L		
3	Cr 267.716	-319.8	-7.8	-0.0001	mg/L		
3	Cu 324.754	3860.4	977.2	0.0033	mg/L		
3	Fe 273.955	2155.8	-2859.1	-0.0655	mg/L		
3	K 766.491	-2994.8	-532.2	0.1157	mg/L		
3	Mg 279.079	1556.5	22.4	0.0005	mg/L		
3	Mn 257.610	2412.3	321.1	0.0002	mg/L		
3	Mo 202.030	-39.3	24.2	0.0013	mg/L		
3	Na 330.237	7003.7	153.3	0.6834	mg/L		

3 Ni 231.604	-78.0	23.0	0.0005	mg/L
3 Pb 220.353	-181.4	-21.7	-0.0014	mg/L
3 Sb 206.833	3.1	4.4	0.0011	mg/L
3 Se 196.026	62.3	1.8	0.0006	mg/L
3 Tl 190.800	196.0	4.4	0.0012	mg/L
3 V 292.402	184.7	119.1	0.0010	mg/L
3 Zn 213.856	-581.5	61.7	0.0006	mg/L

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

D: CCB Seq. No.: 6 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 6:21:52 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-94.0	-0.0005	0.00038	mg/L				77.93%
l 308.215	-132.6	-0.0042	0.00301	mg/L				71.03%
s 188.979	3.1	0.0011	0.00062	mg/L				54.86%
a 233.527	1008.5	0.0024	0.00059	mg/L				24.38%
e 313.107	962.4	0.0004	0.00009	mg/L				24.84%
a 227.547	-12.3	-0.0499	0.01165	mg/L				23.36%
d 228.802	26.9	0.0002	0.00014	mg/L				66.82%
o 228.616	75.4	0.0007	0.00011	mg/L				15.69%
r 267.716	-0.9	0.0000	0.00008	mg/L				765.35%
u 324.754	1142.5	0.0039	0.00052	mg/L				13.55%
e 273.955	-2605.7	-0.0597	0.00644	mg/L				10.79%
766.491	-190.3	0.1317	0.01673	mg/L				12.71%
g 279.079	-32.0	-0.0008	0.00172	mg/L				223.21%
n 257.610	691.2	0.0005	0.00033	mg/L				65.52%
o 202.030	29.1	0.0016	0.00024	mg/L				14.97%
a 330.237	173.2	0.7144	0.10521	mg/L				14.73%
i 231.604	23.6	0.0005	0.00016	mg/L				34.04%
b 220.353	-7.5	-0.0005	0.00079	mg/L				168.13%
b 206.833	12.8	0.0031	0.00189	mg/L				60.02%
e 196.026	4.0	0.0013	0.00406	mg/L				310.47%
l 190.800	9.3	0.0026	0.00124	mg/L				47.45%
292.402	90.2	0.0007	0.00023	mg/L				31.39%
n 213.856	93.7	0.0009	0.00029	mg/L				32.77%

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

D: 2822-4 F=200 Date: 4/23/03 6:25:23 PM

epl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ag 328.068	-306.6	-284.9	-0.0015	mg/L	-0.2932	ppm
1 Al 308.215	955936.1	951296.1	30.39	mg/L	6078	ppm
1 As 188.979	166.3	43.3	0.0259	mg/L	5.181	ppm
1 Ba 233.527	319810.8	319775.3	0.7687	mg/L	153.7	ppm
1 Be 313.107	2645.0	3248.4	0.0012	mg/L	0.2381	ppm
1 Ca 227.547	91477.8	90822.3	367.5	mg/L	73490	ppm
1 Cd 228.802	306.6	100.5	0.0008	mg/L	0.1527	ppm
1 Co 228.616	1247.7	1567.8	0.0149	mg/L	2.985	ppm
1 Cr 267.716	3924.0	4235.9	0.0489	mg/L	9.771	ppm
1 Cu 324.754	11142.3	8259.1	0.0279	mg/L	5.586	ppm
1 Fe 273.955	1719269.7	1714254.8	39.25	mg/L	7851	ppm
1 K 766.491	165541.1	168003.7	7.654	mg/L	1531	ppm
1 Mg 279.079	868625.6	867091.5	20.81	mg/L	4162	ppm
1 Mn 257.610	645095.7	643004.5	0.4724	mg/L	94.48	ppm
1 Mo 202.030	55.9	119.3	0.0066	mg/L	1.310	ppm
1 Na 330.237	7854.4	1004.0	2.010	mg/L	401.9	ppm
1 Ni 231.604	1420.6	1521.6	0.0300	mg/L	6.002	ppm
1 Pb 220.353	90.3	250.0	0.0197	mg/L	3.942	ppm
1 Sb 206.833	27.4	28.7	0.0071	mg/L	1.411	ppm
1 Se 196.026	28.0	-32.6	-0.0009	mg/L	-0.1883	ppm
1 Tl 190.800	232.4	40.8	0.0036	mg/L	0.7251	ppm
1 V 292.402	11261.3	11195.7	0.0912	mg/L	18.23	ppm
1 Zn 213.856	10114.3	10757.5	0.1003	mg/L	20.06	ppm
2 Ag 328.068	-225.8	-204.1	-0.0011	mg/L	-0.2101	ppm
2 Al 308.215	979916.0	975275.9	31.15	mg/L	6231	ppm
2 As 188.979	174.5	51.5	0.0294	mg/L	5.886	ppm

2	Ba 233.527	334063.3	334027.8	0.8030	mg/L	160.6 ppm
2	Be 313.107	2694.7	3298.2	0.0012	mg/L	0.2417 ppm
2	Ca 227.547	96090.7	95435.2	386.1	mg/L	77230 ppm
2	Cd 228.802	305.5	99.4	0.0008	mg/L	0.1510 ppm
2	Co 228.616	1269.5	1589.6	0.0151	mg/L	3.027 ppm
2	Cr 267.716	3928.2	4240.2	0.0489	mg/L	9.781 ppm
2	Cu 324.754	11413.0	8529.7	0.0288	mg/L	5.769 ppm
2	Fe 273.955	1751283.8	1746268.9	39.99	mg/L	7997 ppm
2	K 766.491	171620.6	174083.2	7.914	mg/L	1583 ppm
2	Mg 279.079	887401.7	885867.6	21.26	mg/L	4252 ppm
2	Mn 257.610	656900.4	654809.2	0.4811	mg/L	96.21 ppm
2	Mo 202.030	50.4	113.9	0.0063	mg/L	1.251 ppm
2	Na 330.237	7941.1	1090.7	2.145	mg/L	428.9 ppm
2	Ni 231.604	1443.2	1544.2	0.0305	mg/L	6.091 ppm
2	Pb 220.353	61.1	220.8	0.0180	mg/L	3.602 ppm
2	Sb 206.833	2.1	3.4	0.0008	mg/L	0.1685 ppm
2	Se 196.026	29.3	-31.3	-0.0003	mg/L	-0.0671 ppm
2	Tl 190.800	232.1	40.5	0.0035	mg/L	0.6928 ppm
2	V 292.402	11841.2	11775.6	0.0959	mg/L	19.17 ppm
2	Zn 213.856	10165.9	10809.1	0.1008	mg/L	20.15 ppm
3	Ag 328.068	-221.7	-200.0	-0.0010	mg/L	-0.2059 ppm
3	Al 308.215	954819.1	950179.0	30.35	mg/L	6071 ppm
3	As 188.979	178.7	55.8	0.0309	mg/L	6.178 ppm
3	Ba 233.527	331802.2	331766.7	0.7976	mg/L	159.5 ppm
3	Be 313.107	2714.6	3318.0	0.0012	mg/L	0.2432 ppm
3	Ca 227.547	95147.4	94491.9	382.3	mg/L	76460 ppm
3	Cd 228.802	299.0	92.9	0.0007	mg/L	0.1412 ppm
3	Co 228.616	1240.9	1561.0	0.0149	mg/L	2.972 ppm
3	Cr 267.716	3924.0	4236.0	0.0489	mg/L	9.772 ppm
3	Cu 324.754	11716.6	8833.4	0.0299	mg/L	5.975 ppm
3	Fe 273.955	1708464.6	1703449.6	39.01	mg/L	7801 ppm
3	K 766.491	168006.8	170469.3	7.759	mg/L	1552 ppm
3	Mg 279.079	865908.1	864374.0	20.74	mg/L	4149 ppm
3	Mn 257.610	640769.8	638678.5	0.4692	mg/L	93.84 ppm
3	Mo 202.030	61.3	124.8	0.0069	mg/L	1.370 ppm
3	Na 330.237	7955.4	1105.0	2.167	mg/L	433.4 ppm
3	Ni 231.604	1419.7	1520.7	0.0300	mg/L	5.999 ppm
3	Pb 220.353	67.4	227.2	0.0183	mg/L	3.663 ppm
3	Sb 206.833	14.4	15.8	0.0039	mg/L	0.7739 ppm
3	Se 196.026	34.2	-26.4	0.0010	mg/L	0.2062 ppm
3	Tl 190.800	229.1	37.4	0.0028	mg/L	0.5683 ppm
3	V 292.402	11523.7	11458.2	0.0933	mg/L	18.66 ppm
3	Zn 213.856	10220.2	10863.4	0.1013	mg/L	20.25 ppm

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

D: 2822-4 F=200 Seq. No.: 7 Sample No.: 57 A/S Pos: 60
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 6:25:23 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-229.7	-0.0012	0.00025	mg/L	-0.2364	0.04926	ppm	20.84%
l 308.215	958917.0	30.63	0.453	mg/L	6126	90.6	ppm	1.48%
s 188.979	50.2	0.0287	0.00256	mg/L	5.748	0.5124	ppm	8.91%
a 233.527	328523.3	0.7898	0.01841	mg/L	158.0	3.68	ppm	2.33%
e 313.107	3288.2	0.0012	0.00001	mg/L	0.2410	0.00263	ppm	1.09%
a 227.547	93583.1	378.6	9.86	mg/L	75730	1972.1	ppm	2.60%
d 228.802	97.6	0.0007	0.00003	mg/L	0.1483	0.00626	ppm	4.22%
o 228.616	1572.8	0.0150	0.00014	mg/L	2.995	0.0285	ppm	0.95%
r 267.716	4237.4	0.0489	0.00003	mg/L	9.775	0.0057	ppm	0.06%
u 324.754	8540.7	0.0289	0.00097	mg/L	5.777	0.1943	ppm	3.36%
e 273.955	1721324.4	39.42	0.510	mg/L	7883	102.0	ppm	1.29%
766.491	170852.0	7.776	0.1308	mg/L	1555	26.2	ppm	1.68%
g 279.079	872444.3	20.94	0.281	mg/L	4187	56.2	ppm	1.34%
n 257.610	645497.4	0.4742	0.00613	mg/L	94.85	1.227	ppm	1.29%
o 202.030	119.3	0.0066	0.00030	mg/L	1.310	0.0598	ppm	4.56%
a 330.237	1066.6	2.107	0.0852	mg/L	421.4	17.04	ppm	4.04%
. 231.604	1528.8	0.0302	0.00026	mg/L	6.031	0.0525	ppm	0.87%
b 220.353	232.7	0.0187	0.00091	mg/L	3.736	0.1815	ppm	4.86%
b 206.833	16.0	0.0039	0.00311	mg/L	0.7844	0.62120	ppm	79.20%
e 196.026	-30.1	-0.0001	0.00101	mg/L	-0.0164	0.20208	ppm	>999.9%

l 190.800	39.6	0.0033	0.00041 mg/L	0.6621	0.08276 ppm	12.50%
292.402	11476.5	0.0934	0.00236 mg/L	18.69	0.473 ppm	2.53%
n 213.856	10810.0	0.1008	0.00049 mg/L	20.15	0.099 ppm	0.49%

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

D: 2822-3 F=200 Date: 4/23/03 6:28:59 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-184.5	-162.8	-0.0008	mg/L	-0.1676	ppm
1	Al 308.215	903064.7	898424.6	28.70	mg/L	5740	ppm
1	As 188.979	216.3	93.3	0.0385	mg/L	7.701	ppm
1	Ba 233.527	247443.5	247408.0	0.5948	mg/L	119.0	ppm
1	Be 313.107	1765.5	2368.9	0.0009	mg/L	0.1736	ppm
1	Ca 227.547	46516.6	45861.1	185.6	mg/L	37110	ppm
1	Cd 228.802	236.1	30.1	0.0002	mg/L	0.0457	ppm
1	Co 228.616	1082.3	1402.4	0.0134	mg/L	2.670	ppm
1	Cr 267.716	3778.9	4090.8	0.0472	mg/L	9.437	ppm
1	Cu 324.754	9887.8	7004.5	0.0237	mg/L	4.738	ppm
1	Fe 273.955	1699455.6	1694440.6	38.80	mg/L	7760	ppm
1	K 766.491	140881.9	143344.5	6.591	mg/L	1318	ppm
1	Mg 279.079	512766.7	511232.6	12.27	mg/L	2454	ppm
1	Mn 257.610	829534.6	827443.3	0.6079	mg/L	121.6	ppm
1	Mo 202.030	64.2	127.7	0.0070	mg/L	1.402	ppm
1	Na 330.237	7620.1	769.8	1.645	mg/L	328.9	ppm
1	Ni 231.604	973.3	1074.3	0.0212	mg/L	4.238	ppm
1	Pb 220.353	39.3	199.1	0.0153	mg/L	3.066	ppm
1	Sb 206.833	5.3	6.6	0.0016	mg/L	0.3256	ppm
1	Se 196.026	36.1	-24.5	0.0016	mg/L	0.3185	ppm
1	Tl 190.800	223.0	31.3	-0.0001	mg/L	-0.0210	ppm
1	V 292.402	13352.9	13287.4	0.1082	mg/L	21.64	ppm
1	Zn 213.856	8835.5	9478.7	0.0884	mg/L	17.67	ppm
2	Ag 328.068	-200.7	-179.0	-0.0009	mg/L	-0.1842	ppm
2	Al 308.215	900801.2	896161.2	28.63	mg/L	5725	ppm
2	As 188.979	213.2	90.3	0.0375	mg/L	7.491	ppm
2	Ba 233.527	247679.4	247643.9	0.5953	mg/L	119.1	ppm
2	Be 313.107	1555.7	2159.1	0.0008	mg/L	0.1583	ppm
2	Ca 227.547	47072.3	46416.8	187.8	mg/L	37560	ppm
2	Cd 228.802	243.8	37.7	0.0003	mg/L	0.0574	ppm
2	Co 228.616	1016.0	1336.1	0.0127	mg/L	2.544	ppm
2	Cr 267.716	3763.4	4075.4	0.0470	mg/L	9.401	ppm
2	Cu 324.754	9954.6	7071.3	0.0239	mg/L	4.783	ppm
2	Fe 273.955	1686778.3	1681763.4	38.51	mg/L	7702	ppm
2	K 766.491	141885.9	144348.5	6.635	mg/L	1327	ppm
2	Mg 279.079	509163.7	507629.6	12.18	mg/L	2436	ppm
2	Mn 257.610	821403.8	819312.6	0.6019	mg/L	120.4	ppm
2	Mo 202.030	71.9	135.4	0.0074	mg/L	1.487	ppm
2	Na 330.237	7396.8	546.4	1.296	mg/L	259.3	ppm
2	Ni 231.604	988.7	1089.7	0.0215	mg/L	4.298	ppm
2	Pb 220.353	31.6	191.3	0.0148	mg/L	2.968	ppm
2	Sb 206.833	4.3	5.7	0.0014	mg/L	0.2775	ppm
2	Se 196.026	39.0	-21.5	0.0025	mg/L	0.4970	ppm
2	Tl 190.800	233.5	41.9	0.0029	mg/L	0.5864	ppm
2	V 292.402	13482.8	13417.3	0.1092	mg/L	21.85	ppm
2	Zn 213.856	8804.8	9448.0	0.0881	mg/L	17.61	ppm
3	Ag 328.068	-304.9	-283.2	-0.0015	mg/L	-0.2915	ppm
3	Al 308.215	903140.6	898500.5	28.70	mg/L	5740	ppm
3	As 188.979	215.4	92.5	0.0381	mg/L	7.619	ppm
3	Ba 233.527	243034.6	242999.1	0.5842	mg/L	116.8	ppm
3	Be 313.107	1433.9	2037.4	0.0007	mg/L	0.1493	ppm
3	Ca 227.547	45933.2	45277.7	183.2	mg/L	36640	ppm
3	Cd 228.802	241.4	35.3	0.0003	mg/L	0.0537	ppm
3	Co 228.616	1003.4	1323.5	0.0126	mg/L	2.520	ppm
3	Cr 267.716	3683.2	3995.2	0.0461	mg/L	9.216	ppm
3	Cu 324.754	9548.1	6664.8	0.0225	mg/L	4.508	ppm
3	Fe 273.955	1689443.8	1684428.9	38.57	mg/L	7714	ppm
3	K 766.491	143124.2	145586.8	6.688	mg/L	1338	ppm
3	Mg 279.079	510428.5	508894.4	12.21	mg/L	2442	ppm
3	Mn 257.610	822840.1	820748.8	0.6030	mg/L	120.6	ppm

3	Mo 202.030	59.9	123.4	0.0068	mg/L	1.355 ppm
3	Na 330.237	7555.7	705.3	1.544	mg/L	308.8 ppm
3	Ni 231.604	944.7	1045.7	0.0206	mg/L	4.125 ppm
3	Pb 220.353	39.2	199.0	0.0153	mg/L	3.065 ppm
3	Sb 206.833	-5.5	-4.2	-0.0010	mg/L	-0.2065 ppm
3	Se 196.026	37.7	-22.8	0.0021	mg/L	0.4154 ppm
3	Tl 190.800	225.5	33.9	0.0006	mg/L	0.1260 ppm
3	V 292.402	13162.1	13096.6	0.1066	mg/L	21.33 ppm
3	Zn 213.856	8831.2	9474.3	0.0883	mg/L	17.66 ppm

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

D: 2822-3 F=200 Seq. No.: 8 Sample No.: 58 A/S Pos: 67
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 6:28:59 PM

lement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-208.3	-0.0011	0.00034	mg/L	-0.2144	0.06724	ppm	31.36%
l 308.215	897695.4	28.68	0.042	mg/L	5735	8.5	ppm	0.15%
s 188.979	92.0	0.0380	0.00053	mg/L	7.604	0.1057	ppm	1.39%
a 233.527	246017.0	0.5914	0.00629	mg/L	118.3	1.26	ppm	1.06%
e 313.107	2188.5	0.0008	0.00006	mg/L	0.1604	0.01229	ppm	7.66%
a 227.547	45851.9	185.5	2.30	mg/L	37100	460.9	ppm	1.24%
d 228.802	34.4	0.0003	0.00003	mg/L	0.0522	0.00596	ppm	11.40%
o 228.616	1354.0	0.0129	0.00040	mg/L	2.578	0.0807	ppm	3.13%
r 267.716	4053.8	0.0468	0.00059	mg/L	9.351	0.1184	ppm	1.27%
u 324.754	6913.5	0.0234	0.00074	mg/L	4.676	0.1474	ppm	3.15%
e 273.955	1686877.6	38.63	0.153	mg/L	7725	30.6	ppm	0.40%
766.491	144426.6	6.638	0.0487	mg/L	1328	9.7	ppm	0.73%
g 279.079	509252.2	12.22	0.044	mg/L	2444	8.8	ppm	0.36%
n 257.610	822501.6	0.6043	0.00319	mg/L	120.9	0.64	ppm	0.53%
o 202.030	128.8	0.0071	0.00033	mg/L	1.415	0.0668	ppm	4.72%
a 330.237	673.8	1.495	0.1792	mg/L	299.0	35.84	ppm	11.99%
i 231.604	1069.9	0.0211	0.00044	mg/L	4.220	0.0880	ppm	2.09%
o 220.353	196.5	0.0152	0.00028	mg/L	3.033	0.0564	ppm	1.86%
o 206.833	2.7	0.0007	0.00147	mg/L	0.1322	0.29431	ppm	222.59%
e 196.026	-23.0	0.0021	0.00045	mg/L	0.4103	0.08935	ppm	21.78%
l 190.800	35.7	0.0012	0.00158	mg/L	0.2305	0.31691	ppm	137.51%
292.402	13267.1	0.1080	0.00131	mg/L	21.60	0.263	ppm	1.22%
n 213.856	9467.0	0.0882	0.00015	mg/L	17.65	0.031	ppm	0.18%

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

D: 2822-5 F=200 Date: 4/23/03 6:32:31 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-240.1	-218.4	-0.0011	mg/L	-0.2248	ppm
1	Al 308.215	813119.5	808479.5	25.83	mg/L	5165	ppm
1	As 188.979	205.5	82.5	0.0358	mg/L	7.169	ppm
1	Ba 233.527	230834.9	230799.4	0.5548	mg/L	111.0	ppm
1	Be 313.107	2255.4	2858.9	0.0010	mg/L	0.2095	ppm
1	Ca 227.547	54304.4	53648.9	217.1	mg/L	43410	ppm
1	Cd 228.802	253.9	47.9	0.0004	mg/L	0.0728	ppm
1	Co 228.616	1055.3	1375.4	0.0131	mg/L	2.619	ppm
1	Cr 267.716	3446.7	3758.7	0.0434	mg/L	8.670	ppm
1	Cu 324.754	10007.2	7123.9	0.0241	mg/L	4.819	ppm
1	Fe 273.955	1725175.9	1720160.9	39.39	mg/L	7878	ppm
1	K 766.491	138991.1	141453.7	6.509	mg/L	1302	ppm
1	Mg 279.079	664489.4	662955.3	15.91	mg/L	3182	ppm
1	Mn 257.610	566704.9	564613.6	0.4148	mg/L	82.96	ppm
1	Mo 202.030	92.1	155.6	0.0085	mg/L	1.708	ppm
1	Na 330.237	7542.5	692.1	1.523	mg/L	304.7	ppm
1	Ni 231.604	1162.2	1263.2	0.0249	mg/L	4.983	ppm
1	Pb 220.353	53.6	213.3	0.0159	mg/L	3.188	ppm
1	Sb 206.833	10.3	11.7	0.0029	mg/L	0.5736	ppm
1	Se 196.026	40.0	-20.5	0.0030	mg/L	0.6076	ppm
1	Tl 190.800	229.9	38.3	0.0023	mg/L	0.4588	ppm
1	V 292.402	11933.4	11867.8	0.0966	mg/L	19.32	ppm
1	Zn 213.856	9451.9	10095.1	0.0941	mg/L	18.82	ppm
2	Ag 328.068	-129.9	-108.3	-0.0006	mg/L	-0.1114	ppm

2	Al 308.215	816115.5	811475.5	25.92	mg/L	5184 ppm
2	As 188.979	196.8	73.8	0.0327	mg/L	6.539 ppm
2	Ba 233.527	232047.0	232011.5	0.5577	mg/L	111.5 ppm
2	Be 313.107	2374.2	2977.6	0.0011	mg/L	0.2182 ppm
2	Ca 227.547	54456.2	53800.7	217.7	mg/L	43540 ppm
2	Cd 228.802	271.3	65.2	0.0005	mg/L	0.0991 ppm
2	Co 228.616	1051.5	1371.6	0.0131	mg/L	2.612 ppm
2	Cr 267.716	3386.1	3698.1	0.0427	mg/L	8.531 ppm
2	Cu 324.754	9699.0	6815.7	0.0231	mg/L	4.610 ppm
2	Fe 273.955	1722847.1	1717832.2	39.34	mg/L	7867 ppm
2	K 766.491	140308.6	142771.2	6.566	mg/L	1313 ppm
2	Mg 279.079	664228.8	662694.6	15.90	mg/L	3181 ppm
2	Mn 257.610	564950.5	562859.2	0.4135	mg/L	82.70 ppm
2	Mo 202.030	96.6	160.1	0.0088	mg/L	1.758 ppm
2	Na 330.237	7881.2	1030.9	2.051	mg/L	410.3 ppm
2	Ni 231.604	1161.7	1262.7	0.0249	mg/L	4.981 ppm
2	Pb 220.353	68.2	227.9	0.0169	mg/L	3.373 ppm
2	Sb 206.833	8.8	10.1	0.0025	mg/L	0.4954 ppm
2	Se 196.026	47.3	-13.2	0.0054	mg/L	1.081 ppm
2	Tl 190.800	222.1	30.5	0.0001	mg/L	0.0182 ppm
2	V 292.402	12308.4	12242.8	0.0997	mg/L	19.94 ppm
2	Zn 213.856	9449.6	10092.8	0.0941	mg/L	18.82 ppm
3	Ag 328.068	-247.8	-226.1	-0.0012	mg/L	-0.2327 ppm
3	Al 308.215	818338.6	813698.6	25.99	mg/L	5199 ppm
3	As 188.979	218.1	95.2	0.0406	mg/L	8.115 ppm
3	Ba 233.527	235848.9	235813.4	0.5669	mg/L	113.4 ppm
3	Be 313.107	2041.5	2644.9	0.0010	mg/L	0.1939 ppm
3	Ca 227.547	55521.7	54866.2	222.0	mg/L	44400 ppm
3	Cd 228.802	277.3	71.3	0.0005	mg/L	0.1083 ppm
3	Co 228.616	1026.1	1346.2	0.0128	mg/L	2.563 ppm
3	Cr 267.716	3390.5	3702.5	0.0427	mg/L	8.541 ppm
3	Cu 324.754	9924.7	7041.5	0.0238	mg/L	4.763 ppm
3	Fe 273.955	1725011.6	1719996.7	39.39	mg/L	7877 ppm
3	K 766.491	141454.2	143916.8	6.616	mg/L	1323 ppm
3	Mg 279.079	665441.4	663907.3	15.93	mg/L	3186 ppm
3	Mn 257.610	564936.1	562844.8	0.4135	mg/L	82.70 ppm
3	Mo 202.030	96.4	159.8	0.0088	mg/L	1.755 ppm
3	Na 330.237	7530.9	680.5	1.505	mg/L	301.1 ppm
3	Ni 231.604	1167.6	1268.6	0.0250	mg/L	5.004 ppm
3	Pb 220.353	68.2	227.9	0.0169	mg/L	3.374 ppm
3	Sb 206.833	8.1	9.5	0.0023	mg/L	0.4651 ppm
3	Se 196.026	26.0	-34.5	-0.0015	mg/L	-0.3083 ppm
3	Tl 190.800	226.6	35.0	0.0014	mg/L	0.2735 ppm
3	V 292.402	12116.2	12050.7	0.0981	mg/L	19.62 ppm
3	Zn 213.856	9506.1	10149.3	0.0946	mg/L	18.92 ppm

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

D: 2822-5 F=200 Seq. No.: 9 Sample No.: 59 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 6:32:31 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-184.3	-0.0009	0.00034	mg/L	-0.1896	0.06786	ppm	35.78%
l 308.215	811217.8	25.91	0.084	mg/L	5183	16.7	ppm	0.32%
s 188.979	83.8	0.0364	0.00397	mg/L	7.274	0.7935	ppm	10.91%
a 233.527	232874.8	0.5598	0.00629	mg/L	112.0	1.26	ppm	1.12%
e 313.107	2827.2	0.0010	0.00006	mg/L	0.2072	0.01236	ppm	5.96%
a 227.547	54105.3	218.9	2.68	mg/L	43780	536.8	ppm	1.23%
d 228.802	61.5	0.0005	0.00009	mg/L	0.0934	0.01846	ppm	19.76%
o 228.616	1364.4	0.0130	0.00015	mg/L	2.598	0.0302	ppm	1.16%
r 267.716	3719.8	0.0429	0.00039	mg/L	8.581	0.0779	ppm	0.91%
u 324.754	6993.7	0.0237	0.00054	mg/L	4.730	0.1079	ppm	2.28%
e 273.955	1719329.9	39.37	0.030	mg/L	7874	6.0	ppm	0.08%
766.491	142713.9	6.564	0.0535	mg/L	1313	10.7	ppm	0.81%
g 279.079	663185.8	15.91	0.015	mg/L	3183	3.1	ppm	0.10%
n 257.610	563439.2	0.4139	0.00075	mg/L	82.79	0.149	ppm	0.18%
o 202.030	158.5	0.0087	0.00014	mg/L	1.741	0.0279	ppm	1.60%
a 330.237	801.2	1.693	0.3102	mg/L	338.7	62.03	ppm	18.32%
i 231.604	1264.8	0.0249	0.00007	mg/L	4.989	0.0130	ppm	0.26%
b 220.353	223.1	0.0166	0.00054	mg/L	3.312	0.1071	ppm	3.24%

b 206.833	10.4	0.0026	0.00028	mg/L	0.5114	0.05598	ppm	10.95%
e 196.026	-22.8	0.0023	0.00353	mg/L	0.4601	0.70631	ppm	153.51%
l 190.800	34.6	0.0013	0.00111	mg/L	0.2501	0.22121	ppm	88.43%
292.402	12053.8	0.0981	0.00153	mg/L	19.63	0.305	ppm	1.56%
n 213.856	10112.4	0.0943	0.00030	mg/L	18.85	0.060	ppm	0.32%

alibration Summary
ethod: 23ME ICP-M Date: 4/23/03 6:35:32 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	194320.9	0.00000	0.999948
l 308.215	3	Linear-thru-Zero	0.0	31304.4	0.00000	0.999856
s 188.979	3	Linear-thru-Zero	0.0	2753.9	0.00000	0.999392
a 233.527	3	Linear-thru-Zero	0.0	415980.2	0.00000	0.999113
e 313.107	3	Linear-thru-Zero	0.0	2728767.8	0.00000	0.999608
a 227.547	3	Linear-thru-Zero	0.0	247.2	0.00000	0.999669
d 228.802	3	Linear-thru-Zero	0.0	131601.9	0.00000	0.999604
o 228.616	3	Linear-thru-Zero	0.0	105036.4	0.00000	0.999377
r 267.716	3	Linear-thru-Zero	0.0	86700.8	0.00000	0.999708
u 324.754	3	Linear-thru-Zero	0.0	295686.3	0.00000	0.999464
e 273.955	3	Linear-thru-Zero	0.0	43671.1	0.00000	0.999142
766.491	3	Non-Linear	-3003.1	21346.4	130.14970	0.998767
g 279.079	3	Linear-thru-Zero	0.0	41670.5	0.00000	0.999125
n 257.610	3	Linear-thru-Zero	0.0	1361150.2	0.00000	0.999239
o 202.030	3	Linear-thru-Zero	0.0	18214.2	0.00000	0.999609
a 330.237	3	Non-Linear	-284.8	640.8	0.22933	0.999753
i 231.604	3	Linear-thru-Zero	0.0	50701.2	0.00000	0.999095
b 220.353	3	Linear-thru-Zero	0.0	15954.0	0.00000	0.999647
b 206.833	3	Linear-thru-Zero	0.0	4072.8	0.00000	0.999596
e 196.026	3	Linear-thru-Zero	0.0	3057.3	0.00000	0.999181
l 190.800	3	Linear-thru-Zero	0.0	3558.3	0.00000	0.999070
292.402	3	Linear-thru-Zero	0.0	122824.6	0.00000	0.999559
n 213.856	3	Linear-thru-Zero	0.0	107279.8	0.00000	0.999655

eplicate Data
D: 2822-6 F=200 Date: 4/23/03 6:36:55 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-83.6	-61.9	-0.0003	mg/L	-0.0637	ppm
1	Al 308.215	1431192.4	1426552.3	45.57	mg/L	9114	ppm
1	As 188.979	174.0	51.0	0.0235	mg/L	4.705	ppm
1	Ba 233.527	227522.9	227487.3	0.5469	mg/L	109.4	ppm
1	Be 313.107	4083.7	4687.2	0.0017	mg/L	0.3435	ppm
1	Ca 227.547	57260.3	56604.8	229.0	mg/L	45800	ppm
1	Cd 228.802	280.6	74.5	0.0006	mg/L	0.1133	ppm
1	Co 228.616	2272.8	2592.9	0.0247	mg/L	4.937	ppm
1	Cr 267.716	5090.1	5402.1	0.0623	mg/L	12.46	ppm
1	Cu 324.754	11915.2	9031.9	0.0305	mg/L	6.109	ppm
1	Fe 273.955	2367810.0	2362795.0	54.10	mg/L	10820	ppm
1	K 766.491	240320.5	242783.0	10.80	mg/L	2161	ppm
1	Mg 279.079	939399.0	937864.9	22.51	mg/L	4501	ppm
1	Mn 257.610	964574.0	962482.8	0.7071	mg/L	141.4	ppm
1	Mo 202.030	1.1	64.6	0.0035	mg/L	0.7088	ppm
1	Na 330.237	7429.3	578.9	1.347	mg/L	269.4	ppm
1	Ni 231.604	1963.6	2064.6	0.0407	mg/L	8.144	ppm
1	Pb 220.353	137.6	297.3	0.0232	mg/L	4.633	ppm
1	Sb 206.833	12.8	14.1	0.0035	mg/L	0.6926	ppm
1	Se 196.026	37.8	-22.7	0.0049	mg/L	0.9825	ppm
1	Tl 190.800	242.9	51.3	0.0012	mg/L	0.2328	ppm
1	V 292.402	13378.9	13313.4	0.1084	mg/L	21.68	ppm
1	Zn 213.856	13757.7	14400.9	0.1296	mg/L	25.92	ppm
2	Ag 328.068	-196.5	-174.8	-0.0009	mg/L	-0.1799	ppm
2	Al 308.215	1410297.9	1405657.8	44.90	mg/L	8981	ppm
2	As 188.979	173.4	50.5	0.0239	mg/L	4.776	ppm
2	Ba 233.527	242364.1	242328.6	0.5825	mg/L	116.5	ppm
2	Be 313.107	3996.2	4599.6	0.0017	mg/L	0.3371	ppm
2	Ca 227.547	61449.3	60793.8	246.0	mg/L	49190	ppm

2	Cd 228.802	270.3	64.3	0.0005	mg/L	0.0977 ppm
2	Co 228.616	2263.8	2583.9	0.0246	mg/L	4.920 ppm
2	Cr 267.716	5045.2	5357.2	0.0618	mg/L	12.36 ppm
2	Cu 324.754	12415.9	9532.7	0.0322	mg/L	6.448 ppm
2	Fe 273.955	2328858.3	2323843.4	53.21	mg/L	10640 ppm
2	K 766.491	236807.0	239269.5	10.66	mg/L	2131 ppm
2	Mg 279.079	924583.3	923049.2	22.15	mg/L	4430 ppm
2	Mn 257.610	946098.2	944007.0	0.6935	mg/L	138.7 ppm
2	Mo 202.030	5.2	68.7	0.0038	mg/L	0.7544 ppm
2	Na 330.237	7317.6	467.3	1.173	mg/L	234.6 ppm
2	Ni 231.604	1946.1	2047.1	0.0404	mg/L	8.075 ppm
2	Pb 220.353	117.3	277.0	0.0218	mg/L	4.366 ppm
2	Sb 206.833	2.5	3.8	0.0009	mg/L	0.1861 ppm
2	Se 196.026	33.4	-27.1	0.0033	mg/L	0.6544 ppm
2	Tl 190.800	248.0	56.3	0.0029	mg/L	0.5885 ppm
2	V 292.402	14199.6	14134.1	0.1151	mg/L	23.02 ppm
2	Zn 213.856	13739.3	14382.5	0.1295	mg/L	25.90 ppm
3	Ag 328.068	-437.3	-415.6	-0.0021	mg/L	-0.4278 ppm
3	Al 308.215	1388075.7	1383435.6	44.19	mg/L	8839 ppm
3	As 188.979	173.7	50.8	0.0238	mg/L	4.757 ppm
3	Ba 233.527	236069.2	236033.7	0.5674	mg/L	113.5 ppm
3	Be 313.107	4010.0	4613.5	0.0017	mg/L	0.3381 ppm
3	Ca 227.547	59537.5	58882.0	238.2	mg/L	47650 ppm
3	Cd 228.802	257.2	51.1	0.0004	mg/L	0.0776 ppm
3	Co 228.616	2270.3	2590.4	0.0247	mg/L	4.932 ppm
3	Cr 267.716	5041.8	5353.8	0.0618	mg/L	12.35 ppm
3	Cu 324.754	12198.1	9314.8	0.0315	mg/L	6.300 ppm
3	Fe 273.955	2289589.6	2284574.7	52.31	mg/L	10460 ppm
3	K 766.491	232349.6	234812.2	10.47	mg/L	2094 ppm
3	Mg 279.079	910412.1	908878.0	21.81	mg/L	4362 ppm
3	Mn 257.610	930553.1	928461.9	0.6821	mg/L	136.4 ppm
3	Mo 202.030	-8.6	54.9	0.0030	mg/L	0.6027 ppm
3	Na 330.237	7464.7	614.3	1.402	mg/L	280.5 ppm
3	Ni 231.604	1943.0	2044.0	0.0403	mg/L	8.063 ppm
3	Pb 220.353	110.6	270.3	0.0213	mg/L	4.268 ppm
3	Sb 206.833	17.6	18.9	0.0046	mg/L	0.9277 ppm
3	Se 196.026	12.1	-48.5	-0.0039	mg/L	-0.7829 ppm
3	Tl 190.800	246.1	54.5	0.0026	mg/L	0.5219 ppm
3	V 292.402	13901.4	13835.8	0.1126	mg/L	22.53 ppm
3	Zn 213.856	13850.3	14493.5	0.1306	mg/L	26.13 ppm

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

D: 2822-6 F=200 Seq. No.: 10 Sample No.: 60 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 6:36:55 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-217.5	-0.0011	0.00093	mg/L	-0.2238	0.18596	ppm	83.09%
l 308.215	1405215.3	44.89	0.689	mg/L	8978	137.8	ppm	1.53%
s 188.979	50.8	0.0237	0.00018	mg/L	4.746	0.0367	ppm	0.77%
a 233.527	235283.2	0.5656	0.01791	mg/L	113.1	3.58	ppm	3.17%
e 313.107	4633.4	0.0017	0.00002	mg/L	0.3396	0.00345	ppm	1.02%
a 227.547	58760.2	237.7	8.49	mg/L	47550	1697.0	ppm	3.57%
d 228.802	63.3	0.0005	0.00009	mg/L	0.0962	0.01786	ppm	18.56%
o 228.616	2589.1	0.0246	0.00004	mg/L	4.930	0.0089	ppm	0.18%
r 267.716	5371.0	0.0619	0.00031	mg/L	12.39	0.062	ppm	0.50%
u 324.754	9293.1	0.0314	0.00085	mg/L	6.286	0.1698	ppm	2.70%
e 273.955	2323737.7	53.21	0.896	mg/L	10640	179.1	ppm	1.68%
766.491	238954.9	10.64	0.166	mg/L	2129	33.1	ppm	1.56%
g 279.079	923264.0	22.16	0.348	mg/L	4431	69.6	ppm	1.57%
n 257.610	944983.9	0.6943	0.01251	mg/L	138.9	2.50	ppm	1.80%
o 202.030	62.7	0.0034	0.00039	mg/L	0.6886	0.07783	ppm	11.30%
. 330.237	553.5	1.307	0.1197	mg/L	261.5	23.93	ppm	9.15%
. 231.604	2051.9	0.0405	0.00022	mg/L	8.094	0.0439	ppm	0.54%
b 220.353	281.6	0.0221	0.00095	mg/L	4.422	0.1894	ppm	4.28%
b 206.833	12.3	0.0030	0.00189	mg/L	0.6021	0.37897	ppm	62.94%
e 196.026	-32.8	0.0014	0.00470	mg/L	0.2847	0.93900	ppm	329.87%
190.800	54.0	0.0022	0.00095	mg/L	0.4478	0.18914	ppm	42.24%
292.402	13761.1	0.1120	0.00338	mg/L	22.41	0.676	ppm	3.02%
. 213.856	14425.6	0.1299	0.00062	mg/L	25.98	0.123	ppm	0.47%

eplicate Data
D: 2822-7 F=200 Date: 4/23/03 6:40:28 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-54.7	-33.0	-0.0002	mg/L	-0.0340	ppm
1	Al 308.215	1063463.1	1058823.1	33.82	mg/L	6765	ppm
1	As 188.979	171.5	48.5	0.0252	mg/L	5.038	ppm
1	Ba 233.527	232154.2	232118.7	0.5580	mg/L	111.6	ppm
1	Be 313.107	2030.8	2634.2	0.0010	mg/L	0.1931	ppm
1	Ca 227.547	72392.0	71736.5	290.2	mg/L	58050	ppm
1	Cd 228.802	245.5	39.4	0.0003	mg/L	0.0599	ppm
1	Co 228.616	1791.4	2111.5	0.0201	mg/L	4.021	ppm
1	Cr 267.716	4986.5	5298.5	0.0611	mg/L	12.22	ppm
1	Cu 324.754	10765.0	7881.7	0.0267	mg/L	5.331	ppm
1	Fe 273.955	1876249.5	1871234.6	42.85	mg/L	8570	ppm
1	K 766.491	165403.7	167866.3	7.648	mg/L	1530	ppm
1	Mg 279.079	776161.2	774627.1	18.59	mg/L	3718	ppm
1	Mn 257.610	885267.3	883176.0	0.6488	mg/L	129.8	ppm
1	Mo 202.030	-3.1	60.4	0.0033	mg/L	0.6635	ppm
1	Na 330.237	6847.5	-2.9	0.4398	mg/L	87.96	ppm
1	Ni 231.604	1491.7	1592.7	0.0314	mg/L	6.283	ppm
1	Pb 220.353	87.0	246.8	0.0188	mg/L	3.766	ppm
1	Sb 206.833	-2.3	-1.0	-0.0002	mg/L	-0.0497	ppm
1	Se 196.026	39.7	-20.9	0.0038	mg/L	0.7553	ppm
1	Tl 190.800	225.7	34.1	0.0001	mg/L	0.0274	ppm
1	V 292.402	13967.1	13901.5	0.1132	mg/L	22.64	ppm
1	Zn 213.856	10057.7	10700.9	0.0997	mg/L	19.95	ppm
2	Ag 328.068	-150.0	-128.3	-0.0007	mg/L	-0.1320	ppm
2	Al 308.215	1062355.6	1057715.6	33.79	mg/L	6758	ppm
2	As 188.979	175.1	52.2	0.0264	mg/L	5.279	ppm
2	Ba 233.527	228715.5	228680.0	0.5497	mg/L	109.9	ppm
2	Be 313.107	1919.0	2522.4	0.0009	mg/L	0.1849	ppm
2	Ca 227.547	71483.2	70827.7	286.6	mg/L	57310	ppm
2	Cd 228.802	238.4	32.3	0.0002	mg/L	0.0492	ppm
2	Co 228.616	1820.2	2140.2	0.0204	mg/L	4.075	ppm
2	Cr 267.716	4952.0	5264.0	0.0607	mg/L	12.14	ppm
2	Cu 324.754	10811.1	7927.8	0.0268	mg/L	5.362	ppm
2	Fe 273.955	1865460.6	1860445.7	42.60	mg/L	8520	ppm
2	K 766.491	166908.9	169371.5	7.712	mg/L	1542	ppm
2	Mg 279.079	775351.1	773817.0	18.57	mg/L	3714	ppm
2	Mn 257.610	882242.1	880150.8	0.6466	mg/L	129.3	ppm
2	Mo 202.030	-16.8	46.7	0.0026	mg/L	0.5130	ppm
2	Na 330.237	7123.6	273.2	0.8704	mg/L	174.1	ppm
2	Ni 231.604	1462.9	1563.9	0.0308	mg/L	6.169	ppm
2	Pb 220.353	78.0	237.7	0.0183	mg/L	3.652	ppm
2	Sb 206.833	9.8	11.2	0.0027	mg/L	0.5476	ppm
2	Se 196.026	27.3	-33.2	-0.0003	mg/L	-0.0652	ppm
2	Tl 190.800	225.8	34.2	0.0002	mg/L	0.0353	ppm
2	V 292.402	13875.8	13810.3	0.1124	mg/L	22.49	ppm
2	Zn 213.856	10004.7	10647.9	0.0993	mg/L	19.85	ppm
3	Ag 328.068	-185.1	-163.4	-0.0008	mg/L	-0.1682	ppm
3	Al 308.215	1091056.0	1086415.9	34.70	mg/L	6941	ppm
3	As 188.979	176.5	53.6	0.0268	mg/L	5.360	ppm
3	Ba 233.527	227166.2	227130.7	0.5460	mg/L	109.2	ppm
3	Be 313.107	1907.1	2510.6	0.0009	mg/L	0.1840	ppm
3	Ca 227.547	71013.7	70358.2	284.7	mg/L	56930	ppm
3	Cd 228.802	229.1	23.0	0.0002	mg/L	0.0350	ppm
3	Co 228.616	1798.2	2118.3	0.0202	mg/L	4.034	ppm
3	Cr 267.716	4922.9	5234.9	0.0604	mg/L	12.08	ppm
3	Cu 324.754	10497.2	7613.9	0.0258	mg/L	5.150	ppm
3	Fe 273.955	1907977.0	1902962.1	43.57	mg/L	8715	ppm
3	K 766.491	171610.4	174073.0	7.914	mg/L	1583	ppm
3	Mg 279.079	792788.6	791254.5	18.99	mg/L	3798	ppm
3	Mn 257.610	899808.6	897717.3	0.6595	mg/L	131.9	ppm
3	Mo 202.030	6.1	69.6	0.0038	mg/L	0.7637	ppm
3	Na 330.237	6844.5	-5.9	0.4351	mg/L	87.01	ppm
3	Ni 231.604	1447.0	1548.0	0.0305	mg/L	6.106	ppm

3	Pb 220.353	68.0	227.8	0.0177	mg/L	3.545 ppm
3	Sb 206.833	2.0	3.4	0.0008	mg/L	0.1651 ppm
3	Se 196.026	31.9	-28.7	0.0014	mg/L	0.2791 ppm
3	Tl 190.800	227.4	35.8	0.0003	mg/L	0.0685 ppm
3	V 292.402	13705.5	13639.9	0.1111	mg/L	22.21 ppm
3	Zn 213.856	10048.4	10691.6	0.0997	mg/L	19.93 ppm

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

D: 2822-7 F=200 Seq. No.: 11 Sample No.: 61 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 6:40:28 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-108.2	-0.0006	0.00035	mg/L	-0.1114	0.06941	ppm	62.31%
l 308.215	1067651.5	34.11	0.519	mg/L	6821	103.9	ppm	1.52%
s 188.979	51.4	0.0261	0.00084	mg/L	5.225	0.1677	ppm	3.21%
a 233.527	229309.8	0.5513	0.00614	mg/L	110.3	1.23	ppm	1.11%
e 313.107	2555.7	0.0009	0.00002	mg/L	0.1873	0.00500	ppm	2.67%
a 227.547	70974.2	287.2	2.84	mg/L	57430	567.0	ppm	0.99%
d 228.802	31.6	0.0002	0.00006	mg/L	0.0480	0.01245	ppm	25.93%
o 228.616	2123.4	0.0202	0.00014	mg/L	4.043	0.0286	ppm	0.71%
r 267.716	5265.8	0.0607	0.00037	mg/L	12.15	0.073	ppm	0.60%
u 324.754	7807.8	0.0264	0.00057	mg/L	5.281	0.1146	ppm	2.17%
e 273.955	1878214.1	43.01	0.506	mg/L	8602	101.2	ppm	1.18%
766.491	170436.9	7.758	0.1385	mg/L	1552	27.7	ppm	1.79%
g 279.079	779899.5	18.72	0.236	mg/L	3743	47.2	ppm	1.26%
n 257.610	887014.7	0.6517	0.00690	mg/L	130.3	1.38	ppm	1.06%
o 202.030	58.9	0.0032	0.00063	mg/L	0.6467	0.12621	ppm	19.51%
a 330.237	88.2	0.5818	0.25001	mg/L	116.4	50.00	ppm	42.97%
i 231.604	1568.2	0.0309	0.00045	mg/L	6.186	0.0893	ppm	1.44%
b 220.353	237.4	0.0183	0.00055	mg/L	3.654	0.1104	ppm	3.02%
b 206.833	4.5	0.0011	0.00151	mg/L	0.2210	0.30254	ppm	136.92%
e 196.026	-27.6	0.0016	0.00206	mg/L	0.3231	0.41202	ppm	127.54%
l 190.800	34.7	0.0002	0.00011	mg/L	0.0437	0.02180	ppm	49.85%
292.402	13783.9	0.1122	0.00108	mg/L	22.44	0.216	ppm	0.96%
n 213.856	10680.1	0.0996	0.00026	mg/L	19.91	0.053	ppm	0.27%

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

D: 2822-8 F=200 Date: 4/23/03 6:44:03 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-357.7	-336.0	-0.0017	mg/L	-0.3458	ppm
1	Al 308.215	974487.9	969847.8	30.98	mg/L	6196	ppm
1	As 188.979	150.4	27.5	0.0207	mg/L	4.138	ppm
1	Ba 233.527	307054.0	307018.5	0.7381	mg/L	147.6	ppm
1	Be 313.107	2139.6	2743.1	0.0010	mg/L	0.2010	ppm
1	Ca 227.547	96588.0	95932.5	388.1	mg/L	77630	ppm
1	Cd 228.802	261.2	55.2	0.0004	mg/L	0.0839	ppm
1	Co 228.616	1480.8	1800.9	0.0171	mg/L	3.429	ppm
1	Cr 267.716	4087.1	4399.1	0.0507	mg/L	10.15	ppm
1	Cu 324.754	10478.8	7595.5	0.0257	mg/L	5.138	ppm
1	Fe 273.955	1663014.4	1657999.5	37.97	mg/L	7593	ppm
1	K 766.491	149887.5	152350.0	6.981	mg/L	1396	ppm
1	Mg 279.079	752583.1	751049.0	18.02	mg/L	3605	ppm
1	Mn 257.610	823133.6	821042.4	0.6032	mg/L	120.6	ppm
1	Mo 202.030	20.7	84.2	0.0046	mg/L	0.9242	ppm
1	Na 330.237	7587.7	737.4	1.594	mg/L	318.8	ppm
1	Ni 231.604	1403.0	1504.0	0.0297	mg/L	5.933	ppm
1	Pb 220.353	18.6	178.4	0.0153	mg/L	3.068	ppm
1	Sb 206.833	7.5	8.8	0.0022	mg/L	0.4334	ppm
1	Se 196.026	42.2	-18.3	0.0034	mg/L	0.6798	ppm
1	Tl 190.800	234.0	42.4	0.0044	mg/L	0.8788	ppm
1	V 292.402	12500.5	12435.0	0.1012	mg/L	20.25	ppm
1	Zn 213.856	9120.2	9763.4	0.0910	mg/L	18.20	ppm
2	Ag 328.068	-282.0	-260.3	-0.0013	mg/L	-0.2679	ppm
2	Al 308.215	1012645.3	1008005.2	32.20	mg/L	6440	ppm
2	As 188.979	155.6	32.6	0.0224	mg/L	4.481	ppm
2	Ba 233.527	303688.2	303652.7	0.7300	mg/L	146.0	ppm

2	Be 313.107	2064.2	2667.6	0.0010	mg/L	0.1955 ppm
2	Ca 227.547	95833.5	95178.0	385.1	mg/L	77020 ppm
2	Cd 228.802	249.6	43.5	0.0003	mg/L	0.0661 ppm
2	Co 228.616	1477.6	1797.7	0.0171	mg/L	3.423 ppm
2	Cr 267.716	4053.2	4365.2	0.0503	mg/L	10.07 ppm
2	Cu 324.754	10515.1	7631.9	0.0258	mg/L	5.162 ppm
2	Fe 273.955	1714831.9	1709817.0	39.15	mg/L	7830 ppm
2	K 766.491	157899.1	160361.7	7.326	mg/L	1465 ppm
2	Mg 279.079	778467.5	776933.4	18.64	mg/L	3729 ppm
2	Mn 257.610	846547.9	844456.6	0.6204	mg/L	124.1 ppm
2	Mo 202.030	32.4	95.9	0.0053	mg/L	1.053 ppm
2	Na 330.237	7401.7	551.3	1.304	mg/L	260.8 ppm
2	Ni 231.604	1400.5	1501.6	0.0296	mg/L	5.923 ppm
2	Pb 220.353	27.2	186.9	0.0160	mg/L	3.197 ppm
2	Sb 206.833	5.7	7.1	0.0017	mg/L	0.3462 ppm
2	Se 196.026	32.5	-28.1	0.0005	mg/L	0.1023 ppm
2	Tl 190.800	240.7	49.0	0.0059	mg/L	1.180 ppm
2	V 292.402	12264.5	12199.0	0.0993	mg/L	19.86 ppm
2	Zn 213.856	9097.9	9741.1	0.0908	mg/L	18.16 ppm
3	Ag 328.068	-464.7	-443.0	-0.0023	mg/L	-0.4559 ppm
3	Al 308.215	979192.2	974552.1	31.13	mg/L	6226 ppm
3	As 188.979	158.7	35.7	0.0235	mg/L	4.696 ppm
3	Ba 233.527	300388.9	300353.3	0.7220	mg/L	144.4 ppm
3	Be 313.107	2055.8	2659.2	0.0010	mg/L	0.1949 ppm
3	Ca 227.547	95053.2	94397.7	381.9	mg/L	76390 ppm
3	Cd 228.802	243.8	37.7	0.0003	mg/L	0.0573 ppm
3	Co 228.616	1476.2	1796.3	0.0171	mg/L	3.420 ppm
3	Cr 267.716	4045.9	4357.9	0.0503	mg/L	10.05 ppm
3	Cu 324.754	10297.4	7414.1	0.0251	mg/L	5.015 ppm
3	Fe 273.955	1662485.9	1657471.0	37.95	mg/L	7591 ppm
3	K 766.491	151294.4	153757.0	7.041	mg/L	1408 ppm
3	Mg 279.079	754566.7	753032.6	18.07	mg/L	3614 ppm
3	Mn 257.610	820916.1	818824.9	0.6016	mg/L	120.3 ppm
3	Mo 202.030	18.8	82.3	0.0045	mg/L	0.9035 ppm
3	Na 330.237	7589.5	739.2	1.597	mg/L	319.4 ppm
3	Ni 231.604	1365.2	1466.2	0.0289	mg/L	5.784 ppm
3	Pb 220.353	13.9	173.7	0.0150	mg/L	3.008 ppm
3	Sb 206.833	9.9	11.2	0.0028	mg/L	0.5506 ppm
3	Se 196.026	34.2	-26.4	0.0008	mg/L	0.1512 ppm
3	Tl 190.800	228.2	36.6	0.0027	mg/L	0.5433 ppm
3	V 292.402	12294.2	12228.6	0.0996	mg/L	19.91 ppm
3	Zn 213.856	9096.7	9739.9	0.0908	mg/L	18.16 ppm

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

D: 2822-8 F=200 Seq. No.: 12 Sample No.: 62 A/S Pos: 71
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 6:44:03 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-346.4	-0.0018	0.00047	mg/L	-0.3566	0.09448	ppm	26.50%
l 308.215	984135.1	31.44	0.665	mg/L	6288	132.9	ppm	2.11%
s 188.979	31.9	0.0222	0.00141	mg/L	4.438	0.2816	ppm	6.34%
a 233.527	303674.9	0.7300	0.00801	mg/L	146.0	1.60	ppm	1.10%
e 313.107	2690.0	0.0010	0.00002	mg/L	0.1972	0.00339	ppm	1.72%
a 227.547	95169.4	385.1	3.11	mg/L	77010	621.0	ppm	0.81%
d 228.802	45.5	0.0003	0.00007	mg/L	0.0691	0.01354	ppm	19.59%
o 228.616	1798.3	0.0171	0.00002	mg/L	3.424	0.0045	ppm	0.13%
r 267.716	4374.0	0.0504	0.00025	mg/L	10.09	0.051	ppm	0.50%
u 324.754	7547.2	0.0255	0.00039	mg/L	5.105	0.0789	ppm	1.55%
e 273.955	1675095.8	38.36	0.689	mg/L	7671	137.7	ppm	1.80%
766.491	155489.6	7.116	0.1843	mg/L	1423	36.9	ppm	2.59%
g 279.079	760338.3	18.25	0.346	mg/L	3649	69.1	ppm	1.89%
n 257.610	828108.0	0.6084	0.01043	mg/L	121.7	2.09	ppm	1.71%
o 202.030	87.5	0.0048	0.00041	mg/L	0.9603	0.08118	ppm	8.45%
a 330.237	675.9	1.498	0.1683	mg/L	299.7	33.66	ppm	11.23%
. 231.604	1490.6	0.0294	0.00042	mg/L	5.880	0.0835	ppm	1.42%
b 220.353	179.7	0.0155	0.00048	mg/L	3.091	0.0966	ppm	3.13%
b 206.833	9.0	0.0022	0.00051	mg/L	0.4434	0.10253	ppm	23.12%
e 196.026	-24.3	0.0016	0.00160	mg/L	0.3111	0.32021	ppm	102.93%
. 190.800	42.7	0.0043	0.00159	mg/L	0.8673	0.31839	ppm	36.71%

292.402	12287.5	0.1000	0.00105 mg/L	20.01	0.209 ppm	1.05%
n 213.856	9748.1	0.0909	0.00012 mg/L	18.17	0.025 ppm	0.14%

eplicate Data ----------
D: 2822-9 F=200 Date: 4/23/03 6:47:39 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-266.9	-245.2	-0.0013	mg/L	-0.2524	ppm
1	Al 308.215	1068192.4	1063552.4	33.97	mg/L	6795	ppm
1	As 188.979	226.0	103.0	0.0529	mg/L	10.57	ppm
1	Ba 233.527	495474.0	495438.5	1.191	mg/L	238.2	ppm
1	Be 313.107	3856.8	4460.2	0.0016	mg/L	0.3269	ppm
1	Ca 227.547	134671.1	134015.6	542.2	mg/L	108400	ppm
1	Cd 228.802	308.5	102.4	0.0008	mg/L	0.1557	ppm
1	Co 228.616	1454.8	1774.9	0.0169	mg/L	3.380	ppm
1	Cr 267.716	4867.4	5179.4	0.0597	mg/L	11.95	ppm
1	Cu 324.754	12867.2	9983.9	0.0338	mg/L	6.753	ppm
1	Fe 273.955	1871686.3	1866671.4	42.74	mg/L	8549	ppm
1	K 766.491	210680.5	213143.0	9.568	mg/L	1914	ppm
1	Mg 279.079	1302547.4	1301013.3	31.22	mg/L	6244	ppm
1	Mn 257.610	857955.6	855864.4	0.6288	mg/L	125.8	ppm
1	Mo 202.030	-6.5	57.0	0.0031	mg/L	0.6259	ppm
1	Na 330.237	7887.2	1036.8	2.061	mg/L	412.1	ppm
1	Ni 231.604	2086.2	2187.2	0.0431	mg/L	8.628	ppm
1	Pb 220.353	126.9	286.6	0.0228	mg/L	4.569	ppm
1	Sb 206.833	17.0	18.3	0.0068	mg/L	1.353	ppm
1	Se 196.026	25.4	-35.2	-0.0020	mg/L	-0.4083	ppm
1	Tl 190.800	257.6	66.0	0.0110	mg/L	2.191	ppm
1	V 292.402	13208.0	13142.5	0.1070	mg/L	21.40	ppm
1	Zn 213.856	13090.5	13733.7	0.1280	mg/L	25.60	ppm
2	Ag 328.068	-455.9	-434.2	-0.0022	mg/L	-0.4469	ppm
2	Al 308.215	1123970.3	1119330.3	35.76	mg/L	7151	ppm
2	As 188.979	232.0	109.1	0.0551	mg/L	11.02	ppm
2	Ba 233.527	496317.2	496281.7	1.193	mg/L	238.6	ppm
2	Be 313.107	3775.9	4379.3	0.0016	mg/L	0.3210	ppm
2	Ca 227.547	135643.9	134988.4	546.2	mg/L	109200	ppm
2	Cd 228.802	300.0	93.9	0.0007	mg/L	0.1428	ppm
2	Co 228.616	1407.6	1727.7	0.0164	mg/L	3.290	ppm
2	Cr 267.716	4859.2	5171.2	0.0596	mg/L	11.93	ppm
2	Cu 324.754	12667.2	9784.0	0.0331	mg/L	6.618	ppm
2	Fe 273.955	1952550.0	1947535.0	44.60	mg/L	8919	ppm
2	K 766.491	226807.4	229270.0	10.24	mg/L	2048	ppm
2	Mg 279.079	1361270.1	1359736.0	32.63	mg/L	6526	ppm
2	Mn 257.610	892751.4	890660.1	0.6543	mg/L	130.9	ppm
2	Mo 202.030	-6.8	56.7	0.0031	mg/L	0.6228	ppm
2	Na 330.237	7820.6	970.3	1.957	mg/L	391.4	ppm
2	Ni 231.604	2073.6	2174.6	0.0429	mg/L	8.578	ppm
2	Pb 220.353	121.8	281.6	0.0227	mg/L	4.544	ppm
2	Sb 206.833	14.8	16.1	0.0062	mg/L	1.249	ppm
2	Se 196.026	30.3	-30.3	0.0000	mg/L	0.0005	ppm
2	Tl 190.800	253.2	61.6	0.0092	mg/L	1.844	ppm
2	V 292.402	13128.6	13063.1	0.1064	mg/L	21.27	ppm
2	Zn 213.856	12991.9	13635.1	0.1271	mg/L	25.42	ppm
3	Ag 328.068	-275.8	-254.2	-0.0013	mg/L	-0.2616	ppm
3	Al 308.215	1067121.4	1062481.3	33.94	mg/L	6788	ppm
3	As 188.979	228.0	105.1	0.0531	mg/L	10.62	ppm
3	Ba 233.527	477937.7	477902.2	1.149	mg/L	229.8	ppm
3	Be 313.107	3692.1	4295.5	0.0016	mg/L	0.3148	ppm
3	Ca 227.547	130593.5	129938.1	525.7	mg/L	105100	ppm
3	Cd 228.802	318.4	112.3	0.0009	mg/L	0.1707	ppm
3	Co 228.616	1406.8	1726.9	0.0164	mg/L	3.288	ppm
3	Cr 267.716	4820.1	5132.1	0.0592	mg/L	11.84	ppm
3	Cu 324.754	12073.9	9190.6	0.0311	mg/L	6.216	ppm
3	Fe 273.955	1860087.1	1855072.2	42.48	mg/L	8496	ppm
3	K 766.491	212095.3	214557.9	9.627	mg/L	1925	ppm
3	Mg 279.079	1297103.1	1295569.0	31.09	mg/L	6218	ppm
3	Mn 257.610	851397.7	849306.4	0.6240	mg/L	124.8	ppm
3	Mo 202.030	-8.4	55.0	0.0030	mg/L	0.6043	ppm

3 Na 330.237	7745.7	895.3	1.840 mg/L	368.0 ppm
3 Ni 231.604	2072.7	2173.7	0.0429 mg/L	8.575 ppm
3 Pb 220.353	108.9	268.6	0.0217 mg/L	4.334 ppm
3 Sb 206.833	6.8	8.1	0.0042 mg/L	0.8379 ppm
3 Se 196.026	36.4	-24.2	0.0015 mg/L	0.3018 ppm
3 Tl 190.800	244.6	53.0	0.0072 mg/L	1.447 ppm
3 V 292.402	12682.5	12616.9	0.1027 mg/L	20.54 ppm
3 Zn 213.856	13016.1	13659.3	0.1273 mg/L	25.46 ppm

ean Data

D: 2822-9 F=200 Seq. No.: 13 Sample No.: 63 A/S Pos: 72
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 200.0
Data: Original Date: 4/23/03 6:47:39 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-311.2	-0.0016	0.00055	mg/L	-0.3203	0.10974	ppm	34.26%
l 308.215	1081788.0	34.56	1.039	mg/L	6911	207.7	ppm	3.01%
s 188.979	105.7	0.0537	0.00122	mg/L	10.74	0.245	ppm	2.28%
a 233.527	489874.1	1.178	0.0249	mg/L	235.5	4.99	ppm	2.12%
e 313.107	4378.4	0.0016	0.00003	mg/L	0.3209	0.00604	ppm	1.88%
a 227.547	132980.7	538.0	10.84	mg/L	107600	2168.3	ppm	2.01%
d 228.802	102.9	0.0008	0.00007	mg/L	0.1564	0.01400	ppm	8.95%
o 228.616	1743.2	0.0166	0.00026	mg/L	3.319	0.0524	ppm	1.58%
r 267.716	5160.9	0.0595	0.00029	mg/L	11.91	0.058	ppm	0.49%
u 324.754	9652.8	0.0326	0.00140	mg/L	6.529	0.2791	ppm	4.27%
e 273.955	1889759.5	43.27	1.153	mg/L	8655	230.7	ppm	2.67%
766.491	218990.3	9.812	0.3732	mg/L	1962	74.6	ppm	3.80%
g 279.079	1318772.8	31.65	0.854	mg/L	6330	170.8	ppm	2.70%
n 257.610	865277.0	0.6357	0.01633	mg/L	127.1	3.27	ppm	2.57%
o 202.030	56.3	0.0031	0.00006	mg/L	0.6177	0.01168	ppm	1.89%
a 330.237	967.5	1.953	0.1103	mg/L	390.5	22.06	ppm	5.65%
i 231.604	2178.5	0.0430	0.00015	mg/L	8.594	0.0298	ppm	0.35%
b 220.353	278.9	0.0224	0.00065	mg/L	4.482	0.1292	ppm	2.88%
b 206.833	14.2	0.0057	0.00136	mg/L	1.146	0.2722	ppm	23.75%
e 196.026	-29.9	-0.0002	0.00178	mg/L	-0.0353	0.35641	ppm	>999.9%
l 190.800	60.2	0.0091	0.00186	mg/L	1.828	0.3722	ppm	20.36%
292.402	12940.8	0.1054	0.00231	mg/L	21.07	0.461	ppm	2.19%
n 213.856	13676.0	0.1275	0.00048	mg/L	25.50	0.096	ppm	0.38%

alibration Summary

ethod: 23ME ICP-M Date: 4/23/03 6:50:13 PM

lement	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	194320.9	0.00000	0.999948
l 308.215	3	Linear-thru-Zero	0.0	31304.4	0.00000	0.999856
s 188.979	3	Linear-thru-Zero	0.0	2753.9	0.00000	0.999392
a 233.527	3	Linear-thru-Zero	0.0	415980.2	0.00000	0.999113
e 313.107	3	Linear-thru-Zero	0.0	2728767.8	0.00000	0.999608
a 227.547	3	Linear-thru-Zero	0.0	247.2	0.00000	0.999669
d 228.802	3	Linear-thru-Zero	0.0	131601.9	0.00000	0.999604
o 228.616	3	Linear-thru-Zero	0.0	105036.4	0.00000	0.999377
r 267.716	3	Linear-thru-Zero	0.0	86700.8	0.00000	0.999708
u 324.754	3	Linear-thru-Zero	0.0	295686.3	0.00000	0.999464
e 273.955	3	Linear-thru-Zero	0.0	43671.1	0.00000	0.999142
766.491	3	Non-Linear	-3003.1	21346.4	130.14970	0.998767
g 279.079	3	Linear-thru-Zero	0.0	41670.5	0.00000	0.999125
n 257.610	3	Linear-thru-Zero	0.0	1361150.2	0.00000	0.999239
o 202.030	3	Linear-thru-Zero	0.0	18214.2	0.00000	0.999609
a 330.237	3	Non-Linear	-284.8	640.8	0.22933	0.999753
i 231.604	3	Linear-thru-Zero	0.0	50701.2	0.00000	0.999095
b 220.353	3	Linear-thru-Zero	0.0	15954.0	0.00000	0.999647
b 206.833	3	Linear-thru-Zero	0.0	4072.8	0.00000	0.999596
e 196.026	3	Linear-thru-Zero	0.0	3057.3	0.00000	0.999181
l 190.800	3	Linear-thru-Zero	0.0	3558.3	0.00000	0.999070
292.402	3	Linear-thru-Zero	0.0	122824.6	0.00000	0.999559
n 213.856	3	Linear-thru-Zero	0.0	107279.8	0.00000	0.999655

eplicate Data

D: 2822-9 F=500 Date: 4/23/03 6:51:37 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-414.8	-393.1	-0.0020	mg/L	-1.011	ppm
1	Al 308.215	917041.4	912401.4	29.15	mg/L	14570	ppm
1	As 188.979	208.2	85.3	0.0437	mg/L	21.84	ppm
1	Ba 233.527	407859.4	407823.8	0.9804	mg/L	490.2	ppm
1	Be 313.107	2851.0	3454.5	0.0013	mg/L	0.6330	ppm
1	Ca 227.547	111387.1	110731.6	448.0	mg/L	224000	ppm
1	Cd 228.802	286.7	80.6	0.0006	mg/L	0.3064	ppm
1	Co 228.616	1095.4	1415.5	0.0135	mg/L	6.738	ppm
1	Cr 267.716	3949.8	4261.8	0.0492	mg/L	24.58	ppm
1	Cu 324.754	11223.4	8340.1	0.0282	mg/L	14.10	ppm
1	Fe 273.955	1608624.4	1603609.5	36.72	mg/L	18360	ppm
1	K 766.491	174025.2	176487.8	8.017	mg/L	4008	ppm
1	Mg 279.079	1108664.0	1107129.9	26.57	mg/L	13280	ppm
1	Mn 257.610	727081.1	724989.9	0.5326	mg/L	266.3	ppm
1	Mo 202.030	-33.8	29.7	0.0016	mg/L	0.8154	ppm
1	Na 330.237	7724.4	874.0	1.807	mg/L	903.5	ppm
1	Ni 231.604	1670.3	1771.3	0.0349	mg/L	17.47	ppm
1	Pb 220.353	77.5	237.3	0.0190	mg/L	9.507	ppm
1	Sb 206.833	6.7	8.0	0.0020	mg/L	0.9869	ppm
1	Se 196.026	42.7	-17.9	0.0032	mg/L	1.619	ppm
1	Tl 190.800	244.4	52.8	0.0082	mg/L	4.094	ppm
1	V 292.402	11120.5	11055.0	0.0900	mg/L	45.00	ppm
1	Zn 213.856	10342.1	10985.3	0.1024	mg/L	51.20	ppm
2	Ag 328.068	-258.4	-236.7	-0.0012	mg/L	-0.6091	ppm
2	Al 308.215	894862.0	890222.0	28.44	mg/L	14220	ppm
2	As 188.979	207.9	84.9	0.0431	mg/L	21.55	ppm
2	Ba 233.527	394167.0	394131.5	0.9475	mg/L	473.7	ppm
2	Be 313.107	2840.7	3444.1	0.0013	mg/L	0.6311	ppm
2	Ca 227.547	107488.5	106833.0	432.2	mg/L	216100	ppm
2	Cd 228.802	298.1	92.0	0.0007	mg/L	0.3496	ppm
2	Co 228.616	1076.8	1396.9	0.0133	mg/L	6.649	ppm
2	Cr 267.716	3919.7	4231.7	0.0488	mg/L	24.40	ppm
2	Cu 324.754	10562.9	7679.6	0.0260	mg/L	12.99	ppm
2	Fe 273.955	1567779.4	1562764.5	35.78	mg/L	17890	ppm
2	K 766.491	170470.4	172933.0	7.865	mg/L	3932	ppm
2	Mg 279.079	1081156.0	1079621.9	25.91	mg/L	12950	ppm
2	Mn 257.610	706538.3	704447.1	0.5175	mg/L	258.8	ppm
2	Mo 202.030	-5.7	57.7	0.0032	mg/L	1.585	ppm
2	Na 330.237	7702.5	852.2	1.773	mg/L	886.5	ppm
2	Ni 231.604	1672.2	1773.2	0.0350	mg/L	17.49	ppm
2	Pb 220.353	80.7	240.4	0.0191	mg/L	9.548	ppm
2	Sb 206.833	7.4	8.8	0.0022	mg/L	1.078	ppm
2	Se 196.026	41.9	-18.6	0.0028	mg/L	1.382	ppm
2	Tl 190.800	242.7	51.1	0.0078	mg/L	3.921	ppm
2	V 292.402	10702.3	10636.7	0.0866	mg/L	43.30	ppm
2	Zn 213.856	10318.4	10961.6	0.1022	mg/L	51.09	ppm

Calibration Summary

Method: 23ME ICP-M Date: 4/23/03 6:53:00 PM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
g 328.068	3	Linear-thru-Zero	0.0	194320.9	0.00000	0.999948
l 308.215	3	Linear-thru-Zero	0.0	31304.4	0.00000	0.999856
s 188.979	3	Linear-thru-Zero	0.0	2753.9	0.00000	0.999392
a 233.527	3	Linear-thru-Zero	0.0	415980.2	0.00000	0.999113
e 313.107	3	Linear-thru-Zero	0.0	2728767.8	0.00000	0.999608
a 227.547	3	Linear-thru-Zero	0.0	247.2	0.00000	0.999669
d 228.802	3	Linear-thru-Zero	0.0	131601.9	0.00000	0.999604
o 228.616	3	Linear-thru-Zero	0.0	105036.4	0.00000	0.999377
r 267.716	3	Linear-thru-Zero	0.0	86700.8	0.00000	0.999708
u 324.754	3	Linear-thru-Zero	0.0	295686.3	0.00000	0.999464
e 273.955	3	Linear-thru-Zero	0.0	43671.1	0.00000	0.999142
766.491	3	Non-Linear	-3003.1	21346.4	130.14970	0.998767
g 279.079	3	Linear-thru-Zero	0.0	41670.5	0.00000	0.999125
n 257.610	3	Linear-thru-Zero	0.0	1361150.2	0.00000	0.999239

o 202.030	3	Linear-thru-Zero	0.0	18214.2	0.00000	0.999609
a 330.237	3	Non-Linear	-284.8	640.8	0.22933	0.999753
i 231.604	3	Linear-thru-Zero	0.0	50701.2	0.00000	0.999095
b 220.353	3	Linear-thru-Zero	0.0	15954.0	0.00000	0.999647
b 206.833	3	Linear-thru-Zero	0.0	4072.8	0.00000	0.999596
e 196.026	3	Linear-thru-Zero	0.0	3057.3	0.00000	0.999181
l 190.800	3	Linear-thru-Zero	0.0	3558.3	0.00000	0.999070
292.402	3	Linear-thru-Zero	0.0	122824.6	0.00000	0.999559
n 213.856	3	Linear-thru-Zero	0.0	107279.8	0.00000	0.999655

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

D: 2822-9 F=250 Date: 4/23/03 6:54:25 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	-232.7	-211.0	-0.0011	mg/L	-0.2715	ppm
1	Al 308.215	905623.5	900983.4	28.78	mg/L	7195	ppm
1	As 188.979	209.2	86.2	0.0439	mg/L	10.96	ppm
1	Ba 233.527	403104.4	403068.9	0.9690	mg/L	242.2	ppm
1	Be 313.107	2739.4	3342.8	0.0012	mg/L	0.3063	ppm
1	Ca 227.547	109837.8	109182.3	441.8	mg/L	110400	ppm
1	Cd 228.802	303.8	97.7	0.0007	mg/L	0.1856	ppm
1	Co 228.616	1074.2	1394.3	0.0133	mg/L	3.319	ppm
1	Cr 267.716	3935.6	4247.6	0.0490	mg/L	12.25	ppm
1	Cu 324.754	10782.6	7899.3	0.0267	mg/L	6.679	ppm
1	Fe 273.955	1591069.2	1586054.3	36.32	mg/L	9080	ppm
1	K 766.491	170443.0	172905.6	7.864	mg/L	1966	ppm
1	Mg 279.079	1095765.7	1094231.6	26.26	mg/L	6565	ppm
1	Mn 257.610	717796.8	715705.6	0.5258	mg/L	131.5	ppm
1	Mo 202.030	-22.4	41.1	0.0023	mg/L	0.5642	ppm
1	Na 330.237	7526.5	676.1	1.499	mg/L	374.6	ppm
1	Ni 231.604	1666.6	1767.6	0.0349	mg/L	8.716	ppm
1	Pb 220.353	52.9	212.6	0.0174	mg/L	4.354	ppm
1	Sb 206.833	18.8	20.1	0.0049	mg/L	1.237	ppm
1	Se 196.026	38.9	-21.6	0.0019	mg/L	0.4782	ppm
1	Tl 190.800	237.7	46.1	0.0064	mg/L	1.594	ppm
1	V 292.402	11058.2	10992.6	0.0895	mg/L	22.37	ppm
1	Zn 213.856	10343.2	10986.4	0.1024	mg/L	25.60	ppm
2	Ag 328.068	-284.6	-262.9	-0.0014	mg/L	-0.3382	ppm
2	Al 308.215	920088.4	915448.3	29.24	mg/L	7311	ppm
2	As 188.979	207.6	84.7	0.0434	mg/L	10.85	ppm
2	Ba 233.527	404439.2	404403.7	0.9722	mg/L	243.0	ppm
2	Be 313.107	2802.8	3406.2	0.0012	mg/L	0.3121	ppm
2	Ca 227.547	110857.2	110201.7	445.9	mg/L	111500	ppm
2	Cd 228.802	293.7	87.6	0.0007	mg/L	0.1665	ppm
2	Co 228.616	1054.2	1374.3	0.0131	mg/L	3.271	ppm
2	Cr 267.716	3879.9	4191.9	0.0483	mg/L	12.09	ppm
2	Cu 324.754	10856.4	7973.1	0.0270	mg/L	6.741	ppm
2	Fe 273.955	1607281.6	1602266.7	36.69	mg/L	9172	ppm
2	K 766.491	174863.3	177325.9	8.052	mg/L	2013	ppm
2	Mg 279.079	1111502.3	1109968.2	26.64	mg/L	6659	ppm
2	Mn 257.610	726935.3	724844.1	0.5325	mg/L	133.1	ppm
2	Mo 202.030	-25.8	37.7	0.0021	mg/L	0.5171	ppm
2	Na 330.237	7332.7	482.3	1.196	mg/L	299.1	ppm
2	Ni 231.604	1656.4	1757.4	0.0347	mg/L	8.666	ppm
2	Pb 220.353	64.2	224.0	0.0182	mg/L	4.546	ppm
2	Sb 206.833	9.6	10.9	0.0027	mg/L	0.6700	ppm
2	Se 196.026	33.8	-26.8	0.0003	mg/L	0.0782	ppm
2	Tl 190.800	244.1	52.5	0.0081	mg/L	2.022	ppm
2	V 292.402	10976.2	10910.6	0.0888	mg/L	22.21	ppm
2	Zn 213.856	10291.5	10934.7	0.1019	mg/L	25.48	ppm
3	Ag 328.068	-419.1	-397.4	-0.0020	mg/L	-0.5113	ppm
3	Al 308.215	910389.8	905749.8	28.93	mg/L	7233	ppm
3	As 188.979	216.0	93.0	0.0461	mg/L	11.51	ppm
3	Ba 233.527	394923.2	394887.7	0.9493	mg/L	237.3	ppm
3	Be 313.107	2955.3	3558.7	0.0013	mg/L	0.3260	ppm
3	Ca 227.547	107812.0	107156.5	433.6	mg/L	108400	ppm
3	Cd 228.802	283.6	77.5	0.0006	mg/L	0.1473	ppm
3	Co 228.616	1106.8	1426.9	0.0136	mg/L	3.396	ppm

3	Cr 267.716	3928.4	4240.4	0.0489 mg/L	12.23 ppm
3	Cu 324.754	10535.7	7652.5	0.0259 mg/L	6.470 ppm
3	Fe 273.955	1588707.7	1583692.8	36.26 mg/L	9066 ppm
3	K 766.491	173975.2	176437.8	8.015 mg/L	2004 ppm
3	Mg 279.079	1098032.4	1096498.3	26.31 mg/L	6578 ppm
3	Mn 257.610	716584.9	714493.7	0.5249 mg/L	131.2 ppm
3	Mo 202.030	-30.3	33.2	0.0018 mg/L	0.4557 ppm
3	Na 330.237	7654.9	804.5	1.699 mg/L	424.7 ppm
3	Ni 231.604	1666.2	1767.2	0.0349 mg/L	8.714 ppm
3	Pb 220.353	71.5	231.2	0.0186 mg/L	4.643 ppm
3	Sb 206.833	9.8	11.1	0.0027 mg/L	0.6838 ppm
3	Se 196.026	24.8	-35.8	-0.0027 mg/L	-0.6827 ppm
3	Tl 190.800	234.3	42.7	0.0054 mg/L	1.340 ppm
3	V 292.402	10665.6	10600.0	0.0863 mg/L	21.58 ppm
3	Zn 213.856	10416.6	11059.8	0.1031 mg/L	25.77 ppm

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

D: 2822-9 F=250 Seq. No.: 15 Sample No.: 1 A/S Pos: 72
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 250.0
Data: Original Date: 4/23/03 6:54:25 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-290.5	-0.0015	0.00050	mg/L	-0.3737	0.12377	ppm	33.12%
l 308.215	907393.8	28.99	0.235	mg/L	7247	58.9	ppm	0.81%
s 188.979	88.0	0.0444	0.00142	mg/L	11.11	0.355	ppm	3.20%
a 233.527	400786.8	0.9635	0.01239	mg/L	240.9	3.10	ppm	1.29%
e 313.107	3435.9	0.0013	0.00004	mg/L	0.3148	0.01017	ppm	3.23%
a 227.547	108846.9	440.4	6.27	mg/L	110100	1567.9	ppm	1.42%
d 228.802	87.6	0.0007	0.00008	mg/L	0.1665	0.01916	ppm	11.51%
o 228.616	1398.5	0.0133	0.00025	mg/L	3.329	0.0632	ppm	1.90%
r 267.716	4226.6	0.0487	0.00035	mg/L	12.19	0.087	ppm	0.72%
u 324.754	7841.6	0.0265	0.00057	mg/L	6.630	0.1420	ppm	2.14%
e 273.955	1590671.2	36.42	0.232	mg/L	9106	57.9	ppm	0.64%
766.491	175556.4	7.977	0.0999	mg/L	1994	25.0	ppm	1.25%
g 279.079	1100232.7	26.40	0.204	mg/L	6601	51.0	ppm	0.77%
n 257.610	718347.8	0.5278	0.00416	mg/L	131.9	1.04	ppm	0.79%
o 202.030	37.3	0.0020	0.00022	mg/L	0.5123	0.05439	ppm	10.62%
a 330.237	654.3	1.465	0.2528	mg/L	366.1	63.21	ppm	17.26%
i 231.604	1764.1	0.0348	0.00011	mg/L	8.699	0.0284	ppm	0.33%
b 220.353	222.6	0.0181	0.00059	mg/L	4.514	0.1473	ppm	3.26%
b 206.833	14.1	0.0035	0.00129	mg/L	0.8635	0.32334	ppm	37.45%
e 196.026	-28.1	-0.0002	0.00236	mg/L	-0.0421	0.58976	ppm	>999.9%
. 190.800	47.1	0.0066	0.00138	mg/L	1.652	0.3447	ppm	20.87%
292.402	10834.4	0.0882	0.00169	mg/L	22.05	0.422	ppm	1.91%
n 213.856	10993.6	0.1025	0.00059	mg/L	25.62	0.147	ppm	0.57%

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

D: ICSA 1441 Date: 4/23/03 6:57:44 PM

pl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-1011.1	-989.5	0.0000	mg/L		
1	Al 308.215	15902006.7	15897366.7	507.8	mg/L		
1	As 188.979	187.6	64.6	0.0006	mg/L		
1	Ba 233.527	1389.0	1353.5	0.0033	mg/L		
1	Be 313.107	-477.0	126.4	0.0000	mg/L		
1	Ca 227.547	130183.8	129528.3	527.8	mg/L		
1	Cd 228.802	121.4	-84.7	-0.0006	mg/L		
1	Co 228.616	-78.9	241.2	0.0023	mg/L		
1	Cr 267.716	192.6	504.6	0.0058	mg/L		
1	Cu 324.754	812.7	-2070.6	0.0021	mg/L		
1	Fe 273.955	8408832.4	8403817.4	192.4	mg/L		
1	K 766.491	-723.6	1739.0	0.2218	mg/L		
1	Mg 279.079	21489717.3	21488183.2	515.7	mg/L		
1	Mn 257.610	9870.5	7779.2	-0.0023	mg/L		
1	Mo 202.030	87.5	151.0	0.0020	mg/L		
1	Na 330.237	6743.2	-107.2	0.2771	mg/L		
1	Ni 231.604	-135.3	-34.3	-0.0007	mg/L		
1	Pb 220.353	-1030.2	-870.4	-0.0047	mg/L		
1	Sb 206.833	14.5	15.9	0.0098	mg/L		

1	Se 196.026	27.4	-33.1	0.0241 mg/L
1	Tl 190.800	558.4	366.7	0.0044 mg/L
1	V 292.402	-556.0	-621.6	-0.0051 mg/L
1	Zn 213.856	2370.8	3014.0	0.0041 mg/L
2	Ag 328.068	-1016.1	-994.4	-0.0051 mg/L
2	Al 308.215	15195500.2	15190860.2	485.3 mg/L
2	As 188.979	165.7	42.7	-0.0052 mg/L
2	Ba 233.527	1188.9	1153.4	0.0028 mg/L
2	Be 313.107	-356.5	246.9	0.0001 mg/L
2	Ca 227.547	133198.0	132542.6	539.9 mg/L
2	Cd 228.802	172.0	-34.1	-0.0003 mg/L
2	Co 228.616	13.3	333.4	0.0032 mg/L
2	Cr 267.716	78.9	390.8	0.0045 mg/L
2	Cu 324.754	397.1	-2486.2	0.0003 mg/L
2	Fe 273.955	8046828.2	8041813.3	184.1 mg/L
2	K 766.491	-713.3	1749.3	0.2223 mg/L
2	Mg 279.079	20572771.0	20571236.9	493.7 mg/L
2	Mn 257.610	9985.5	7894.3	-0.0018 mg/L
2	Mo 202.030	93.9	157.4	0.0026 mg/L
2	Na 330.237	6791.4	-58.9	0.3523 mg/L
2	Ni 231.604	-245.2	-144.2	-0.0028 mg/L
2	Pb 220.353	-1092.1	-932.3	-0.0107 mg/L
2	Sb 206.833	-2.2	-0.9	0.0056 mg/L
2	Se 196.026	-18.2	-78.8	0.0076 mg/L
2	Tl 190.800	582.9	391.3	0.0158 mg/L
2	V 292.402	-581.9	-647.5	-0.0053 mg/L
2	Zn 213.856	2514.6	3157.8	0.0065 mg/L
3	Ag 328.068	-787.6	-766.0	-0.0039 mg/L
3	Al 308.215	15527364.4	15522724.4	495.9 mg/L
3	As 188.979	173.3	50.3	-0.0040 mg/L
3	Ba 233.527	1386.8	1351.3	0.0032 mg/L
3	Be 313.107	-641.2	-37.7	0.0000 mg/L
3	Ca 227.547	127528.2	126872.8	517.0 mg/L
3	Cd 228.802	163.7	-42.4	-0.0003 mg/L
3	Co 228.616	-189.7	130.4	0.0012 mg/L
3	Cr 267.716	337.2	649.1	0.0075 mg/L
3	Cu 324.754	638.8	-2244.5	0.0013 mg/L
3	Fe 273.955	8199297.5	8194282.5	187.6 mg/L
3	K 766.491	-821.5	1641.1	0.2173 mg/L
3	Mg 279.079	20923346.7	20921812.6	502.1 mg/L
3	Mn 257.610	9373.5	7282.3	-0.0024 mg/L
3	Mo 202.030	76.5	140.0	0.0016 mg/L
3	Na 330.237	6667.3	-183.1	0.1587 mg/L
3	Ni 231.604	-163.5	-62.5	-0.0012 mg/L
3	Pb 220.353	-986.9	-827.2	-0.0031 mg/L
3	Sb 206.833	69.1	70.4	0.0231 mg/L
3	Se 196.026	-76.9	-137.5	-0.0109 mg/L
3	Tl 190.800	542.1	350.5	0.0022 mg/L
3	V 292.402	-596.6	-662.1	-0.0054 mg/L
3	Zn 213.856	2376.3	3019.5	0.0048 mg/L

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

): ICSA 1441 Seq. No.: 16 Sample No.: 3 A/S Pos: 7
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 6:57:44 PM

.ement	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
g 328.068	-916.6	-0.0030	0.00268	mg/L				88.75%
. 308.215	15536983.8	496.3	11.29	mg/L				2.28%
s 188.979	52.6	-0.0028	0.00307	mg/L				108.56%
a 233.527	1286.1	0.0031	0.00028	mg/L				8.93%
e 313.107	111.9	0.0000	0.00005	mg/L				127.74%
a 227.547	129647.9	528.2	11.44	mg/L				2.17%
d 228.802	-53.7	-0.0004	0.00021	mg/L				50.52%
o 228.616	235.0	0.0022	0.00097	mg/L				43.24%
r 267.716	514.9	0.0059	0.00149	mg/L				25.14%
u 324.754	-2267.1	0.0013	0.00090	mg/L				71.82%
e 273.955	8213304.4	188.1	4.16	mg/L				2.21%
766.491	1709.8	0.2205	0.00279	mg/L				1.27%

g 279.079	20993744.3	503.8	11.10	mg/L	2.20%
n 257.610	7651.9	-0.0022	0.00030	mg/L	13.87%
o 202.030	149.4	0.0021	0.00054	mg/L	25.98%
a 330.237	-116.4	0.2627	0.09763	mg/L	37.17%
i 231.604	-80.3	-0.0016	0.00113	mg/L	71.06%
b 220.353	-876.6	-0.0061	0.00399	mg/L	64.92%
b 206.833	28.5	0.0128	0.00912	mg/L	71.08%
e 196.026	-83.1	0.0069	0.01752	mg/L	253.54%
l 190.800	369.5	0.0075	0.00733	mg/L	98.02%
292.402	-643.7	-0.0052	0.00017	mg/L	3.19%
n 213.856	3063.8	0.0051	0.00122	mg/L	23.95%

eplicate Data ----------
D: ICSAB 1443 Date: 4/23/03 7:00:32 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	185692.5	185714.2	0.9557	mg/L		
1	Al 308.215	14520244.8	14515604.8	463.7	mg/L		
1	As 188.979	2757.8	2634.9	0.9397	mg/L		
1	Ba 233.527	206851.0	206815.4	0.4972	mg/L		
1	Be 313.107	1304490.9	1305094.4	0.4783	mg/L		
1	Ca 227.547	119860.8	119205.3	485.6	mg/L		
1	Cd 228.802	123525.8	123319.7	0.9371	mg/L		
1	Co 228.616	47232.1	47552.2	0.4527	mg/L		
1	Cr 267.716	41125.5	41437.5	0.4779	mg/L		
1	Cu 324.754	140846.8	137963.5	0.4747	mg/L		
1	Fe 273.955	7467974.9	7462960.0	170.9	mg/L		
1	K 766.491	-894.9	1567.7	0.2138	mg/L		
1	Mg 279.079	19515493.2	19513959.1	468.3	mg/L		
1	Mn 257.610	659699.4	657608.1	0.4759	mg/L		
1	Mo 202.030	16880.1	16943.6	0.9247	mg/L		
1	Na 330.237	6986.6	136.3	0.6568	mg/L		
1	Ni 231.604	44686.8	44787.8	0.8834	mg/L		
1	Pb 220.353	13883.1	14042.9	0.9258	mg/L		
1	Sb 206.833	3913.0	3914.3	0.9526	mg/L		
1	Se 196.026	2851.4	2790.8	0.9445	mg/L		
1	Tl 190.800	3818.7	3627.1	0.9302	mg/L		
1	V 292.402	56731.5	56666.0	0.4614	mg/L		
1	Zn 213.856	102770.6	103413.8	0.9425	mg/L		
2	Ag 328.068	187593.0	187614.7	0.9655	mg/L		
2	Al 308.215	14838392.7	14833752.7	473.9	mg/L		
2	As 188.979	2687.7	2564.7	0.9136	mg/L		
2	Ba 233.527	207669.3	207633.7	0.4991	mg/L		
2	Be 313.107	1310718.4	1311321.8	0.4806	mg/L		
2	Ca 227.547	120764.4	120108.9	489.4	mg/L		
2	Cd 228.802	124224.9	124018.8	0.9424	mg/L		
2	Co 228.616	47400.5	47720.5	0.4543	mg/L		
2	Cr 267.716	41529.9	41841.9	0.4826	mg/L		
2	Cu 324.754	142660.0	139776.7	0.4810	mg/L		
2	Fe 273.955	7631745.7	7626730.8	174.6	mg/L		
2	K 766.491	-998.1	1464.5	0.2090	mg/L		
2	Mg 279.079	19916356.7	19914822.6	477.9	mg/L		
2	Mn 257.610	662993.7	660902.4	0.4782	mg/L		
2	Mo 202.030	16179.9	16243.4	0.8861	mg/L		
2	Na 330.237	6710.0	-140.4	0.2252	mg/L		
2	Ni 231.604	44683.9	44785.0	0.8833	mg/L		
2	Pb 220.353	13403.4	13563.2	0.8967	mg/L		
2	Sb 206.833	3743.8	3745.1	0.9110	mg/L		
2	Se 196.026	2827.0	2766.4	0.9362	mg/L		
2	Tl 190.800	3695.3	3503.7	0.8935	mg/L		
2	V 292.402	57238.3	57172.8	0.4655	mg/L		
2	Zn 213.856	103669.9	104313.1	0.9504	mg/L		
3	Ag 328.068	188455.8	188477.5	0.9699	mg/L		
3	Al 308.215	14559619.2	14554979.2	464.9	mg/L		
3	As 188.979	2764.8	2641.9	0.9423	mg/L		
3	Ba 233.527	208452.8	208417.3	0.5010	mg/L		
3	Be 313.107	1315030.4	1315633.8	0.4821	mg/L		
3	Ca 227.547	121383.7	120728.2	491.8	mg/L		

3	Cd 228.802	124930.9	124724.8	0.9477 mg/L
3	Co 228.616	47594.0	47914.1	0.4562 mg/L
3	Cr 267.716	41707.3	42019.3	0.4846 mg/L
3	Cu 324.754	143211.1	140327.8	0.4827 mg/L
3	Fe 273.955	7473687.7	7468672.7	171.0 mg/L
3	K 766.491	-870.8	1591.8	0.2150 mg/L
3	Mg 279.079	19527154.3	19525620.2	468.6 mg/L
3	Mn 257.610	665513.1	663421.9	0.4802 mg/L
3	Mo 202.030	16524.4	16587.9	0.9051 mg/L
3	Na 330.237	6733.9	-116.5	0.2625 mg/L
3	Ni 231.604	45024.1	45125.1	0.8900 mg/L
3	Pb 220.353	13557.7	13717.4	0.9055 mg/L
3	Sb 206.833	3910.7	3912.1	0.9519 mg/L
3	Se 196.026	2885.5	2824.9	0.9547 mg/L
3	Tl 190.800	3723.0	3531.3	0.9032 mg/L
3	V 292.402	57512.6	57447.1	0.4677 mg/L
3	Zn 213.856	103786.7	104429.8	0.9520 mg/L

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

D: ICSAB 1443 Seq. No.: 17 Sample No.: 4 A/S Pos: 8
ample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 7:00:32 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	187268.8	0.9637	0.00728	mg/L				0.75%
l 308.215	14634778.9	467.5	5.54	mg/L				1.19%
s 188.979	2613.8	0.9319	0.01590	mg/L				1.71%
a 233.527	207622.2	0.4991	0.00193	mg/L				0.39%
e 313.107	1310683.4	0.4803	0.00194	mg/L				0.40%
a 227.547	120014.1	488.9	3.10	mg/L				0.63%
d 228.802	124021.1	0.9424	0.00534	mg/L				0.57%
o 228.616	47728.9	0.4544	0.00172	mg/L				0.38%
r 267.716	41766.2	0.4817	0.00344	mg/L				0.71%
u 324.754	139356.0	0.4795	0.00422	mg/L				0.88%
e 273.955	7519454.5	172.2	2.13	mg/L				1.24%
766.491	1541.3	0.2126	0.00316	mg/L				1.49%
g 279.079	19651467.3	471.6	5.48	mg/L				1.16%
n 257.610	660644.2	0.4781	0.00213	mg/L				0.45%
o 202.030	16591.6	0.9053	0.01928	mg/L				2.13%
a 330.237	-40.2	0.3815	0.23914	mg/L				62.68%
i 231.604	44899.3	0.8856	0.00386	mg/L				0.44%
b 220.353	13774.5	0.9093	0.01491	mg/L				1.64%
b 206.833	3857.2	0.9385	0.02381	mg/L				2.54%
e 196.026	2794.1	0.9451	0.00923	mg/L				0.98%
l 190.800	3554.0	0.9090	0.01900	mg/L				2.09%
292.402	57095.3	0.4649	0.00323	mg/L				0.69%
n 213.856	104052.3	0.9483	0.00507	mg/L				0.54%

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

D: CCV 1447B Date: 4/23/03 7:03:40 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	196667.3	196689.0	1.012	mg/L		
1	Al 308.215	167079.0	162439.0	5.189	mg/L		
1	As 188.979	1556.2	1433.3	0.5261	mg/L		
1	Ba 233.527	2171247.7	2171212.2	5.220	mg/L		
1	Be 313.107	1378784.2	1379387.7	0.5055	mg/L		
1	Ca 227.547	13348.1	12692.7	51.35	mg/L		
1	Cd 228.802	135879.9	135673.8	1.031	mg/L		
1	Co 228.616	217601.0	217921.1	2.075	mg/L		
1	Cr 267.716	44161.9	44473.9	0.5130	mg/L		
1	Cu 324.754	613967.5	611084.3	2.067	mg/L		
1	Fe 273.955	230330.5	225315.6	5.159	mg/L		
1	K 766.491	333872.8	336335.4	14.60	mg/L		
1	Mg 279.079	1096230.6	1094696.5	26.27	mg/L		
1	Mn 257.610	2777000.1	2774908.9	2.039	mg/L		
1	Mo 202.030	37219.7	37283.1	2.047	mg/L		
1	Na 330.237	73370.7	66520.3	100.6	mg/L		
1	Ni 231.604	106196.3	106297.3	2.097	mg/L		

1	Pb 220.353	8019.7	8179.5	0.5127 mg/L
1	Sb 206.833	8334.2	8335.5	2.032 mg/L
1	Se 196.026	1661.8	1601.2	0.5250 mg/L
1	Tl 190.800	2039.0	1847.3	0.5192 mg/L
1	V 292.402	253857.6	253792.0	2.066 mg/L
1	Zn 213.856	220946.2	221589.4	2.066 mg/L
2	Ag 328.068	193576.4	193598.1	0.9963 mg/L
2	Al 308.215	164801.0	160160.9	5.116 mg/L
2	As 188.979	1549.4	1426.5	0.5236 mg/L
2	Ba 233.527	2141632.7	2141597.2	5.148 mg/L
2	Be 313.107	1424851.5	1425454.9	0.5224 mg/L
2	Ca 227.547	13147.9	12492.4	50.54 mg/L
2	Cd 228.802	134310.8	134104.7	1.019 mg/L
2	Co 228.616	214616.2	214936.3	2.046 mg/L
2	Cr 267.716	43785.4	44097.4	0.5086 mg/L
2	Cu 324.754	604601.9	601718.7	2.035 mg/L
2	Fe 273.955	225913.7	220898.8	5.058 mg/L
2	K 766.491	350707.2	353169.8	15.26 mg/L
2	Mg 279.079	1081704.8	1080170.7	25.92 mg/L
2	Mn 257.610	2875123.2	2873032.0	2.111 mg/L
2	Mo 202.030	36833.9	36897.3	2.026 mg/L
2	Na 330.237	72375.8	65525.4	99.17 mg/L
2	Ni 231.604	104793.3	104894.3	2.069 mg/L
2	Pb 220.353	8060.9	8220.7	0.5153 mg/L
2	Sb 206.833	8364.6	8365.9	2.039 mg/L
2	Se 196.026	1673.5	1613.0	0.5288 mg/L
2	Tl 190.800	2041.6	1850.0	0.5199 mg/L
2	V 292.402	250948.3	250882.8	2.043 mg/L
2	Zn 213.856	218539.9	219183.1	2.043 mg/L
3	Ag 328.068	203106.3	203127.9	1.045 mg/L
3	Al 308.215	171908.7	167268.6	5.343 mg/L
3	As 188.979	1571.9	1449.0	0.5320 mg/L
3	Ba 233.527	2229744.3	2229708.8	5.360 mg/L
3	Be 313.107	1383016.6	1383620.0	0.5070 mg/L
3	Ca 227.547	13798.8	13143.3	53.18 mg/L
3	Cd 228.802	140512.9	140306.9	1.066 mg/L
3	Co 228.616	223416.5	223736.6	2.130 mg/L
3	Cr 267.716	45454.1	45766.1	0.5279 mg/L
3	Cu 324.754	634829.1	631945.8	2.137 mg/L
3	Fe 273.955	234398.3	229383.4	5.253 mg/L
3	K 766.491	338952.7	341415.3	14.80 mg/L
3	Mg 279.079	1125846.8	1124312.7	26.98 mg/L
3	Mn 257.610	2790144.8	2788053.6	2.048 mg/L
3	Mo 202.030	38427.0	38490.5	2.113 mg/L
3	Na 330.237	75378.8	68528.5	103.5 mg/L
3	Ni 231.604	109139.4	109240.4	2.155 mg/L
3	Pb 220.353	8149.5	8309.3	0.5208 mg/L
3	Sb 206.833	8450.3	8451.7	2.060 mg/L
3	Se 196.026	1667.7	1607.1	0.5270 mg/L
3	Tl 190.800	2069.7	1878.1	0.5278 mg/L
3	V 292.402	261530.8	261465.2	2.129 mg/L
3	Zn 213.856	228591.6	229234.8	2.137 mg/L

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

D: CCV 1447B Seq. No.: 18 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 7:03:40 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	197805.0	1.018	0.0250	mg/L				2.46%
l 308.215	163289.5	5.216	0.1159	mg/L				2.22%
s 188.979	1436.2	0.5272	0.00431	mg/L				0.82%
a 233.527	2180839.4	5.243	0.1078	mg/L				2.06%
e 313.107	1396154.2	0.5116	0.00933	mg/L				1.82%
a 227.547	12776.1	51.69	1.349	mg/L				2.61%
d 228.802	136695.1	1.039	0.0245	mg/L				2.36%
o 228.616	218864.7	2.084	0.0426	mg/L				2.04%
r 267.716	44779.1	0.5165	0.01009	mg/L				1.95%
u 324.754	614916.2	2.080	0.0523	mg/L				2.52%

e 273.955	225199.3	5.157	0.0972	mg/L	1.88%
766.491	343640.2	14.89	0.342	mg/L	2.30%
g 279.079	1099726.6	26.39	0.540	mg/L	2.05%
n 257.610	2811998.2	2.066	0.0391	mg/L	1.89%
o 202.030	37557.0	2.062	0.0456	mg/L	2.21%
a 330.237	66858.1	101.1	2.23	mg/L	2.20%
i 231.604	106810.7	2.107	0.0437	mg/L	2.08%
b 220.353	8236.5	0.5163	0.00416	mg/L	0.81%
b 206.833	8384.4	2.044	0.0145	mg/L	0.71%
e 196.026	1607.1	0.5269	0.00191	mg/L	0.36%
l 190.800	1858.5	0.5223	0.00478	mg/L	0.92%
292.402	255380.0	2.079	0.0445	mg/L	2.14%
n 213.856	223335.7	2.082	0.0489	mg/L	2.35%

eplicate Data ----------
D: CCB Date: 4/23/03 7:07:11 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ag 328.068	248.9	270.6	0.0014	mg/L		
1	Al 308.215	5178.0	537.9	0.0172	mg/L		
1	As 188.979	120.1	-2.8	-0.0010	mg/L		
1	Ba 233.527	978.9	943.3	0.0023	mg/L		
1	Be 313.107	283.9	887.3	0.0003	mg/L		
1	Ca 227.547	649.1	-6.4	-0.0260	mg/L		
1	Cd 228.802	235.9	29.8	0.0002	mg/L		
1	Co 228.616	-243.8	76.3	0.0007	mg/L		
1	Cr 267.716	-310.2	1.8	0.0000	mg/L		
1	Cu 324.754	4228.6	1345.3	0.0045	mg/L		
1	Fe 273.955	3746.8	-1268.1	-0.0290	mg/L		
1	K 766.491	-2644.3	-181.8	0.1321	mg/L		
1	Mg 279.079	2812.4	1278.3	0.0307	mg/L		
1	Mn 257.610	2427.9	336.7	0.0002	mg/L		
1	Mo 202.030	-34.5	29.0	0.0016	mg/L		
1	Na 330.237	6831.0	-19.4	0.4141	mg/L		
1	Ni 231.604	-82.8	18.2	0.0004	mg/L		
1	Pb 220.353	-181.8	-22.0	-0.0014	mg/L		
1	Sb 206.833	4.0	5.4	0.0013	mg/L		
1	Se 196.026	64.0	3.5	0.0011	mg/L		
1	Tl 190.800	212.3	20.7	0.0058	mg/L		
1	V 292.402	95.4	29.8	0.0002	mg/L		
1	Zn 213.856	-595.1	48.1	0.0004	mg/L		
2	Ag 328.068	-26.1	-4.4	0.0000	mg/L		
2	Al 308.215	5355.7	715.6	0.0229	mg/L		
2	As 188.979	130.8	7.8	0.0028	mg/L		
2	Ba 233.527	661.2	625.7	0.0015	mg/L		
2	Be 313.107	355.2	958.6	0.0004	mg/L		
2	Ca 227.547	669.0	13.5	0.0547	mg/L		
2	Cd 228.802	242.9	36.8	0.0003	mg/L		
2	Co 228.616	-293.5	26.6	0.0003	mg/L		
2	Cr 267.716	-307.4	4.6	0.0001	mg/L		
2	Cu 324.754	3867.0	983.7	0.0033	mg/L		
2	Fe 273.955	3202.8	-1812.2	-0.0415	mg/L		
2	K 766.491	-2267.0	195.6	0.1497	mg/L		
2	Mg 279.079	2758.6	1224.5	0.0294	mg/L		
2	Mn 257.610	2056.3	-34.9	0.0000	mg/L		
2	Mo 202.030	-38.0	25.5	0.0014	mg/L		
2	Na 330.237	7120.5	270.1	0.8656	mg/L		
2	Ni 231.604	-94.1	6.9	0.0001	mg/L		
2	Pb 220.353	-185.9	-26.2	-0.0016	mg/L		
2	Sb 206.833	2.4	3.7	0.0009	mg/L		
2	Se 196.026	65.4	4.8	0.0016	mg/L		
2	Tl 190.800	211.9	20.3	0.0057	mg/L		
2	V 292.402	101.9	36.3	0.0003	mg/L		
2	Zn 213.856	-614.9	28.3	0.0003	mg/L		
3	Ag 328.068	125.0	146.7	0.0008	mg/L		
3	Al 308.215	5514.4	874.4	0.0279	mg/L		
3	As 188.979	128.4	5.5	0.0020	mg/L		
3	Ba 233.527	408.1	372.5	0.0009	mg/L		

3	Be 313.107	-165.8	437.7	0.0002 mg/L
3	Ca 227.547	675.1	19.7	0.0795 mg/L
3	Cd 228.802	227.6	21.6	0.0002 mg/L
3	Co 228.616	-303.9	16.2	0.0002 mg/L
3	Cr 267.716	-316.8	-4.9	-0.0001 mg/L
3	Cu 324.754	3435.0	551.7	0.0019 mg/L
3	Fe 273.955	2930.2	-2084.8	-0.0477 mg/L
3	K 766.491	-2144.3	318.2	0.1554 mg/L
3	Mg 279.079	2598.5	1064.4	0.0255 mg/L
3	Mn 257.610	1636.1	-455.1	-0.0003 mg/L
3	Mo 202.030	-47.2	16.3	0.0009 mg/L
3	Na 330.237	6607.4	-243.0	0.0652 mg/L
3	Ni 231.604	-83.8	17.2	0.0003 mg/L
3	Pb 220.353	-189.8	-30.0	-0.0019 mg/L
3	Sb 206.833	-5.6	-4.3	-0.0011 mg/L
3	Se 196.026	77.5	16.9	0.0055 mg/L
3	Tl 190.800	204.1	12.5	0.0035 mg/L
3	V 292.402	188.8	123.2	0.0010 mg/L
3	Zn 213.856	-643.2	-0.0	0.0000 mg/L

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

D: CCB Seq. No.: 19 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 7:07:11 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	137.6	0.0007	0.00071	mg/L				100.11%
l 308.215	709.3	0.0227	0.00538	mg/L				23.73%
s 188.979	3.5	0.0013	0.00203	mg/L				160.20%
a 233.527	647.2	0.0016	0.00069	mg/L				44.19%
e 313.107	761.2	0.0003	0.00010	mg/L				37.11%
a 227.547	8.9	0.0361	0.05516	mg/L				152.87%
d 228.802	29.4	0.0002	0.00006	mg/L				26.03%
o 228.616	39.7	0.0004	0.00031	mg/L				80.91%
r 267.716	0.5	0.0000	0.00006	mg/L				933.77%
u 324.754	960.3	0.0032	0.00134	mg/L				41.38%
e 273.955	-1721.7	-0.0394	0.00952	mg/L				24.15%
766.491	110.7	0.1457	0.01219	mg/L				8.36%
g 279.079	1189.1	0.0285	0.00267	mg/L				9.36%
n 257.610	-51.1	0.0000	0.00029	mg/L				774.77%
o 202.030	23.6	0.0013	0.00036	mg/L				27.80%
a 330.237	2.6	0.4483	0.40131	mg/L				89.52%
i 231.604	14.1	0.0003	0.00012	mg/L				44.30%
o 220.353	-26.1	-0.0016	0.00025	mg/L				15.37%
o 206.833	1.6	0.0004	0.00127	mg/L				322.81%
e 196.026	8.4	0.0028	0.00242	mg/L				87.91%
l 190.800	17.8	0.0050	0.00129	mg/L				25.86%
292.402	63.1	0.0005	0.00042	mg/L				82.63%
n 213.856	25.5	0.0002	0.00023	mg/L				94.99%

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

D: DLC A1427 Date: 4/23/03 7:10:52 PM

epl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ag 328.068	-943.1	-921.4	-0.0047	mg/L	-0.0047	ppm
1	Al 308.215	18202.2	13562.2	0.4332	mg/L	0.4332	ppm
1	As 188.979	26988.3	26865.3	10.14	mg/L	10.14	ppm
1	Ba 233.527	21851982.0	21851946.5	52.53	mg/L	52.53	ppm
1	Be 313.107	-1665.6	-1062.2	-0.0004	mg/L	-0.0004	ppm
1	Ca 227.547	1029.3	373.8	1.513	mg/L	1.513	ppm
1	Cd 228.802	1358266.3	1358060.2	10.32	mg/L	10.32	ppm
1	Co 228.616	2142408.1	2142728.2	20.40	mg/L	20.40	ppm
1	Cr 267.716	4280973.8	4281285.8	49.38	mg/L	49.38	ppm
1	Cu 324.754	15289602.5	15286719.2	51.70	mg/L	51.70	ppm
1	Fe 273.955	-23783.9	-28798.8	-0.6594	mg/L	-0.6594	ppm
1	K 766.491	1700.9	4163.4	0.3350	mg/L	0.3350	ppm
1	Mg 279.079	1151.3	-382.8	-0.0092	mg/L	-0.0092	ppm
1	Mn 257.610	25078404.2	25076313.0	18.42	mg/L	18.42	ppm
1	Mo 202.030	190559.4	190622.9	10.47	mg/L	10.47	ppm

1	Na 330.237	463870.5	457020.1	589.3	mg/L	589.3 ppm
1	Ni 231.604	1044999.8	1045100.8	20.61	mg/L	20.61 ppm
1	Pb 220.353	1321972.5	1322132.3	82.87	mg/L	82.87 ppm
1	Sb 206.833	4892.1	4893.5	-0.2389	mg/L	-0.2389 ppm
1	Se 196.026	82.1	21.5	0.0036	mg/L	0.0036 ppm
1	Tl 190.800	556.6	365.0	0.0831	mg/L	0.0831 ppm
1	V 292.402	2402102.3	2402036.7	19.64	mg/L	19.64 ppm
1	Zn 213.856	4092856.4	4093499.6	38.16	mg/L	38.16 ppm
2	Ag 328.068	-679.2	-657.5	-0.0034	mg/L	-0.0034 ppm
2	Al 308.215	18734.4	14094.4	0.4502	mg/L	0.4502 ppm
2	As 188.979	27952.7	27829.8	10.49	mg/L	10.49 ppm
2	Ba 233.527	22223012.3	22222976.8	53.42	mg/L	53.42 ppm
2	Be 313.107	-1556.7	-953.3	-0.0003	mg/L	-0.0003 ppm
2	Ca 227.547	1017.8	362.3	1.466	mg/L	1.466 ppm
2	Cd 228.802	1353384.8	1353178.7	10.28	mg/L	10.28 ppm
2	Co 228.616	2129686.0	2130006.1	20.28	mg/L	20.28 ppm
2	Cr 267.716	4247892.3	4248204.3	49.00	mg/L	49.00 ppm
2	Cu 324.754	15582047.0	15579163.7	52.69	mg/L	52.69 ppm
2	Fe 273.955	-24825.1	-29840.0	-0.6833	mg/L	-0.6833 ppm
2	K 766.491	2017.4	4480.0	0.3498	mg/L	0.3498 ppm
2	Mg 279.079	987.3	-546.8	-0.0131	mg/L	-0.0131 ppm
2	Mn 257.610	25551244.0	25549152.8	18.77	mg/L	18.77 ppm
2	Mo 202.030	194996.1	195059.5	10.71	mg/L	10.71 ppm
2	Na 330.237	460714.1	453863.7	585.8	mg/L	585.8 ppm
2	Ni 231.604	1037740.1	1037841.1	20.47	mg/L	20.47 ppm
2	Pb 220.353	1314671.8	1314831.6	82.41	mg/L	82.41 ppm
2	Sb 206.833	4915.9	4917.2	-0.2219	mg/L	-0.2219 ppm
2	Se 196.026	83.7	23.1	0.0042	mg/L	0.0042 ppm
2	Tl 190.800	562.2	370.5	0.0848	mg/L	0.0848 ppm
2	V 292.402	2381231.2	2381165.6	19.47	mg/L	19.47 ppm
2	Zn 213.856	4074119.4	4074762.6	37.98	mg/L	37.98 ppm
3	Ag 328.068	-963.6	-941.9	-0.0048	mg/L	-0.0048 ppm
3	Al 308.215	18174.3	13534.2	0.4323	mg/L	0.4323 ppm
3	As 188.979	27002.4	26879.4	10.16	mg/L	10.16 ppm
3	Ba 233.527	21951128.2	21951092.7	52.77	mg/L	52.77 ppm
3	Be 313.107	-1474.2	-870.8	-0.0003	mg/L	-0.0003 ppm
3	Ca 227.547	910.5	255.1	1.032	mg/L	1.032 ppm
3	Cd 228.802	1399728.7	1399522.6	10.63	mg/L	10.63 ppm
3	Co 228.616	2200894.9	2201215.0	20.96	mg/L	20.96 ppm
3	Cr 267.716	4377365.7	4377677.7	50.49	mg/L	50.49 ppm
3	Cu 324.754	15448369.3	15445486.0	52.24	mg/L	52.24 ppm
3	Fe 273.955	-24057.2	-29072.1	-0.6657	mg/L	-0.6657 ppm
3	K 766.491	1892.2	4354.8	0.3440	mg/L	0.3440 ppm
3	Mg 279.079	862.5	-671.6	-0.0161	mg/L	-0.0161 ppm
3	Mn 257.610	25311889.1	25309797.9	18.59	mg/L	18.59 ppm
3	Mo 202.030	189526.8	189590.3	10.41	mg/L	10.41 ppm
3	Na 330.237	475506.7	468656.4	602.0	mg/L	602.0 ppm
3	Ni 231.604	1076624.9	1076725.9	21.24	mg/L	21.24 ppm
3	Pb 220.353	1362664.6	1362824.4	85.42	mg/L	85.42 ppm
3	Sb 206.833	4905.2	4906.6	-0.2681	mg/L	-0.2681 ppm
3	Se 196.026	77.7	17.2	0.0021	mg/L	0.0021 ppm
3	Tl 190.800	567.2	375.6	0.0857	mg/L	0.0857 ppm
3	V 292.402	2454946.7	2454881.2	20.07	mg/L	20.07 ppm
3	Zn 213.856	4213231.4	4213874.6	39.28	mg/L	39.28 ppm

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

D: DLC A1427 Seq. No.: 20 Sample No.: 64 A/S Pos: 73
ample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 4/23/03 7:10:52 PM

lement	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
g 328.068	-840.3	-0.0043	0.00082	mg/L	-0.0043	0.00082	ppm	18.87%
l 308.215	13730.3	0.4386	0.01008	mg/L	0.4386	0.01008	ppm	2.30%
s 188.979	27191.5	10.26	0.197	mg/L	10.26	0.197	ppm	1.92%
a 233.527	22008672.0	52.91	0.462	mg/L	52.91	0.462	ppm	0.87%
e 313.107	-962.1	-0.0004	0.00004	mg/L	-0.0004	0.00004	ppm	9.98%
a 227.547	330.4	1.337	0.2650	mg/L	1.337	0.2650	ppm	19.83%
d 228.802	1370253.8	10.41	0.193	mg/L	10.41	0.193	ppm	1.86%
o 228.616	2157983.1	20.55	0.362	mg/L	20.55	0.362	ppm	1.76%

r 267.716	4302389.3	49.62	0.776 mg/L	49.62	0.776 ppm	1.56%
u 324.754	15437123.0	52.21	0.495 mg/L	52.21	0.495 ppm	0.95%
e 273.955	-29237.0	-0.6695	0.01236 mg/L	-0.6695	0.01236 ppm	1.85%
766.491	4332.7	0.3429	0.00744 mg/L	0.3429	0.00744 ppm	2.17%
g 279.079	-533.7	-0.0128	0.00348 mg/L	-0.0128	0.00348 ppm	27.14%
n 257.610	25311754.5	18.60	0.174 mg/L	18.60	0.174 ppm	0.93%
o 202.030	191757.6	10.53	0.160 mg/L	10.53	0.160 ppm	1.52%
a 330.237	459846.7	592.4	8.53 mg/L	592.4	8.53 ppm	1.44%
i 231.604	1053222.6	20.77	0.408 mg/L	20.77	0.408 ppm	1.96%
b 220.353	1333262.7	83.57	1.621 mg/L	83.57	1.621 ppm	1.94%
b 206.833	4905.8	-0.2430	0.02336 mg/L	-0.2430	0.02336 ppm	9.62%
e 196.026	20.6	0.0033	0.00107 mg/L	0.0033	0.00107 ppm	32.29%
l 190.800	370.4	0.0845	0.00129 mg/L	0.0845	0.00129 ppm	1.52%
292.402	2412694.5	19.73	0.311 mg/L	19.73	0.311 ppm	1.57%
n 213.856	4127378.9	38.47	0.704 mg/L	38.47	0.704 ppm	1.83%

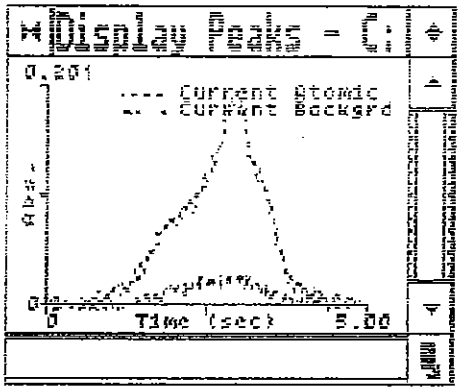
gw 4/23/03

Element File: AS_846.GEL Element: As Wavelength: 193.7
Date: 04/23/~~99~~ 03 Time: 12:10 Slit: 0.70 L
Data File: 03K1360E.DAT ID/Wt File: 1.IDW Lamp Current: 3
Technique: HGA Calib. Type: Linear Energy: 60

Y2K non-complia software. The dat not 4/23/99, sho be 4/23/2003.

As ID: AS Position 002 Seq. No.: 00001 A/S Pos.: 0 Date: 04/23/99

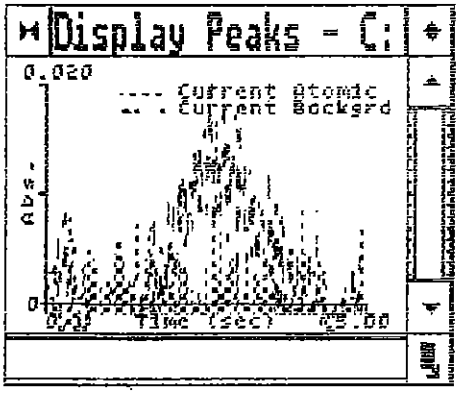
uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 12:15
Peak Area (A-s): 0.260 Peak Height (A): 0.201
Background Pk Area (A-s): 0.039 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.260



gw 4/23/0

As ID: AS Position 001 Seq. No.: 00002 A/S Pos.: 1 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 12:16
Peak Area (A-s): -0.007 Peak Height (A): 0.009
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.007

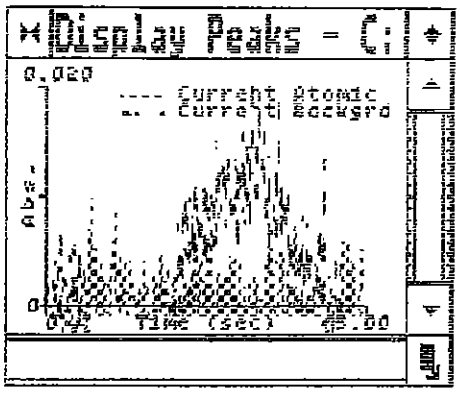


As ID: Calib. Blank Seq. No.: 00003 A/S Pos.: 1 Date: 04/23/99

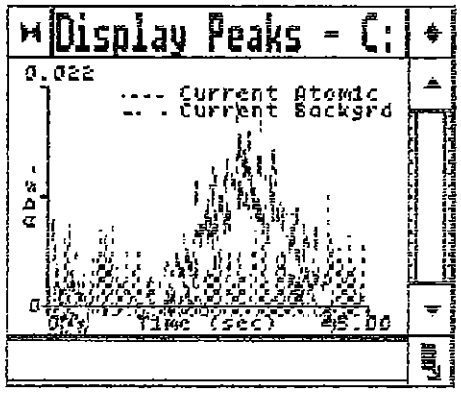
uL dispensed: 5 from 20, 20 from 1

Peak Area (A-s): -0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.020

Blank Corrected Pk Area (A-s): -0.003



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 12:23
Peak Area (A-s): -0.003 Peak Height (A): 0.012
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.003

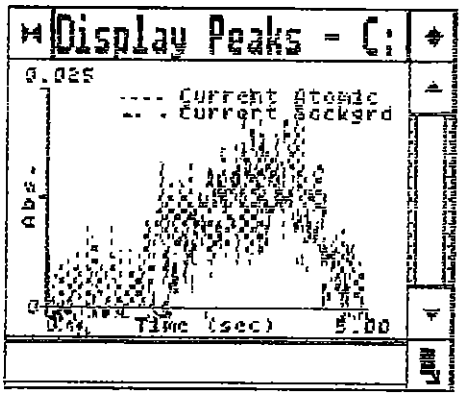


Mean Pk Area (A-s): -0.003 SD: 0.0003 RSD(%): 10.91

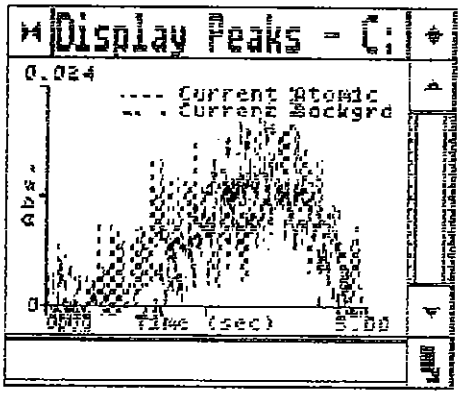
Auto-zero performed.

As ID: 1/2 STD1 1269A Seq. No.: 00004 A/S Pos.: 4 Date: 04/23/99

uL dispensed: 10 from 0, 5 from 20, 10 from 4
Replicate 1 Time: 12:27
Peak Area (A-s): 0.037 Peak Height (A): 0.023
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.039



uL dispensed: 10 from 0, 5 from 20, 10 from 4
Replicate 2 Time: 12:30
Peak Area (A-s): 0.035 Peak Height (A): 0.024
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.038

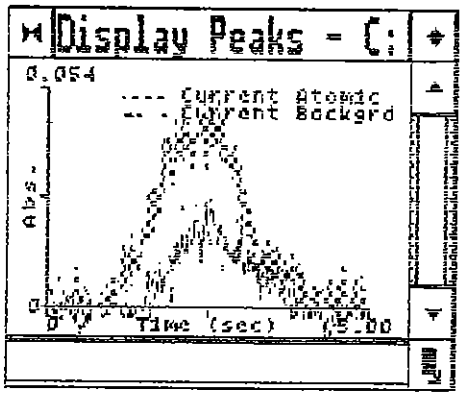


Mean Pk Area (A-s): 0.039 SD: 0.0012 RSD(%): 3.03

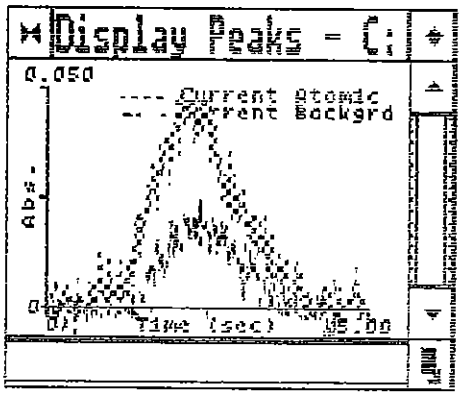
Standard number 1 applied. [0.0125]
Correlation coefficient: 1.00000 Slope: 3.0809

As ID: STD1 1269A Seq. No.: 00005 A/S Pos.: 4 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 4
Replicate 1 Time: 12:33
Peak Area (A-s): 0.074 Peak Height (A): 0.054
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.077
Concentration (mg/L): 0.0250



uL dispensed: 5 from 20, 20 from 4
Replicate 2 Time: 12:36
Peak Area (A-s): 0.070 Peak Height (A): 0.050
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.073
Concentration (mg/L): 0.0237

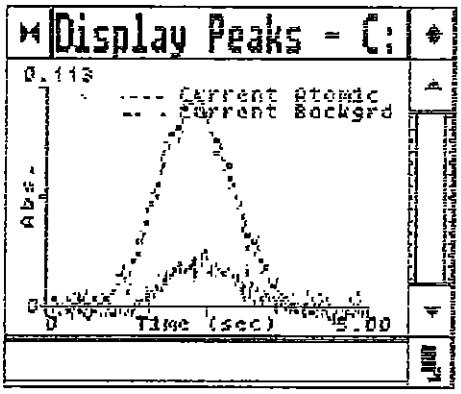


Mean Conc (mg/L): 0.0243 SD: 0.00092 RSD(%): 3.76

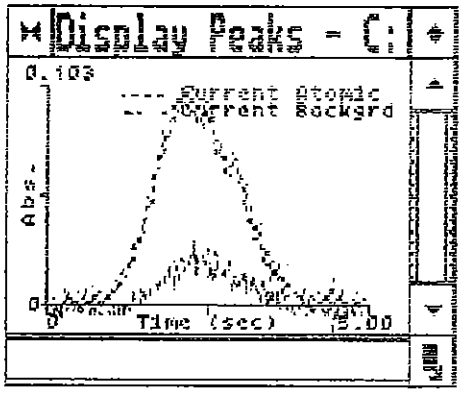
Standard number 2 applied. [0.0250]
Correlation coefficient: 0.99938 Slope: 3.0140

As ID: STD2 1269B Seq. No.: 00006 A/S Pos.: 3 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 3
Replicate 1 Time: 12:39
Peak Area (A-s): 0.151 Peak Height (A): 0.113
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.154
Concentration (mg/L): 0.0510



uL dispensed: 5 from 20, 20 from 3
Replicate 2 Time: 12:43
Peak Area (A-s): 0.152 Peak Height (A): 0.103
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.155
Concentration (mg/L): 0.0513

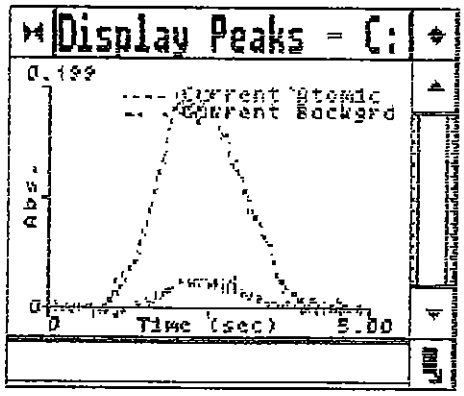


Mean Conc (mg/L): 0.0512 SD: 0.00022 RSD(%): 0.42

Standard number 3 applied. [0.0500]
Correlation coefficient: 0.99972 Slope: 3.0676

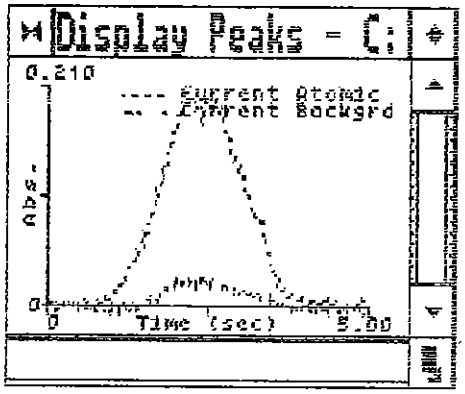
As ID: STD3 1269C Seq. No.: 00007 A/S Pos.: 2 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 2
Replicate 1 Time: 12:46
Peak Area (A-s): 0.306 Peak Height (A): 0.199
Background Pk Area (A-s): 0.030 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.309
Concentration (mg/L): 0.1007



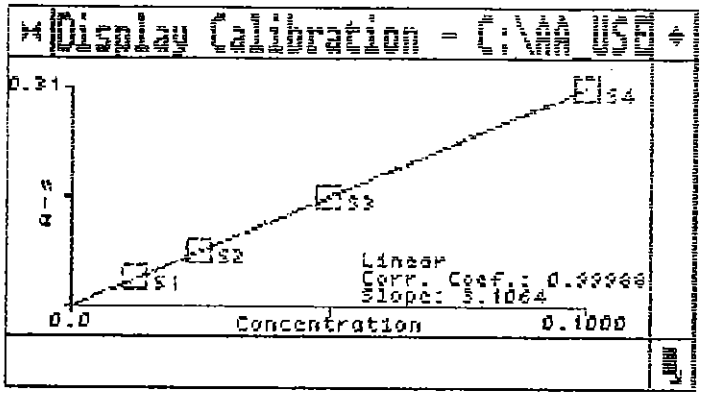
uL dispensed: 5 from 20, 20 from 2
Replicate 2
Peak Area (A-s): 0.312
Background Pk Area (A-s): 0.026
Blank Corrected Pk Area (A-s): 0.315
Concentration (mg/L): 0.1026

Time: 12:49
Peak Height (A): 0.210
Background Pk Height (A): 0.030



Mean Conc (mg/L): 0.1017 SD: 0.00131 RSD(%): 1.29

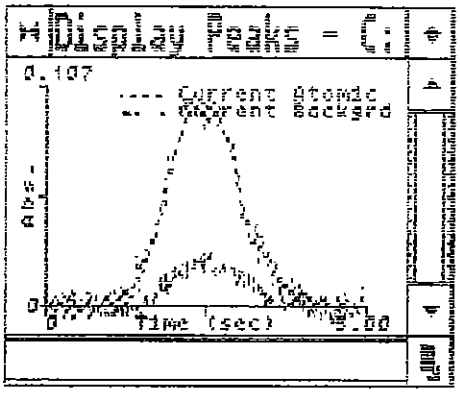
Standard number 4 applied. [0.1000]
Correlation coefficient: 0.99988 Slope: 3.1064



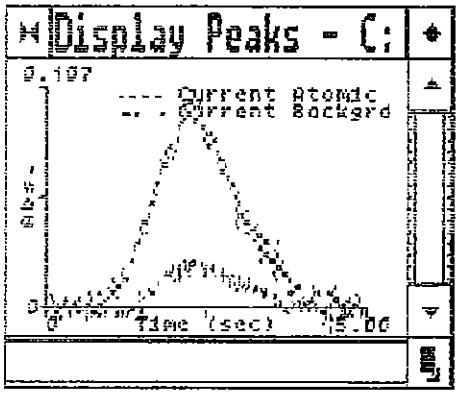
As ID: ICV A1271 Seq. No.: 00008 A/S Pos.: 40 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 13:01

Peak Area (A-s): 0.140 Peak Height (A): 0.107
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.143
Concentration (mg/L): 0.0460 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 13:05
Peak Area (A-s): 0.150 Peak Height (A): 0.107
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.153
Concentration (mg/L): 0.0493 Corrected Conc (ppm): ----------

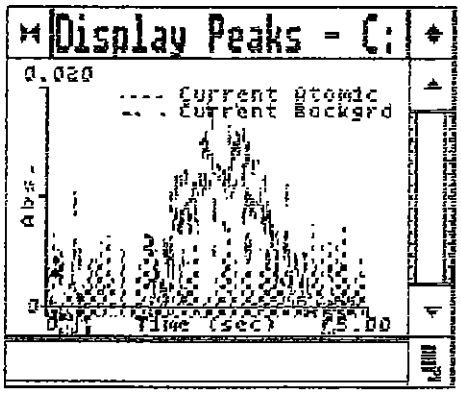


Mean Conc (mg/L): 0.0476 SD: 0.00235 RSD(%): 4.93
Corrected Conc (ppm): ----------

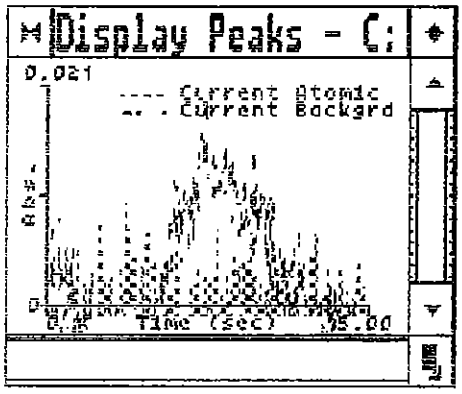
QC sample is within range 0.045 - 0.055

As ID: ICB Seq. No.: 00009 A/S Pos.: 1 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 13:08
Peak Area (A-s): -0.003 Peak Height (A): 0.011
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 13:11
Peak Area (A-s): -0.005 Peak Height (A): 0.010
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0007 Corrected Conc (ppm): ----------

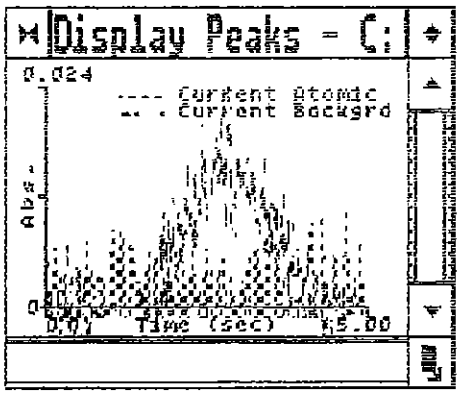


Mean Conc (mg/L): -0.0004 SD: 0.00039 RSD(%): 96.18
Corrected Conc (ppm): ----------

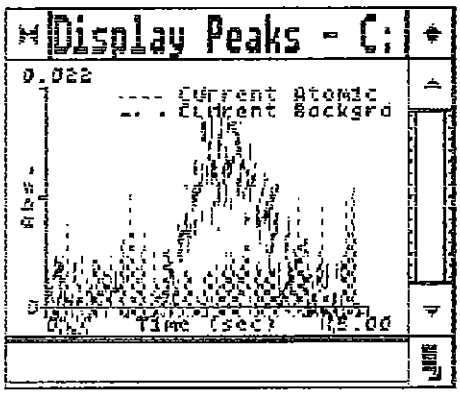
QC sample is within range

As ID: M-BL 03M1360 Seq. No.: 00010 A/S Pos.: 5 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 5
Replicate 1 Time: 13:14
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0013 Corrected Conc (ppm): 0.0013



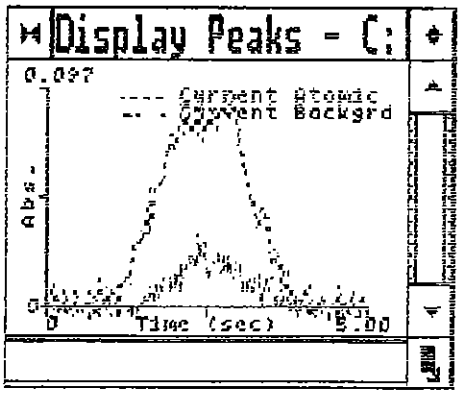
uL dispensed: 5 from 20, 20 from 5
Replicate 2 Time: 13:17
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0012 Corrected Conc (ppm): 0.0012



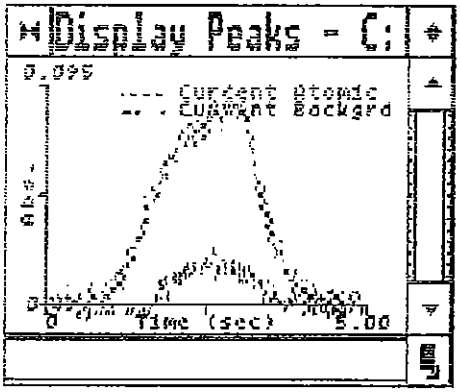
Mean Conc (mg/L): 0.0013 SD: 0.00010 RSD(%): 7.90
Corrected Conc (ppm): 0.0013

As ID: LCS-03M1360 Seq. No.: 00011 A/S Pos.: 6 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 6
Replicate 1 Time: 13:21
Peak Area (A-s): 0.151 Peak Height (A): 0.097
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.153
Concentration (mg/L): 0.0494 Corrected Conc (ppm): 0.0494



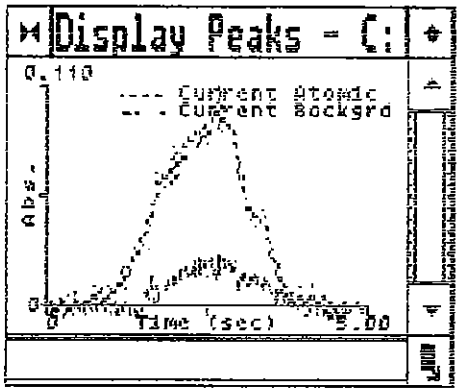
uL dispensed: 5 from 20, 20 from 6
Replicate 2 Time: 13:24
Peak Area (A-s): 0.158 Peak Height (A): 0.095
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.160
Concentration (mg/L): 0.0516 Corrected Conc (ppm): 0.0516



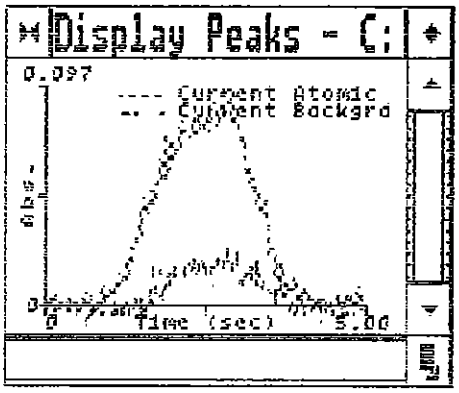
Mean Conc (mg/L): 0.0505 SD: 0.00157 RSD(%): 3.11
Corrected Conc (ppm): 0.0505

As ID: LCSD-03M1360 Seq. No.: 00012 A/S Pos.: 7 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 7
Replicate 1 Time: 13:27
Peak Area (A-s): 0.152 Peak Height (A): 0.110
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.155
Concentration (mg/L): 0.0499 Corrected Conc (ppm): 0.0499



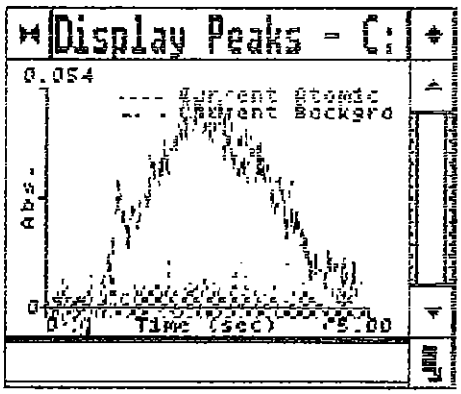
uL dispensed: 5 from 20, 20 from 7
Replicate 2 Time: 13:30
Peak Area (A-s): 0.152 Peak Height (A): 0.097
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.155
Concentration (mg/L): 0.0499 Corrected Conc (ppm): 0.0499



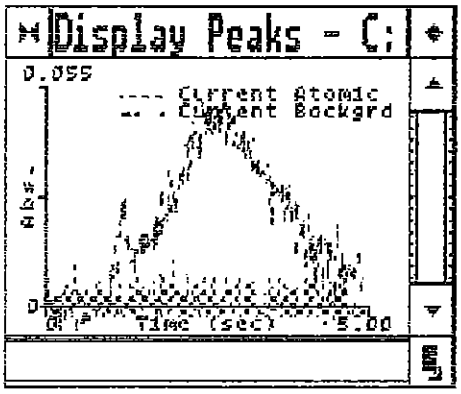
Mean Conc (mg/L): 0.0499 SD: 0.00001 RSD(%): 0.02
Corrected Conc (ppm): 0.0499

As ID: 2809-4 S F=1 Seq. No.: 00013 A/S Pos.: 8 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 8
Replicate 1 Time: 13:34
Peak Area (A-s): -0.000 Peak Height (A): 0.012
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0008 Corrected Conc (ppm): 0.0008



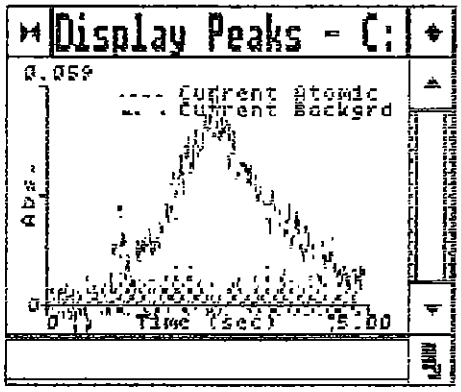
uL dispensed: 5 from 20, 20 from 8
Replicate 2 Time: 13:37
Peak Area (A-s): 0.005 Peak Height (A): 0.012
Background Pk Area (A-s): 0.103 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.007
Concentration (mg/L): 0.0024 Corrected Conc (ppm): 0.0024



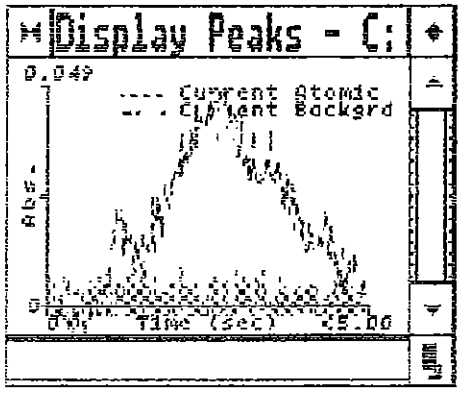
Mean Conc (mg/L): 0.0016 SD: 0.00112 RSD(%): 69.60
Corrected Conc (ppm): 0.0016

As ID: 2809-4 D F=1 Seq. No.: 00014 A/S Pos.: 9 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 9
Replicate 1 Time: 13:40
Peak Area (A-s): 0.003 Peak Height (A): 0.012
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0019 Corrected Conc (ppm): 0.0019



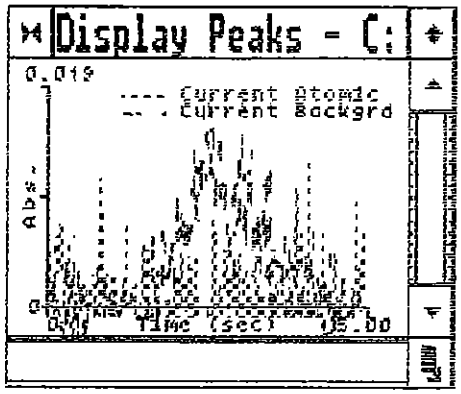
uL dispensed: 5 from 20, 20 from 9
Replicate 2 Time: 13:44
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0011 Corrected Conc (ppm): 0.0011



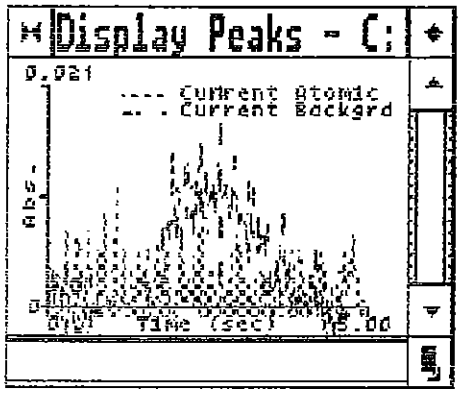
Mean Conc (mg/L): 0.0015 SD: 0.00051 RSD(%): 34.58
Corrected Conc (ppm): 0.0015

As ID: 2809-4 1/5 F=5 Seq. No.: 00015 A/S Pos.: 10 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 10
Replicate 1 Time: 13:47
Peak Area (A-s): -0.000 Peak Height (A): 0.013
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0009 Corrected Conc (ppm): 0.004



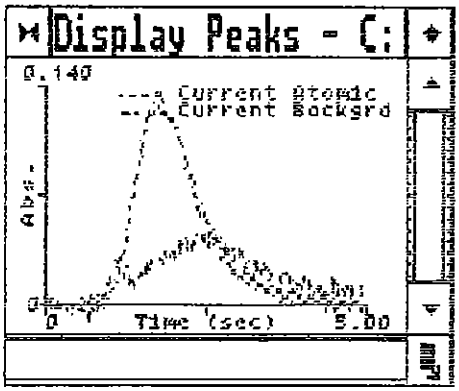
uL dispensed: 5 from 20, 20 from 10
Replicate 2 Time: 13:50
Peak Area (A-s): 0.002 Peak Height (A): 0.012
Background Pk Area (A-s): 0.013 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0014 Corrected Conc (ppm): 0.007



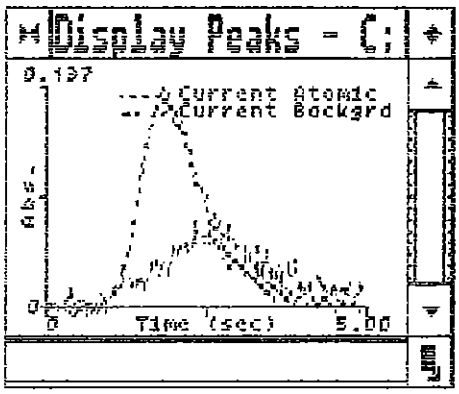
Mean Conc (mg/L): 0.0011 SD: 0.00036 RSD(%): 32.18
Corrected Conc (ppm): 0.006

As ID: 2809-4 MS F=1 Seq. No.: 00016 A/S Pos.: 11 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 11
Replicate 1 Time: 13:54
Peak Area (A-s): 0.160 Peak Height (A): 0.140
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.047
Blank Corrected Pk Area (A-s): 0.162
Concentration (mg/L): 0.0523 Corrected Conc (ppm): 0.0523



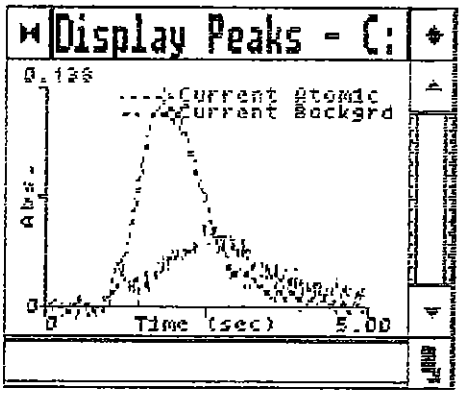
uL dispensed: 5 from 20, 20 from 11
Replicate 2 Time: 13:57
Peak Area (A-s): 0.162 Peak Height (A): 0.137
Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.165
Concentration (mg/L): 0.0531 Corrected Conc (ppm): 0.0531



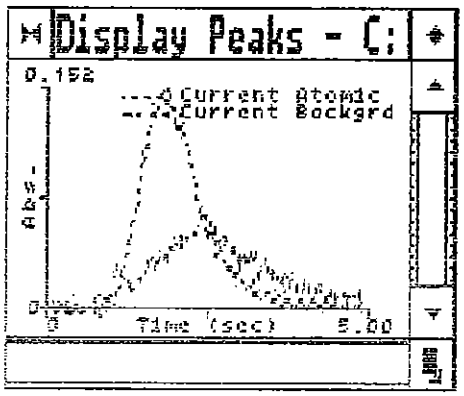
Mean Conc (mg/L): 0.0527 SD: 0.00056 RSD(%): 1.06
Corrected Conc (ppm): 0.0527

As ID: 2809-4 MSD F=1 Seq. No.: 00017 A/S Pos.: 12 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 12
Replicate 1 Time: 14:00
Peak Area (A-s): 0.164 Peak Height (A): 0.138
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.052
Blank Corrected Pk Area (A-s): 0.167
Concentration (mg/L): 0.0537 Corrected Conc (ppm): 0.0537



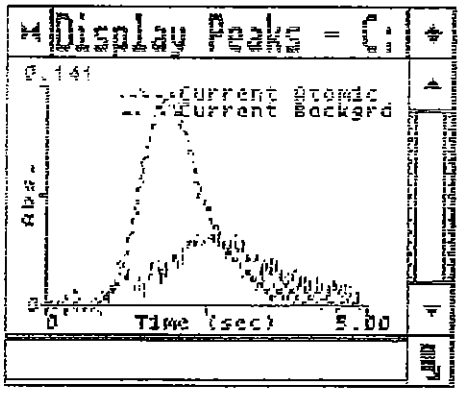
uL dispensed: 5 from 20, 20 from 12
Replicate 2 Time: 14:03
Peak Area (A-s): 0.168 Peak Height (A): 0.152
Background Pk Area (A-s): 0.112 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.171
Concentration (mg/L): 0.0551 Corrected Conc (ppm): 0.0551



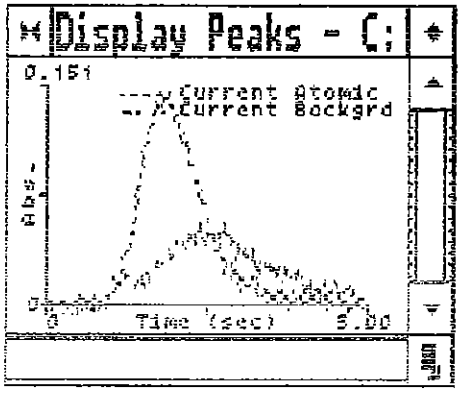
Mean Conc (mg/L): 0.0544 SD: 0.00100 RSD(%): 1.83
Corrected Conc (ppm): 0.0544

As ID: 2809-4 PS F=1 Seq. No.: 00018 A/S Pos.: 13 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 13
Replicate 1 Time: 14:07
Peak Area (A-s): 0.168 Peak Height (A): 0.141
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.171
Concentration (mg/L): 0.0551 Corrected Conc (ppm): 0.0551



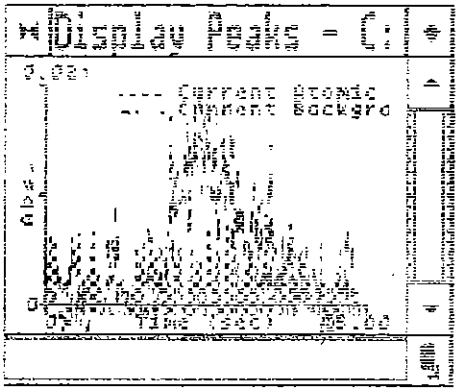
uL dispensed: 5 from 20, 20 from 13
Replicate 2 Time: 14:10
Peak Area (A-s): 0.164 Peak Height (A): 0.151
Background Pk Area (A-s): 0.107 Background Pk Height (A): 0.057
Blank Corrected Pk Area (A-s): 0.167
Concentration (mg/L): 0.0538 Corrected Conc (ppm): 0.0538



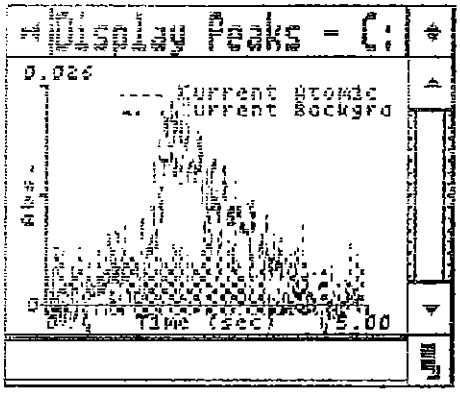
Mean Conc (mg/L): 0.0544 SD: 0.00092 RSD(%): 1.69
Corrected Conc (ppm): 0.0544

As ID: 2809-1 F=1 Seq. No.: 00019 A/S Pos.: 14 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 14
Replicate 1 Time: 14:13
Peak Area (A-s): 0.000 Peak Height (A): 0.009
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0009 Corrected Conc (ppm): 0.0009



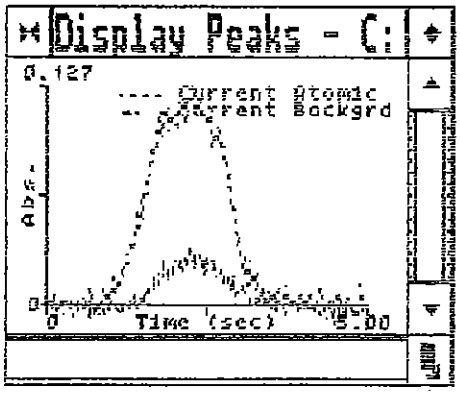
uL dispensed: 5 from 20, 20 from 14
Replicate 2 Time: 14:15
Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.007
Concentration (mg/L): 0.0021 Corrected Conc (ppm): 0.0021



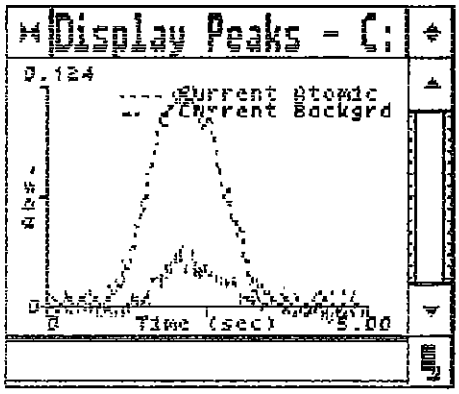
Mean Conc (mg/L): 0.0015 SD: 0.00084 RSD(%): 54.52
Corrected Conc (ppm): 0.0015

As ID: CCV A1271 Seq. No.: 00020 A/S Pos.: 40 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 14:20
Peak Area (A-s): 0.171 Peak Height (A): 0.127
Background Pk Area (A-s): 0.024 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.173
Concentration (mg/L): 0.0558 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 14:23
Peak Area (A-s): 0.166 Peak Height (A): 0.124
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.169
Concentration (mg/L): 0.0544 Corrected Conc (ppm): ----------

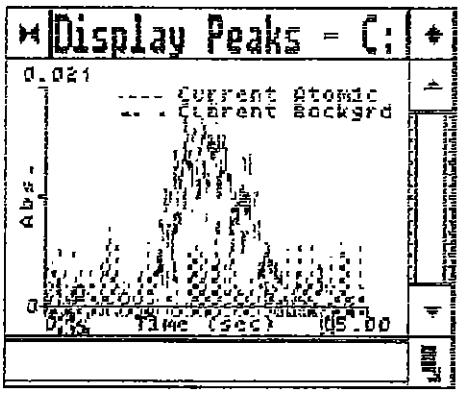


Mean Conc (mg/L): 0.0551 SD: 0.00100 RSD(%): 1.81
Corrected Conc (ppm): ----------

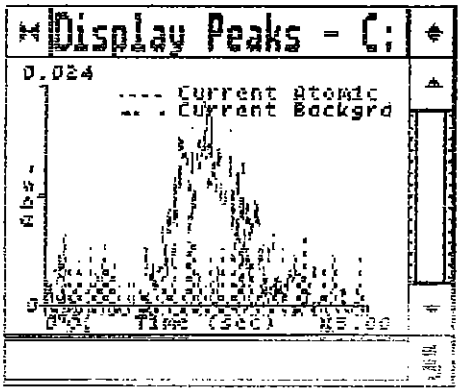
QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00021 A/S Pos.: 1 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 14:26
Peak Area (A-s): -0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0002 Corrected Conc (ppm):----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 14:29
Peak Area (A-s): -0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0002 Corrected Conc (ppm): ----------

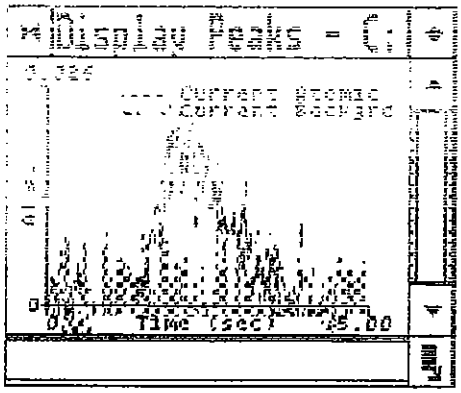


Mean Conc (mg/L): 0.0000 SD: [illegible]
Corrected Conc (ppm): ----------

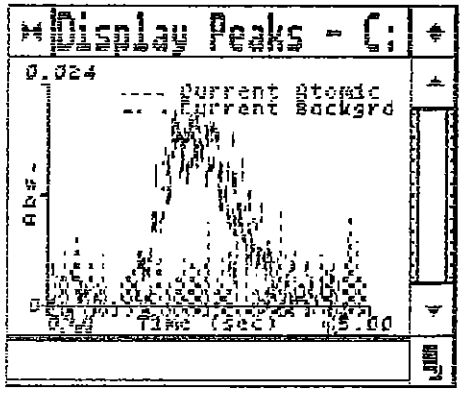
QC sample is within range

As ID: [illegible] Seq No. [illegible] Date: [illegible]

uL dispensed: [illegible]
Replicate [illegible] Time: [illegible]
Peak Area (A-s): [illegible] Peak Height (A): [illegible]
Background Pk Area (A-s): [illegible] Background Pk Height (A): [illegible]
Blank Corrected Pk Area (A-s): [illegible]
Concentration (mg/L): [illegible] Corrected Conc (ppm): [illegible]



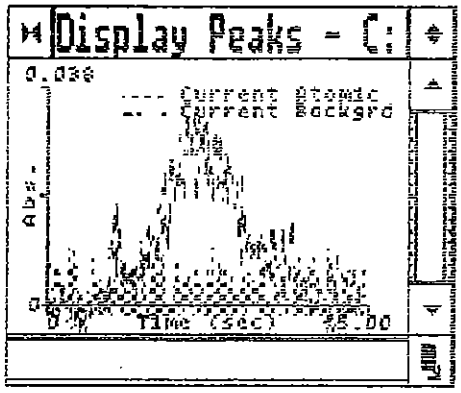
uL dispensed: 5 from 20, 20 from 15
Replicate 2 Time: 14:35
Peak Area (A-s): -0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0003 Corrected Conc (ppm): 0.0003



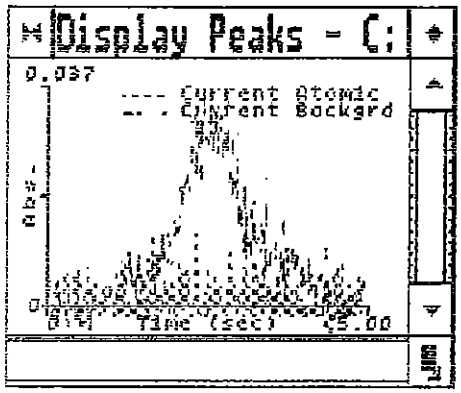
Mean Conc (mg/L): 0.0001 SD: 0.00021 RSD(%): 158.98
Corrected Conc (ppm): 0.0001

As ID: 2809-3 F=1 Seq. No.: 00023 A/S Pos.: 16 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 16
Replicate 1 Time: 14:39
Peak Area (A-s): 0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.043 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0021 Corrected Conc (ppm): 0.0021



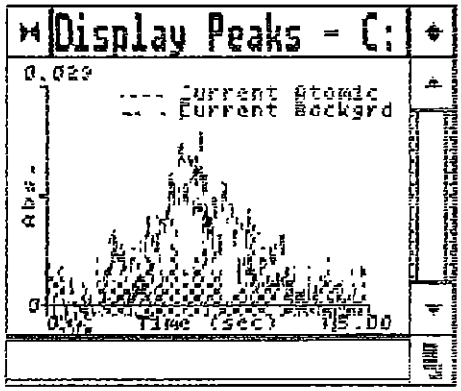
uL dispensed: 5 from 20, 20 from 16
Replicate 2 Time: 14:42
Peak Area (A-s): 0.002 Peak Height (A): 0.013
Background Pk Area (A-s): 0.040 Background Pk Height (A): 0.037
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0014 Corrected Conc (ppm): 0.0014



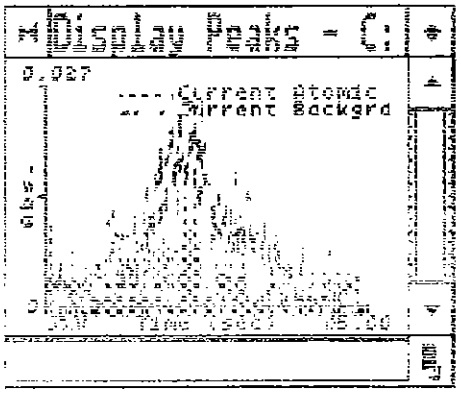
Mean Conc (mg/L): 0.0017 SD: 0.00049 RSD(%): 28.33
Corrected Conc (ppm): 0.0017

As ID: 2809-5 F=1 Seq. No.: 00024 A/S Pos.: 17 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 17
Replicate 1 Time: 14:45
Peak Area (A-s): -0.000 Peak Height (A): 0.011
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0007 Corrected Conc (ppm): 0.0007



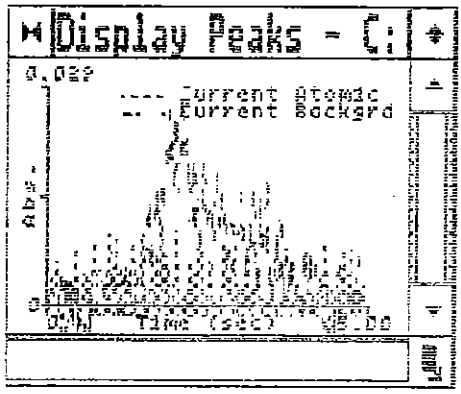
uL dispensed: 5 from 20, 20 from 17
Replicate 2 Time: 14:48
Peak Area (A-s): 0.003 Peak Height (A): 0.013
Background Pk Area (A-s): 0.029 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0018 Corrected Conc (ppm): 0.0018



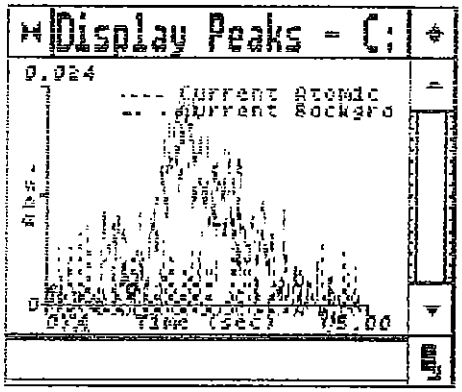
Mean Blk [illegible] 0.0018 SD [illegible] RSD(%): 60.30
Corrected [illegible]

Ar [illegible] 3300-0 P=1 Seq. No.: 00025 A/S Pos.: 18 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 18
Replicate 1 Time: 14:51
Peak Area (A-s): 0.003 Peak Height (A): 0.011
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0018 Corrected Conc (ppm): 0.0018



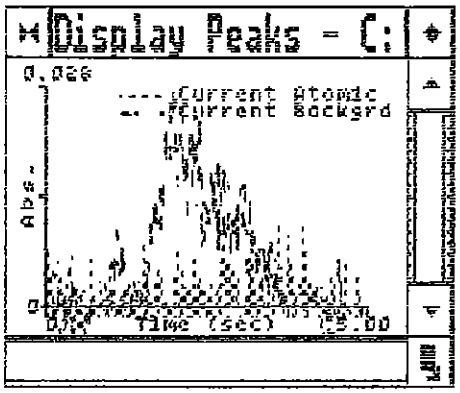
uL dispensed: 5 from 20, 20 from 18
Replicate 2 Time: 14:54
Peak Area (A-s): -0.003 Peak Height (A): 0.009
Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.006
Concentration (mg/L): -0.0000 Corrected Conc (ppm): -0.0000



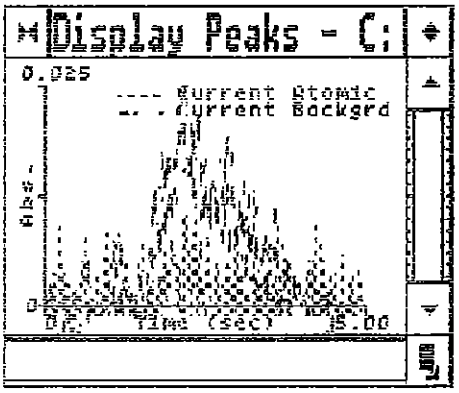
Mean Conc (mg/L): 0.0009 SD: 0.00130 RSD(%): 143.37
Corrected Conc (ppm): 0.0009

As ID: 2809-7 F=1 Seq. No.: 00026 A/S Pos.: 19 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 19
Replicate 1 Time: 14:58
Peak Area (A-s): -0.002 Peak Height (A): 0.013
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0003 Corrected Conc (ppm): 0.0003



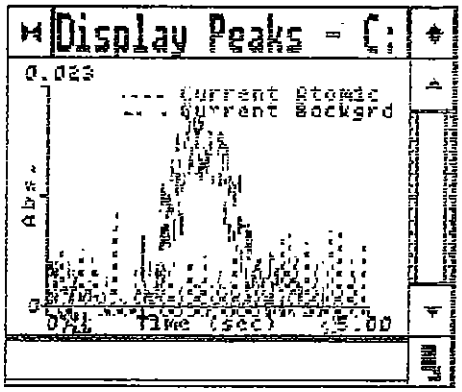
uL dispensed: 5 from 20, 20 from 19
Replicate 2 Time: 15:01
Peak Area (A-s): 0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0019 Corrected Conc (ppm): 0.0019



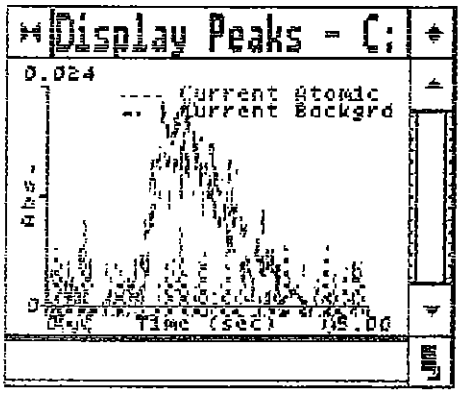
Mean Conc (mg/L): 0.0011 SD: 0.00114 RSD(%): 106.68
Corrected Conc (ppm): 0.0011

As ID: 2809-8 F=1 Seq. No.: 00027 A/S Pos.: 21 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 21
Replicate 1 Time: 15:04
Peak Area (A-s): -0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.000
Concentration (mg/L): 0.0000 Corrected Conc (ppm): 0.0000



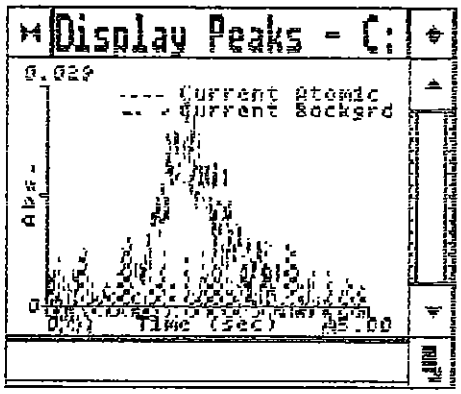
uL dispensed: 5 from 20, 20 from 21
Replicate 2 Time: 15:07
Peak Area (A-s): -0.007 Peak Height (A): 0.009
Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.004
Concentration (mg/L): -0.0012 Corrected Conc (ppm): -0.0012



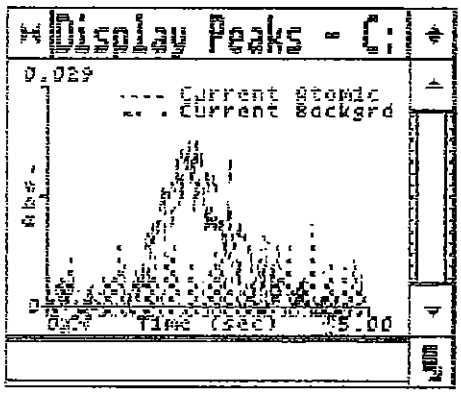
Mean Conc (mg/L): -0.0006 SD: 0.00091 RSD(%): 150.33
Corrected Conc (ppm): -0.0006

As ID: 2819-1 F=1 Seq. No.: 00028 A/S Pos.: 22 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 22
Replicate 1 Time: 15:10
Peak Area (A-s): -0.000 Peak Height (A): 0.009
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0009 Corrected Conc (ppm): 0.0009



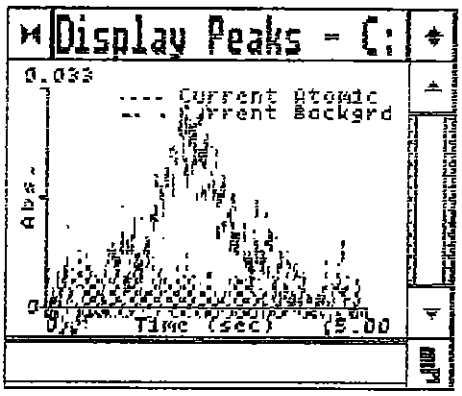
uL dispensed: 5 from 20, 20 from 22
Replicate 2 Time: 15:13
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0013 Corrected Conc (ppm): 0.0013



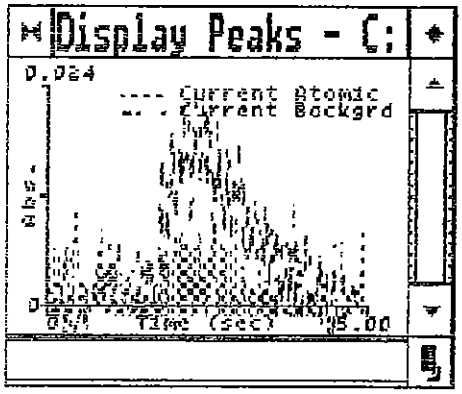
Mean Conc (mg/L): 0.0011 SD: 0.00028 RSD(%): 26.70
Corrected Conc (ppm): 0.0011

As ID: 2819-2 F=1 Seq. No.: 00029 A/S Pos.: 23 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 23
Replicate 1 Time: 15:16
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.033
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0016 Corrected Conc (ppm): 0.0016



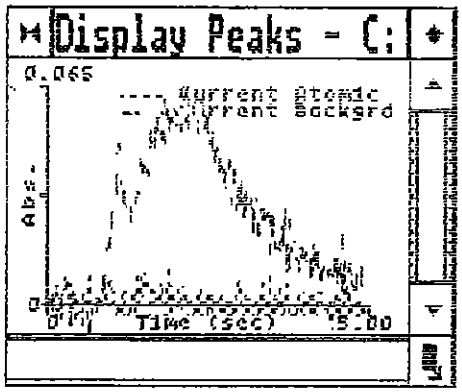
uL dispensed: 5 from 20, 20 from 23
Replicate 2 Time: 15:20
Peak Area (A-s): 0.003 Peak Height (A): 0.011
Background Pk Area (A-s): 0.022 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0019 Corrected Conc (ppm): 0.0019



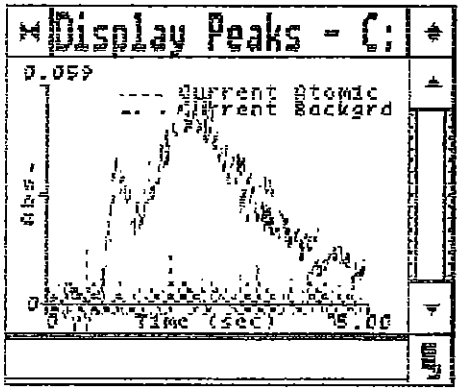
Mean Conc (mg/L): 0.0017 SD: 0.00018 RSD(%): 10.51
Corrected Conc (ppm): 0.0017

As ID: 2819-3 F=1 Seq. No.: 00030 A/S Pos.: 24 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 24
Replicate 1 Time: 15:23
Peak Area (A-s): 0.001 Peak Height (A): 0.012
Background Pk Area (A-s): 0.127 Background Pk Height (A): 0.065
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0011 Corrected Conc (ppm): 0.0011



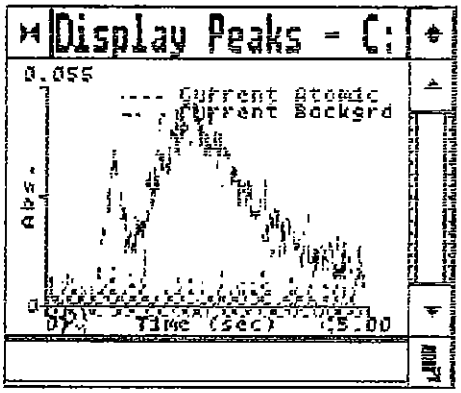
uL dispensed: 5 from 20, 20 from 24
Replicate 2 Time: 15:26
Peak Area (A-s): -0.000 Peak Height (A): 0.016
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.059
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0007 Corrected Conc (ppm): 0.0007



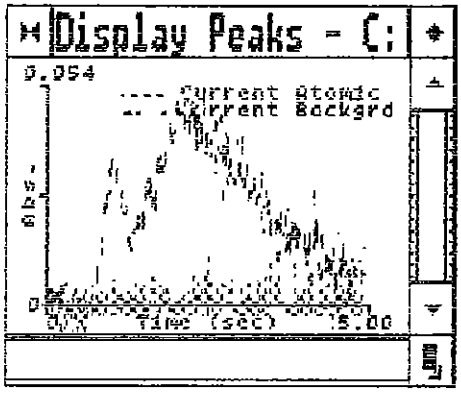
Mean Conc (mg/L): 0.0009 SD: 0.00028 RSD(%): 29.83
Corrected Conc (ppm): 0.0009

As ID: 2819-3 D F=1 Seq. No.: 00031 A/S Pos.: 25 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 25
Replicate 1 Time: 15:29
Peak Area (A-s): -0.000 Peak Height (A): 0.012
Background Pk Area (A-s): 0.107 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0009 Corrected Conc (ppm): 0.0009



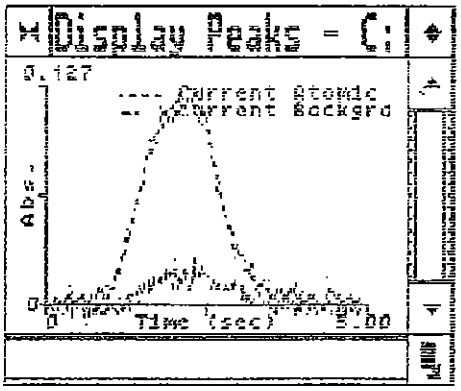
uL dispensed: 5 from 20, 20 from 25
Replicate 2 Time: 15:32
Peak Area (A-s): -0.001 Peak Height (A): 0.013
Background Pk Area (A-s): 0.108 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0005 Corrected Conc (ppm): 0.0005



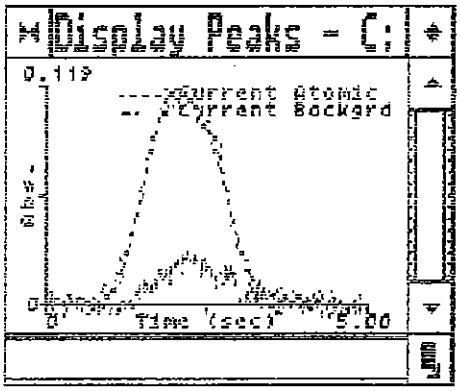
Mean Conc (mg/L): 0.0007 SD: 0.00025 RSD(%): 35.94
Corrected Conc (ppm): 0.0007

As ID: CCV A1271 Seq. No.: 00032 A/S Pos.: 40 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 15:36
Peak Area (A-s): 0.174 Peak Height (A): 0.127
Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.177
Concentration (mg/L): 0.0570 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 15:39
Peak Area (A-s): 0.162 Peak Height (A): 0.119
Background Pk Area (A-s): 0.025 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.165
Concentration (mg/L): 0.0531 Corrected Conc (ppm): ----------

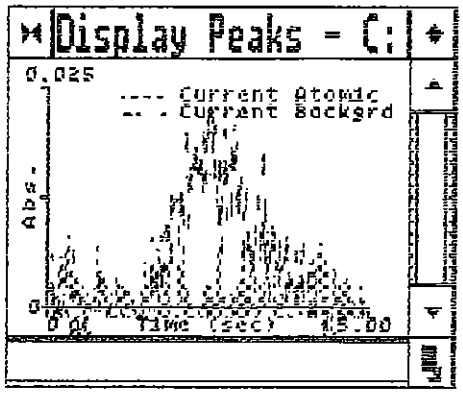


Mean Conc (mg/L): 0.0551 SD: 0.00274 RSD(%): 4.97
Corrected Conc (ppm): ----------

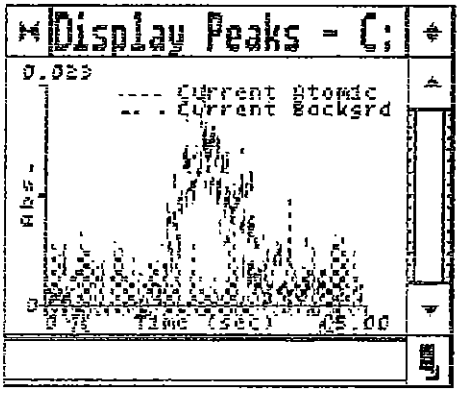
QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00033 A/S Pos.: 1 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 15:42
Peak Area (A-s): -0.004 Peak Height (A): 0.009
Background Pk Area (A-s): 0.015 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0004 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 15:45
Peak Area (A-s): 0.000 Peak Height (A): 0.012
Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0010 Corrected Conc (ppm): ----------

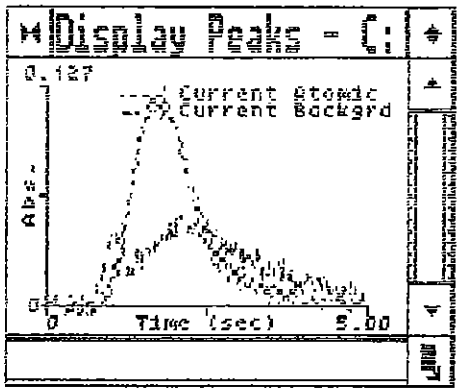


Mean Conc (mg/L): 0.0003 SD: 0.00103 RSD(%): 358.88
Corrected Conc (ppm): ----------

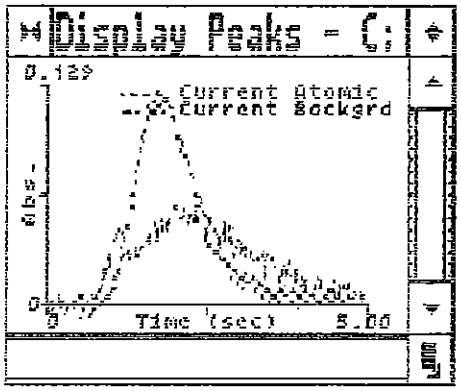
QC sample is within range

As ID: 2819-3 MS F=1 Seq. No.: 00034 A/S Pos.: 26 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 26
Replicate 1 Time: 15:48
Peak Area (A-s): 0.146 Peak Height (A): 0.127
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.054
Blank Corrected Pk Area (A-s): 0.149
Concentration (mg/L): 0.0479 Corrected Conc (ppm): 0.0479



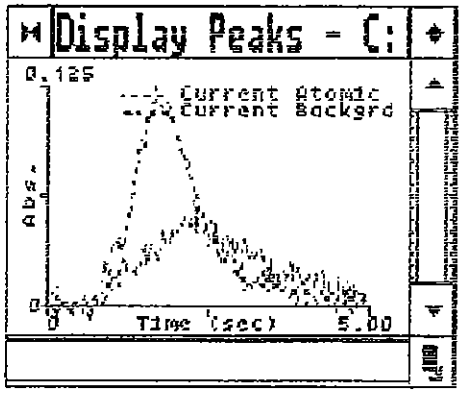
uL dispensed: 5 from 20, 20 from 26
Replicate 2 Time: 15:52
Peak Area (A-s): 0.150 Peak Height (A): 0.129
Background Pk Area (A-s): 0.122 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.152
Concentration (mg/L): 0.0490 Corrected Conc (ppm): 0.0490



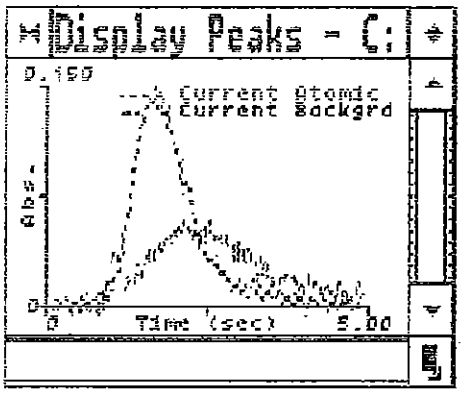
Mean Conc (mg/L): 0.0484 SD: 0.00081 RSD(%): 1.66
Corrected Conc (ppm): 0.0484

As ID: 2819-3 MSD F=1 Seq. No.: 00035 A/S Pos.: 27 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 27
Replicate 1 Time: 15:55
Peak Area (A-s): 0.150 Peak Height (A): 0.125
Background Pk Area (A-s): 0.111 Background Pk Height (A): 0.055
Blank Corrected Pk Area (A-s): 0.153
Concentration (mg/L): 0.0491 Corrected Conc (ppm): 0.0491



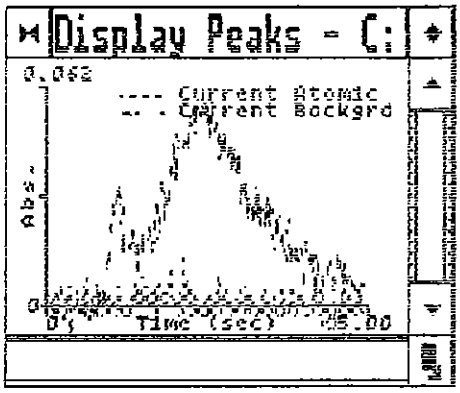
uL dispensed: 5 from 20, 20 from 27
Replicate 2 Time: 15:58
Peak Area (A-s): 0.158 Peak Height (A): 0.150
Background Pk Area (A-s): 0.115 Background Pk Height (A): 0.060
Blank Corrected Pk Area (A-s): 0.161
Concentration (mg/L): 0.0519 Corrected Conc (ppm): 0.0519



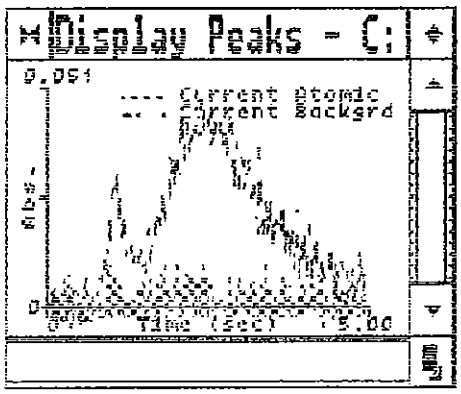
Mean Conc (mg/L): 0.0505 SD: 0.00196 RSD(%): 3.89
Corrected Conc (ppm): 0.0505

As ID: 2819-4 F=1 Seq. No.: 00036 A/S Pos.: 28 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 28
Replicate 1 Time: 16:02
Peak Area (A-s): -0.000 Peak Height (A): 0.014
Background Pk Area (A-s): 0.105 Background Pk Height (A): 0.062
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0008 Corrected Conc (ppm): 0.0008



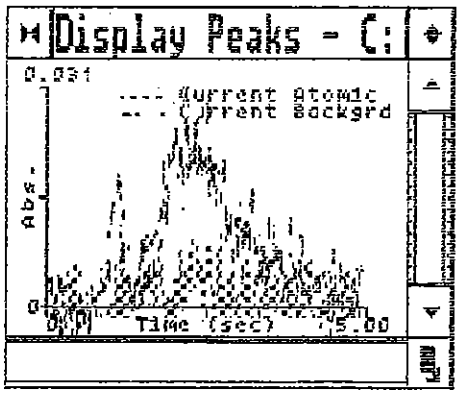
uL dispensed: 5 from 20, 20 from 28
Replicate 2 Time: 16:05
Peak Area (A-s): 0.004 Peak Height (A): 0.011
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.007
Concentration (mg/L): 0.0023 Corrected Conc (ppm): 0.0023



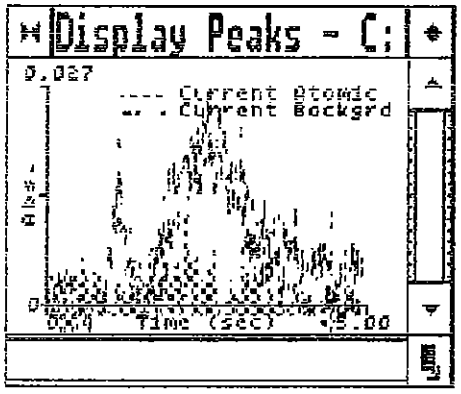
Mean Conc (mg/L): 0.0015 SD: 0.00103 RSD(%): 66.42
Corrected Conc (ppm): 0.0015

As ID: 2819-5 F=1 Seq. No.: 00037 A/S Pos.: 29 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 29
Replicate 1 Time: 16:08
Peak Area (A-s): 0.006 Peak Height (A): 0.011
Background Pk Area (A-s): 0.037 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.009
Concentration (mg/L): 0.0029 Corrected Conc (ppm): 0.0029



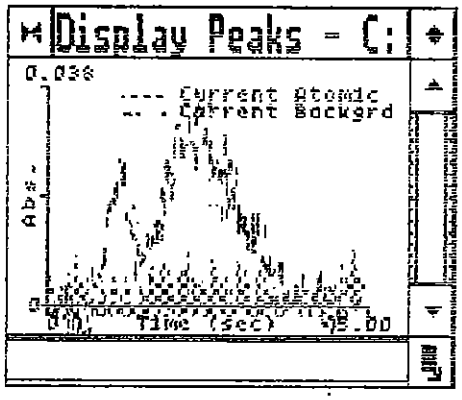
uL dispensed: 5 from 20, 20 from 29
Replicate 2 Time: 16:11
Peak Area (A-s): -0.002 Peak Height (A): 0.012
Background Pk Area (A-s): 0.032 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0002 Corrected Conc (ppm): 0.0002



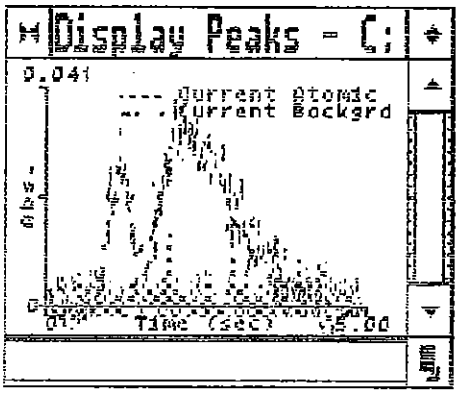
Mean Conc (mg/L): 0.0015 SD: 0.00193 RSD(%): 124.55
Corrected Conc (ppm): 0.0015

As ID: 2819-6 F=1 Seq. No.: 00038 A/S Pos.: 30 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 30
Replicate 1 Time: 16:15
Peak Area (A-s): 0.003 Peak Height (A): 0.010
Background Pk Area (A-s): 0.051 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0018 Corrected Conc (ppm): 0.0018



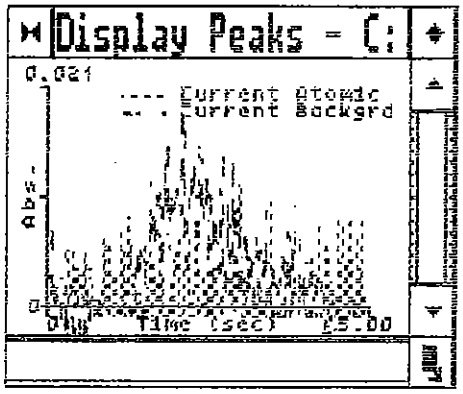
uL dispensed: 5 from 20, 20 from 30
Replicate 2 Time: 16:18
Peak Area (A-s): 0.003 Peak Height (A): 0.014
Background Pk Area (A-s): 0.057 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0017 Corrected Conc (ppm): 0.0017



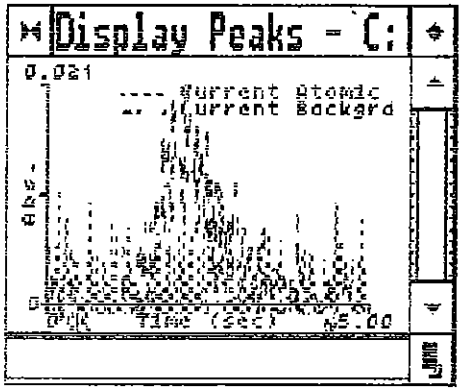
Mean Conc (mg/L): 0.0017 SD: 0.00004 RSD(%): 2.16
Corrected Conc (ppm): 0.0017

As ID: 2767-1 F=1 Seq. No.: 00039 A/S Pos.: 31 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 31
Replicate 1 Time: 16:21
Peak Area (A-s): 0.004 Peak Height (A): 0.012
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0021 Corrected Conc (ppm): 0.0021



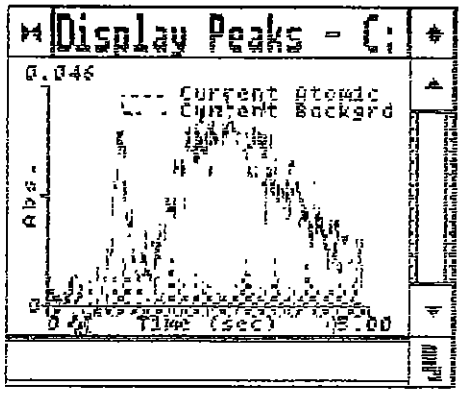
uL dispensed: 5 from 20, 20 from 31
Replicate 2 Time: 16:24
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0016 Corrected Conc (ppm): 0.0016



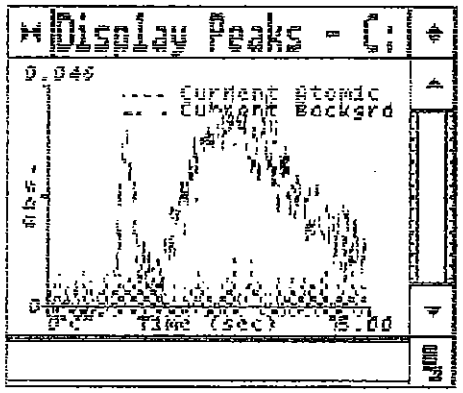
Mean Conc (mg/L): 0.0018 SD: 0.00034 RSD(%): 18.60
Corrected Conc (ppm): 0.0018

As ID: 2767-2 F=1 Seq. No.: 00040 A/S Pos.: 32 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 32
Replicate 1 Time: 16:28
Peak Area (A-s): -0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.096 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0003 Corrected Conc (ppm): 0.0003



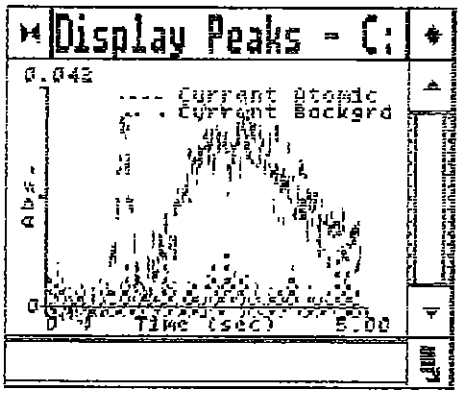
uL dispensed: 5 from 20, 20 from 32
Replicate 2 Time: 16:31
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.093 Background Pk Height (A): 0.046
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0016 Corrected Conc (ppm): 0.0016



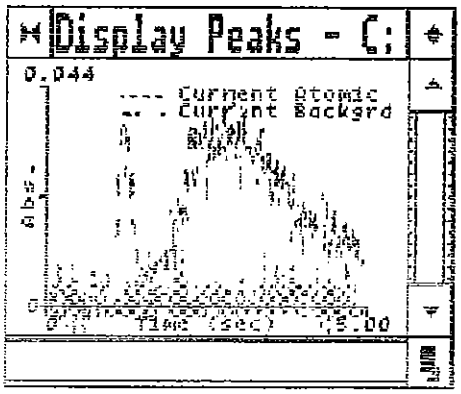
Mean Conc (mg/L): 0.0009 SD: 0.00091 RSD(%): 99.31
Corrected Conc (ppm): 0.0009

As ID: 2767-3 F=1 Seq. No.: 00041 A/S Pos.: 33 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 33
Replicate 1 Time: 16:34
Peak Area (A-s): 0.003 Peak Height (A): 0.011
Background Pk Area (A-s): 0.083 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0019 Corrected Conc (ppm): 0.0019



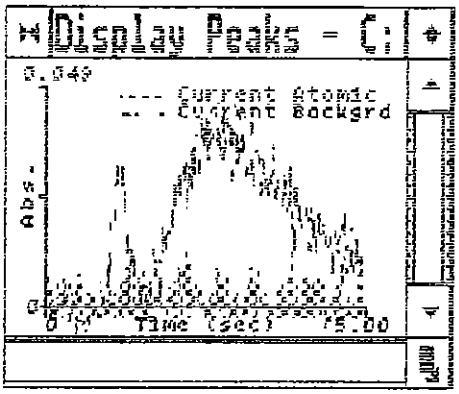
uL dispensed: 5 from 20, 20 from 33
Replicate 2 Time: 16:37
Peak Area (A-s): 0.002 Peak Height (A): 0.012
Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.044
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0015 Corrected Conc (ppm): 0.0015



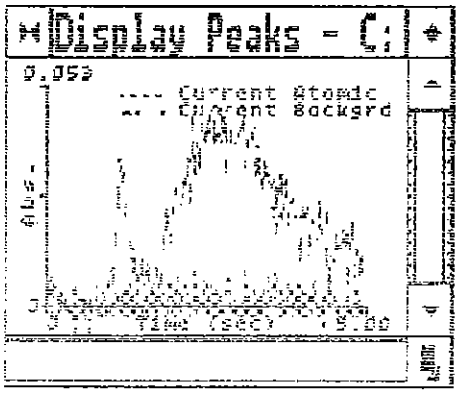
Mean Conc (mg/L): 0.0017 SD: 0.00024 RSD(%): 14.00
Corrected Conc (ppm): 0.0017

As ID: 2767-4 F=1 Seg. No.: 00042 A/S Pos.: 34 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 34
Replicate 1 Time: 16:40
Peak Area (A-s): 0.002 Peak Height (A): 0.014
Background Pk Area (A-s): 0.090 Background Pk Height (A): 0.049
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0017 Corrected Conc (ppm): 0.0017



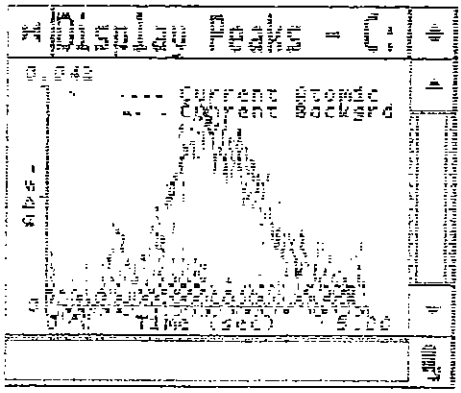
uL dispensed: 5 from 20, 20 from 34
Replicate 2 Time: 16:43
Peak Area (A-s): 0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.099 Background Pk Height (A): 0.053
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0014 Corrected Conc (ppm): 0.0014



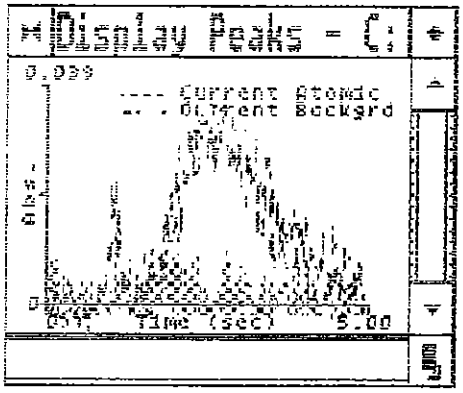
Mean Conc (mg/L): 0.0015 SD: 0.00021 RSD(%): 14.03
Corrected Conc (ppm): 0.0015

As ID: 2767-5 Pol Seq. No.: 00043 A/S Pos.: 35 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 35
Replicate 1 Time: 16:47
Peak Area (A-s): 0.003 Peak Height (A): 0.011
Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.041
Blank Corrected Pk Area (A-s): 0.036
Concentration (mg/L): 0.0013 Corrected Conc (ppm): 0.0013



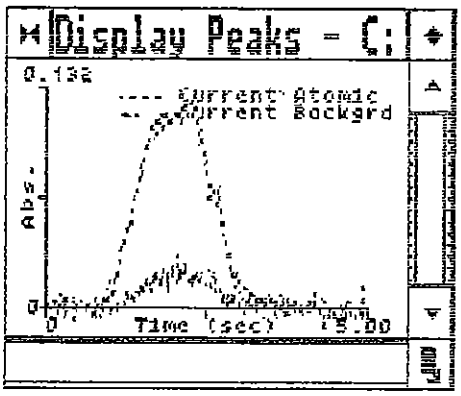
ul dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 16:56
Peak Area (A-s): 0.025 Peak Height (A): 0.011
Background Pk Area (A-s): 0.028 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0025 Corrected Conc (ppm): 0.0025



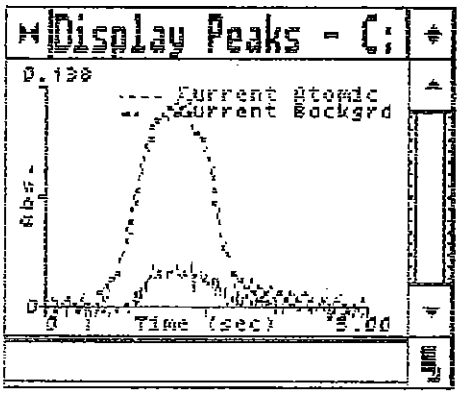
Mean Conc (mg/L): 0.0022 SD: 0.00043 RSD(%): 19.70
Corrected Conc (ppm): 0.0022

As ID: CCV A1271 Seq. No.: 00044 A/S Pos.: 40 Date: 04/23/99

ul dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 16:53
Peak Area (A-s): 0.163 Peak Height (A): 0.132
Background Pk Area (A-s): 0.027 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.165
Concentration (mg/L): 0.0533 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 16:56
Peak Area (A-s): 0.177 Peak Height (A): 0.138
Background Pk Area (A-s): 0.021 Background Pk Height (A): 0.031
Blank Corrected Pk Area (A-s): 0.179
Concentration (mg/L): 0.0577 Corrected Conc (ppm): ----------

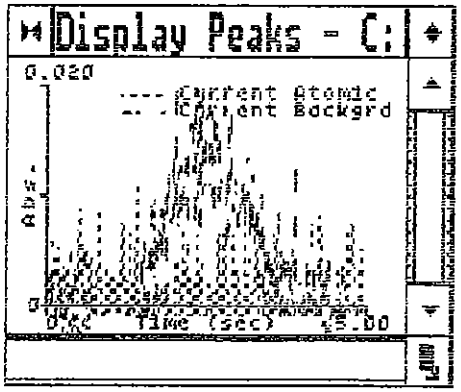


Mean Conc (mg/L): 0.0555 SD: 0.00316 RSD(%): 5.69
Corrected Conc (ppm): ----------

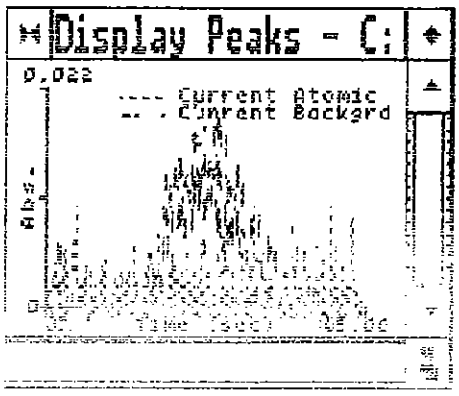
QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00045 A/S Pos.: 1 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 16:59
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.014 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0013 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 17:02
Peak Area (A-s): 0.000 Peak Height (A): 0.010
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0009 Corrected Conc (ppm): ----------



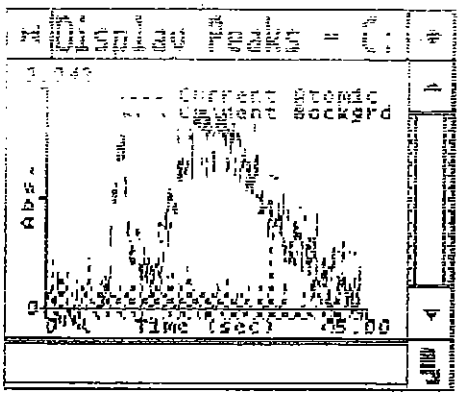
[illegible]

[illegible]

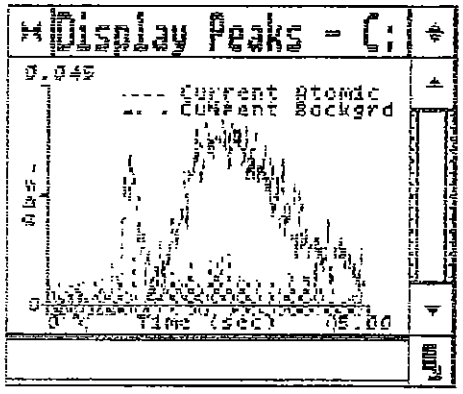
[illegible]

As [illegible] Seq. No.: [illegible] A S Pos.: [illegible] Date: 04/23/99

uL Dispensed: 5 from 20, 20 from 1
Replicate [illegible] Time: 17:03
Peak Area (A-s): [illegible] Peak Height (A): [illegible]
Background Pk Area (A-s): [illegible] Background Pk Height (A): [illegible]
Blank Corrected Pk Area (A-s): [illegible]
Concentration (mg/L): [illegible] Corrected Conc (ppm): [illegible]



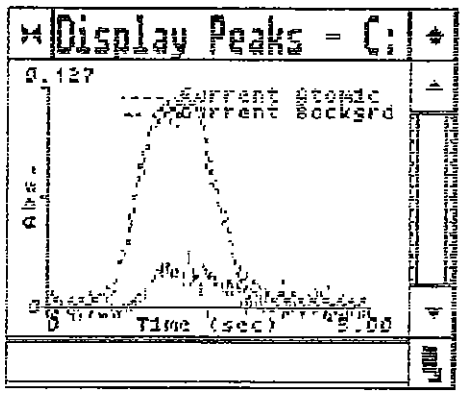
uL dispensed: 5 from 20, 20 from 36
Replicate 2 Time: 17:08
Peak Area (A-s): 0.002 Peak Height (A): 0.011
Background Pk Area (A-s): 0.075 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0016 Corrected Conc (ppm): 0.0016



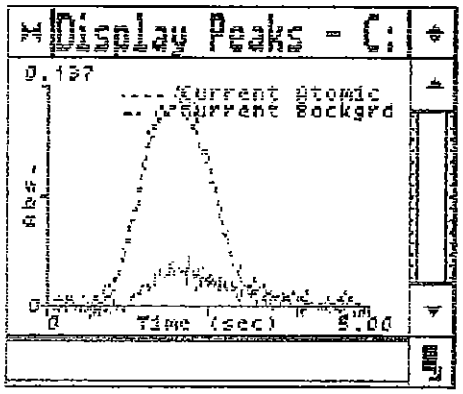
Mean Conc (mg/L): 0.0016 SD: 0.00003 RSD(%): 1.72
Corrected Conc (ppm): 0.0016

As ID: CCV A1271 Seq. No.: 00047 A/S Pos.: 40 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 17:12
Peak Area (A-s): 0.175 Peak Height (A): 0.127
Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.177
Concentration (mg/L): 0.0571 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 17:15
Peak Area (A-s): 0.174 Peak Height (A): 0.137
Background Pk Area (A-s): 0.026 Background Pk Height (A): 0.035
Blank Corrected Pk Area (A-s): 0.177
Concentration (mg/L): 0.0569 Corrected Conc (ppm): ----------

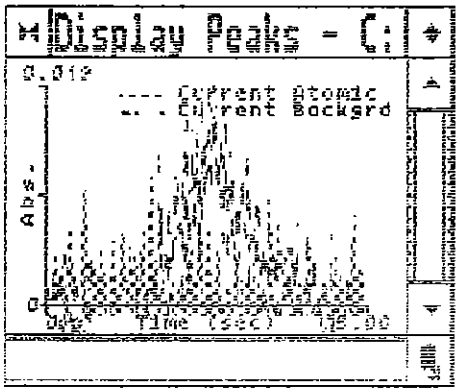


Mean Conc (mg/L): 0.0570 SD: 0.00015 RSD(%): 0.26
Corrected Conc (ppm): ----------

QC sample is within range 0.0425 - 0.0575

As ID: CCB Seq. No.: 00048 A/S Pos.: 1 Date: 04/23/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 17:18
Peak Area (A-s): 0.001 Peak Height (A): 0.011
Background Pk Area (A-s): 0.005 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0011 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1

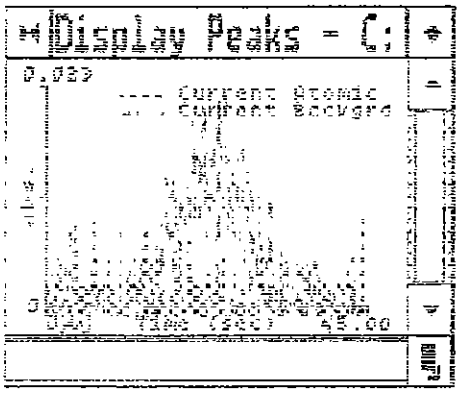
Replicate 2 Time: 17:21

Peak Area (A-s): -0.001 Peak Height (A): 0.012

Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.023

Blank Corrected Pk Area (A-s): 0.002

Concentration (ng/L): 0.0007 Corrected Conc (ppm): ----------



Mean Conc (ng/L): 0.0009 STD: 0.00029 RSD(%): 33.28

Corrected Conc (ppm): ----------

QC sample is within range

Applied P & Ch Laboratory
9760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Metal Digestion (3010/3050) Worksheet

Batch # 03M1359 Matrix: W Method used: 3010 A Date: 4/23/03 Digested by: X I Diluted by: YW

Lot #: ASTM Type I water RW1408 HNO_3 1102120 H_2SO_4 _____ HCl 4102050 H_2O_2 023267

OP #	Type	Samp ID /Lot #	X (g or mL)	$V_{digest}/X = f_1$	$V_f/V_i = f_2$	$V_f'/V_i' = f_3$	$F=f_1f_2f_3$	Note
3991	Method Blank	Bl. Lot RW1408	50	50 /X= 1	/ =	/ =		23 Me
3992	LCS1	Bl. Lot: "		/X=	/ =	/ =		
3993	Sample-1	2809—4		/X=	/ =	/ =		T=95°C
3994	MS1 on S-1	—4		/X=	/ =	/ =		
3995	MS2 on S-1	—4		/X=	/ =	/ =		
3996	Sample 2	—1		/X=	/ =	/ =		
3997	Sample 3	—2		/X=	/ =	/ =		
3998	Sample 4	—3		/X=	/ =	/ =		
3999	Sample 5	—5		/X=	/ =	/ =		
4000	Sample 6	—6		/X=	/ =	/ =		
4001	Sample 7	—7		/X=	/ =	/ =		
4002	Sample 8	—8		/X=	/ =	/ =		
4003	Sample 9	2822—1		/X=	/ =	/ =		
4004	Sample 10	2805—19		/X=	/ =	/ =	F=10 for KNa	
4005	LCS2	Bl. Lot RW1408		/X=	/ =	/ =		
4006	Sample 11	2820—5		/X=	/ =	/ =		
4007	Sample 12	—6		/X=	/ =	/ =		
4008	Sample 13	—9		/X=	/ =	/ =	F=10 for KNa	
4009	Sample 14	2815—1		/X=	/ =	/ =		
4010	Sample 15			/X=	/ =	/ =		
4011	Sample 16			/X=	/ =	/ =		
4012	Sample 17			/X=	/ =	/ =		
4013	Sample 18			/X=	/ =	/ =		
4014	Sample 19	XI	4/23/03	/X=	/ =	/ =		
4015	Sample 20			/X=	/ =	/ =		
4016	Duplicate	2809—4	50	50 /X= 1	/ =	/ =		

Specification of matrix spike and lab control spike

QC Type	Spiked Element *	Spike Stock Solution Lot #	Spike Stock (Rep.) Conc. C_s, μg/mL	Spike Stock Volum Used V_s mL	Spike Level $T'=C_sV_s/V$ ppm or mg/L	Sample Spike T, ppm
MS1	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA-4133	/ / / 25	/ / / 2	/ / / 1	
MS2	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA- "	/ / /	/ / /	/ / /	
LCS1	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA-4192	/ / /	/ / /	/ / /	
LCS2	/AsSe/Sb/M_{20}	AA- /AA- /AA- /AA- "	/ / /	/ / /	/ / /	

* Notation: T – rep. sample spike level. T' – digest solution spike level. $T=f\,T'=C_sV_s/X$. M20 (or Mj) represents 20 (or j) metals, (see STD logbook).
If digest needs dilution for different metals, use dilution worksheet.

Supervisor Initial YW

Applied P & Ch Laboratory
3760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Metal Digestion (3010/3050) Worksheet

Batch # 03M1360 Matrix: W Method used: 3020A Date: 4/23/03 Digested by: XI Diluted by: _____

Lot #: ASTM Type I water RW1408 HNO_3 _____ H_2SO_4 _____ HCl _____ H_2O_2 _____

OP #	Type	Samp ID /Lot #	X (g or mL)	$V_{digest}/X = f_1$	$V_f/V_i = f_2$	$V_f'/V_i' = f_3$	$F=f_1f_2f_3$	Note
4017	Method Blank	Bl. Lot RW1408	50	50 /X= 1	/ =	/ =		GFAA-As
4018	LCS1	Bl. Lot: "		/X=	/ =	/ =		T=98°C
4019	Sample-1	2809 -4		/X=	/ =	/ =		
4020	MS1 on S-1	-4		/X=	/ =	/ =		
4021	MS2 on S-1	-4		/X=	/ =	/ =		
4022	Sample 2	-1		/X=	/ =	/ =		
4023	Sample 3	-2		/X=	/ =	/ =		
4024	Sample 4	-3		/X=	/ =	/ =		
4025	Sample 5	-5		/X=	/ =	/ =		
4026	Sample 6	-6		/X=	/ =	/ =		
4027	Sample 7	-7		/X=	/ =	/ =		
4028	Sample 8	-8		/X=	/ =	/ =		
4029	Sample 9	2767 -1		/X=	/ =	/ =		
4030	Sample 10	-2		/X=	/ =	/ =		
4031	LCS2	Bl. Lot RW1408		/X=	/ =	/ =		
4032	Sample 11	-3		/X=	/ =	/ =		
4033	Sample 12	-4		/X=	/ =	/ =		
4034	Sample 13	-5		/X=	/ =	/ =		
4035	Sample 14	-6		/X=	/ =	/ =		
4036	Sample 15	2819 -1		/X=	/ =	/ =		
4037	Sample 16	-2		/X=	/ =	/ =		
4038	Sample 17	-3		/X=	/ =	/ =		MS/MSD
4039	Sample 18	-4		/X=	/ =	/ =		
4040	Sample 19	-5		/X=	/ =	/ =		
4041	Sample 20	-6		/X=	/ =	/ =		
4042	Duplicate	2809-4	✓	✓ /X= ✓	/ =	/ =		

Specification of matrix spike and lab control spike

QC Type	Spiked Element *	Spike Stock Solution Lot #	Spike Stock (Rep.) Conc. C_s, μg/mL	Spike Stock Volum Used V_s mL	Spike Level $T'=C_sV_s/V$ ppm or mg/L	Sample Spike T, ppm
MS1	/As/Se/Sb/M_{20}	AA- /AA-W/AA- /AA-	/ 5 /	10.5 /	0.05 /	
MS2	/As/Se/Sb/M_{20}	AA- /AA-11 /AA- /AA-	/ / /	/ / /	/ / /	
LCS1	/As/Se/Sb/M_{20}	AA- /AA-W/ /AA- /AA-	/ / /	/ / /	/ / /	
LCS2	/As/Se/Sb/M_{20}	AA- /AA-11 /AA- /AA-	✓ / /	✓ / /	✓ / /	

* Notation: T – rep. sample spike level. T' – digest solution spike level. $T=f\,T'=C_sV_s/X$. M20 (or M_j) represents 20 (or j) metals, (see STD logbook).

If digest needs dilution for different metals, use dilution worksheet.

APCL form 6-116 April. 03, 1996. Ver. 4.0 No pencil. Use blue pen for record. Use red pen for correction.

Root-File:[CUST.DOC.AA]DIGEST_ROOT.TEX File:[CUST.DOC.AA]DIGEST .TEX

Supervisor Initial [illegible]

Level C Data Package Deliverables

Wet Chemistry

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Wet Analysis Results for Method SM2320B

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	SM2320B
Project ID:	JPL	Service ID:	32809	Collected by:	

Component Name: Bicarbonate
CAS No:

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2809-1	DUPE-1-2Q03	Water	04/21/03	04/21/03	04/24/03	03W2539	mg/L	2	161	
03-2809-2	EB-2-4/21/03	Water	04/21/03	04/21/03	04/24/03	03W2539	mg/L	2	<2	U
03-2809-3	MW-4-1	Water	04/21/03	04/21/03	04/24/03	03W2539	mg/L	2	179	
03-2809-4	MW-4-2	Water	04/21/03	04/21/03	04/24/03	03W2539	mg/L	2	224	
03-2809-5	MW-4-3	Water	04/21/03	04/21/03	04/24/03	03W2539	mg/L	2	197	
03-2809-6	MW-4-4	Water	04/21/03	04/21/03	04/24/03	03W2539	mg/L	2	147	
03-2809-7	MW-4-5	Water	04/21/03	04/21/03	04/24/03	03W2539	mg/L	2	120	
03-2809-8	SOURCE-2Q03	Water	04/21/03	04/21/03	04/24/03	03W2539	mg/L	2	<2	U
03W2539-MB-01	03W2539-MB-01	Water	04/24/03	04/24/03	04/24/03	03W2539	mg/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method SM2320B

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	SM2320B
Project ID:	JPL	Service ID:	32809	Collected by:	

Component Name: Carbonate
CAS No:

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2809-1	DUPE-1-2Q03	Water	04/21/03	04/21/03	04/24/03	03W2539	mg-$CaCO_3$/L	2	<2	U
03-2809-2	EB-2-4/21/03	Water	04/21/03	04/21/03	04/24/03	03W2539	mg-$CaCO_3$/L	2	<2	U
03-2809-3	MW-4-1	Water	04/21/03	04/21/03	04/24/03	03W2539	mg-$CaCO_3$/L	2	<2	U
03-2809-4	MW-4-2	Water	04/21/03	04/21/03	04/24/03	03W2539	mg-$CaCO_3$/L	2	<2	U
03-2809-5	MW-4-3	Water	04/21/03	04/21/03	04/24/03	03W2539	mg-$CaCO_3$/L	2	<2	U
03-2809-6	MW-4-4	Water	04/21/03	04/21/03	04/24/03	03W2539	mg-$CaCO_3$/L	2	<2	U
03-2809-7	MW-4-5	Water	04/21/03	04/21/03	04/24/03	03W2539	mg-$CaCO_3$/L	2	10.2	
03-2809-8	SOURCE-2Q03	Water	04/21/03	04/21/03	04/24/03	03W2539	mg-$CaCO_3$/L	2	<2	U
03W2539-MB-01	03W2539-MB-01	Water	04/24/03	04/24/03	04/24/03	03W2539	mg-$CaCO_3$/L	2	<2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method 9040B

Client Name: GEOFON, Inc. Project No: 04-4428.10 Anal. Method 9040B
Project ID: JPL Service ID: 32809 Collected by:

Component Name: pH
CAS No: 10-29-7

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2809-1	DUPE-1-2Q03	Water	04/21/03	04/21/03	04/21/03	03W2477	pH unit	0.01	7.88	
03-2809-2	EB-2-4/21/03	Water	04/21/03	04/21/03	04/21/03	03W2477	pH unit	0.01	7.85	
03-2809-3	MW-4-1	Water	04/21/03	04/21/03	04/21/03	03W2477	pH unit	0.01	7.28	
03-2809-4	MW-4-2	Water	04/21/03	04/21/03	04/21/03	03W2477	pH unit	0.01	7.05	
03-2809-5	MW-4-3	Water	04/21/03	04/21/03	04/21/03	03W2477	pH unit	0.01	7.58	
03-2809-6	MW-4-4	Water	04/21/03	04/21/03	04/21/03	03W2477	pH unit	0.01	8.01	
03-2809-7	MW-4-5	Water	04/21/03	04/21/03	04/21/03	03W2477	pH unit	0.01	8.47	
03-2809-8	SOURCE-2Q03	Water	04/21/03	04/21/03	04/21/03	03W2477	pH unit	0.01	6.60	
03W2477-MB-01	03W2477-MB-01	Water	04/21/03	04/21/03	04/21/03	03W2477	pH unit	0.01	6.86	

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method 160.1

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	160.1
Project ID:	JPL	Service ID:	32809	Collected by:	

Component Name: Solids, Total Dissolved (TDS)
CAS No: 10-33-3

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2809-1	DUPE-1-2Q03	Water	04/21/03	04/21/03	04/22/03	03W2500	mg/L	10	221	
03-2809-2	EB-2-4/21/03	Water	04/21/03	04/21/03	04/22/03	03W2500	mg/L	10	<10	U
03-2809-3	MW-4-1	Water	04/21/03	04/21/03	04/22/03	03W2500	mg/L	10	244	
03-2809-4	MW-4-2	Water	04/21/03	04/21/03	04/22/03	03W2500	mg/L	10	587	
03-2809-5	MW-4-3	Water	04/21/03	04/21/03	04/22/03	03W2500	mg/L	10	226	
03-2809-6	MW-4-4	Water	04/21/03	04/21/03	04/22/03	03W2500	mg/L	10	191	
03-2809-7	MW-4-5	Water	04/21/03	04/21/03	04/22/03	03W2500	mg/L	10	133	
03-2809-8	SOURCE-2Q03	Water	04/21/03	04/21/03	04/22/03	03W2500	mg/L	10	<10	U
03W2500-MB-01	03W2500-MB-01	Water	04/22/03	04/22/03	04/22/03	03W2500	mg/L	10	<10	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method 7196

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	7196
Project ID:	JPL	Service ID:	32809	Collected by:	

Component Name: Chromium (VI)
CAS No: 1333-82-0

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2809-1	DUPE-1-2Q03	Water	04/21/03	04/21/03	04/21/03	03W2476	mg/L	0.01	<0.01	U
03-2809-2	EB-2-4/21/03	Water	04/21/03	04/21/03	04/21/03	03W2476	mg/L	0.01	<0.01	U
03-2809-3	MW-4-1	Water	04/21/03	04/21/03	04/21/03	03W2476	mg/L	0.01	<0.01	U
03-2809-4	MW-4-2	Water	04/21/03	04/21/03	04/21/03	03W2476	mg/L	0.01	<0.01	U
03-2809-5	MW-4-3	Water	04/21/03	04/21/03	04/21/03	03W2476	mg/L	0.01	<0.01	U
03-2809-6	MW-4-4	Water	04/21/03	04/21/03	04/21/03	03W2476	mg/L	0.01	<0.01	U
03-2809-7	MW-4-5	Water	04/21/03	04/21/03	04/21/03	03W2476	mg/L	0.01	<0.01	U
03-2809-8	SOURCE-2Q03	Water	04/21/03	04/21/03	04/21/03	03W2476	mg/L	0.01	<0.01	U
03W2476-MB-01	03W2476-MB-01	Water	04/21/03	04/21/03	04/21/03	03W2476	mg/L	0.01	<0.01	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method 314.0

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	314.0
Project ID:	JPL	Service ID:	32809	Collected by:	

Component Name: Perchlorate

CAS No:

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2809-1	DUPE-1-2Q03	Water	04/21/03	04/21/03	04/22/03	03W2496	μg/L	4	<4	U
03-2809-2	EB-2-4/21/03	Water	04/21/03	04/21/03	04/22/03	03W2496	μg/L	4	<4	U
03-2809-3	MW-4-1	Water	04/21/03	04/21/03	04/22/03	03W2496	μg/L	4	<4	U
03-2809-4	MW-4-2	Water	04/21/03	04/21/03	04/22/03	03W2496	μg/L	4	6.6	
03-2809-5	MW-4-3	Water	04/21/03	04/21/03	04/22/03	03W2496	μg/L	4	<4	U
03-2809-6	MW-4-4	Water	04/21/03	04/21/03	04/22/03	03W2496	μg/L	4	<4	U
03-2809-7	MW-4-5	Water	04/21/03	04/21/03	04/22/03	03W2496	μg/L	4	<4	U
03-2809-8	SOURCE-2Q03	Water	04/21/03	04/21/03	04/22/03	03W2496	μg/L	4	<4	U
03W2496-MB-01	03W2496-MB-01	Water	04/22/03	04/22/03	04/22/03	03W2496	μg/L	4	<4	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.

Qualifier: U - Not Detected or less than MDL

B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

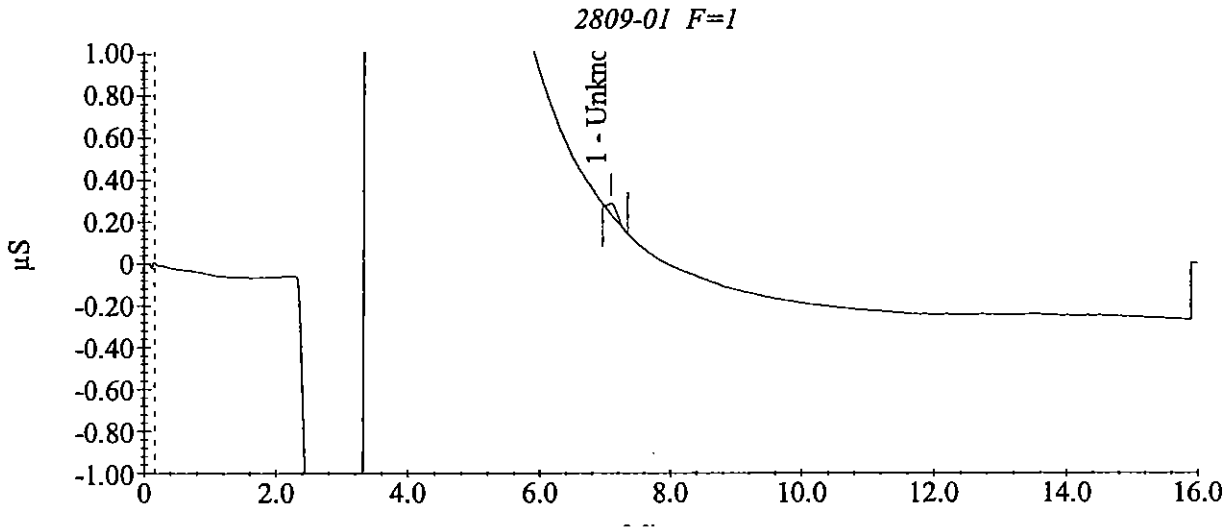
APCL Perchlorate Analysis Report

Sample Name : 2809-01 F=1
Data File Name : C:\DATA\03W2496K\2809-01_009.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/22/2003 8:22:16 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



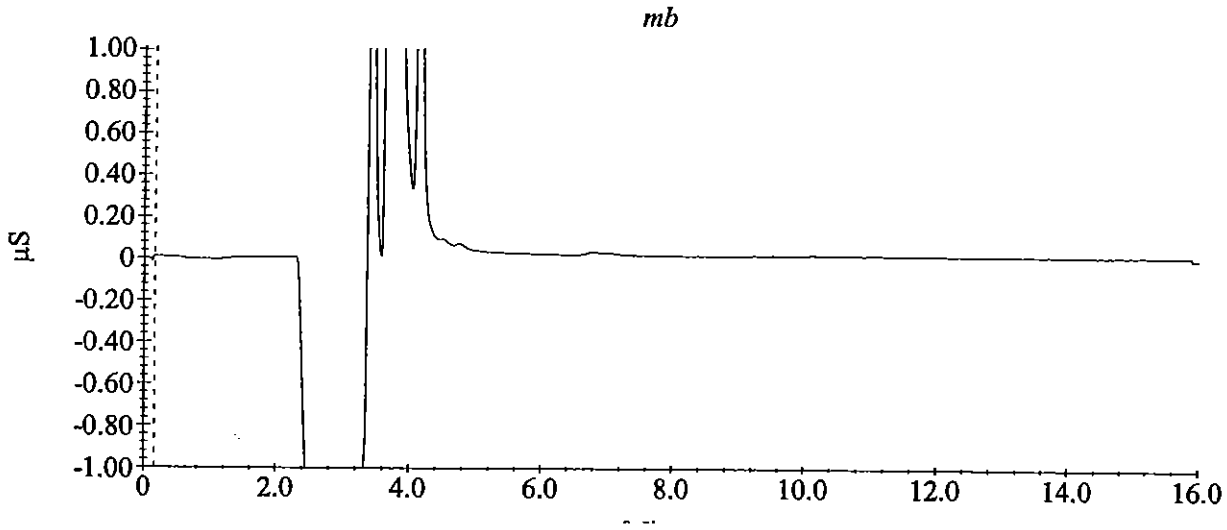
APCL Perchlorate Analysis Report

Sample Name : mb
Data File Name : C:\DATA\03W2496K\W2496K K01_007.DXD

Method File Name : c:\peaknet\method\e314-011.met
Date Time Collected : 04/22/2003 7:45:08 PM
System Operator : C.W and W.W
Dilution Factor : 1.00

Peak Information : All Components

Peak #	Component Name	Retention Time	Amount (ppb)	Peak Area	Peak Height



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Wet Analysis Results for Method 300.0

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	300.0
Project ID:	JPL	Service ID:	32809	Collected by:	

Component Name: Chloride Cl^-
CAS No: 16887-00-6

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2809-1	DUPE-1-2Q03	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.5	24.2	
03-2809-2	EB-2-4/21/03	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.25	0.25	B
03-2809-3	MW-4-1	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.4	18.8	
03-2809-4	MW-4-2	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	4	95.4	
03-2809-5	MW-4-3	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.8	27.4	
03-2809-6	MW-4-4	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.8	22.7	
03-2809-7	MW-4-5	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.8	22.5	
03-2809-8	SOURCE-2Q03	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.25	0.21	B
03W2479-MB-01	03W2479-MB-01	Water	04/22/03	04/22/03	04/22/03	03W2479	mg/L	0.2	<0.2	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method 300.0

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Anal. Method	300.0
Project ID:	JPL	Service ID:	32809	Collected by:	

Component Name: Nitrate as N
CAS No: 14797-55-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2809-1	DUPE-1-2Q03	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.1	1.7	
03-2809-2	EB-2-4/21/03	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.05	0.078	
03-2809-3	MW-4-1	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.08	1.5	
03-2809-4	MW-4-2	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.8	10.0	
03-2809-5	MW-4-3	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.16	0.24	
03-2809-6	MW-4-4	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.16	1.7	
03-2809-7	MW-4-5	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.16	0.20	
03-2809-8	SOURCE-2Q03	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.05	0.075	
03W2479-MB-01	03W2479-MB-01	Water	04/22/03	04/22/03	04/22/03	03W2479	mg/L	0.04	<0.04	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.

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Wet Analysis Results for Method 300.0

Client Name: GEOFON, Inc. Project No: 04-4428.10 Anal. Method 300.0
Project ID: JPL Service ID: 32809 Collected by:

Component Name: Sulfate SO_4^{--}
CAS No: 14808-79-8

Lab ID	Sample ID	Matrix	Coll. Date	Rcv Date	Anal. Date	Batch	Unit	RL	Result	Q
03-2809-1	DUPE-1-2Q03	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	1.3	9.5	
03-2809-2	EB-2-4/21/03	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.63	0.73	
03-2809-3	MW-4-1	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	1	40.7	
03-2809-4	MW-4-2	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	10	124	
03-2809-5	MW-4-3	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	2	2.3	
03-2809-6	MW-4-4	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	2	10.2	
03-2809-7	MW-4-5	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	2	8.2	
03-2809-8	SOURCE-2Q03	Water	04/21/03	04/21/03	04/22/03	03W2479	mg/L	0.63	<0.63	U
03W2479-MB-01	03W2479-MB-01	Water	04/22/03	04/22/03	04/22/03	03W2479	mg/L	0.5	<0.5	U

Not Detected is shown as PQL, with dilution and moisture corrected if applicable.

Note: Q - Qualifier.
Qualifier: U - Not Detected or less than MDL
B - Less than RL (PQL, EQL or CRDL), but greater than MDL.