Level C Data Package Deliverables

Metals

Applied P & Ch Laboratory

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Collection Date:	05/13/2003
Project ID:	JPL	Service ID:	33102	Collected by:	
		Lab Sample ID:	03M1458-MB-01	Received Date:	05/13/2003
Sample ID:	**03M1458-MB-01**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Method Blank				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ARSENIC	7440-38-2	µg/L	5	< 5	U	F		03M1458E	05/13/03	05/13/03	1	200.9
CALCIUM	7440-70-2	µg/L	200	< 200	U	P		03M1442L	05/08/03	05/08/03	1	200.7
IRON	7439-89-6	µg/L	50	6.5	B	P		03M1442L	05/08/03	05/08/03	1	200.7
MAGNESIUM	7439-95-4	µg/L	100	22.5	B	P		03M1442L	05/08/03	05/08/03	1	200.7
POTASSIUM	7440-09-7	µg/L	400	39.1	B	P		03M1442L	05/08/03	05/08/03	1	200.7
SODIUM	7440-23-5	µg/L	2000	400	B	P		03M1442L	05/08/03	05/08/03	1	200.7

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

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

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

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Collection Date:	05/07/2003
Project ID:	JPL	Service ID:	33102	Collected by:	
		Lab Sample ID:	03-3102-1	Received Date:	05/07/2003
Sample ID:	**DUPE-6-2Q03**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ARSENIC	7440-38-2	µg/L	5	< 5	U	F		03M1458E	05/13/03	05/13/03	1	200.9
CALCIUM	7440-70-2	µg/L	200	44800		P		03M1442L	05/08/03	05/08/03	1	200.7
IRON	7439-89-6	µg/L	50	62.8		P		03M1442L	05/08/03	05/08/03	1	200.7
MAGNESIUM	7439-95-4	µg/L	100	14400		P		03M1442L	05/08/03	05/08/03	1	200.7
POTASSIUM	7440-09-7	µg/L	400	2790		P		03M1442L	05/08/03	05/08/03	1	200.7
SODIUM	7440-23-5	µg/L	2000	23400		P		03M1442L	05/08/03	05/08/03	1	200.7

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

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

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

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Collection Date:	05/07/2003
Project ID:	JPL	Service ID:	33102	Collected by:	
		Lab Sample ID:	03-3102-2	Received Date:	05/07/2003
Sample ID:	**EB-11-5/7/03**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ARSENIC	7440-38-2	µg/L	5	< 5	U	F		03M1458E	05/13/03	05/13/03	1	200.9
CALCIUM	7440-70-2	µg/L	200	< 200	U	P		03M1442L	05/08/03	05/08/03	1	200.7
IRON	7439-89-6	µg/L	50	16.4	B	P		03M1442L	05/08/03	05/08/03	1	200.7
MAGNESIUM	7439-95-4	µg/L	100	25.9	B	P		03M1442L	05/08/03	05/08/03	1	200.7
POTASSIUM	7440-09-7	µg/L	400	70.9	B	P		03M1442L	05/08/03	05/08/03	1	200.7
SODIUM	7440-23-5	µg/L	2000	931	B	P		03M1442L	05/08/03	05/08/03	1	200.7

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

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

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

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Collection Date:	05/07/2003
Project ID:	JPL	Service ID:	33102	Collected by:	
		Lab Sample ID:	03-3102-3	Received Date:	05/07/2003
Sample ID:	**MW-12-1**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ARSENIC	7440-38-2	µg/L	5	< 5	U	F		03M1458E	05/13/03	05/13/03	1	200.9
CALCIUM	7440-70-2	µg/L	200	60100		P		03M1442L	05/08/03	05/08/03	1	200.7
IRON	7439-89-6	µg/L	50	572		P		03M1442L	05/08/03	05/08/03	1	200.7
MAGNESIUM	7439-95-4	µg/L	100	21600		P		03M1442L	05/08/03	05/08/03	1	200.7
POTASSIUM	7440-09-7	µg/L	400	3430		P		03M1442L	05/08/03	05/08/03	1	200.7
SODIUM	7440-23-5	µg/L	2000	24500		P		03M1442L	05/08/03	05/08/03	1	200.7

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

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

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

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Collection Date:	05/07/2003
Project ID:	JPL	Service ID:	33102	Collected by:	
		Lab Sample ID:	03-3102-4	Received Date:	05/07/2003
Sample ID:	**MW-12-2**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ARSENIC	7440-38-2	µg/L	5	< 5	U	F		03M1458E	05/13/03	05/13/03	1	200.9
CALCIUM	7440-70-2	µg/L	200	56400		P		03M1442L	05/08/03	05/08/03	1	200.7
IRON	7439-89-6	µg/L	50	204		P		03M1442L	05/08/03	05/08/03	1	200.7
MAGNESIUM	7439-95-4	µg/L	100	17000		P		03M1442L	05/08/03	05/08/03	1	200.7
POTASSIUM	7440-09-7	µg/L	400	2910		P		03M1442L	05/08/03	05/08/03	1	200.7
SODIUM	7440-23-5	µg/L	2000	23700		P		03M1442L	05/08/03	05/08/03	1	200.7

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

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

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

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Collection Date:	05/07/2003
Project ID:	JPL	Service ID:	33102	Collected by:	
		Lab Sample ID:	03-3102-5	Received Date:	05/07/2003
Sample ID:	**MW-12-3**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ARSENIC	7440-38-2	μg/L	5	<5	U	F		03M1458E	05/13/03	05/13/03	1	200.9
CALCIUM	7440-70-2	μg/L	200	45300		P		03M1442L	05/08/03	05/08/03	1	200.7
IRON	7439-89-6	μg/L	50	64.2		P		03M1442L	05/08/03	05/08/03	1	200.7
MAGNESIUM	7439-95-4	μg/L	100	14600		P		03M1442L	05/08/03	05/08/03	1	200.7
POTASSIUM	7440-09-7	μg/L	400	2760		P		03M1442L	05/08/03	05/08/03	1	200.7
SODIUM	7440-23-5	μg/L	2000	23600		P		03M1442L	05/08/03	05/08/03	1	200.7

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

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

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

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Collection Date:	05/07/2003
Project ID:	JPL	Service ID:	33102	Collected by:	
		Lab Sample ID:	03-3102-6	Received Date:	05/07/2003
Sample ID:	**MW-12-4**	Sample Matrix	Water	Moisture %:	-
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ARSENIC	7440-38-2	µg/L	5	< 5	U	F		03M1458E	05/13/03	05/13/03	1	200.9
CALCIUM	7440-70-2	µg/L	200	56900		P		03M1442L	05/08/03	05/08/03	1	200.7
IRON	7439-89-6	µg/L	50	74.4		P		03M1442L	05/08/03	05/08/03	1	200.7
MAGNESIUM	7439-95-4	µg/L	100	13500		P		03M1442L	05/08/03	05/08/03	1	200.7
POTASSIUM	7440-09-7	µg/L	400	2120		P		03M1442L	05/08/03	05/08/03	1	200.7
SODIUM	7440-23-5	µg/L	2000	23200		P		03M1442L	05/08/03	05/08/03	1	200.7

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

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

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

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

Applied P & Ch Laboratory

Metal Analysis Results

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Collection Date:	05/07/2003
Project ID:	JPL	Service ID:	33102	Collected by:	
		Lab Sample ID:	03-3102-7	Received Date:	05/07/2003
Sample ID:	**MW-12-5**	Sample Matrix	Water	Moisture %:	–
Sample Type:	Field Sample				

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ARSENIC	7440-38-2	µg/L	5	< 5	U	F		03M1458E	05/13/03	05/13/03	1	200.9
CALCIUM	7440-70-2	µg/L	200	39500		P		03M1442L	05/08/03	05/08/03	1	200.7
IRON	7439-89-6	µg/L	50	286		P		03M1442L	05/08/03	05/08/03	1	200.7
MAGNESIUM	7439-95-4	µg/L	100	11100		P		03M1442L	05/08/03	05/08/03	1	200.7
POTASSIUM	7440-09-7	µg/L	400	2080		P		03M1442L	05/08/03	05/08/03	1	200.7
SODIUM	7440-23-5	µg/L	2000	35100		P		03M1442L	05/08/03	05/08/03	1	200.7

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

Note: RL: PQL (EQL) or CRDL D-Date: Digestion Date; A-Date: Analysis Date; DF: Dilution Factor

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

Q Qualifier: N - Spike recovery out of control * - Duplicate analysis out of control

W - Post digestion spike for GFAA out of control E - Serial dilution difference out of control

M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1442L
		Instrument:	ICP -L	Method:	200.7
Batch No.(s):	03M1442				

Analysis Date: **05/08/03** Concentration Units: **UG/L**

#	Analyte	ICV	12:47		CCV	13:06		CCV	13:33		CCV	14:01	
		True	Result	%R	True	Result	%R	True	Result	%R	True	Result	%R
1	Calcium	100000.0	99157.68	99.2	50000.0	50933.48	101.9	50000.0	49353.50	98.7	50000.0	50677.68	101.4
2	Iron	10000.0	9950.21	99.5	5000.0	4980.48	99.6	5000.0	4891.39	97.8	5000.0	5003.66	100.1
3	Magnesium	50000.0	51051.63	102.1	25000.0	25016.86	100.1	25000.0	24834.93	99.3	25000.0	25378.85	101.5
4	Potassium	30000.0	29959.65	99.9	15000.0	15169.41	101.1	15000.0	15006.94	100.0	15000.0	15035.59	100.2
5	Sodium	200000.0	197263.13	98.6	100000.0	104546.71	104.5	100000.0	102475.75	102.5	100000.0	105263.09	105.3

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1442L
		Instrument:	ICP -L	Method:	200.7
Batch No.(s):	03M1442				

Analysis Date: **05/08/03** Concentration Units: **UG/L**

#	Analyte	CCV	14:24		CCV	14:52		CCV	15:18		CCV	15:36	
		True	Result	%R	True	Result	%R	True	Result	%R	True	Result	%R
1	Calcium	50000.0	50736.71	101.5	50000.0	50446.97	100.9	50000.0	50846.14	101.7	50000.0	50191.61	100.4
2	Iron	5000.0	5071.85	101.4	5000.0	4977.75	99.6	5000.0	4958.01	99.2	5000.0	5057.88	101.2
3	Magnesium	25000.0	25642.50	102.6	25000.0	25159.45	100.6	25000.0	25248.49	101.0	25000.0	25320.68	101.3
4	Potassium	15000.0	15551.38	103.7	15000.0	15194.11	101.3	15000.0	15141.38	100.9	15000.0	15156.78	101.0
5	Sodium	100000.0	107049.55	107.0	100000.0	105128.01	105.1	100000.0	104240.20	104.2	100000.0	103058.88	103.1

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1458E
		Instrument:	GFAA-E	Method:	200.9
Batch No.(s):	03M1458				

Analysis Date: **05/13/03** Concentration Units: **UG/L**

#	Analyte	ICV True	11:10 Result	%R	CCV True	12:27 Result	%R	CCV True	13:42 Result	%R	CCV True	14:59 Result	%R
1	Arsenic	50.0	51.40	102.8	50.0	56.60	113.2	50.0	55.60	111.2	50.0	64.60	129.2

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

FORM-2A Metal

Applied P & Ch Laboratory

Initial and Continuing Calibration Verification

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1458E
		Instrument:	GFAA-E	Method:	200.9
Batch No.(s):	03M1458				

Analysis Date: **05/13/03** Concentration Units: **UG/L**

#	Analyte	CCV True	15:15 Result	%R	CCV True	16:06 Result	%R	True	Result	%R	True	Result	%R
1	Arsenic	50.0	51.00	102.0	50.0	49.70	99.4						

(a) ICV Control Limit 95-105%; For Hg, 90-110%.

(b) CCV Control Limit 90-110%; For Hg, 80-120%.

FORM-2B Metal

Applied P & Ch Laboratory

CRDL Standard For AA and ICP

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1442L
		Instrument:	ICP -L	Method:	200.7
Batch No.(s):	03M1442				

Analysis Date: **05/08/03**

Concentration Units: **UG/L**

#	Analyte	True	12:58 Found	R%	Time Found	R%
1	Calcium	1000.0	1044.07	104.4		
2	Iron	50.0	46.86	93.7		
3	Magnesium		14.04			
4	Potassium		45.67			
5	Sodium		375.85			

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1442L
		Instrument:	ICP -L	Method:	200.7

Batch No.(s): 03M1442

Analysis Date: **05/08/03** Concentration Units: **UG/L**

#	Analyte	ICB Result	12:51 C	CCB Result	13:08 C	CCB Result	13:36 C	CCB Result	14:04 C	CCB Result	14:27 C
1	Calcium	-550.40		59.00	U	-283.01		-501.76		-295.18	
2	Iron	1.50	U	11.92	B	1.50	U	2.03	B	2.67	B
3	Magnesium	11.37	B	40.30	B	9.70	U	16.76	B	17.63	B
4	Potassium	37.50	B	42.52	B	41.79	B	43.33	B	41.42	B
5	Sodium	309.43	B	463.29	B	303.00	B	537.71	B	239.23	B

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1442L
		Instrument:	ICP -L	Method:	200.7
Batch No.(s):	03M1442				

Analysis Date: **05/08/03** Concentration Units: **UG/L**

#	Analyte	CCB Result	14:55 C	CCB Result	15:20 C	CCB Result	15:38 C	CCB Result	Time C	CCB Result	Time C
1	Calcium	-404.48		-190.57	B	-127.93	B				
2	Iron	3.10	B	3.23	B	70.00					
3	Magnesium	20.34	B	50.91	B	163.85					
4	Potassium	49.06	B	46.57	B	46.48	B				
5	Sodium	234.15	B	568.97	B	233.38	B				

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1458E
		Instrument:	GFAA-E	Method:	200.9
Batch No.(s):	03M1458				

Analysis Date: **05/13/03** Concentration Units: **UG/L**

#	Analyte	ICB Result	11:17 C	CCB Result	12:34 C	CCB Result	13:49 C	CCB Result	15:06 C	CCB Result	15:21 C
1	Arsenic	2.10	U	2.10	U	2.10	U	2.10	U	2.10	U

FORM-3 Metal

Applied P & Ch Laboratory

Metal ICB/CCB Summary

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1458E
		Instrument:	GFAA-E	Method:	200.9
Batch No.(s):	03M1458				

Analysis Date: **05/13/03** Concentration Units: **UG/L**

#	Analyte	CCB Result	16:12 C	CCB Result	Time C	CCB Result	Time C	CCB Result	Time C	CCB Result	Time C
1	Arsenic	2.10	U								

FORM-4 Metal

Applied P & Ch Laboratory

ICP Interference Check Sample

Client Name: GEOFON, Inc.
Project Name: JPL
Batch No.(s): 03M1442

Project No: 04-4428.10
Service ID: 033102
ICP ID Number: ICP -L

Lab Code: APCL
Sequence No.: 03M1442L

Analysis Date: **05/08/03**

Concentration Units: **UG/L**

#	Analyte	Expected Sol. A	Expected Sol. AB	Initial 13:00 Sol. A	Found 13:03 Sol. AB	%R	Final 15:31 Sol. A	Found 15:33 Sol. AB	%R
1	Calcium	500000	500000	468054	470353.8	94.1	459157	462841.1	92.6
2	Iron	200000	200000	179857	184181.8	92.1	178418	186233.3	93.1
3	Magnesium	500000	500000	472613	481539.6	96.3	473200	491814.1	98.4
4	Potassium	0	0	42	33.1		50	38.3	
5	Sodium	0	0	35	375.7		121	494.6	

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 200.7

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03M1442L		
MS Filename:	-	Date Analyzed:	050803	Time Analyzed:	13:26
MSD Filename:	-	Date Analyzed:	050803	Time Analyzed:	13:28
MS Sample No:	**MW-11-3**	Sample Lab ID:	03-3082-4		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
CALCIUM	µg/L	20000	38600	59200	103	75-125
IRON	µg/L	1000	2310	3420	111	75-125
MAGNESIUM	µg/L	10000	11900	22700	108	75-125
POTASSIUM	µg/L	5000	2050	7690	113	75-125
SODIUM	µg/L	40000	24700	69200	111	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
CALCIUM	µg/L	20000	57800	96	7	20	75-125
IRON	µg/L	1000	3270	96	14	20	75-125
MAGNESIUM	µg/L	10000	21600	97	11	20	75-125
POTASSIUM	µg/L	5000	7850	116	3	20	75-125
SODIUM	µg/L	40000	66000	103	7	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-5A Metal

Applied P & Ch Laboratory

Matrix Spike/Matrix Spike Duplicate Recovery for Method 200.9

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03M1458E		
MS Filename:	-	Date Analyzed:	051303	Time Analyzed:	12:01
MSD Filename:	-	Date Analyzed:	051303	Time Analyzed:	12:08
MS Sample No:	**MW-11-3**	Sample Lab ID:	03-3082-4		

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration MS	MS Rec% #	QC Limit, % REC
ARSENIC	µg/L	50	0	54.9	110	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
ARSENIC	µg/L	50	55.0	110	0	20	75-125
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

FORM-5B Metal

Applied P & Ch Laboratory

Post Digest Spike Sample Recovery

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1442L
		Batch No.:	03M1442	Method:	200.7
Spike Sample No. :	03-3082-04	Matrix:	WATER	Instrument:	ICP -L
Client Sample No.:	**MW-11-3**	Analysis Date:	05/08/03		

Concentration Units: **UG/L**

#	Analyte	Spiked Sample Result(SSR)	13:31 C	Sample Result(SR)	13:18 C	Spike Added(SA)	% Rec.	Control Limit	Q
1	Calcium	58408.4219		38602.4375		20000.00	99.0	75-125	
2	Iron	3324.6311		2311.5544		1000.00	101.3	75-125	
3	Magnesium	22020.9512		11939.2461		10000.00	100.8	75-125	
4	Potassium	7691.8008		2051.4998		5000.00	112.8	75-125	
5	Sodium	67122.6719		24669.8223		40000.00	106.1	75-125	

FORM-5B Metal

Applied P & Ch Laboratory

Post Digest Spike Sample Recovery

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1458E
		Batch No.:	03M1458	Method:	200.9
Spike Sample No. :	03-3082-04	Matrix:	WATER	Instrument:	GFAA-E
Client Sample No.:	MW-11-3	Analysis Date:	05/13/03		

Concentration Units: **UG/L**

#	Analyte	Spiked Sample Result(SSR)	12:14 C	Sample Result(SR)	11:42 C	Spike Added(SA)	% Rec.	Control Limit	Q
1	Arsenic	56.4000		0.9000	U	50.00	112.8	75-125	

FORM-6 Metal

Applied P & Ch Laboratory

Duplicates Verification

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1442L
		Batch No.:	03M1442	Method:	200.7
Spike Sample No.	03-3082-04	Matrix:	WATER	Instrument:	ICP -L
Client Sample No.	MW-11-3	% Solid:	0.00	Analysis Date:	05/08/03

Concentration Unit: **UG/L**

#	Analyte	13:18 Sample(s)	C	13:21 Duplicate	C	RPD(%)	Q
1	Calcium	38602.4375		39149.0078		1.4	
2	Iron	2311.5544		2342.1619		1.3	
3	Magnesium	11939.2461		12161.7412		1.8	
4	Potassium	2051.4998		2012.4011		1.9	
5	Sodium	24669.8223		25210.3086		2.2	

FORM-6 Metal

Applied P & Ch Laboratory

Duplicates Verification

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1458E
		Batch No.:	03M1458	Method:	200.9
Spike Sample No.	03-3082-04	Matrix:	WATER	Instrument:	GFAA-E
Client Sample No.	MW-11-3	% Solid:	0.00	Analysis Date:	05/13/03

Concentration Unit: **UG/L**

#	Analyte	11:42 Sample(s)	C	11:48 Duplicate	C	RPD(%)	Q
1	Arsenic	0.9000	U	0.5000	U		

FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 200.9

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03M1458E		
LCS Filename:	-	Date Analyzed:	051303	Time Analyzed:	11:29
LCSD Filename:	-	Date Analyzed:	051303	Time Analyzed:	11:36

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
ARSENIC	µg/L	50	0	56.8	114	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
ARSENIC	µg/L	50	57.1	114	0	20	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

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FORM-7 Metal

Applied P & Ch Laboratory

Lab Control Spike/Lab Control Spike Duplicate Recovery for Method 200.7

Client Name:	GEOFON, Inc.	Contract No:		Lab Code:	APCL
Case No:		SAS No:		Service ID:	33102
Project ID:	JPL	Project No:	04-4428.10	Sample Matrix:	Water
		Batch No:	03M1442L		
LCS Filename:	-	Date Analyzed:	050803	Time Analyzed:	13:13
LCSD Filename:	-	Date Analyzed:	050803	Time Analyzed:	13:16

Spiked Components	Unit	Spike Added	Concentration Unspiked	Concentration LCS	LCS Rec% #	QC Limit, % REC
CALCIUM	µg/L	20000	0	20400	102	80-120
IRON	µg/L	1000	0	1030	103	80-120
MAGNESIUM	µg/L	10000	0	9390	94	80-120
POTASSIUM	µg/L	5000	0	4890	98	80-120
SODIUM	µg/L	40000	0	41800	105	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, % RPD	QC Limit, % REC
CALCIUM	µg/L	20000	20500	103	1	20	80-120
IRON	µg/L	1000	1040	104	1	20	80-120
MAGNESIUM	µg/L	10000	9430	94	0	20	80-120
POTASSIUM	µg/L	5000	4900	98	0	20	80-120
SODIUM	µg/L	40000	41300	103	2	20	80-120
# of Out-of-control				0	0		

Column to be used to flag recovery and RPD values:

* – Values outside of contract required QC Limits D – Spiked components diluted out

Comments: _____

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FORM-9 Metal

Applied P & Ch Laboratory

Serial Dilution

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1442L
		Batch No.:	03M1442	Method:	200.7
Dilution Sample No.:	03-3082-04	Matrix:	WATER	Instrument:	ICP -L
Client Sample No.:	**MW-11-3**	Analysis Date:	05/08/03		

Concentration Units: **UG/L**

#	Analyte	Initial Sample Results(I)	13:18 C	Serial Dilut Results(S)	13:23 C	% Diff.	Q
1	Calcium	38602.44		38426.93		0.5	
2	Iron	2311.55		2332.19		0.9	
3	Magnesium	11939.25		11456.36		4.0	
4	Potassium	2051.50		1838.65	B	10.4	
5	Sodium	24669.82		23330.49		5.4	

FORM-9 Metal

Applied P & Ch Laboratory

Serial Dilution

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1458E
		Batch No.:	03M1458	Method:	200.9
Dilution Sample No.:	03-3082-04	Matrix:	WATER	Instrument:	GFAA-E
Client Sample No.:	**MW-11-3**	Analysis Date:	05/13/03		

Concentration Units: **UG/L**

#	Analyte	Initial Sample Results(I)	11:42 C	Serial Dilut Results(S)	11:55 C	% Diff.	Q
1	Arsenic	0.90	U	-0.50	U		

FORM-13 Metal

Applied P & Ch Laboratory

Preparation Log

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1442L
		Batch No.:	03M1442	Method:	200.7
Preparation Matrix:	WATER	Instrument:	ICP -L		

#	Client Sample No.	APCL Sample No.	Preparation Date	Weight (gram)	Volume (ml)
1	MW-11-3	03-3082-04DM	05/08/03		50.0
2	EB-10-5/6/03	03-3082-01	05/08/03		50.0
3	MW-11-1	03-3082-02	05/08/03		50.0
4	MW-11-2	03-3082-03	05/08/03		50.0
5	MW-11-4	03-3082-05	05/08/03		50.0
6	MW-11-5	03-3082-06	05/08/03		50.0
7	DUPE-6-2Q03	03-3102-01	05/08/03		50.0
8	EB-11-5/7/03	03-3102-02	05/08/03		50.0
9	MW-12-1	03-3102-03	05/08/03		50.0
10	MW-12-2	03-3102-04	05/08/03		50.0
11	MW-12-3	03-3102-05	05/08/03		50.0
12	MW-12-4	03-3102-06	05/08/03		50.0
13	MW-12-5	03-3102-07	05/08/03		50.0
14	A	03-3105-01	05/08/03		50.0
15	B	03-3105-02	05/08/03		50.0
16	C	03-3105-03	05/08/03		50.0
17	D	03-3105-04	05/08/03		50.0
18		03M1442MB	05/08/03		50.0
19		03M1442LCS	05/08/03		50.0
20		03M1442LCSD	05/08/03		50.0
21	MW-11-3 Dup.	03M1442MD	05/08/03		50.0
22	MW-11-3 MS	03M1442MS	05/08/03		50.0
23	MW-11-3 MSD	03M1442MSD	05/08/03		50.0

FORM-13 Metal

Applied P & Ch Laboratory

Preparation Log

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1458E
		Batch No.:	03M1458	Method:	200.9
Preparation Matrix:	WATER	Instrument:	GFAA-E		

#	Client Sample No.	APCL Sample No.	Preparation Date	Weight (gram)	Volume (ml)
1	MW-11-3	03-3082-04DM	05/13/03		50.0
2	EB-10-5/6/03	03-3082-01	05/13/03		50.0
3	MW-11-1	03-3082-02	05/13/03		50.0
4	MW-11-2	03-3082-03	05/13/03		50.0
5	MW-11-4	03-3082-05	05/13/03		50.0
6	MW-11-5	03-3082-06	05/13/03		50.0
7	DUPE-6-2Q03	03-3102-01	05/13/03		50.0
8	EB-11-5/7/03	03-3102-02	05/13/03		50.0
9	MW-12-1	03-3102-03	05/13/03		50.0
10	MW-12-2	03-3102-04	05/13/03		50.0
11	MW-12-3	03-3102-05	05/13/03		50.0
12	MW-12-4	03-3102-06	05/13/03		50.0
13	MW-12-5	03-3102-07	05/13/03		50.0
14	EB-12-5/8/03	03-3130-01	05/13/03		50.0
15	MW-22-1	03-3130-02	05/13/03		50.0
16	MW-22-2	03-3130-03	05/13/03		50.0
17	MW-22-3	03-3130-04	05/13/03		50.0
18	MW-22-4	03-3130-05	05/13/03		50.0
19	MW-22-5	03-3130-06	05/13/03		50.0
20		03M1458MB	05/13/03		50.0
21		03M1458LCS	05/13/03		50.0
22		03M1458LCSD	05/13/03		50.0
23	MW-11-3 Dup.	03M1458MD	05/13/03		50.0
24	MW-11-3 MS	03M1458MS	05/13/03		50.0
25	MW-11-3 MSD	03M1458MSD	05/13/03		50.0

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1442L
		Instrument:	ICP -L	Method:	200.7
Batch No.(s):	03M1442	Start Date:	05/08/03	End Date:	05/08/03

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
1	Calib Blank	1.00	12:37	√									√		√					√			√										
2	STD1 1423A	1.00	12:40	√									√		√					√			√										
3	STD2 1423B	1.00	12:42	√									√		√					√			√										
4	STD3 1423C	1.00	12:45	√									√		√					√			√										
5	ICV 1447A	1.00	12:47	√									√		√					√			√										
6	ICB	1.00	12:51	√									√		√					√			√										
7	CRI A1432	1.00	12:58	√									√		√					√			√										
8	ICSA 1441	1.00	13:00	√									√		√					√			√										
9	ICSAB 1443	1.00	13:03	√									√		√					√			√										
10	CCV 1447B	1.00	13:06	√									√		√					√			√										
11	CCB	1.00	13:08	√									√		√					√			√										
12	M-BL 03M1442 W	1.00	13:11	√									√		√					√			√										
13	LCS-03M1442	1.00	13:13	√									√		√					√			√										
14	LCSD-03M1442	1.00	13:16	√									√		√					√			√										
15	3082-4 S F=1	1.00	13:18	√									√		√					√			√										
16	3082-4 D F=1	1.00	13:21	√									√		√					√			√										
17	3082-4 1/5 F=5	5.00	13:23	√									√		√					√			√										
18	3082-4 MS F=1	1.00	13:26	√									√		√					√			√										
19	3082-4 MSD F=1	1.00	13:28	√									√		√					√			√										
20	3082-4 PS F=1	1.00	13:31	√									√		√					√			√										
21	CCV 1447B	1.00	13:33	√									√		√					√			√										
22	CCB	1.00	13:36	√									√		√					√			√										
23	3082-1 F=1	1.00	13:38	√									√		√					√			√										
24	3082-2 F=1	1.00	13:41	√									√		√					√			√										
25	3082-3 F=1	1.00	13:44	√									√		√					√			√										
26	3082-5 F=1	1.00	13:46	√									√		√					√			√										
27	3082-6 F=1	1.00	13:49	√									√		√					√			√										
28	3102-1 F=1	1.00	13:51	√									√		√					√			√										
29	3102-2 F=1	1.00	13:54	√									√		√					√			√										
30	3102-3 F=1	1.00	13:56	√									√		√					√			√										
31	3102-4 F=1	1.00	13:59	√									√		√					√			√										
32	CCV 1447B	1.00	14:01	√									√		√					√			√										
33	CCB	1.00	14:04	√									√		√					√			√										
34	3102-5 F=1	1.00	14:06	√									√		√					√			√										
35	3102-6 F=1	1.00	14:09	√									√		√					√			√										
36	3102-7 F=1	1.00	14:12	√									√		√					√			√										
37	3105-1 F=1	1.00	14:14	√									√		√					√			√										
38	3105-2 F=1	1.00	14:17	√									√		√					√			√										
39	3105-3 F=1	1.00	14:19	√									√		√					√			√										
40	3105-4 F=1	1.00	14:22	√									√		√					√			√										

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1442L
		Instrument:	ICP -L	Method:	200.7
Batch No.(s):	03M1442	Start Date:	05/08/03	End Date:	05/08/03

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
41	CCV 1447B	1.00	14:24	√										√		√				√			√										
42	CCB	1.00	14:27	√										√		√				√			√										
43	M-BL 03M1443 W	1.00	14:29	√										√		√				√			√										
44	LCS-03M1443	1.00	14:32	√										√		√				√			√										
45	LCSD-03M1443	1.00	14:34	√										√		√				√			√										
46	3100-1 S F=1	1.00	14:37	√										√		√				√			√										
47	3100-1 D F=1	1.00	14:39	√										√		√				√			√										
48	3100-1 1/5 F=5	5.00	14:42	√										√		√				√			√										
49	3100-1 MS F=1	1.00	14:44	√										√		√				√			√										
50	3100-1 MSD F=1	1.00	14:47	√										√		√				√			√										
51	3100-1 PS F=1	1.00	14:50	√										√		√				√			√										
52	CCV 1447B	1.00	14:52	√										√		√				√			√										
53	CCB	1.00	14:55	√										√		√				√			√										
54	3100-3 F=1	1.00	14:57	√										√		√				√			√										
55	3100-4 F=1	1.00	15:00	√										√		√				√			√										
56	3100-5 F=1	1.00	15:02	√										√		√				√			√										
57	3100-6 F=1	1.00	15:05	√										√		√				√			√										
58	3100-7 F=1	1.00	15:08	√										√		√				√			√										
59	3100-8 F=1	1.00	15:10	√										√		√				√			√										
60	3100-9 F=1	1.00	15:13	√										√		√				√			√										
61	3100-10 F=1	1.00	15:15	√										√		√				√			√										
62	CCV 1447B	1.00	15:18	√										√		√				√			√										
63	CCB	1.00	15:20	√										√		√				√			√										
64	3100-11 F=1	1.00	15:23	√										√		√				√			√										
65	3100-12 F=1	1.00	15:26	√										√		√				√			√										
66	3100-13 F=1	1.00	15:28	√										√		√				√			√										
67	ICSA 1441	1.00	15:31	√										√		√				√			√										
68	ICSAB 1443	1.00	15:33	√										√		√				√			√										
69	CCV 1447B	1.00	15:36	√										√		√				√			√										
70	CCB	1.00	15:38	√										√		√				√			√										

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1458E
		Instrument:	GFAA-E	Method:	200.9
Batch No.(s):	03M1458	Start Date:	05/13/03	End Date:	05/13/03

#	APCL Sample No.	D/F	Time	Al	Sb	As	Ba	Be	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Hg	Ni	K	Se	Ag	Na	Tl	V	Zn	Mo	Sr	Ti	Sn	Li	B	Si
1	AS Position 002	1.00	10:17	√																												
2	AS Position 001	1.00	10:25	√																												
3	Calib. Blank	1.00	10:34	√																												
4	1/2 STD1 1472A	1.00	10:40	√																												
5	STD1 1472A	1.00	10:46	√																												
6	STD2 1472B	1.00	10:53	√																												
7	STD3 1472C	1.00	10:59	√																												
8	ICV A1474	1.00	11:10	√																												
9	ICB	1.00	11:17	√																												
10	M-BL 03M1458	1.00	11:23	√																												
11	LCS-03M1458	1.00	11:29	√																												
12	LCSD-03M1458	1.00	11:36	√																												
13	3082-4 S F=1	1.00	11:42	√																												
14	3082-4 D F=1	1.00	11:48	√																												
15	3082-4 1/5 F=5	5.00	11:55	√																												
16	3082-4 MS F=1	1.00	12:01	√																												
17	3082-4 MSD F=1	1.00	12:08	√																												
18	3082-4 PS F=1	1.00	12:14	√																												
19	3082-1 F=1	1.00	12:21	√																												
20	CCV A1474	1.00	12:27	√																												
21	CCB	1.00	12:34	√																												
22	3082-2 F=1	1.00	12:40	√																												
23	3082-3 F=1	1.00	12:46	√																												
24	3082-5 F=1	1.00	12:52	√																												
25	3082-6 F=1	1.00	12:59	√																												
26	3130-1 F=1	1.00	13:05	√																												
27	3130-2 F=1	1.00	13:17	√																												
28	CCV A1474	1.00	13:42	√																												
29	CCB	1.00	13:49	√																												
30	3130-3 F=1	1.00	14:08	√																												
31	3130-4 F=1	1.00	14:14	√																												
32	3130-5 F=1	1.00	14:21	√																												
33	3130-6 F=1	1.00	14:27	√																												
34	3102-1 F=1	1.00	14:34	√																												
35	3102-2 F=1	1.00	14:40	√																												
36	3102-3 F=1	1.00	14:47	√																												
37	3102-4 F=1	1.00	14:53	√																												
38	CCV A1474	1.00	14:59	√																												
39	CCB	1.00	15:06	√																												
40	CCV A1474	1.00	15:15	√																												

FORM-14 Metal

Applied P & Ch Laboratory

Analysis Run Log

Client Name:	GEOFON, Inc.	Project No:	04-4428.10	Lab Code:	APCL
Project Name:	JPL	Service ID:	033102	Sequence No.:	03M1458E
		Instrument:	GFAA-E	Method:	200.9
Batch No.(s):	03M1458	Start Date:	05/13/03	End Date:	05/13/03

#	APCL Sample No.	D/F	Time	Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Hg Ni K Se Ag Na Tl V Zn Mo Sr Ti Sn Li B Si
41	CCB	1.00	15:21	√
42	3102-5 F=1	1.00	15:27	√
43	3102-6 F=1	1.00	15:33	√
44	3102-7 F=1	1.00	15:40	√
45	CCV A1474	1.00	16:06	√
46	CCB	1.00	16:12	√

Applied P & Ch Laboratory
13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Metal Digestion (3010/3050) Worksheet

Digest-

Batch # BM1442 Matrix: W Method used: 3010 A Date: 5/8/03 Digested by: XI Diluted by: ____

Lot #: ASTM Type I water RW1410 HNO_3 1102120 H_2SO_4 ____ HCl 410>050 H_2O_2 ____

OP #	Type	Samp ID /Lot #	X (g or mL)	$V_{digest}/X = f_1$	$V_j/V_i = f_2$	$V_j'/V_i' = f_3$	$F=f_1f_2f_3$	Note
1495	Method Blank	Bl. Lot: RW1410	50	50 /X= 1	/ =	/ =		5ME
1496	LCS1	Bl. Lot: "		/X=	/ =	/ =		
1497	Sample-1	3082-4		/X=	/ =	/ =		T=95°C
1498	MS1 on S-1	-4		/X=	/ =	/ =		
1499	MS2 on S-1	-4		/X=	/ =	/ =		
1500	Sample 2	-1		/X=	/ =	/ =		
1501	Sample 3	-2		/X=	/ =	/ =		
1502	Sample 4	-3		/X=	/ =	/ =		
1503	Sample 5	-5		/X=	/ =	/ =		
1504	Sample 6	-6		/X=	/ =	/ =		
1505	Sample 7	3102-1		/X=	/ =	/ =		
1506	Sample 8	-2		/X=	/ =	/ =		
1507	Sample 9	-3		/X=	/ =	/ =		
1508	Sample 10	-4		/X=	/ =	/ =		
1509	LCS2	Bl. Lot: RW1410		/X=	/ =	/ =		
1510	Sample 11	-5		/X=	/ =	/ =		
1511	Sample 12	-6		/X=	/ =	/ =		
1512	Sample 13	-7		/X=	/ =	/ =		
1513	Sample 14	3105-1		/X=	/ =	/ =		
1514	Sample 15	-2		/X=	/ =	/ =		
1515	Sample 16	-3		/X=	/ =	/ =		
1516	Sample 17	-4		/X=	/ =	/ =		
1517	Sample 18			/X=	/ =	/ =		
1518	Sample 19		XI 5/8/03	/X=	/ =	/ =		
1519	Sample 20			/X=	/ =	/ =		
1520	Duplicate	3082-4	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	/As/Se/Sb/M_{20}	AA- /AA- /AA- /AA-1433	/ / / 25	/ / / 2	/ / / 1	
MS2	/As/Se/Sb/M_{20}	AA- /AA- /AA- /AA-11	/ / /	/ / /	/ / /	
LCS1	/As/Se/Sb/M_{20}	AA- /AA- /AA- /AA-1492	/ / /	/ / /	/ / /	
LCS2	/As/Se/Sb/M_{20}	AA- /AA- /AA- /AA-11	/ / /	/ / /	/ / /	

* 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.

Supervisor Initial Y.W

Applied P & Ch Laboratory
2300 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Digest-030

Metal Digestion (3010/3050) Worksheet

Batch # 03M1458 Matrix: W Method used: 3020A Date: 5/13/03 Digested by: DT Diluted by: _____

Lot #: ASTM Type I water RW1411 HNO_3 110220 H_2SO_4 _____ HCl _____ H_2O_2 _____

QP #	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
1755	Method Blank	Bl. Lot: RW1411	50	50 /X= 1	/ =	/ =		GFAA/AS
1756	LCS1	Bl. Lot: "		/X=	/ =	/ =		T=95°C
1757	Sample-1	3082-4		/X=	/ =	/ =		
1758	MS1 on S-1	-4		/X=	/ =	/ =		
1759	MS2 on S-1	-4		/X=	/ =	/ =		
1760	Sample 2	-1		/X=	/ =	/ =		
1761	Sample 3	-2		/X=	/ =	/ =		
1762	Sample 4	-3		/X=	/ =	/ =		
1763	Sample 5	-5		/X=	/ =	/ =		
1764	Sample 6	-6		/X=	/ =	/ =		
1765	Sample 7	3130-1		/X=	/ =	/ =		
1766	Sample 8	-2		/X=	/ =	/ =		DUP/MS
1767	Sample 9	-3		/X=	/ =	/ =		
1768	Sample 10	-4		/X=	/ =	/ =		
1769	LCS2	Bl. Lot: RW1411		/X=	/ =	/ =		
1770	Sample 11	-5		/X=	/ =	/ =		
1771	Sample 12	-6		/X=	/ =	/ =		
1772	Sample 13	3102-1		/X=	/ =	/ =		
1773	Sample 14	-2		/X=	/ =	/ =		
1774	Sample 15	-3		/X=	/ =	/ =		
1775	Sample 16	-4		/X=	/ =	/ =		
1776	Sample 17	-5		/X=	/ =	/ =		
1777	Sample 18	-6		/X=	/ =	/ =		
1778	Sample 19	-7	↓	↓ /X= ↓	/ =	/ =		
1779	Sample 20		5/13/03	/X=	/ =	/ =		
1780	Duplicate	3082-4	50	50 /X= 1	/ =	/ =		

Specification of matrix spike and lab control spike

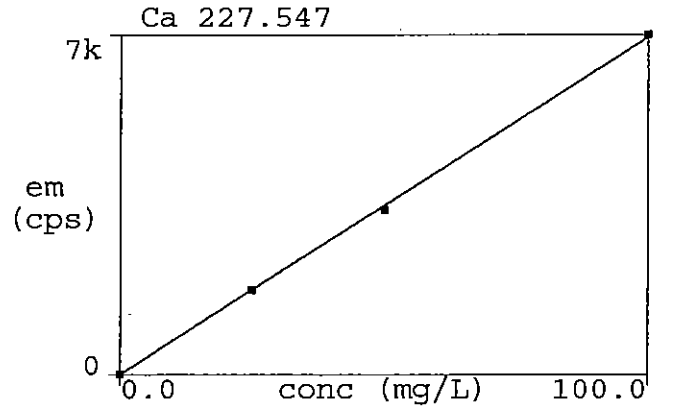
QC Type	Spiked Element *	Spike Stock Solution Lot #	Spike Stock (Rep.) Conc. C_s, µg/mL	Spike Stock Volum Used V_s mL	Spike Level $T'=C_sV_s/V$ ppm or mg/L	Sample Spike T, ppm
MS1	/As Se/Sb/M_{20}	AA- /AA-03/AA- /AA-	/ 5 / /	/0.5/ /	/0.08/ /	
MS2	/As Se/Sb/M_{20}	AA- /AA-4 /AA- /AA-	/ / /	/ / /	/ / /	
LCS1	/As Se/Sb/M_{20}	AA- /AA-(07)/AA- /AA-	/ / /	/ / /	/ / /	
LCS2	/As Se/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 M_j) represents 20 (or j) metals, (see STD logbook).
If digest needs dilution for different metals, use dilution worksheet.

Supervisor Initial 5/07/03

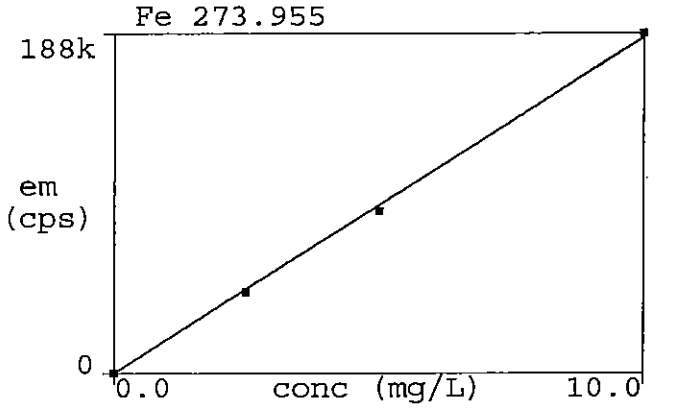
Calibration

Method: 5ME-3
Result: 03M1442L



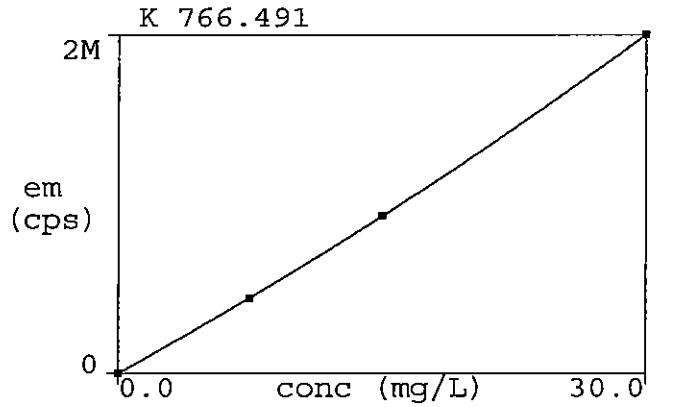
Calib.Eq'n: Linear-thru-Zero
Corr. Coeff.: 0.9998

1



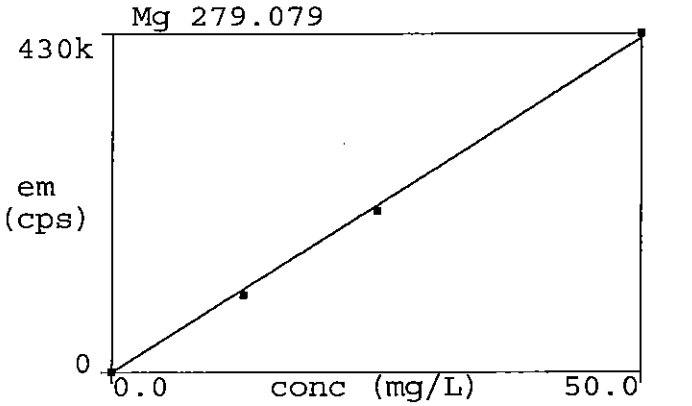
Calib.Eq'n: Linear-thru-Zero
Corr. Coeff.: 0.9994

2



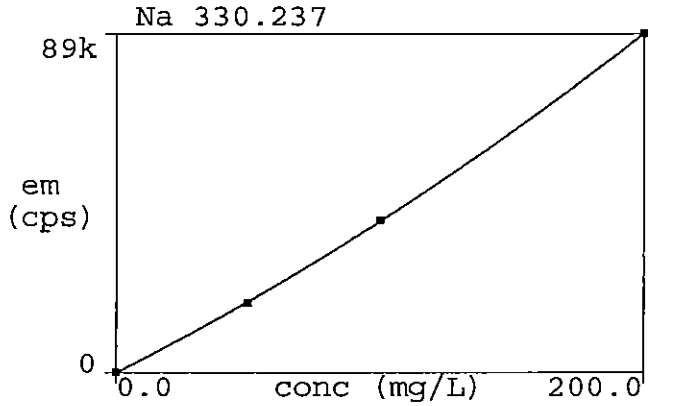
Calib.Eq'n: Non-Linear
Corr. Coeff.: 0.9992

3



Calib.Eq'n: Linear-thru-Zero
Corr. Coeff.: 0.9993

4



Calib.Eq'n: Non-Linear
Corr. Coeff.: 0.9979

5

Method: 5ME-3 IEC: 03miecl.iec MSF:
Results: 03M1442L Spectra Stored: Yes Method Stored: Yes
Sample Info: 03m14421 User: L9708A Date: 05/08/03 12:36:26 PM
Method Description: 6010B/200.7 KNaCaMgFe ICP-L 5/8/03

Replicate Data
ID: Calib Blank Date: 05/08/03 12:37:23 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units
1	Ca 227.547	-29.6	-29.6	0	mg/L
1	Fe 273.955	-195.9	-195.9	0	mg/L
1	K 766.491	2382.1	2382.1	0	mg/L
1	Mg 279.079	-1113.0	-1113.0	0	mg/L
1	Na 330.237	1183.2	1183.2	0	mg/L
2	Ca 227.547	-44.8	-44.8	0	mg/L
2	Fe 273.955	-229.5	-229.5	0	mg/L
2	K 766.491	2237.4	2237.4	0	mg/L
2	Mg 279.079	-1112.9	-1112.9	0	mg/L
2	Na 330.237	1084.7	1084.7	0	mg/L
3	Ca 227.547	16.8	16.8	0	mg/L
3	Fe 273.955	-147.7	-147.7	0	mg/L
3	K 766.491	2220.8	2220.8	0	mg/L
3	Mg 279.079	-1226.3	-1226.3	0	mg/L
3	Na 330.237	1210.6	1210.6	0	mg/L

Mean Data
ID: Calib Blank Seq. No.: 1 A/S Pos: 1
Data: Original Date: 05/08/03 12:37:23 PM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ca 227.547	-19.2	32.11	167.11%	0	mg/L
Fe 273.955	-191.0	41.08	21.51%	0	mg/L
K 766.491	2280.1	88.75	3.89%	0	mg/L
Mg 279.079	-1150.8	65.44	5.69%	0	mg/L
Na 330.237	1159.5	66.20	5.71%	0	mg/L

Replicate Data
ID: STD1 1423A Date: 05/08/03 12:39:54 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units
1	Ca 227.547	7458.1	7477.3	100.0	mg/L
1	Fe 273.955	188294.3	188485.4	10.00	mg/L
1	K 766.491	1749609.7	1747329.6	30.00	mg/L
1	Mg 279.079	429452.0	430602.8	50.00	mg/L
1	Na 330.237	90601.4	89441.9	200.0	mg/L
2	Ca 227.547	7437.9	7457.1	100.0	mg/L
2	Fe 273.955	188523.5	188714.6	10.00	mg/L
2	K 766.491	1731053.2	1728773.1	30.00	mg/L
2	Mg 279.079	429533.1	430683.8	50.00	mg/L
2	Na 330.237	90873.1	89713.7	200.0	mg/L
3	Ca 227.547	7426.9	7446.1	100.0	mg/L
3	Fe 273.955	187857.0	188048.0	10.00	mg/L
3	K 766.491	1709446.2	1707166.1	30.00	mg/L
3	Mg 279.079	426093.4	427244.1	50.00	mg/L
3	Na 330.237	90479.5	89320.1	200.0	mg/L

Mean Data
ID: STD1 1423A Seq. No.: 2 A/S Pos: 2
Data: Original Date: 05/08/03 12:39:54 PM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Calib Conc.	Units

Ca 227.547	7460.2	15.81	0.21%	100.0 mg/L
Fe 273.955	188416.0	338.65	0.18%	10.00 mg/L
K 766.491	1727756.3	20101.08	1.16%	30.00 mg/L
Mg 279.079	429510.2	1962.93	0.46%	50.00 mg/L
Na 330.237	89491.9	201.50	0.23%	200.0 mg/L

Replicate Data ----------
ID: STD2 1423B Date: 05/08/03 12:42:24 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units
1	Ca 227.547	3493.7	3512.9	50.00	mg/L
1	Fe 273.955	88604.4	88795.4	5.000	mg/L
1	K 766.491	797483.4	795203.3	15.00	mg/L
1	Mg 279.079	202092.8	203243.5	25.000	mg/L
1	Na 330.237	40743.3	39583.8	100.0	mg/L
2	Ca 227.547	3599.9	3619.1	50.00	mg/L
2	Fe 273.955	88799.5	88990.6	5.000	mg/L
2	K 766.491	812809.3	810529.2	15.00	mg/L
2	Mg 279.079	202609.5	203760.2	25.000	mg/L
2	Na 330.237	40743.0	39583.5	100.0	mg/L
3	Ca 227.547	3669.5	3688.7	50.00	mg/L
3	Fe 273.955	90529.9	90720.9	5.000	mg/L
3	K 766.491	825204.2	822924.1	15.00	mg/L
3	Mg 279.079	206626.2	207776.9	25.000	mg/L
3	Na 330.237	42343.5	41184.0	100.0	mg/L

Mean Data ----------
ID: STD2 1423B Seq. No.: 3 A/S Pos: 3
Data: Original Date: 05/08/03 12:42:24 PM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ca 227.547	3606.9	88.52	2.45%	50.00	mg/L
Fe 273.955	89502.3	1059.86	1.18%	5.000	mg/L
K 766.491	809552.2	13886.16	1.72%	15.00	mg/L
Mg 279.079	204926.9	2481.69	1.21%	25.000	mg/L
Na 330.237	40117.1	923.96	2.30%	100.0	mg/L

Replicate Data ----------
ID: STD3 1423C Date: 05/08/03 12:44:55 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units
1	Ca 227.547	1848.4	1867.7	25.00	mg/L
1	Fe 273.955	45105.1	45296.1	2.500	mg/L
1	K 766.491	385575.8	383295.7	7.500	mg/L
1	Mg 279.079	99337.0	100487.7	12.500	mg/L
1	Na 330.237	19863.6	18704.1	50.00	mg/L
2	Ca 227.547	1876.3	1895.6	25.00	mg/L
2	Fe 273.955	45329.7	45520.7	2.500	mg/L
2	K 766.491	383460.3	381180.2	7.500	mg/L
2	Mg 279.079	99390.6	100541.4	12.500	mg/L
2	Na 330.237	19998.5	18839.1	50.00	mg/L
3	Ca 227.547	1743.4	1762.7	25.00	mg/L
3	Fe 273.955	42834.9	43025.9	2.500	mg/L
3	K 766.491	385155.1	382875.0	7.500	mg/L
3	Mg 279.079	92979.5	94130.2	12.500	mg/L
3	Na 330.237	18624.9	17465.4	50.00	mg/L

Mean Data ----------
ID: STD3 1423C Seq. No.: 4 A/S Pos: 4
Data: Original Date: 05/08/03 12:44:55 PM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ca 227.547	1842.0	70.08	3.80%	25.00	mg/L

Fe 273.955	44614.3	1380.11	3.09%	2.500 mg/L
K 766.491	382450.3	1119.86	0.29%	7.500 mg/L
Mg 279.079	98386.4	3686.09	3.75%	12.500 mg/L
Na 330.237	18336.2	757.15	4.13%	50.00 mg/L

Calibration Summary
Method: 5ME-3 Date: 05/08/03 12:45:19 PM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ca 227.547	3	Linear-thru-Zero	0.0	74.1	0.00000	0.999796
Fe 273.955	3	Linear-thru-Zero	0.0	18614.9	0.00000	0.999430
K 766.491	3	Non-Linear	-1907.8	50009.2	255.58075	0.999202
Mg 279.079	3	Linear-thru-Zero	0.0	8481.1	0.00000	0.999296
Na 330.237	3	Non-Linear	-123.3	351.6	0.48343	0.997929

Replicate Data
ID: ICV 1447A Date: 05/08/03 12:47:28 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	7286.6	7305.8	98.61	mg/L		
1	Fe 273.955	184399.6	184590.6	9.914	mg/L		
1	K 766.491	1723067.3	1720787.2	29.88	mg/L		
1	Mg 279.079	428932.8	430083.5	50.71	mg/L		
1	Na 330.237	88951.0	87791.6	196.8	mg/L		
2	Ca 227.547	7351.7	7370.9	99.49	mg/L		
2	Fe 273.955	185537.6	185728.7	9.975	mg/L		
2	K 766.491	1721173.3	1718893.2	29.85	mg/L		
2	Mg 279.079	433728.9	434879.6	51.28	mg/L		
2	Na 330.237	89463.7	88304.2	197.7	mg/L		
3	Ca 227.547	7343.5	7362.7	99.38	mg/L		
3	Fe 273.955	185281.6	185472.6	9.961	mg/L		
3	K 766.491	1739881.2	1737601.1	30.14	mg/L		
3	Mg 279.079	432803.6	433954.4	51.17	mg/L		
3	Na 330.237	89199.2	88039.8	197.3	mg/L		

Mean Data
ID: ICV 1447A Seq. No.: 5 Sample No.: 1 A/S Pos: 5
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 12:47:28 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	7346.5	99.16	0.479	mg/L				0.48%
Fe 273.955	185264.0	9.950	0.0321	mg/L				0.32%
K 766.491	1725760.5	29.96	0.158	mg/L				0.53%
Mg 279.079	432972.5	51.05	0.300	mg/L				0.59%
Na 330.237	88045.2	197.3	0.47	mg/L				0.24%

Replicate Data
ID: ICB Date: 05/08/03 12:51:05 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	-36.7	-17.5	-0.2357	mg/L		
1	Fe 273.955	-192.1	-1.0	-0.0001	mg/L		
1	K 766.491	2141.3	-138.8	0.0354	mg/L		
1	Mg 279.079	-1061.3	89.4	0.0105	mg/L		
1	Na 330.237	1126.3	-33.2	0.2563	mg/L		
2	Ca 227.547	-78.4	-59.1	-0.7982	mg/L		
2	Fe 273.955	-182.0	9.0	0.0005	mg/L		
2	K 766.491	2541.1	261.0	0.0434	mg/L		
2	Mg 279.079	-1093.6	57.2	0.0067	mg/L		
2	Na 330.237	1216.9	57.4	0.5137	mg/L		
3	Ca 227.547	-65.0	-45.7	-0.6173	mg/L		

3 Fe 273.955	-207.5	-16.5	-0.0009	mg/L
3 K 766.491	2062.0	-218.0	0.0338	mg/L
3 Mg 279.079	-1008.0	142.7	0.0168	mg/L
3 Na 330.237	1091.8	-67.6	0.1583	mg/L

Mean Data

ID: ICB Seq. No.: 6 Sample No.: 2 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 12:51:05 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	-40.8	-0.5504	0.28717	mg/L				52.17%
Fe 273.955	-2.8	-0.0002	0.00069	mg/L				455.77%
K 766.491	-32.0	0.0375	0.00513	mg/L				13.69%
Mg 279.079	96.4	0.0114	0.00509	mg/L				44.79%
Na 330.237	-14.5	0.3094	0.18355	mg/L				59.32%

Calibration Summary

Method: 5ME-3 Date: 05/08/03 12:57:00 PM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ca 227.547	3	Linear-thru-Zero	0.0	74.1	0.00000	0.999796
Fe 273.955	3	Linear-thru-Zero	0.0	18614.9	0.00000	0.999430
K 766.491	3	Non-Linear	-1907.8	50009.2	255.58075	0.999202
Mg 279.079	3	Linear-thru-Zero	0.0	8481.1	0.00000	0.999296
Na 330.237	3	Non-Linear	-123.3	351.6	0.48343	0.997929

Replicate Data

ID: CRI A1432 Date: 05/08/03 12:57:58 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	19.9	39.1	0.5277	mg/L		
1	Fe 273.955	662.5	853.6	0.0459	mg/L		
1	K 766.491	2685.2	405.1	0.0462	mg/L		
1	Mg 279.079	-1047.6	103.1	0.0122	mg/L		
1	Na 330.237	1153.6	-5.9	0.3339	mg/L		
2	Ca 227.547	109.7	128.9	1.739	mg/L		
2	Fe 273.955	696.0	887.0	0.0477	mg/L		
2	K 766.491	2837.0	556.9	0.0493	mg/L		
2	Mg 279.079	-1012.3	138.5	0.0163	mg/L		
2	Na 330.237	1140.0	-19.4	0.2953	mg/L		
3	Ca 227.547	44.9	64.1	0.8651	mg/L		
3	Fe 273.955	685.5	876.6	0.0471	mg/L		
3	K 766.491	2447.5	167.4	0.0415	mg/L		
3	Mg 279.079	-1035.3	115.5	0.0136	mg/L		
3	Na 330.237	1211.5	52.0	0.4984	mg/L		

Mean Data

ID: CRI A1432 Seq. No.: 7 Sample No.: 8 A/S Pos: 9
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 12:57:58 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	77.4	1.044	0.6254	mg/L				59.90%
Fe 273.955	872.4	0.0469	0.00092	mg/L				1.96%
K 766.491	376.5	0.0457	0.00392	mg/L				8.59%
Mg 279.079	119.0	0.0140	0.00211	mg/L				15.07%
Na 330.237	8.9	0.3758	0.10784	mg/L				28.69%

Replicate Data

ID: ICSA 1441 Date: 05/08/03 01:00:32 PM

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

1	Ca 227.547	35031.8	35051.0	473.1 mg/L
1	Fe 273.955	3385465.0	3385656.0	181.9 mg/L
1	K 766.491	2443.0	162.9	0.0414 mg/L
1	Mg 279.079	4056870.5	4058021.2	478.5 mg/L
1	Na 330.237	1051.8	-107.7	0.0445 mg/L
2	Ca 227.547	34416.0	34435.2	464.8 mg/L
2	Fe 273.955	3354314.2	3354505.2	180.2 mg/L
2	K 766.491	2480.8	200.7	0.0422 mg/L
2	Mg 279.079	4016787.1	4017937.8	473.8 mg/L
2	Na 330.237	1076.8	-82.7	0.1156 mg/L
3	Ca 227.547	34527.1	34546.3	466.3 mg/L
3	Fe 273.955	3304095.3	3304286.3	177.5 mg/L
3	K 766.491	2425.6	145.5	0.0411 mg/L
3	Mg 279.079	3947680.9	3948831.7	465.6 mg/L
3	Na 330.237	1017.1	-142.4	-0.0542 mg/L

Mean Data

ID: ICSA 1441 Seq. No.: 8 Sample No.: 3 A/S Pos: 7
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:00:32 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	34677.5	468.1	4.43	mg/L				0.95%
Fe 273.955	3348149.2	179.9	2.21	mg/L				1.23%
K 766.491	169.7	0.0415	0.00056	mg/L				1.36%
Mg 279.079	4008263.6	472.6	6.51	mg/L				1.38%
Na 330.237	-110.9	0.0353	0.08529	mg/L				241.71%

Replicate Data

ID: ICSAB 1443 Date: 05/08/03 01:03:11 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	35366.7	35385.9	477.6	mg/L		
1	Fe 273.955	3455823.5	3456014.5	185.7	mg/L		
1	K 766.491	2022.5	-257.6	0.0330	mg/L		
1	Mg 279.079	4120073.8	4121224.5	485.9	mg/L		
1	Na 330.237	1168.8	9.3	0.3769	mg/L		
2	Ca 227.547	34529.5	34548.7	466.3	mg/L		
2	Fe 273.955	3429770.0	3429961.1	184.3	mg/L		
2	K 766.491	2071.9	-208.2	0.0340	mg/L		
2	Mg 279.079	4081263.8	4082414.6	481.4	mg/L		
2	Na 330.237	1164.6	5.1	0.3651	mg/L		
3	Ca 227.547	34589.9	34609.1	467.1	mg/L		
3	Fe 273.955	3399781.4	3399972.4	182.6	mg/L		
3	K 766.491	1984.1	-296.0	0.0322	mg/L		
3	Mg 279.079	4047125.4	4048276.1	477.3	mg/L		
3	Na 330.237	1171.6	12.1	0.3850	mg/L		

Mean Data

ID: ICSAB 1443 Seq. No.: 9 Sample No.: 4 A/S Pos: 8
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:03:11 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	34847.9	470.4	6.30	mg/L				1.34%
Fe 273.955	3428649.3	184.2	1.51	mg/L				0.82%
K 766.491	-253.9	0.0331	0.00088	mg/L				2.66%
Mg 279.079	4083971.7	481.5	4.30	mg/L				0.89%
Na 330.237	8.8	0.3757	0.01001	mg/L				2.66%

Replicate Data

ID: CCV 1447B Date: 05/08/03 01:05:47 PM

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

1	Ca 227.547	3842.4	3861.6	52.12 mg/L
1	Fe 273.955	94053.7	94244.7	5.062 mg/L
1	K 766.491	800227.1	797947.0	14.86 mg/L
1	Mg 279.079	214890.2	216040.9	25.47 mg/L
1	Na 330.237	43990.9	42831.4	106.6 mg/L
2	Ca 227.547	3735.7	3754.9	50.68 mg/L
2	Fe 273.955	92490.0	92681.0	4.978 mg/L
2	K 766.491	826948.5	824668.4	15.33 mg/L
2	Mg 279.079	210975.7	212126.4	25.01 mg/L
2	Na 330.237	42799.2	41639.7	103.9 mg/L
3	Ca 227.547	3685.0	3704.2	50.00 mg/L
3	Fe 273.955	91082.3	91273.4	4.902 mg/L
3	K 766.491	826245.3	823965.2	15.32 mg/L
3	Mg 279.079	207191.3	208342.0	24.57 mg/L
3	Na 330.237	42447.5	41288.1	103.2 mg/L

Mean Data

ID: CCV 1447B Seq. No.: 10 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:05:47 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	3773.6	50.93	1.085	mg/L				2.13%
Fe 273.955	92733.0	4.980	0.0798	mg/L				1.60%
K 766.491	815526.8	15.17	0.264	mg/L				1.74%
Mg 279.079	212169.8	25.02	0.454	mg/L				1.81%
Na 330.237	41919.7	104.5	1.79	mg/L				1.71%

Replicate Data

ID: CCB Date: 05/08/03 01:08:19 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	-79.5	-60.3	-0.8142	mg/L		
1	Fe 273.955	-17.0	174.1	0.0094	mg/L		
1	K 766.491	2707.4	427.3	0.0467	mg/L		
1	Mg 279.079	-810.6	340.1	0.0401	mg/L		
1	Na 330.237	1169.5	10.0	0.3789	mg/L		
2	Ca 227.547	-13.0	6.3	0.0844	mg/L		
2	Fe 273.955	-17.4	173.6	0.0093	mg/L		
2	K 766.491	2450.7	170.6	0.0416	mg/L		
2	Mg 279.079	-863.1	287.6	0.0339	mg/L		
2	Na 330.237	1299.6	140.1	0.7485	mg/L		
3	Ca 227.547	29.2	48.5	0.6540	mg/L		
3	Fe 273.955	126.9	318.0	0.0171	mg/L		
3	K 766.491	2338.8	58.7	0.0393	mg/L		
3	Mg 279.079	-753.2	397.5	0.0469	mg/L		
3	Na 330.237	1128.5	-31.0	0.2625	mg/L		

Mean Data

ID: CCB Seq. No.: 11 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:08:19 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	-1.9	-0.0253	0.74021	mg/L				>999.9%
Fe 273.955	221.9	0.0119	0.00447	mg/L				37.50%
K 766.491	218.9	0.0425	0.00378	mg/L				8.88%
Mg 279.079	341.8	0.0403	0.00648	mg/L				16.08%
Na 330.237	39.7	0.4633	0.25375	mg/L				54.77%

Replicate Data

ID: M-BL 03M1442 Date: 05/08/03 01:10:49 PM

		Net	Corrected	Calib	Sample

Repl#	Element	Intensity	Intensity	Conc.	Units	Conc.	Units
1	Ca 227.547	19.2	38.4	0.5188	mg/L	0.5188	ppm
1	Fe 273.955	-81.2	109.8	0.0059	mg/L	0.0059	ppm
1	K 766.491	2736.4	456.3	0.0473	mg/L	0.0473	ppm
1	Mg 279.079	-992.1	158.7	0.0187	mg/L	0.0187	ppm
1	Na 330.237	1320.1	160.7	0.8068	mg/L	0.8068	ppm
2	Ca 227.547	-83.9	-64.7	-0.8731	mg/L	-0.8731	ppm
2	Fe 273.955	-77.8	113.2	0.0061	mg/L	0.0061	ppm
2	K 766.491	2145.6	-134.5	0.0355	mg/L	0.0355	ppm
2	Mg 279.079	-943.9	206.9	0.0244	mg/L	0.0244	ppm
2	Na 330.237	1044.2	-115.2	0.0230	mg/L	0.0230	ppm
3	Ca 227.547	-23.2	-4.0	-0.0541	mg/L	-0.0541	ppm
3	Fe 273.955	-53.5	137.5	0.0074	mg/L	0.0074	ppm
3	K 766.491	2108.4	-171.7	0.0347	mg/L	0.0347	ppm
3	Mg 279.079	-943.0	207.7	0.0245	mg/L	0.0245	ppm
3	Na 330.237	1166.3	6.8	0.3699	mg/L	0.3699	ppm

Mean Data

ID: M-BL 03M1442 Seq. No.: 12 Sample No.: 1 A/S Pos: 10
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:10:49 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	-10.1	-0.1362	0.69954	mg/L	-0.1362	0.69954	ppm	513.79%
Fe 273.955	120.2	0.0065	0.00081	mg/L	0.0065	0.00081	ppm	12.57%
K 766.491	50.0	0.0391	0.00704	mg/L	0.0391	0.00704	ppm	17.99%
Mg 279.079	191.1	0.0225	0.00331	mg/L	0.0225	0.00331	ppm	14.69%
Na 330.237	17.4	0.3999	0.39276	mg/L	0.3999	0.39276	ppm	98.22%

Replicate Data

ID: LCS-03M1442 Date: 05/08/03 01:13:20 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	1515.2	1534.4	20.71	mg/L	20.71	ppm
1	Fe 273.955	19195.1	19386.1	1.041	mg/L	1.041	ppm
1	K 766.491	254363.6	252083.5	4.953	mg/L	4.953	ppm
1	Mg 279.079	79051.1	80201.9	9.457	mg/L	9.457	ppm
1	Na 330.237	16762.8	15603.3	42.27	mg/L	42.27	ppm
2	Ca 227.547	1444.2	1463.4	19.75	mg/L	19.75	ppm
2	Fe 273.955	19234.1	19425.2	1.043	mg/L	1.043	ppm
2	K 766.491	249746.2	247466.1	4.866	mg/L	4.866	ppm
2	Mg 279.079	78936.7	80087.5	9.443	mg/L	9.443	ppm
2	Na 330.237	16791.1	15631.7	42.34	mg/L	42.34	ppm
3	Ca 227.547	1523.3	1542.5	20.82	mg/L	20.82	ppm
3	Fe 273.955	19048.2	19239.2	1.033	mg/L	1.033	ppm
3	K 766.491	254439.8	252159.7	4.955	mg/L	4.955	ppm
3	Mg 279.079	78079.3	79230.1	9.342	mg/L	9.342	ppm
3	Na 330.237	16595.1	15435.6	41.84	mg/L	41.84	ppm

Mean Data

ID: LCS-03M1442 Seq. No.: 13 Sample No.: 2 A/S Pos: 11
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:13:20 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	1513.4	20.43	0.587	mg/L	20.43	0.587	ppm	2.87%
Fe 273.955	19350.2	1.039	0.0053	mg/L	1.039	0.0053	ppm	0.51%
K 766.491	250569.8	4.925	0.0512	mg/L	4.925	0.0512	ppm	1.04%
Mg 279.079	79839.8	9.414	0.0626	mg/L	9.414	0.0626	ppm	0.67%
Na 330.237	15556.9	42.15	0.270	mg/L	42.15	0.270	ppm	0.64%

Matrix Check Sample: LCS-03M1442

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	19.86	20.43	0.587	mg/L	102.818
Fe 273.955	1.006	1.039	0.005	mg/L	103.256
K 766.491	5.039	4.925	0.051	mg/L	97.710
Mg 279.079	10.02	9.414	0.063	mg/L	93.914
Na 330.237	40.40	42.15	0.270	mg/L	104.385

Replicate Data ----------
ID: LCSD-03M1442 Date: 05/08/03 01:15:51 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	1471.6	1490.8	20.12	mg/L	20.12	ppm
1	Fe 273.955	19079.0	19270.1	1.035	mg/L	1.035	ppm
1	K 766.491	251508.8	249228.7	4.899	mg/L	4.899	ppm
1	Mg 279.079	78667.5	79818.3	9.411	mg/L	9.411	ppm
1	Na 330.237	16550.8	15391.4	41.73	mg/L	41.73	ppm
2	Ca 227.547	1490.8	1510.0	20.38	mg/L	20.38	ppm
2	Fe 273.955	19275.3	19466.3	1.045	mg/L	1.045	ppm
2	K 766.491	253360.1	251080.0	4.934	mg/L	4.934	ppm
2	Mg 279.079	78520.4	79671.2	9.394	mg/L	9.394	ppm
2	Na 330.237	16484.0	15324.5	41.56	mg/L	41.56	ppm
3	Ca 227.547	1531.4	1550.6	20.93	mg/L	20.93	ppm
3	Fe 273.955	19270.3	19461.3	1.045	mg/L	1.045	ppm
3	K 766.491	255923.4	253643.3	4.983	mg/L	4.983	ppm
3	Mg 279.079	79737.9	80888.6	9.538	mg/L	9.538	ppm
3	Na 330.237	16580.4	15420.9	41.81	mg/L	41.81	ppm

Mean Data ----------
ID: LCSD-03M1442 Seq. No.: 14 Sample No.: 3 A/S Pos: 12
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:15:51 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	1517.1	20.48	0.412	mg/L	20.48	0.412	ppm	2.01%
Fe 273.955	19399.2	1.042	0.0060	mg/L	1.042	0.0060	ppm	0.58%
K 766.491	251317.3	4.939	0.0422	mg/L	4.939	0.0422	ppm	0.85%
Mg 279.079	80126.0	9.448	0.0783	mg/L	9.448	0.0783	ppm	0.83%
Na 330.237	15378.9	41.70	0.126	mg/L	41.70	0.126	ppm	0.30%

Matrix Check Sample: LCSD-03M1442

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	19.86	20.48	0.412	mg/L	103.067
Fe 273.955	1.006	1.042	0.006	mg/L	103.520
K 766.491	5.039	4.939	0.042	mg/L	97.995
Mg 279.079	10.02	9.448	0.078	mg/L	94.251
Na 330.237	40.40	41.70	0.126	mg/L	103.251

Replicate Data ----------
ID: 3082-4 S F=1 Date: 05/08/03 01:18:24 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	2959.4	2978.6	40.20	mg/L	40.20	ppm
1	Fe 273.955	44472.6	44663.6	2.398	mg/L	2.398	ppm
1	K 766.491	100087.1	97807.0	1.974	mg/L	1.974	ppm
1	Mg 279.079	104130.2	105280.9	12.41	mg/L	12.41	ppm
1	Na 330.237	10412.1	9252.6	25.75	mg/L	25.75	ppm
2	Ca 227.547	2806.6	2825.8	38.14	mg/L	38.14	ppm
2	Fe 273.955	42374.4	42565.4	2.286	mg/L	2.286	ppm
2	K 766.491	108315.9	106035.8	2.135	mg/L	2.135	ppm
2	Mg 279.079	99087.7	100238.5	11.82	mg/L	11.82	ppm
2	Na 330.237	9879.5	8720.1	24.34	mg/L	24.34	ppm

3 Ca 227.547	2756.4	2775.6	37.46 mg/L	37.46 ppm	
3 Fe 273.955	41724.3	41915.3	2.251 mg/L	2.251 ppm	
3 K 766.491	103725.9	101445.8	2.045 mg/L	2.045 ppm	
3 Mg 279.079	97102.6	98253.4	11.59 mg/L	11.59 ppm	
3 Na 330.237	9721.8	8562.3	23.92 mg/L	23.92 ppm	

Mean Data ----------

ID: 3082-4 S F=1 Seq. No.: 15 Sample No.: 4 A/S Pos: 13
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:18:24 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	2860.0	38.60	1.427	mg/L	38.60	1.427	ppm	3.70%
Fe 273.955	43048.1	2.312	0.0771	mg/L	2.312	0.0771	ppm	3.34%
K 766.491	101762.9	2.051	0.0808	mg/L	2.051	0.0808	ppm	3.94%
Mg 279.079	101257.6	11.94	0.427	mg/L	11.94	0.427	ppm	3.58%
Na 330.237	8845.0	24.67	0.963	mg/L	24.67	0.963	ppm	3.90%

Replicate Data ----------

ID: 3082-4 D F=1 Date: 05/08/03 01:20:58 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	2888.0	2907.2	39.24	mg/L	39.24	ppm
1	Fe 273.955	44031.5	44222.5	2.375	mg/L	2.375	ppm
1	K 766.491	100708.7	98428.6	1.986	mg/L	1.986	ppm
1	Mg 279.079	103784.6	104935.3	12.37	mg/L	12.37	ppm
1	Na 330.237	10430.4	9270.9	25.80	mg/L	25.80	ppm
2	Ca 227.547	2946.9	2966.1	40.03	mg/L	40.03	ppm
2	Fe 273.955	43952.6	44143.6	2.370	mg/L	2.370	ppm
2	K 766.491	105284.2	103004.1	2.076	mg/L	2.076	ppm
2	Mg 279.079	103193.2	104343.9	12.30	mg/L	12.30	ppm
2	Na 330.237	10332.7	9173.3	25.54	mg/L	25.54	ppm
3	Ca 227.547	2809.0	2828.2	38.17	mg/L	38.17	ppm
3	Fe 273.955	42297.2	42488.2	2.281	mg/L	2.281	ppm
3	K 766.491	100146.5	97866.4	1.975	mg/L	1.975	ppm
3	Mg 279.079	99003.8	100154.5	11.81	mg/L	11.81	ppm
3	Na 330.237	9859.2	8699.8	24.28	mg/L	24.28	ppm

Mean Data ----------

ID: 3082-4 D F=1 Seq. No.: 16 Sample No.: 5 A/S Pos: 14
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:20:58 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	2900.5	39.15	0.934	mg/L	39.15	0.934	ppm	2.39%
Fe 273.955	43618.1	2.342	0.0526	mg/L	2.342	0.0526	ppm	2.25%
K 766.491	99766.4	2.012	0.0552	mg/L	2.012	0.0552	ppm	2.74%
Mg 279.079	103144.6	12.16	0.307	mg/L	12.16	0.307	ppm	2.53%
Na 330.237	9048.0	25.21	0.813	mg/L	25.21	0.813	ppm	3.22%

Matrix Check Sample: 3082-4 D F=1

Element	Expected Conc.	Measured Conc.	Calib Std.Dev.	Calib Units	Relative % Diff.
Ca 227.547	38.60	39.15	0.934	mg/L	1.406
Fe 273.955	2.312	2.342	0.053	mg/L	1.315
K 766.491	2.051	2.012	0.055	mg/L	1.924
Mg 279.079	11.94	12.16	0.307	mg/L	1.846
Na 330.237	24.67	25.21	0.813	mg/L	2.167

Replicate Data ----------

ID: 3082-4 1/5 F=5 Date: 05/08/03 01:23:33 PM

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

1 Ca 227.547	526.6	545.8	7.367 mg/L	36.84 ppm
1 Fe 273.955	8736.4	8927.4	0.4794 mg/L	2.397 ppm
1 K 766.491	18965.0	16684.9	0.3711 mg/L	1.855 ppm
1 Mg 279.079	18926.3	20077.0	2.367 mg/L	11.84 ppm
1 Na 330.237	2763.3	1603.8	4.880 mg/L	24.40 ppm
2 Ca 227.547	549.8	569.0	7.680 mg/L	38.40 ppm
2 Fe 273.955	8337.3	8528.3	0.4579 mg/L	2.290 ppm
2 K 766.491	18896.4	16616.3	0.3697 mg/L	1.849 ppm
2 Mg 279.079	18002.4	19153.2	2.258 mg/L	11.29 ppm
2 Na 330.237	2630.0	1470.5	4.505 mg/L	22.53 ppm
3 Ca 227.547	574.2	593.4	8.009 mg/L	40.04 ppm
3 Fe 273.955	8414.9	8605.9	0.4621 mg/L	2.310 ppm
3 K 766.491	18528.7	16248.6	0.3624 mg/L	1.812 ppm
3 Mg 279.079	17916.4	19067.1	2.248 mg/L	11.24 ppm
3 Na 330.237	2668.6	1509.1	4.614 mg/L	23.07 ppm

Mean Data ----------

ID: 3082-4 1/5 F=5 Seq. No.: 17 Sample No.: 6 A/S Pos: 15
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 5.0
Data: Original Date: 05/08/03 01:23:33 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	569.4	7.685	0.3208	mg/L	38.43	1.604	ppm	4.17%
Fe 273.955	8687.2	0.4664	0.01138	mg/L	2.332	0.0569	ppm	2.44%
K 766.491	16516.6	0.3677	0.00467	mg/L	1.839	0.0234	ppm	1.27%
Mg 279.079	19432.4	2.291	0.0660	mg/L	11.46	0.330	ppm	2.88%
Na 330.237	1527.8	4.666	0.1926	mg/L	23.33	0.963	ppm	4.13%

Replicate Data ----------

ID: 3082-4 MS F=1 Date: 05/08/03 01:26:09 PM

Repl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ca 227.547	4420.4	4439.6	59.92	mg/L	59.92	ppm
1 Fe 273.955	64143.3	64334.4	3.455	mg/L	3.455	ppm
1 K 766.491	389260.9	386980.8	7.490	mg/L	7.490	ppm
1 Mg 279.079	194220.2	195371.0	23.04	mg/L	23.04	ppm
1 Na 330.237	27878.4	26718.9	69.67	mg/L	69.67	ppm
2 Ca 227.547	4384.7	4403.9	59.44	mg/L	59.44	ppm
2 Fe 273.955	63089.4	63280.4	3.398	mg/L	3.398	ppm
2 K 766.491	401618.1	399338.0	7.719	mg/L	7.719	ppm
2 Mg 279.079	190317.3	191468.1	22.58	mg/L	22.58	ppm
2 Na 330.237	27457.8	26298.4	68.67	mg/L	68.67	ppm
3 Ca 227.547	4301.9	4321.1	58.32	mg/L	58.32	ppm
3 Fe 273.955	63294.7	63485.8	3.409	mg/L	3.409	ppm
3 K 766.491	409677.8	407397.7	7.868	mg/L	7.868	ppm
3 Mg 279.079	191081.5	192232.2	22.67	mg/L	22.67	ppm
3 Na 330.237	27624.6	26465.1	69.06	mg/L	69.06	ppm

Mean Data ----------

ID: 3082-4 MS F=1 Seq. No.: 18 Sample No.: 7 A/S Pos: 16
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:26:09 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	4388.2	59.23	0.820	mg/L	59.23	0.820	ppm	1.38%
Fe 273.955	63700.2	3.421	0.0300	mg/L	3.421	0.0300	ppm	0.88%
K 766.491	397905.5	7.692	0.1907	mg/L	7.692	0.1907	ppm	2.48%
Mg 279.079	193023.8	22.76	0.244	mg/L	22.76	0.244	ppm	1.07%
Na 330.237	26494.1	69.13	0.506	mg/L	69.13	0.506	ppm	0.73%

Matrix Check Sample: 3082-4 MS F=1

	Expected	Measured	Calib

Element	Conc.	Conc.	Std.Dev.	Units	% Recovery
Ca 227.547	58.60	59.23	0.820	mg/L	103.134
Fe 273.955	3.312	3.421	0.030	mg/L	110.897
K 766.491	7.051	7.692	0.191	mg/L	112.815
Mg 279.079	21.94	22.76	0.244	mg/L	108.201
Na 330.237	64.67	69.13	0.506	mg/L	111.158

Replicate Data ----------
ID: 3082-4 MSD F=1 Date: 05/08/03 01:28:42 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	4261.3	4280.5	57.78	mg/L	57.78	ppm
1	Fe 273.955	61150.4	61341.4	3.294	mg/L	3.294	ppm
1	K 766.491	421064.2	418784.1	8.079	mg/L	8.079	ppm
1	Mg 279.079	184288.5	185439.3	21.87	mg/L	21.87	ppm
1	Na 330.237	26569.5	25410.0	66.53	mg/L	66.53	ppm
2	Ca 227.547	4364.8	4384.0	59.17	mg/L	59.17	ppm
2	Fe 273.955	61495.5	61686.5	3.312	mg/L	3.312	ppm
2	K 766.491	400992.5	398712.4	7.707	mg/L	7.707	ppm
2	Mg 279.079	185019.9	186170.7	21.95	mg/L	21.95	ppm
2	Na 330.237	26754.6	25595.1	66.98	mg/L	66.98	ppm
3	Ca 227.547	4160.2	4179.5	56.41	mg/L	56.41	ppm
3	Fe 273.955	59678.1	59869.1	3.215	mg/L	3.215	ppm
3	K 766.491	403687.6	401407.5	7.757	mg/L	7.757	ppm
3	Mg 279.079	178773.9	179924.6	21.21	mg/L	21.21	ppm
3	Na 330.237	25679.3	24519.8	64.39	mg/L	64.39	ppm

Mean Data ----------
ID: 3082-4 MSD F=1 Seq. No.: 19 Sample No.: 8 A/S Pos: 17
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:28:42 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	4281.3	57.79	1.381	mg/L	57.79	1.381	ppm	2.39%
Fe 273.955	60965.7	3.274	0.0518	mg/L	3.274	0.0518	ppm	1.58%
K 766.491	406301.3	7.848	0.2016	mg/L	7.848	0.2016	ppm	2.57%
Mg 279.079	183844.8	21.68	0.403	mg/L	21.68	0.403	ppm	1.86%
Na 330.237	25175.0	65.97	1.385	mg/L	65.97	1.385	ppm	2.10%

Matrix Check Sample: 3082-4 MSD F=1

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	58.60	57.79	1.381	mg/L	95.921
Fe 273.955	3.312	3.274	0.052	mg/L	96.210
K 766.491	7.051	7.848	0.202	mg/L	115.926
Mg 279.079	21.94	21.68	0.403	mg/L	97.378
Na 330.237	64.67	65.97	1.385	mg/L	103.245

Replicate Data ----------
ID: 3082-4 PS F=1 Date: 05/08/03 01:31:11 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	4237.1	4256.3	57.45	mg/L	57.45	ppm
1	Fe 273.955	61465.2	61656.2	3.311	mg/L	3.311	ppm
1	K 766.491	394055.2	391775.1	7.579	mg/L	7.579	ppm
1	Mg 279.079	185030.2	186181.0	21.95	mg/L	21.95	ppm
1	Na 330.237	26442.7	25283.2	66.23	mg/L	66.23	ppm
2	Ca 227.547	4310.3	4329.5	58.44	mg/L	58.44	ppm
2	Fe 273.955	61806.0	61997.0	3.329	mg/L	3.329	ppm
2	K 766.491	405279.8	402999.7	7.787	mg/L	7.787	ppm
2	Mg 279.079	185721.3	186872.1	22.03	mg/L	22.03	ppm
2	Na 330.237	26946.2	25786.7	67.44	mg/L	67.44	ppm

3 Ca 227.547	4377.2	4396.4	59.34 mg/L	59.34 ppm
3 Fe 273.955	61900.2	62091.2	3.334 mg/L	3.334 ppm
3 K 766.491	401134.2	398854.1	7.710 mg/L	7.710 ppm
3 Mg 279.079	186079.9	187230.7	22.08 mg/L	22.08 ppm
3 Na 330.237	27054.5	25895.0	67.70 mg/L	67.70 ppm

Mean Data ----------

ID: 3082-4 PS F=1 Seq. No.: 20 Sample No.: 9 A/S Pos: 18
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:31:11 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	4327.4	58.41	0.946	mg/L	58.41	0.946	ppm	1.62%
Fe 273.955	61914.8	3.325	0.0123	mg/L	3.325	0.0123	ppm	0.37%
K 766.491	397876.3	7.692	0.1052	mg/L	7.692	0.1052	ppm	1.37%
Mg 279.079	186761.2	22.02	0.063	mg/L	22.02	0.063	ppm	0.29%
Na 330.237	25655.0	67.12	0.784	mg/L	67.12	0.784	ppm	1.17%

Matrix Check Sample: 3082-4 PS F=1

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	58.60	58.41	0.946	mg/L	99.030
Fe 273.955	3.312	3.325	0.012	mg/L	101.308
K 766.491	7.051	7.692	0.105	mg/L	112.806
Mg 279.079	21.94	22.02	0.063	mg/L	100.817
Na 330.237	64.67	67.12	0.784	mg/L	106.132

Replicate Data ----------

ID: CCV 1447B Date: 05/08/03 01:33:43 PM

Repl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ca 227.547	3553.7	3572.9	48.22	mg/L		
1 Fe 273.955	90070.1	90261.1	4.848	mg/L		
1 K 766.491	787426.1	785146.0	14.64	mg/L		
1 Mg 279.079	207788.9	208939.7	24.64	mg/L		
1 Na 330.237	41794.8	40635.3	101.7	mg/L		
2 Ca 227.547	3698.1	3717.3	50.17	mg/L		
2 Fe 273.955	91937.9	92129.0	4.948	mg/L		
2 K 766.491	811506.2	809226.1	15.06	mg/L		
2 Mg 279.079	211829.6	212980.3	25.11	mg/L		
2 Na 330.237	42474.4	41314.9	103.2	mg/L		
3 Ca 227.547	3660.2	3679.4	49.66	mg/L		
3 Fe 273.955	90639.8	90830.9	4.878	mg/L		
3 K 766.491	826377.9	824097.8	15.32	mg/L		
3 Mg 279.079	208809.6	209960.4	24.76	mg/L		
3 Na 330.237	42159.7	41000.2	102.5	mg/L		

Mean Data ----------

ID: CCV 1447B Seq. No.: 21 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:33:43 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	3656.5	49.35	1.011	mg/L				2.05%
Fe 273.955	91073.7	4.891	0.0514	mg/L				1.05%
K 766.491	806156.6	15.01	0.341	mg/L				2.27%
Mg 279.079	210626.8	24.83	0.248	mg/L				1.00%
Na 330.237	40983.5	102.5	0.75	mg/L				0.74%

Replicate Data ----------

ID: CCB Date: 05/08/03 01:36:15 PM

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

1 Ca 227.547	-54.7	-35.5	-0.4786	mg/L
1 Fe 273.955	-242.1	-51.1	-0.0027	mg/L
1 K 766.491	2403.2	123.1	0.0406	mg/L
1 Mg 279.079	-1144.6	6.2	0.0007	mg/L
1 Na 330.237	1064.3	-95.1	0.0801	mg/L
2 Ca 227.547	-48.1	-28.9	-0.3900	mg/L
2 Fe 273.955	-180.1	10.9	0.0006	mg/L
2 K 766.491	2528.1	248.0	0.0431	mg/L
2 Mg 279.079	-1055.2	95.6	0.0113	mg/L
2 Na 330.237	1158.0	-1.5	0.3463	mg/L
3 Ca 227.547	-17.8	1.5	0.0196	mg/L
3 Fe 273.955	-102.4	88.6	0.0048	mg/L
3 K 766.491	2456.8	176.7	0.0417	mg/L
3 Mg 279.079	-1038.0	112.8	0.0133	mg/L
3 Na 330.237	1206.0	46.5	0.4826	mg/L

Mean Data

ID: CCB Seq. No.: 22 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:36:15 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	-21.0	-0.2830	0.26577	mg/L				93.91%
Fe 273.955	16.1	0.0009	0.00376	mg/L				433.64%
K 766.491	182.6	0.0418	0.00125	mg/L				3.00%
Mg 279.079	71.5	0.0084	0.00675	mg/L				80.00%
Na 330.237	-16.7	0.3030	0.20471	mg/L				67.56%

Replicate Data

ID: 3082-1 F=1 Date: 05/08/03 01:38:45 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	-79.6	-60.4	-0.8152	mg/L	-0.8152	ppm
1	Fe 273.955	408.3	599.4	0.0322	mg/L	0.0322	ppm
1	K 766.491	3392.6	1112.5	0.0604	mg/L	0.0604	ppm
1	Mg 279.079	-719.5	431.3	0.0509	mg/L	0.0509	ppm
1	Na 330.237	1462.3	302.8	1.210	mg/L	1.210	ppm
2	Ca 227.547	10.6	29.8	0.4027	mg/L	0.4027	ppm
2	Fe 273.955	399.8	590.8	0.0317	mg/L	0.0317	ppm
2	K 766.491	3276.2	996.1	0.0581	mg/L	0.0581	ppm
2	Mg 279.079	-666.7	484.0	0.0571	mg/L	0.0571	ppm
2	Na 330.237	1549.7	390.2	1.458	mg/L	1.458	ppm
3	Ca 227.547	-8.6	10.6	0.1430	mg/L	0.1430	ppm
3	Fe 273.955	372.5	563.6	0.0303	mg/L	0.0303	ppm
3	K 766.491	3340.9	1060.8	0.0593	mg/L	0.0593	ppm
3	Mg 279.079	-628.7	522.1	0.0616	mg/L	0.0616	ppm
3	Na 330.237	1360.7	201.2	0.9219	mg/L	0.9219	ppm

Mean Data

ID: 3082-1 F=1 Seq. No.: 23 Sample No.: 10 A/S Pos: 19
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:38:45 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	-6.7	-0.0898	0.64145	mg/L	-0.0898	0.64145	ppm	714.05%
Fe 273.955	584.6	0.0314	0.00100	mg/L	0.0314	0.00100	ppm	3.20%
K 766.491	1056.5	0.0593	0.00117	mg/L	0.0593	0.00117	ppm	1.97%
Mg 279.079	479.1	0.0565	0.00538	mg/L	0.0565	0.00538	ppm	9.52%
Na 330.237	298.1	1.197	0.2681	mg/L	1.197	0.2681	ppm	22.41%

Replicate Data

ID: 3082-2 F=1 Date: 05/08/03 01:41:15 PM

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

1	Ca 227.547	4230.1	4249.4	57.36 mg/L	57.36 ppm
1	Fe 273.955	1566.4	1757.4	0.0929 mg/L	0.0929 ppm
1	K 766.491	156839.1	154559.0	3.080 mg/L	3.080 ppm
1	Mg 279.079	161685.1	162835.8	19.20 mg/L	19.20 ppm
1	Na 330.237	10308.2	9148.7	25.48 mg/L	25.48 ppm
2	Ca 227.547	4139.1	4158.3	56.13 mg/L	56.13 ppm
2	Fe 273.955	1591.3	1782.3	0.0943 mg/L	0.0943 ppm
2	K 766.491	156276.4	153996.3	3.069 mg/L	3.069 ppm
2	Mg 279.079	157554.9	158705.7	18.71 mg/L	18.71 ppm
2	Na 330.237	10014.5	8855.0	24.70 mg/L	24.70 ppm
3	Ca 227.547	4066.5	4085.7	55.15 mg/L	55.15 ppm
3	Fe 273.955	1518.9	1709.9	0.0904 mg/L	0.0904 ppm
3	K 766.491	164710.0	162429.9	3.233 mg/L	3.233 ppm
3	Mg 279.079	153677.1	154827.8	18.26 mg/L	18.26 ppm
3	Na 330.237	9749.0	8589.5	23.99 mg/L	23.99 ppm

Mean Data ----------

ID: 3082-2 F=1 Seq. No.: 24 Sample No.: 11 A/S Pos: 20
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:41:15 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	4164.4	56.21	1.107	mg/L	56.21	1.107	ppm	1.97%
Fe 273.955	1749.9	0.0926	0.00196	mg/L	0.0926	0.00196	ppm	2.12%
K 766.491	156995.1	3.127	0.0913	mg/L	3.127	0.0913	ppm	2.92%
Mg 279.079	158789.8	18.72	0.472	mg/L	18.72	0.472	ppm	2.52%
Na 330.237	8864.4	24.72	0.745	mg/L	24.72	0.745	ppm	3.01%

Replicate Data ----------

ID: 3082-3 F=1 Date: 05/08/03 01:43:47 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	2867.2	2886.4	38.96	mg/L	38.96	ppm
1	Fe 273.955	3885.8	4076.8	0.2181	mg/L	0.2181	ppm
1	K 766.491	135598.9	133318.8	2.668	mg/L	2.668	ppm
1	Mg 279.079	135575.2	136726.0	16.12	mg/L	16.12	ppm
1	Na 330.237	8730.7	7571.2	21.26	mg/L	21.26	ppm
2	Ca 227.547	2868.4	2887.6	38.98	mg/L	38.98	ppm
2	Fe 273.955	3776.7	3967.7	0.2122	mg/L	0.2122	ppm
2	K 766.491	146856.8	144576.7	2.887	mg/L	2.887	ppm
2	Mg 279.079	132654.4	133805.1	15.78	mg/L	15.78	ppm
2	Na 330.237	8705.9	7546.4	21.20	mg/L	21.20	ppm
3	Ca 227.547	2922.0	2941.2	39.70	mg/L	39.70	ppm
3	Fe 273.955	3902.8	4093.9	0.2189	mg/L	0.2189	ppm
3	K 766.491	140673.8	138393.7	2.766	mg/L	2.766	ppm
3	Mg 279.079	133180.5	134331.3	15.84	mg/L	15.84	ppm
3	Na 330.237	8679.5	7520.0	21.13	mg/L	21.13	ppm

Mean Data ----------

ID: 3082-3 F=1 Seq. No.: 25 Sample No.: 12 A/S Pos: 21
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:43:47 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	2905.1	39.21	0.423	mg/L	39.21	0.423	ppm	1.08%
Fe 273.955	4046.1	0.2164	0.00367	mg/L	0.2164	0.00367	ppm	1.70%
K 766.491	138763.1	2.774	0.1096	mg/L	2.774	0.1096	ppm	3.95%
Mg 279.079	134954.1	15.91	0.184	mg/L	15.91	0.184	ppm	1.15%
Na 330.237	7545.9	21.19	0.069	mg/L	21.19	0.069	ppm	0.32%

Replicate Data ----------

ID: 3082-5 F=1 Date: 05/08/03 01:46:18 PM

		Net	Corrected	Calib	Sample

Repl#	Element	Intensity	Intensity	Conc.	Units	Conc.	Units
1	Ca 227.547	648.4	667.6	9.010	mg/L	9.010	ppm
1	Fe 273.955	937.9	1129.0	0.0605	mg/L	0.0605	ppm
1	K 766.491	92055.3	89775.2	1.816	mg/L	1.816	ppm
1	Mg 279.079	63329.1	64479.9	7.603	mg/L	7.603	ppm
1	Na 330.237	10297.0	9137.5	25.45	mg/L	25.45	ppm
2	Ca 227.547	666.5	685.7	9.255	mg/L	9.255	ppm
2	Fe 273.955	942.6	1133.6	0.0607	mg/L	0.0607	ppm
2	K 766.491	92540.9	90260.8	1.826	mg/L	1.826	ppm
2	Mg 279.079	62773.5	63924.2	7.537	mg/L	7.537	ppm
2	Na 330.237	10087.9	8928.5	24.89	mg/L	24.89	ppm
3	Ca 227.547	638.1	657.3	8.871	mg/L	8.871	ppm
3	Fe 273.955	988.4	1179.4	0.0632	mg/L	0.0632	ppm
3	K 766.491	91569.3	89289.2	1.807	mg/L	1.807	ppm
3	Mg 279.079	62561.8	63712.5	7.512	mg/L	7.512	ppm
3	Na 330.237	10160.7	9001.2	25.09	mg/L	25.09	ppm

Mean Data

ID: 3082-5 F=1 Seq. No.: 26 Sample No.: 13 A/S Pos: 22
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:46:18 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	670.2	9.046	0.1944	mg/L	9.046	0.1944	ppm	2.15%
Fe 273.955	1147.3	0.0615	0.00150	mg/L	0.0615	0.00150	ppm	2.44%
K 766.491	89775.1	1.816	0.0095	mg/L	1.816	0.0095	ppm	0.53%
Mg 279.079	64038.9	7.551	0.0467	mg/L	7.551	0.0467	ppm	0.62%
Na 330.237	9022.4	25.14	0.282	mg/L	25.14	0.282	ppm	1.12%

Replicate Data

ID: 3082-6 F=1 Date: 05/08/03 01:48:50 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	949.7	968.9	13.08	mg/L	13.08	ppm
1	Fe 273.955	4564.6	4755.7	0.2551	mg/L	0.2551	ppm
1	K 766.491	58859.2	56579.1	1.163	mg/L	1.163	ppm
1	Mg 279.079	12599.2	13749.9	1.621	mg/L	1.621	ppm
1	Na 330.237	18591.6	17432.1	46.91	mg/L	46.91	ppm
2	Ca 227.547	963.9	983.1	13.27	mg/L	13.27	ppm
2	Fe 273.955	4411.4	4602.4	0.2468	mg/L	0.2468	ppm
2	K 766.491	59015.2	56735.1	1.166	mg/L	1.166	ppm
2	Mg 279.079	12508.9	13659.7	1.611	mg/L	1.611	ppm
2	Na 330.237	18634.7	17475.2	47.01	mg/L	47.01	ppm
3	Ca 227.547	991.1	1010.3	13.64	mg/L	13.64	ppm
3	Fe 273.955	4426.9	4617.9	0.2476	mg/L	0.2476	ppm
3	K 766.491	59205.4	56925.3	1.169	mg/L	1.169	ppm
3	Mg 279.079	12367.0	13517.8	1.594	mg/L	1.594	ppm
3	Na 330.237	18379.0	17219.5	46.37	mg/L	46.37	ppm

Mean Data

ID: 3082-6 F=1 Seq. No.: 27 Sample No.: 14 A/S Pos: 23
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:48:50 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	987.5	13.33	0.284	mg/L	13.33	0.284	ppm	2.13%
Fe 273.955	4658.7	0.2498	0.00454	mg/L	0.2498	0.00454	ppm	1.82%
K 766.491	56746.5	1.166	0.0034	mg/L	1.166	0.0034	ppm	0.29%
Mg 279.079	13642.5	1.609	0.0138	mg/L	1.609	0.0138	ppm	0.86%
Na 330.237	17375.6	46.76	0.345	mg/L	46.76	0.345	ppm	0.74%

Replicate Data

ID: 3102-1 F=1 Date: 05/08/03 01:51:21 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	3325.6	3344.8	45.15	mg/L	45.15	ppm
1	Fe 273.955	1068.8	1259.8	0.0665	mg/L	0.0665	ppm
1	K 766.491	136348.3	134068.2	2.682	mg/L	2.682	ppm
1	Mg 279.079	124218.0	125368.8	14.78	mg/L	14.78	ppm
1	Na 330.237	9880.2	8720.7	24.34	mg/L	24.34	ppm
2	Ca 227.547	3238.2	3257.4	43.97	mg/L	43.97	ppm
2	Fe 273.955	995.7	1186.8	0.0626	mg/L	0.0626	ppm
2	K 766.491	144954.6	142674.5	2.850	mg/L	2.850	ppm
2	Mg 279.079	119413.8	120564.5	14.22	mg/L	14.22	ppm
2	Na 330.237	9341.5	8182.1	22.90	mg/L	22.90	ppm
3	Ca 227.547	3330.4	3349.6	45.21	mg/L	45.21	ppm
3	Fe 273.955	934.1	1125.1	0.0593	mg/L	0.0593	ppm
3	K 766.491	143680.9	141400.8	2.825	mg/L	2.825	ppm
3	Mg 279.079	118511.2	119662.0	14.11	mg/L	14.11	ppm
3	Na 330.237	9363.6	8204.2	22.96	mg/L	22.96	ppm

Mean Data

ID: 3102-1 F=1 Seq. No.: 28 Sample No.: 15 A/S Pos: 24
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:51:21 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	3317.3	44.77	0.701	mg/L	44.77	0.701	ppm	1.57%
Fe 273.955	1190.6	0.0628	0.00363	mg/L	0.0628	0.00363	ppm	5.78%
K 766.491	139381.2	2.786	0.0903	mg/L	2.786	0.0903	ppm	3.24%
Mg 279.079	121865.1	14.37	0.362	mg/L	14.37	0.362	ppm	2.52%
Na 330.237	8369.0	23.40	0.814	mg/L	23.40	0.814	ppm	3.48%

Replicate Data

ID: 3102-2 F=1 Date: 05/08/03 01:53:55 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	-29.4	-10.2	-0.1370	mg/L	-0.1370	ppm
1	Fe 273.955	135.4	326.5	0.0175	mg/L	0.0175	ppm
1	K 766.491	3824.1	1544.0	0.0690	mg/L	0.0690	ppm
1	Mg 279.079	-921.6	229.2	0.0270	mg/L	0.0270	ppm
1	Na 330.237	1321.3	161.8	0.8099	mg/L	0.8099	ppm
2	Ca 227.547	-23.1	-3.9	-0.0520	mg/L	-0.0520	ppm
2	Fe 273.955	103.6	294.7	0.0158	mg/L	0.0158	ppm
2	K 766.491	4146.4	1866.3	0.0754	mg/L	0.0754	ppm
2	Mg 279.079	-913.9	236.8	0.0279	mg/L	0.0279	ppm
2	Na 330.237	1398.7	239.2	1.030	mg/L	1.030	ppm
3	Ca 227.547	-7.1	12.1	0.1630	mg/L	0.1630	ppm
3	Fe 273.955	103.0	294.0	0.0158	mg/L	0.0158	ppm
3	K 766.491	3789.0	1508.9	0.0683	mg/L	0.0683	ppm
3	Mg 279.079	-957.0	193.7	0.0228	mg/L	0.0228	ppm
3	Na 330.237	1372.2	212.7	0.9544	mg/L	0.9544	ppm

Mean Data

ID: 3102-2 F=1 Seq. No.: 29 Sample No.: 16 A/S Pos: 25
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:53:55 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	-0.6	-0.0087	0.15462	mg/L	-0.0087	0.15462	ppm	>999.9%
Fe 273.955	305.1	0.0164	0.00100	mg/L	0.0164	0.00100	ppm	6.08%
K 766.491	1639.7	0.0709	0.00394	mg/L	0.0709	0.00394	ppm	5.55%
Mg 279.079	219.9	0.0259	0.00271	mg/L	0.0259	0.00271	ppm	10.46%
Na 330.237	204.6	0.9313	0.11162	mg/L	0.9313	0.11162	ppm	11.99%

Replicate Data

ID: 3102-3 F=1 Date: 05/08/03 01:56:28 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	4427.6	4446.9	60.02	mg/L	60.02	ppm
1	Fe 273.955	10759.1	10950.1	0.5867	mg/L	0.5867	ppm
1	K 766.491	171956.0	169675.9	3.373	mg/L	3.373	ppm
1	Mg 279.079	186351.1	187501.8	22.11	mg/L	22.11	ppm
1	Na 330.237	10068.3	8908.8	24.84	mg/L	24.84	ppm
2	Ca 227.547	4371.5	4390.7	59.26	mg/L	59.26	ppm
2	Fe 273.955	10309.8	10500.8	0.5626	mg/L	0.5626	ppm
2	K 766.491	177657.6	175377.5	3.483	mg/L	3.483	ppm
2	Mg 279.079	179657.1	180807.8	21.32	mg/L	21.32	ppm
2	Na 330.237	9926.8	8767.4	24.46	mg/L	24.46	ppm
3	Ca 227.547	4501.3	4520.5	61.01	mg/L	61.01	ppm
3	Fe 273.955	10390.0	10581.0	0.5669	mg/L	0.5669	ppm
3	K 766.491	175208.0	172927.9	3.436	mg/L	3.436	ppm
3	Mg 279.079	180716.9	181867.7	21.44	mg/L	21.44	ppm
3	Na 330.237	9866.1	8706.6	24.30	mg/L	24.30	ppm

Mean Data

ID: 3102-3 F=1 Seq. No.: 30 Sample No.: 17 A/S Pos: 26
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:56:28 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	4452.7	60.10	0.878	mg/L	60.10	0.878	ppm	1.46%
Fe 273.955	10677.3	0.5721	0.01288	mg/L	0.5721	0.01288	ppm	2.25%
K 766.491	172660.4	3.431	0.0553	mg/L	3.431	0.0553	ppm	1.61%
Mg 279.079	183392.4	21.62	0.424	mg/L	21.62	0.424	ppm	1.96%
Na 330.237	8794.3	24.54	0.276	mg/L	24.54	0.276	ppm	1.13%

Replicate Data

ID: 3102-4 F=1 Date: 05/08/03 01:59:02 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	4319.0	4338.2	58.55	mg/L	58.55	ppm
1	Fe 273.955	3849.4	4040.5	0.2155	mg/L	0.2155	ppm
1	K 766.491	144540.8	142260.7	2.842	mg/L	2.842	ppm
1	Mg 279.079	147684.9	148835.6	17.55	mg/L	17.55	ppm
1	Na 330.237	10044.3	8884.8	24.78	mg/L	24.78	ppm
2	Ca 227.547	4036.6	4055.8	54.74	mg/L	54.74	ppm
2	Fe 273.955	3549.4	3740.4	0.1995	mg/L	0.1995	ppm
2	K 766.491	152694.9	150414.8	3.000	mg/L	3.000	ppm
2	Mg 279.079	140473.8	141624.5	16.70	mg/L	16.70	ppm
2	Na 330.237	9484.7	8325.2	23.28	mg/L	23.28	ppm
3	Ca 227.547	4124.1	4143.3	55.92	mg/L	55.92	ppm
3	Fe 273.955	3497.9	3689.0	0.1967	mg/L	0.1967	ppm
3	K 766.491	146683.7	144403.6	2.883	mg/L	2.883	ppm
3	Mg 279.079	140367.8	141518.5	16.69	mg/L	16.69	ppm
3	Na 330.237	9343.0	8183.5	22.90	mg/L	22.90	ppm

Mean Data

ID: 3102-4 F=1 Seq. No.: 31 Sample No.: 18 A/S Pos: 27
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 01:59:02 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	4179.1	56.41	1.951	mg/L	56.41	1.951	ppm	3.46%
Fe 273.955	3823.3	0.2039	0.01015	mg/L	0.2039	0.01015	ppm	4.98%
K 766.491	145693.0	2.908	0.0821	mg/L	2.908	0.0821	ppm	2.82%
Mg 279.079	143992.9	16.98	0.495	mg/L	16.98	0.495	ppm	2.91%
Na 330.237	8464.5	23.65	0.990	mg/L	23.65	0.990	ppm	4.18%

Replicate Data

ID: CCV 1447B Date: 05/08/03 02:01:36 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	3748.1	3767.3	50.85	mg/L		
1	Fe 273.955	93259.0	93450.0	5.019	mg/L		
1	K 766.491	811328.4	809048.3	15.06	mg/L		
1	Mg 279.079	214979.2	216129.9	25.48	mg/L		
1	Na 330.237	43517.3	42357.8	105.5	mg/L		
2	Ca 227.547	3767.5	3786.8	51.11	mg/L		
2	Fe 273.955	93444.8	93635.8	5.029	mg/L		
2	K 766.491	802611.4	800331.3	14.91	mg/L		
2	Mg 279.079	215163.9	216314.7	25.51	mg/L		
2	Na 330.237	43598.9	42439.4	105.7	mg/L		
3	Ca 227.547	3690.7	3709.9	50.07	mg/L		
3	Fe 273.955	92216.1	92407.1	4.963	mg/L		
3	K 766.491	816277.4	813997.3	15.14	mg/L		
3	Mg 279.079	212124.2	213275.0	25.15	mg/L		
3	Na 330.237	43092.3	41932.8	104.6	mg/L		

Mean Data

ID: CCV 1447B Seq. No.: 32 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:01:36 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	3754.6	50.68	0.540	mg/L				1.06%
Fe 273.955	93164.3	5.004	0.0356	mg/L				0.71%
K 766.491	807792.3	15.04	0.120	mg/L				0.80%
Mg 279.079	215239.9	25.38	0.201	mg/L				0.79%
Na 330.237	42243.4	105.3	0.60	mg/L				0.57%

Replicate Data

ID: CCB Date: 05/08/03 02:04:09 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	-43.6	-24.4	-0.3298	mg/L		
1	Fe 273.955	-179.6	11.4	0.0006	mg/L		
1	K 766.491	2496.4	216.3	0.0425	mg/L		
1	Mg 279.079	-1017.9	132.9	0.0157	mg/L		
1	Na 330.237	1261.0	101.5	0.6390	mg/L		
2	Ca 227.547	-61.7	-42.5	-0.5733	mg/L		
2	Fe 273.955	-160.6	30.4	0.0016	mg/L		
2	K 766.491	2793.1	513.0	0.0484	mg/L		
2	Mg 279.079	-1033.6	117.2	0.0138	mg/L		
2	Na 330.237	1234.4	74.9	0.5633	mg/L		
3	Ca 227.547	-63.8	-44.6	-0.6022	mg/L		
3	Fe 273.955	-119.7	71.4	0.0038	mg/L		
3	K 766.491	2329.2	49.1	0.0391	mg/L		
3	Mg 279.079	-974.4	176.4	0.0208	mg/L		
3	Na 330.237	1180.7	21.2	0.4109	mg/L		

Mean Data

ID: CCB Seq. No.: 33 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:04:09 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	-37.2	-0.5018	0.14962	mg/L				29.82%
Fe 273.955	37.7	0.0020	0.00164	mg/L				81.14%
K 766.491	259.4	0.0433	0.00470	mg/L				10.84%
Mg 279.079	142.1	0.0168	0.00361	mg/L				21.56%
Na 330.237	65.9	0.5377	0.11615	mg/L				21.60%

Replicate Data
ID: 3102-5 F=1 Date: 05/08/03 02:06:40 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	3346.8	3366.1	45.43	mg/L	45.43	ppm
1	Fe 273.955	1041.5	1232.6	0.0650	mg/L	0.0650	ppm
1	K 766.491	136556.5	134276.4	2.686	mg/L	2.686	ppm
1	Mg 279.079	125156.8	126307.6	14.89	mg/L	14.89	ppm
1	Na 330.237	9868.0	8708.5	24.31	mg/L	24.31	ppm
2	Ca 227.547	3331.1	3350.3	45.22	mg/L	45.22	ppm
2	Fe 273.955	1009.1	1200.2	0.0633	mg/L	0.0633	ppm
2	K 766.491	143205.0	140924.9	2.816	mg/L	2.816	ppm
2	Mg 279.079	122331.2	123482.0	14.56	mg/L	14.56	ppm
2	Na 330.237	9645.6	8486.1	23.71	mg/L	23.71	ppm
3	Ca 227.547	3328.6	3347.8	45.19	mg/L	45.19	ppm
3	Fe 273.955	1026.6	1217.7	0.0642	mg/L	0.0642	ppm
3	K 766.491	141389.6	139109.5	2.780	mg/L	2.780	ppm
3	Mg 279.079	120138.7	121289.5	14.30	mg/L	14.30	ppm
3	Na 330.237	9321.6	8162.1	22.85	mg/L	22.85	ppm

Mean Data
ID: 3102-5 F=1 Seq. No.: 34 Sample No.: 19 A/S Pos: 28
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:06:40 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	3354.7	45.28	0.133	mg/L	45.28	0.133	ppm	0.29%
Fe 273.955	1216.8	0.0642	0.00087	mg/L	0.0642	0.00087	ppm	1.36%
K 766.491	138103.6	2.761	0.0668	mg/L	2.761	0.0668	ppm	2.42%
Mg 279.079	123693.0	14.58	0.297	mg/L	14.58	0.297	ppm	2.03%
Na 330.237	8452.3	23.62	0.734	mg/L	23.62	0.734	ppm	3.11%

Replicate Data
ID: 3102-6 F=1 Date: 05/08/03 02:09:15 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	4229.0	4248.2	57.34	mg/L	57.34	ppm
1	Fe 273.955	1304.1	1495.2	0.0788	mg/L	0.0788	ppm
1	K 766.491	108300.4	106020.3	2.135	mg/L	2.135	ppm
1	Mg 279.079	116298.3	117449.1	13.85	mg/L	13.85	ppm
1	Na 330.237	9764.9	8605.4	24.03	mg/L	24.03	ppm
2	Ca 227.547	4224.0	4243.2	57.27	mg/L	57.27	ppm
2	Fe 273.955	1177.3	1368.3	0.0719	mg/L	0.0719	ppm
2	K 766.491	106531.0	104250.9	2.100	mg/L	2.100	ppm
2	Mg 279.079	112763.8	113914.6	13.43	mg/L	13.43	ppm
2	Na 330.237	9429.6	8270.1	23.14	mg/L	23.14	ppm
3	Ca 227.547	4128.7	4147.9	55.99	mg/L	55.99	ppm
3	Fe 273.955	1187.6	1378.6	0.0725	mg/L	0.0725	ppm
3	K 766.491	108211.4	105931.3	2.133	mg/L	2.133	ppm
3	Mg 279.079	110430.3	111581.1	13.16	mg/L	13.16	ppm
3	Na 330.237	9124.5	7965.1	22.32	mg/L	22.32	ppm

Mean Data
ID: 3102-6 F=1 Seq. No.: 35 Sample No.: 20 A/S Pos: 29
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:09:15 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	4213.1	56.87	0.763	mg/L	56.87	0.763	ppm	1.34%
Fe 273.955	1414.0	0.0744	0.00378	mg/L	0.0744	0.00378	ppm	5.08%
K 766.491	105400.8	2.123	0.0195	mg/L	2.123	0.0195	ppm	0.92%
Mg 279.079	114314.9	13.48	0.348	mg/L	13.48	0.348	ppm	2.58%
Na 330.237	8280.2	23.16	0.856	mg/L	23.16	0.856	ppm	3.70%

Replicate Data
ID: 3102-7 F=1 Date: 05/08/03 02:11:50 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	2779.2	2798.5	37.77	mg/L	37.77	ppm
1	Fe 273.955	5023.5	5214.6	0.2791	mg/L	0.2791	ppm
1	K 766.491	103713.0	101432.9	2.045	mg/L	2.045	ppm
1	Mg 279.079	91905.0	93055.8	10.97	mg/L	10.97	ppm
1	Na 330.237	13814.2	12654.7	34.69	mg/L	34.69	ppm
2	Ca 227.547	2914.8	2934.0	39.60	mg/L	39.60	ppm
2	Fe 273.955	5067.8	5258.8	0.2815	mg/L	0.2815	ppm
2	K 766.491	105923.7	103643.6	2.088	mg/L	2.088	ppm
2	Mg 279.079	92586.3	93737.1	11.05	mg/L	11.05	ppm
2	Na 330.237	13916.8	12757.3	34.95	mg/L	34.95	ppm
3	Ca 227.547	3027.7	3046.9	41.12	mg/L	41.12	ppm
3	Fe 273.955	5347.9	5539.0	0.2965	mg/L	0.2965	ppm
3	K 766.491	106018.9	103738.8	2.090	mg/L	2.090	ppm
3	Mg 279.079	93745.3	94896.1	11.19	mg/L	11.19	ppm
3	Na 330.237	14157.5	12998.0	35.58	mg/L	35.58	ppm

Mean Data
ID: 3102-7 F=1 Seq. No.: 36 Sample No.: 21 A/S Pos: 30
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:11:50 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	2926.4	39.50	1.679	mg/L	39.50	1.679	ppm	4.25%
Fe 273.955	5337.4	0.2857	0.00940	mg/L	0.2857	0.00940	ppm	3.29%
K 766.491	102938.4	2.075	0.0255	mg/L	2.075	0.0255	ppm	1.23%
Mg 279.079	93896.3	11.07	0.110	mg/L	11.07	0.110	ppm	0.99%
Na 330.237	12803.3	35.07	0.457	mg/L	35.07	0.457	ppm	1.30%

Replicate Data
ID: 3105-1 F=1 Date: 05/08/03 02:14:25 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	4030.8	4050.0	54.66	mg/L	54.66	ppm
1	Fe 273.955	1726.8	1917.8	0.1016	mg/L	0.1016	ppm
1	K 766.491	781717.6	779437.5	14.54	mg/L	14.54	ppm
1	Mg 279.079	129187.4	130338.2	15.37	mg/L	15.37	ppm
1	Na 330.237	42378.3	41218.8	103.0	mg/L	103.0	ppm
2	Ca 227.547	4169.1	4188.3	56.53	mg/L	56.53	ppm
2	Fe 273.955	1742.7	1933.7	0.1024	mg/L	0.1024	ppm
2	K 766.491	837674.8	835394.7	15.51	mg/L	15.51	ppm
2	Mg 279.079	129973.4	131124.1	15.46	mg/L	15.46	ppm
2	Na 330.237	43141.1	41981.6	104.7	mg/L	104.7	ppm
3	Ca 227.547	4234.1	4253.3	57.41	mg/L	57.41	ppm
3	Fe 273.955	1735.2	1926.2	0.1019	mg/L	0.1019	ppm
3	K 766.491	810776.6	808496.5	15.05	mg/L	15.05	ppm
3	Mg 279.079	129680.0	130830.8	15.43	mg/L	15.43	ppm
3	Na 330.237	43713.5	42554.0	105.9	mg/L	105.9	ppm

Mean Data
ID: 3105-1 F=1 Seq. No.: 37 Sample No.: 22 A/S Pos: 31
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:14:25 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	4163.9	56.20	1.402	mg/L	56.20	1.402	ppm	2.49%
Fe 273.955	1925.9	0.1020	0.00040	mg/L	0.1020	0.00040	ppm	0.39%
K 766.491	807776.2	15.03	0.485	mg/L	15.03	0.485	ppm	3.23%
Mg 279.079	130764.4	15.42	0.047	mg/L	15.42	0.047	ppm	0.30%

Na 330.237	41918.2	104.5	1.48 mg/L	104.5	1.48 ppm	1.42%

Replicate Data
ID: 3105-2 F=1 Date: 05/08/03 02:16:57 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	2605.0	2624.2	35.42	mg/L	35.42	ppm
1	Fe 273.955	5077.3	5268.3	0.2820	mg/L	0.2820	ppm
1	K 766.491	640184.4	637904.3	12.05	mg/L	12.05	ppm
1	Mg 279.079	68387.0	69537.8	8.199	mg/L	8.199	ppm
1	Na 330.237	36042.3	34882.9	88.74	mg/L	88.74	ppm
2	Ca 227.547	2677.0	2696.2	36.39	mg/L	36.39	ppm
2	Fe 273.955	5036.2	5227.3	0.2798	mg/L	0.2798	ppm
2	K 766.491	668992.6	666712.5	12.56	mg/L	12.56	ppm
2	Mg 279.079	68763.3	69914.0	8.244	mg/L	8.244	ppm
2	Na 330.237	36932.8	35773.3	90.77	mg/L	90.77	ppm
3	Ca 227.547	2499.4	2518.7	34.00	mg/L	34.00	ppm
3	Fe 273.955	4819.7	5010.7	0.2682	mg/L	0.2682	ppm
3	K 766.491	681190.5	678910.4	12.78	mg/L	12.78	ppm
3	Mg 279.079	65013.2	66164.0	7.801	mg/L	7.801	ppm
3	Na 330.237	34560.5	33401.0	85.34	mg/L	85.34	ppm

Mean Data
ID: 3105-2 F=1 Seq. No.: 38 Sample No.: 23 A/S Pos: 32
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:16:57 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	2613.0	35.27	1.206	mg/L	35.27	1.206	ppm	3.42%
Fe 273.955	5168.8	0.2767	0.00741	mg/L	0.2767	0.00741	ppm	2.68%
K 766.491	661175.8	12.46	0.374	mg/L	12.46	0.374	ppm	3.00%
Mg 279.079	68538.6	8.081	0.2435	mg/L	8.081	0.2435	ppm	3.01%
Na 330.237	34685.7	88.28	2.745	mg/L	88.28	2.745	ppm	3.11%

Replicate Data
ID: 3105-3 F=1 Date: 05/08/03 02:19:26 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	3582.2	3601.4	48.61	mg/L	48.61	ppm
1	Fe 273.955	1470.2	1661.3	0.0879	mg/L	0.0879	ppm
1	K 766.491	588939.7	586659.6	11.14	mg/L	11.14	ppm
1	Mg 279.079	92981.5	94132.2	11.10	mg/L	11.10	ppm
1	Na 330.237	38893.6	37734.1	95.21	mg/L	95.21	ppm
2	Ca 227.547	3369.4	3388.7	45.74	mg/L	45.74	ppm
2	Fe 273.955	1375.0	1566.1	0.0829	mg/L	0.0829	ppm
2	K 766.491	565775.7	563495.6	10.72	mg/L	10.72	ppm
2	Mg 279.079	88835.2	89985.9	10.61	mg/L	10.61	ppm
2	Na 330.237	36924.4	35764.9	90.75	mg/L	90.75	ppm
3	Ca 227.547	3367.1	3386.4	45.71	mg/L	45.71	ppm
3	Fe 273.955	1391.4	1582.5	0.0838	mg/L	0.0838	ppm
3	K 766.491	605624.0	603343.9	11.43	mg/L	11.43	ppm
3	Mg 279.079	87571.4	88722.2	10.46	mg/L	10.46	ppm
3	Na 330.237	36506.5	35347.0	89.80	mg/L	89.80	ppm

Mean Data
ID: 3105-3 F=1 Seq. No.: 39 Sample No.: 24 A/S Pos: 33
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:19:26 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	3458.8	46.68	1.667	mg/L	46.68	1.667	ppm	3.57%
Fe 273.955	1603.3	0.0848	0.00269	mg/L	0.0848	0.00269	ppm	3.17%
K 766.491	584499.7	11.10	0.359	mg/L	11.10	0.359	ppm	3.24%

Mg 279.079	90946.8	10.72	0.334 mg/L	10.72	0.334 ppm	3.11%
Na 330.237	36282.0	91.92	2.890 mg/L	91.92	2.890 ppm	3.14%

Replicate Data
ID: 3105-4 F=1 Date: 05/08/03 02:21:55 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	935.5	954.7	12.89	mg/L	12.89	ppm
1	Fe 273.955	1185.7	1376.8	0.0736	mg/L	0.0736	ppm
1	K 766.491	503040.2	500760.1	9.582	mg/L	9.582	ppm
1	Mg 279.079	22491.6	23642.4	2.788	mg/L	2.788	ppm
1	Na 330.237	24397.8	23238.3	61.28	mg/L	61.28	ppm
2	Ca 227.547	1008.9	1028.2	13.88	mg/L	13.88	ppm
2	Fe 273.955	1250.4	1441.5	0.0770	mg/L	0.0770	ppm
2	K 766.491	515941.4	513661.3	9.817	mg/L	9.817	ppm
2	Mg 279.079	22987.0	24137.7	2.846	mg/L	2.846	ppm
2	Na 330.237	25277.4	24117.9	63.42	mg/L	63.42	ppm
3	Ca 227.547	995.5	1014.7	13.70	mg/L	13.70	ppm
3	Fe 273.955	1285.0	1476.0	0.0789	mg/L	0.0789	ppm
3	K 766.491	524881.3	522601.2	9.979	mg/L	9.979	ppm
3	Mg 279.079	23139.3	24290.1	2.864	mg/L	2.864	ppm
3	Na 330.237	25970.8	24811.3	65.09	mg/L	65.09	ppm

Mean Data
ID: 3105-4 F=1 Seq. No.: 40 Sample No.: 25 A/S Pos: 34
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:21:55 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	999.2	13.49	0.528	mg/L	13.49	0.528	ppm	3.91%
Fe 273.955	1431.4	0.0765	0.00269	mg/L	0.0765	0.00269	ppm	3.52%
K 766.491	512340.9	9.793	0.1996	mg/L	9.793	0.1996	ppm	2.04%
Mg 279.079	24023.4	2.833	0.0399	mg/L	2.833	0.0399	ppm	1.41%
Na 330.237	24055.8	63.26	1.910	mg/L	63.26	1.910	ppm	3.02%

Replicate Data
ID: CCV 1447B Date: 05/08/03 02:24:27 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	3714.4	3733.6	50.39	mg/L		
1	Fe 273.955	95294.2	95485.2	5.128	mg/L		
1	K 766.491	818288.3	816008.2	15.18	mg/L		
1	Mg 279.079	219708.2	220859.0	26.04	mg/L		
1	Na 330.237	45171.1	44011.6	109.1	mg/L		
2	Ca 227.547	3777.8	3797.1	51.25	mg/L		
2	Fe 273.955	94228.7	94419.7	5.071	mg/L		
2	K 766.491	858006.0	855725.9	15.86	mg/L		
2	Mg 279.079	215746.3	216897.1	25.57	mg/L		
2	Na 330.237	44153.5	42994.0	106.9	mg/L		
3	Ca 227.547	3727.2	3746.4	50.57	mg/L		
3	Fe 273.955	93204.6	93395.6	5.016	mg/L		
3	K 766.491	843455.4	841175.3	15.61	mg/L		
3	Mg 279.079	213520.8	214671.5	25.31	mg/L		
3	Na 330.237	43321.9	42162.5	105.1	mg/L		

Mean Data
ID: CCV 1447B Seq. No.: 41 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:24:27 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	3759.0	50.74	0.453	mg/L				0.89%
Fe 273.955	94433.5	5.072	0.0561	mg/L				1.11%

K 766.491	837636.5	15.55	0.347 mg/L	2.23%
Mg 279.079	217475.9	25.64	0.370 mg/L	1.44%
Na 330.237	43056.0	107.0	2.03 mg/L	1.90%

Replicate Data ----------
ID: CCB Date: 05/08/03 02:27:00 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	-31.6	-12.4	-0.1670	mg/L		
1	Fe 273.955	-165.1	25.9	0.0014	mg/L		
1	K 766.491	2317.5	37.4	0.0389	mg/L		
1	Mg 279.079	-1071.7	79.0	0.0093	mg/L		
1	Na 330.237	1146.1	-13.4	0.3126	mg/L		
2	Ca 227.547	-20.4	-1.2	-0.0156	mg/L		
2	Fe 273.955	-165.1	25.9	0.0014	mg/L		
2	K 766.491	2728.6	448.5	0.0471	mg/L		
2	Mg 279.079	-972.3	178.4	0.0210	mg/L		
2	Na 330.237	1132.9	-26.6	0.2750	mg/L		
3	Ca 227.547	-71.3	-52.1	-0.7029	mg/L		
3	Fe 273.955	-93.8	97.3	0.0052	mg/L		
3	K 766.491	2286.4	6.3	0.0383	mg/L		
3	Mg 279.079	-959.7	191.0	0.0225	mg/L		
3	Na 330.237	1081.9	-77.6	0.1301	mg/L		

Mean Data ----------
ID: CCB Seq. No.: 42 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:27:00 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	-21.9	-0.2952	0.36115	mg/L				122.35%
Fe 273.955	49.7	0.0027	0.00221	mg/L				82.85%
K 766.491	164.1	0.0414	0.00493	mg/L				11.91%
Mg 279.079	149.5	0.0176	0.00723	mg/L				41.04%
Na 330.237	-39.2	0.2392	0.09636	mg/L				40.28%

Replicate Data ----------
ID: M-BL 03M1443 Date: 05/08/03 02:29:29 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	-33.0	-13.8	-0.1864	mg/L	-0.1864	ppm
1	Fe 273.955	-228.7	-37.6	-0.0020	mg/L	-0.0020	ppm
1	K 766.491	2697.0	416.9	0.0465	mg/L	0.0465	ppm
1	Mg 279.079	-1022.5	128.3	0.0151	mg/L	0.0151	ppm
1	Na 330.237	1170.9	11.4	0.3829	mg/L	0.3829	ppm
2	Ca 227.547	-72.4	-53.2	-0.7174	mg/L	-0.7174	ppm
2	Fe 273.955	-141.5	49.6	0.0027	mg/L	0.0027	ppm
2	K 766.491	2417.6	137.5	0.0409	mg/L	0.0409	ppm
2	Mg 279.079	-1126.8	24.0	0.0028	mg/L	0.0028	ppm
2	Na 330.237	1194.7	35.2	0.4506	mg/L	0.4506	ppm
3	Ca 227.547	-4.3	14.9	0.2018	mg/L	0.2018	ppm
3	Fe 273.955	-282.8	-91.8	-0.0049	mg/L	-0.0049	ppm
3	K 766.491	2232.0	-48.1	0.0372	mg/L	0.0372	ppm
3	Mg 279.079	-1028.2	122.6	0.0145	mg/L	0.0145	ppm
3	Na 330.237	1073.1	-86.4	0.1051	mg/L	0.1051	ppm

Mean Data ----------
ID: M-BL 03M1443 Seq. No.: 43 Sample No.: 26 A/S Pos: 35
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:29:29 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	-17.3	-0.2340	0.46146	mg/L	-0.2340	0.46146	ppm	197.18%

Fe 273.955	-26.6	-0.0014	0.00383 mg/L	-0.0014	0.00383 ppm	267.90%
K 766.491	168.8	0.0415	0.00468 mg/L	0.0415	0.00468 ppm	11.27%
Mg 279.079	91.6	0.0108	0.00691 mg/L	0.0108	0.00691 ppm	64.01%
Na 330.237	-13.2	0.3129	0.18309 mg/L	0.3129	0.18309 ppm	58.52%

Replicate Data ----------
ID: LCS-03M1443 Date: 05/08/03 02:31:59 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	1529.7	1548.9	20.91	mg/L	20.91	ppm
1	Fe 273.955	19468.6	19659.7	1.056	mg/L	1.056	ppm
1	K 766.491	263643.6	261363.5	5.130	mg/L	5.130	ppm
1	Mg 279.079	79957.0	81107.8	9.563	mg/L	9.563	ppm
1	Na 330.237	17206.9	16047.4	43.40	mg/L	43.40	ppm
2	Ca 227.547	1502.4	1521.6	20.54	mg/L	20.54	ppm
2	Fe 273.955	19276.3	19467.3	1.045	mg/L	1.045	ppm
2	K 766.491	262041.8	259761.7	5.100	mg/L	5.100	ppm
2	Mg 279.079	79366.9	80517.7	9.494	mg/L	9.494	ppm
2	Na 330.237	17094.3	15934.8	43.12	mg/L	43.12	ppm
3	Ca 227.547	1463.4	1482.7	20.01	mg/L	20.01	ppm
3	Fe 273.955	19468.1	19659.1	1.056	mg/L	1.056	ppm
3	K 766.491	264147.1	261867.0	5.140	mg/L	5.140	ppm
3	Mg 279.079	79962.9	81113.7	9.564	mg/L	9.564	ppm
3	Na 330.237	17164.8	16005.3	43.30	mg/L	43.30	ppm

Mean Data ----------
ID: LCS-03M1443 Seq. No.: 44 Sample No.: 27 A/S Pos: 36
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:31:59 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Sample Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	1517.7	20.49	0.449	mg/L	20.49	0.449	ppm	2.19%
Fe 273.955	19595.4	1.052	0.0060	mg/L	1.052	0.0060	ppm	0.57%
K 766.491	260997.4	5.123	0.0209	mg/L	5.123	0.0209	ppm	0.41%
Mg 279.079	80913.0	9.540	0.0404	mg/L	9.540	0.0404	ppm	0.42%
Na 330.237	15995.8	43.27	0.145	mg/L	43.27	0.145	ppm	0.33%

Matrix Check Sample: LCS-03M1443

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	19.77	20.49	0.449	mg/L	103.595
Fe 273.955	0.9986	1.052	0.006	mg/L	105.362
K 766.491	5.042	5.123	0.021	mg/L	101.630
Mg 279.079	10.01	9.540	0.040	mg/L	95.296
Na 330.237	40.31	43.27	0.145	mg/L	107.396

Replicate Data ----------
ID: LCSD-03M1443 Date: 05/08/03 02:34:30 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	1520.7	1539.9	20.79	mg/L	20.79	ppm
1	Fe 273.955	19780.6	19971.6	1.072	mg/L	1.072	ppm
1	K 766.491	258787.8	256507.7	5.038	mg/L	5.038	ppm
1	Mg 279.079	80302.5	81453.2	9.604	mg/L	9.604	ppm
1	Na 330.237	17414.0	16254.5	43.93	mg/L	43.93	ppm
2	Ca 227.547	1563.6	1582.9	21.36	mg/L	21.36	ppm
2	Fe 273.955	19764.6	19955.6	1.072	mg/L	1.072	ppm
2	K 766.491	259715.1	257435.0	5.055	mg/L	5.055	ppm
2	Mg 279.079	80180.2	81330.9	9.590	mg/L	9.590	ppm
2	Na 330.237	17088.4	15928.9	43.10	mg/L	43.10	ppm
3	Ca 227.547	1542.3	1561.5	21.08	mg/L	21.08	ppm
3	Fe 273.955	19781.6	19972.6	1.072	mg/L	1.072	ppm

3 K 766.491	248654.5	246374.4	4.845 mg/L	4.845 ppm
3 Mg 279.079	79671.1	80821.9	9.530 mg/L	9.530 ppm
3 Na 330.237	16953.5	15794.0	42.76 mg/L	42.76 ppm

Mean Data ----------

ID: LCSD-03M1443 Seq. No.: 45 Sample No.: 28 A/S Pos: 37
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:34:30 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	1561.4	21.08	0.290	mg/L	21.08	0.290	ppm	1.37%
Fe 273.955	19966.6	1.072	0.0005	mg/L	1.072	0.0005	ppm	0.05%
K 766.491	253439.0	4.979	0.1168	mg/L	4.979	0.1168	ppm	2.35%
Mg 279.079	81202.0	9.575	0.0395	mg/L	9.575	0.0395	ppm	0.41%
Na 330.237	15992.5	43.26	0.602	mg/L	43.26	0.602	ppm	1.39%

Matrix Check Sample: LCSD-03M1443

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	19.77	21.08	0.290	mg/L	106.546
Fe 273.955	0.9986	1.072	0.001	mg/L	107.355
K 766.491	5.042	4.979	0.117	mg/L	98.754
Mg 279.079	10.01	9.575	0.039	mg/L	95.637
Na 330.237	40.31	43.26	0.602	mg/L	107.374

Replicate Data ----------

ID: 3100-1 S F=1 Date: 05/08/03 02:37:03 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	7110.5	7129.7	96.23	mg/L	96.23	ppm
1	Fe 273.955	19226.6	19417.6	1.040	mg/L	1.040	ppm
1	K 766.491	390683.0	388402.9	7.516	mg/L	7.516	ppm
1	Mg 279.079	161001.6	162152.3	19.12	mg/L	19.12	ppm
1	Na 330.237	49784.3	48624.8	119.1	mg/L	119.1	ppm
2	Ca 227.547	7321.9	7341.2	99.09	mg/L	99.09	ppm
2	Fe 273.955	19451.2	19642.2	1.052	mg/L	1.052	ppm
2	K 766.491	392859.5	390579.4	7.556	mg/L	7.556	ppm
2	Mg 279.079	160552.2	161703.0	19.07	mg/L	19.07	ppm
2	Na 330.237	50613.7	49454.2	120.9	mg/L	120.9	ppm
3	Ca 227.547	7120.0	7139.2	96.36	mg/L	96.36	ppm
3	Fe 273.955	18729.3	18920.3	1.014	mg/L	1.014	ppm
3	K 766.491	442502.7	440222.6	8.474	mg/L	8.474	ppm
3	Mg 279.079	156982.6	158133.4	18.65	mg/L	18.65	ppm
3	Na 330.237	49799.1	48639.7	119.2	mg/L	119.2	ppm

Mean Data ----------

ID: 3100-1 S F=1 Seq. No.: 46 Sample No.: 29 A/S Pos: 38
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:37:03 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	7203.4	97.23	1.612	mg/L	97.23	1.612	ppm	1.66%
Fe 273.955	19326.7	1.036	0.0198	mg/L	1.036	0.0198	ppm	1.91%
K 766.491	406401.6	7.849	0.5418	mg/L	7.849	0.5418	ppm	6.90%
Mg 279.079	160662.9	18.94	0.260	mg/L	18.94	0.260	ppm	1.37%
Na 330.237	48906.2	119.7	1.01	mg/L	119.7	1.01	ppm	0.85%

Replicate Data ----------

ID: 3100-1 D F=1 Date: 05/08/03 02:39:35 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	7040.7	7059.9	95.29	mg/L	95.29	ppm
1	Fe 273.955	19090.5	19281.5	1.033	mg/L	1.033	ppm

1 K 766.491	396205.4	393925.3	7.619 mg/L	7.619 ppm
1 Mg 279.079	160574.3	161725.0	19.07 mg/L	19.07 ppm
1 Na 330.237	49354.6	48195.1	118.2 mg/L	118.2 ppm
2 Ca 227.547	7169.0	7188.2	97.02 mg/L	97.02 ppm
2 Fe 273.955	19267.3	19458.3	1.043 mg/L	1.043 ppm
2 K 766.491	430670.5	428390.4	8.256 mg/L	8.256 ppm
2 Mg 279.079	161456.7	162607.4	19.17 mg/L	19.17 ppm
2 Na 330.237	50333.1	49173.6	120.3 mg/L	120.3 ppm
3 Ca 227.547	7300.4	7319.6	98.80 mg/L	98.80 ppm
3 Fe 273.955	19478.1	19669.1	1.054 mg/L	1.054 ppm
3 K 766.491	432200.0	429919.9	8.284 mg/L	8.284 ppm
3 Mg 279.079	162781.7	163932.4	19.33 mg/L	19.33 ppm
3 Na 330.237	51134.6	49975.1	122.0 mg/L	122.0 ppm

Mean Data ----------

ID: 3100-1 D F=1 Seq. No.: 47 Sample No.: 30 A/S Pos: 39
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:39:35 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	7189.2	97.04	1.753	mg/L	97.04	1.753	ppm	1.81%
Fe 273.955	19469.7	1.043	0.0104	mg/L	1.043	0.0104	ppm	0.99%
K 766.491	417411.9	8.053	0.3764	mg/L	8.053	0.3764	ppm	4.67%
Mg 279.079	162755.0	19.19	0.131	mg/L	19.19	0.131	ppm	0.68%
Na 330.237	49114.6	120.2	1.91	mg/L	120.2	1.91	ppm	1.59%

Matrix Check Sample: 3100-1 D F=1

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	Relative % Diff.
Ca 227.547	97.23	97.04	1.753	mg/L	0.196
Fe 273.955	1.036	1.043	0.010	mg/L	0.740
K 766.491	7.849	8.053	0.376	mg/L	2.567
Mg 279.079	18.94	19.19	0.131	mg/L	1.294
Na 330.237	119.7	120.2	1.906	mg/L	0.370

Replicate Data ----------

ID: 3100-1 1/5 F=5 Date: 05/08/03 02:42:08 PM

Repl# Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1 Ca 227.547	1384.6	1403.8	18.95	mg/L	94.74	ppm
1 Fe 273.955	3624.6	3815.7	0.2044	mg/L	1.022	ppm
1 K 766.491	58839.6	56559.5	1.162	mg/L	5.811	ppm
1 Mg 279.079	29043.7	30194.5	3.560	mg/L	17.80	ppm
1 Na 330.237	8961.9	7802.4	21.88	mg/L	109.4	ppm
2 Ca 227.547	1368.9	1388.2	18.74	mg/L	93.68	ppm
2 Fe 273.955	3480.7	3671.7	0.1967	mg/L	0.9833	ppm
2 K 766.491	61288.3	59008.2	1.211	mg/L	6.053	ppm
2 Mg 279.079	27961.8	29112.6	3.433	mg/L	17.16	ppm
2 Na 330.237	8715.5	7556.0	21.22	mg/L	106.1	ppm
3 Ca 227.547	1304.5	1323.7	17.87	mg/L	89.33	ppm
3 Fe 273.955	3454.4	3645.4	0.1953	mg/L	0.9764	ppm
3 K 766.491	60838.8	58558.7	1.202	mg/L	6.009	ppm
3 Mg 279.079	27363.0	28513.8	3.362	mg/L	16.81	ppm
3 Na 330.237	8613.4	7453.9	20.95	mg/L	104.7	ppm

Mean Data ----------

ID: 3100-1 1/5 F=5 Seq. No.: 48 Sample No.: 31 A/S Pos: 40
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 5.0
Data: Original Date: 05/08/03 02:42:08 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	1371.9	18.52	0.573	mg/L	92.59	2.866	ppm	3.10%
Fe 273.955	3710.9	0.1988	0.00491	mg/L	0.9939	0.02455	ppm	2.47%

K 766.491	58042.1	1.192	0.0258 mg/L	5.958	0.1288 ppm	2.16%
Mg 279.079	29273.6	3.452	0.1004 mg/L	17.26	0.502 ppm	2.91%
Na 330.237	7604.1	21.35	0.481 mg/L	106.8	2.41 ppm	2.25%

Replicate Data ----------
ID: 3100-1 MS F=1 Date: 05/08/03 02:44:41 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	8450.2	8469.5	114.3	mg/L	114.3	ppm
1	Fe 273.955	38113.1	38304.2	2.055	mg/L	2.055	ppm
1	K 766.491	787573.6	785293.5	14.65	mg/L	14.65	ppm
1	Mg 279.079	252815.1	253965.8	29.95	mg/L	29.95	ppm
1	Na 330.237	67861.4	66701.9	156.4	mg/L	156.4	ppm
2	Ca 227.547	8495.8	8515.0	114.9	mg/L	114.9	ppm
2	Fe 273.955	37916.7	38107.7	2.044	mg/L	2.044	ppm
2	K 766.491	782713.9	780433.8	14.56	mg/L	14.56	ppm
2	Mg 279.079	248485.2	249636.0	29.43	mg/L	29.43	ppm
2	Na 330.237	68063.8	66904.3	156.8	mg/L	156.8	ppm
3	Ca 227.547	8738.5	8757.8	118.2	mg/L	118.2	ppm
3	Fe 273.955	38196.4	38387.4	2.059	mg/L	2.059	ppm
3	K 766.491	791479.3	789199.2	14.71	mg/L	14.71	ppm
3	Mg 279.079	245129.1	246279.9	29.04	mg/L	29.04	ppm
3	Na 330.237	69705.6	68546.1	160.1	mg/L	160.1	ppm

Mean Data ----------
ID: 3100-1 MS F=1 Seq. No.: 49 Sample No.: 32 A/S Pos: 41
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:44:41 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	8580.7	115.8	2.09	mg/L	115.8	2.09	ppm	1.81%
Fe 273.955	38266.4	2.053	0.0077	mg/L	2.053	0.0077	ppm	0.37%
K 766.491	784975.5	14.64	0.076	mg/L	14.64	0.076	ppm	0.52%
Mg 279.079	249960.6	29.47	0.454	mg/L	29.47	0.454	ppm	1.54%
Na 330.237	67384.1	157.8	2.00	mg/L	157.8	2.00	ppm	1.27%

Matrix Check Sample: 3100-1 MS F=1

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	117.2	115.8	2.092	mg/L	92.955
Fe 273.955	2.036	2.053	0.008	mg/L	101.704
K 766.491	12.85	14.64	0.076	mg/L	135.812
Mg 279.079	28.94	29.47	0.454	mg/L	105.291
Na 330.237	159.7	157.8	2.004	mg/L	95.094

Replicate Data ----------
ID: 3100-1 MSD F=1 Date: 05/08/03 02:47:15 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	8852.2	8871.4	119.7	mg/L	119.7	ppm
1	Fe 273.955	39338.9	39529.9	2.120	mg/L	2.120	ppm
1	K 766.491	743844.0	741563.9	13.88	mg/L	13.88	ppm
1	Mg 279.079	243101.7	244252.5	28.80	mg/L	28.80	ppm
1	Na 330.237	70719.1	69559.6	162.1	mg/L	162.1	ppm
2	Ca 227.547	8363.6	8382.8	113.1	mg/L	113.1	ppm
2	Fe 273.955	37516.0	37707.0	2.023	mg/L	2.023	ppm
2	K 766.491	779690.9	777410.8	14.51	mg/L	14.51	ppm
2	Mg 279.079	247659.7	248810.5	29.34	mg/L	29.34	ppm
2	Na 330.237	67240.9	66081.4	155.2	mg/L	155.2	ppm
3	Ca 227.547	8498.2	8517.4	115.0	mg/L	115.0	ppm
3	Fe 273.955	37869.9	38060.9	2.042	mg/L	2.042	ppm
3	K 766.491	795025.8	792745.7	14.77	mg/L	14.77	ppm

3 Mg 279.079	243863.5	245014.2	28.89 mg/L	28.89 ppm	
3 Na 330.237	68345.7	67186.2	157.4 mg/L	157.4 ppm	

Mean Data ----------

ID: 3100-1 MSD F=1 Seq. No.: 50 Sample No.: 33 A/S Pos: 42
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:47:15 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	8590.5	115.9	3.41	mg/L	115.9	3.41	ppm	2.94%
Fe 273.955	38432.6	2.061	0.0518	mg/L	2.061	0.0518	ppm	2.51%
K 766.491	770573.5	14.39	0.458	mg/L	14.39	0.458	ppm	3.18%
Mg 279.079	246025.7	29.01	0.288	mg/L	29.01	0.288	ppm	0.99%
Na 330.237	67609.1	158.2	3.52	mg/L	158.2	3.52	ppm	2.22%

Matrix Check Sample: 3100-1 MSD F=1

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	117.2	115.9	3.406	mg/L	93.615
Fe 273.955	2.036	2.061	0.052	mg/L	102.596
K 766.491	12.85	14.39	0.458	mg/L	130.784
Mg 279.079	28.94	29.01	0.288	mg/L	100.651
Na 330.237	159.7	158.2	3.518	mg/L	96.196

Replicate Data ----------

ID: 3100-1 PS F=1 Date: 05/08/03 02:49:51 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	8521.6	8540.8	115.3	mg/L	115.3	ppm
1	Fe 273.955	38503.3	38694.3	2.076	mg/L	2.076	ppm
1	K 766.491	737963.8	735683.7	13.78	mg/L	13.78	ppm
1	Mg 279.079	245221.5	246372.3	29.05	mg/L	29.05	ppm
1	Na 330.237	68328.3	67168.8	157.3	mg/L	157.3	ppm
2	Ca 227.547	8413.6	8432.8	113.8	mg/L	113.8	ppm
2	Fe 273.955	37699.8	37890.9	2.032	mg/L	2.032	ppm
2	K 766.491	781080.7	778800.6	14.53	mg/L	14.53	ppm
2	Mg 279.079	244479.3	245630.1	28.96	mg/L	28.96	ppm
2	Na 330.237	67372.9	66213.4	155.4	mg/L	155.4	ppm
3	Ca 227.547	8531.7	8551.0	115.4	mg/L	115.4	ppm
3	Fe 273.955	37526.1	37717.1	2.023	mg/L	2.023	ppm
3	K 766.491	756884.2	754604.1	14.11	mg/L	14.11	ppm
3	Mg 279.079	240529.3	241680.0	28.50	mg/L	28.50	ppm
3	Na 330.237	67583.0	66423.5	155.9	mg/L	155.9	ppm

Mean Data ----------

ID: 3100-1 PS F=1 Seq. No.: 51 Sample No.: 34 A/S Pos: 43
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:49:51 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	8508.2	114.8	0.88	mg/L	114.8	0.88	ppm	0.77%
Fe 273.955	38100.7	2.044	0.0280	mg/L	2.044	0.0280	ppm	1.37%
K 766.491	756362.8	14.14	0.378	mg/L	14.14	0.378	ppm	2.67%
Mg 279.079	244560.8	28.84	0.297	mg/L	28.84	0.297	ppm	1.03%
Na 330.237	66601.9	156.2	1.00	mg/L	156.2	1.00	ppm	0.64%

Matrix Check Sample: 3100-1 PS F=1

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	117.2	114.8	0.884	mg/L	88.059
Fe 273.955	2.036	2.044	0.028	mg/L	100.816
K 766.491	12.85	14.14	0.378	mg/L	125.828
Mg 279.079	28.94	28.84	0.297	mg/L	98.924

Na 330.237	159.7	156.2	0.998	mg/L	91.215	

Replicate Data
ID: CCV 1447B Date: 05/08/03 02:52:25 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	3810.6	3829.8	51.69	mg/L		
1	Fe 273.955	94058.2	94249.3	5.062	mg/L		
1	K 766.491	810025.0	807744.9	15.03	mg/L		
1	Mg 279.079	216459.1	217609.9	25.66	mg/L		
1	Na 330.237	44198.0	43038.5	107.0	mg/L		
2	Ca 227.547	3651.1	3670.3	49.54	mg/L		
2	Fe 273.955	91974.3	92165.3	4.950	mg/L		
2	K 766.491	816816.5	814536.4	15.15	mg/L		
2	Mg 279.079	211038.3	212189.1	25.02	mg/L		
2	Na 330.237	43026.4	41866.9	104.4	mg/L		
3	Ca 227.547	3693.3	3712.5	50.11	mg/L		
3	Fe 273.955	91440.2	91631.2	4.921	mg/L		
3	K 766.491	830840.4	828560.3	15.40	mg/L		
3	Mg 279.079	209187.5	210338.2	24.80	mg/L		
3	Na 330.237	42802.7	41643.2	103.9	mg/L		

Mean Data
ID: CCV 1447B Seq. No.: 52 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:52:25 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	3737.5	50.45	1.115	mg/L				2.21%
Fe 273.955	92681.9	4.978	0.0743	mg/L				1.49%
K 766.491	816947.2	15.19	0.184	mg/L				1.21%
Mg 279.079	213379.0	25.16	0.446	mg/L				1.77%
Na 330.237	42182.9	105.1	1.65	mg/L				1.57%

Replicate Data
ID: CCB Date: 05/08/03 02:54:57 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	-77.7	-58.5	-0.7893	mg/L		
1	Fe 273.955	-133.6	57.4	0.0031	mg/L		
1	K 766.491	2840.9	560.8	0.0494	mg/L		
1	Mg 279.079	-983.7	167.0	0.0197	mg/L		
1	Na 330.237	1131.8	-27.7	0.2720	mg/L		
2	Ca 227.547	-65.6	-46.4	-0.6266	mg/L		
2	Fe 273.955	-144.7	46.4	0.0025	mg/L		
2	K 766.491	2920.0	639.9	0.0509	mg/L		
2	Mg 279.079	-1031.8	118.9	0.0140	mg/L		
2	Na 330.237	1026.2	-133.3	-0.0283	mg/L		
3	Ca 227.547	-4.2	15.0	0.2024	mg/L		
3	Fe 273.955	-121.8	69.2	0.0037	mg/L		
3	K 766.491	2717.4	437.3	0.0469	mg/L		
3	Mg 279.079	-919.2	231.6	0.0273	mg/L		
3	Na 330.237	1197.6	38.1	0.4588	mg/L		

Mean Data
ID: CCB Seq. No.: 53 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:54:57 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	-30.0	-0.4045	0.53187	mg/L				131.49%
Fe 273.955	57.7	0.0031	0.00061	mg/L				19.80%
K 766.491	546.0	0.0491	0.00204	mg/L				4.16%

Mg 279.079	172.5	0.0203	0.00667 mg/L	32.77%
Na 330.237	-40.9	0.2341	0.24573 mg/L	104.95%

Replicate Data
ID: 3100-3 F=1 Date: 05/08/03 02:57:30 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	57399.1	57418.3	775.0	mg/L	775.0	ppm
1	Fe 273.955	44080.3	44271.3	2.356	mg/L	2.356	ppm
1	K 766.491	1539972.4	1537692.3	27.05	mg/L	27.05	ppm
1	Mg 279.079	855727.4	856878.1	101.0	mg/L	101.0	ppm
1	Na 330.237	296619.1	295459.6	498.7	mg/L	498.7	ppm
2	Ca 227.547	58502.1	58521.3	789.9	mg/L	789.9	ppm
2	Fe 273.955	44067.0	44258.1	2.355	mg/L	2.355	ppm
2	K 766.491	1534899.2	1532619.1	26.97	mg/L	26.97	ppm
2	Mg 279.079	852461.1	853611.9	100.6	mg/L	100.6	ppm
2	Na 330.237	300406.3	299246.8	503.2	mg/L	503.2	ppm
3	Ca 227.547	56872.5	56891.8	767.9	mg/L	767.9	ppm
3	Fe 273.955	42721.5	42912.5	2.283	mg/L	2.283	ppm
3	K 766.491	1608495.5	1606215.4	28.12	mg/L	28.12	ppm
3	Mg 279.079	828915.7	830066.4	97.87	mg/L	97.87	ppm
3	Na 330.237	293703.0	292543.5	495.2	mg/L	495.2	ppm

Mean Data
ID: 3100-3 F=1 Seq. No.: 54 Sample No.: 35 A/S Pos: 44
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 02:57:30 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	57610.5	777.6	11.22	mg/L	777.6	11.22	ppm	1.44%
Fe 273.955	43814.0	2.331	0.0417	mg/L	2.331	0.0417	ppm	1.79%
K 766.491	1558842.2	27.38	0.641	mg/L	27.38	0.641	ppm	2.34%
Mg 279.079	846852.1	99.85	1.725	mg/L	99.85	1.725	ppm	1.73%
Na 330.237	295750.0	499.1	4.03	mg/L	499.1	4.03	ppm	0.81%

Replicate Data
ID: 3100-4 F=1 Date: 05/08/03 03:00:06 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	37937.4	37956.6	512.3	mg/L	512.3	ppm
1	Fe 273.955	105204.9	105395.9	5.650	mg/L	5.650	ppm
1	K 766.491	1543607.1	1541327.0	27.10	mg/L	27.10	ppm
1	Mg 279.079	2317060.5	2318211.2	273.3	mg/L	273.3	ppm
1	Na 330.237	343051.2	341891.7	552.7	mg/L	552.7	ppm
2	Ca 227.547	38327.8	38347.0	517.6	mg/L	517.6	ppm
2	Fe 273.955	105367.9	105559.0	5.659	mg/L	5.659	ppm
2	K 766.491	1471111.8	1468831.7	25.96	mg/L	25.96	ppm
2	Mg 279.079	2193831.5	2194982.3	258.8	mg/L	258.8	ppm
2	Na 330.237	346027.7	344868.2	556.1	mg/L	556.1	ppm
3	Ca 227.547	37585.9	37605.1	507.6	mg/L	507.6	ppm
3	Fe 273.955	101667.7	101858.7	5.460	mg/L	5.460	ppm
3	K 766.491	1586328.1	1584048.0	27.77	mg/L	27.77	ppm
3	Mg 279.079	2206249.6	2207400.3	260.3	mg/L	260.3	ppm
3	Na 330.237	341329.9	340170.4	550.8	mg/L	550.8	ppm

Mean Data
ID: 3100-4 F=1 Seq. No.: 55 Sample No.: 36 A/S Pos: 45
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:00:06 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	37969.6	512.5	5.01	mg/L	512.5	5.01	ppm	0.98%
Fe 273.955	104271.2	5.590	0.1122	mg/L	5.590	0.1122	ppm	2.01%

K 766.491	1531402.2	26.95	0.914 mg/L	26.95	0.914 ppm	3.39%
Mg 279.079	2240198.0	264.1	8.00 mg/L	264.1	8.00 ppm	3.03%
Na 330.237	342310.1	553.2	2.68 mg/L	553.2	2.68 ppm	0.48%

Replicate Data
ID: 3100-5 F=1 Date: 05/08/03 03:02:43 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	18331.4	18350.6	247.7	mg/L	247.7	ppm
1	Fe 273.955	142644.5	142835.5	7.668	mg/L	7.668	ppm
1	K 766.491	900661.1	898381.0	16.60	mg/L	16.60	ppm
1	Mg 279.079	1064385.6	1065536.3	125.6	mg/L	125.6	ppm
1	Na 330.237	200577.8	199418.4	374.6	mg/L	374.6	ppm
2	Ca 227.547	18059.7	18078.9	244.0	mg/L	244.0	ppm
2	Fe 273.955	140511.6	140702.6	7.553	mg/L	7.553	ppm
2	K 766.491	968379.7	966099.6	17.75	mg/L	17.75	ppm
2	Mg 279.079	1059986.0	1061136.7	125.1	mg/L	125.1	ppm
2	Na 330.237	199363.1	198203.6	372.9	mg/L	372.9	ppm
3	Ca 227.547	18031.3	18050.5	243.6	mg/L	243.6	ppm
3	Fe 273.955	137808.9	137999.9	7.408	mg/L	7.408	ppm
3	K 766.491	1011345.3	1009065.2	18.47	mg/L	18.47	ppm
3	Mg 279.079	1059260.9	1060411.6	125.0	mg/L	125.0	ppm
3	Na 330.237	197991.6	196832.1	371.0	mg/L	371.0	ppm

Mean Data
ID: 3100-5 F=1 Seq. No.: 56 Sample No.: 37 A/S Pos: 46
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:02:43 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	18160.0	245.1	2.24	mg/L	245.1	2.24	ppm	0.91%
Fe 273.955	140512.7	7.543	0.1301	mg/L	7.543	0.1301	ppm	1.73%
K 766.491	957848.6	17.60	0.947	mg/L	17.60	0.947	ppm	5.38%
Mg 279.079	1062361.6	125.3	0.33	mg/L	125.3	0.33	ppm	0.26%
Na 330.237	198151.4	372.8	1.82	mg/L	372.8	1.82	ppm	0.49%

Replicate Data
ID: 3100-6 F=1 Date: 05/08/03 03:05:19 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	7683.3	7702.5	104.0	mg/L	104.0	ppm
1	Fe 273.955	8303.6	8494.6	0.4533	mg/L	0.4533	ppm
1	K 766.491	449048.1	446768.0	8.594	mg/L	8.594	ppm
1	Mg 279.079	131116.6	132267.3	15.60	mg/L	15.60	ppm
1	Na 330.237	57833.1	56673.6	136.1	mg/L	136.1	ppm
2	Ca 227.547	7820.9	7840.1	105.8	mg/L	105.8	ppm
2	Fe 273.955	8173.0	8364.1	0.4463	mg/L	0.4463	ppm
2	K 766.491	451688.8	449408.7	8.643	mg/L	8.643	ppm
2	Mg 279.079	130236.6	131387.4	15.49	mg/L	15.49	ppm
2	Na 330.237	58193.5	57034.0	136.8	mg/L	136.8	ppm
3	Ca 227.547	7927.8	7947.0	107.3	mg/L	107.3	ppm
3	Fe 273.955	8175.4	8366.4	0.4464	mg/L	0.4464	ppm
3	K 766.491	476653.3	474373.2	9.101	mg/L	9.101	ppm
3	Mg 279.079	130605.1	131755.8	15.54	mg/L	15.54	ppm
3	Na 330.237	59276.4	58116.9	139.1	mg/L	139.1	ppm

Mean Data
ID: 3100-6 F=1 Seq. No.: 57 Sample No.: 38 A/S Pos: 47
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:05:19 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	7829.9	105.7	1.65	mg/L	105.7	1.65	ppm	1.57%

Fe 273.955	8408.4	0.4487	0.00406 mg/L	0.4487	0.00406 ppm	0.91%
K 766.491	456850.0	8.779	0.2793 mg/L	8.779	0.2793 ppm	3.18%
Mg 279.079	131803.5	15.54	0.052 mg/L	15.54	0.052 ppm	0.34%
Na 330.237	57274.8	137.3	1.55 mg/L	137.3	1.55 ppm	1.13%

Replicate Data ----------
ID: 3100-7 F=1 Date: 05/08/03 03:07:57 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	49509.8	49529.0	668.5	mg/L	668.5	ppm
1	Fe 273.955	69831.1	70022.1	3.745	mg/L	3.745	ppm
1	K 766.491	5038613.0	5036332.9	73.29	mg/L	73.29	ppm
1	Mg 279.079	2219168.9	2220319.7	261.8	mg/L	261.8	ppm
1	Na 330.237	849550.5	848391.1	1010	mg/L	1010	ppm
2	Ca 227.547	48890.1	48909.3	660.1	mg/L	660.1	ppm
2	Fe 273.955	68351.6	68542.6	3.666	mg/L	3.666	ppm
2	K 766.491	5637122.5	5634842.4	80.00	mg/L	80.00	ppm
2	Mg 279.079	2201210.8	2202361.6	259.7	mg/L	259.7	ppm
2	Na 330.237	843064.6	841905.1	1005	mg/L	1005	ppm
3	Ca 227.547	48838.7	48858.0	659.5	mg/L	659.5	ppm
3	Fe 273.955	67560.0	67751.1	3.623	mg/L	3.623	ppm
3	K 766.491	5800007.1	5797727.0	81.79	mg/L	81.79	ppm
3	Mg 279.079	2152346.6	2153497.4	253.9	mg/L	253.9	ppm
3	Na 330.237	843941.2	842781.7	1006	mg/L	1006	ppm

Mean Data ----------
ID: 3100-7 F=1 Seq. No.: 58 Sample No.: 39 A/S Pos: 48
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:07:57 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	49098.8	662.7	5.04	mg/L	662.7	5.04	ppm	0.76%
Fe 273.955	68771.9	3.678	0.0618	mg/L	3.678	0.0618	ppm	1.68%
K 766.491	5489634.1	78.36	4.479	mg/L	78.36	4.479	ppm	5.72%
Mg 279.079	2192059.5	258.5	4.08	mg/L	258.5	4.08	ppm	1.58%
Na 330.237	844359.3	1007	2.7	mg/L	1007	2.7	ppm	0.26%

Replicate Data ----------
ID: 3100-8 F=1 Date: 05/08/03 03:10:35 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	20910.7	20929.9	282.5	mg/L	282.5	ppm
1	Fe 273.955	60363.2	60554.2	3.247	mg/L	3.247	ppm
1	K 766.491	535406.4	533126.3	10.17	mg/L	10.17	ppm
1	Mg 279.079	1184365.4	1185516.2	139.8	mg/L	139.8	ppm
1	Na 330.237	136267.3	135107.8	278.2	mg/L	278.2	ppm
2	Ca 227.547	21225.0	21244.2	286.7	mg/L	286.7	ppm
2	Fe 273.955	60506.0	60697.0	3.254	mg/L	3.254	ppm
2	K 766.491	542280.5	540000.4	10.29	mg/L	10.29	ppm
2	Mg 279.079	1178029.5	1179180.3	139.0	mg/L	139.0	ppm
2	Na 330.237	137948.5	136789.0	280.9	mg/L	280.9	ppm
3	Ca 227.547	21020.5	21039.7	284.0	mg/L	284.0	ppm
3	Fe 273.955	59730.6	59921.7	3.212	mg/L	3.212	ppm
3	K 766.491	570198.4	567918.3	10.80	mg/L	10.80	ppm
3	Mg 279.079	1168097.5	1169248.2	137.9	mg/L	137.9	ppm
3	Na 330.237	137691.0	136531.5	280.5	mg/L	280.5	ppm

Mean Data ----------
ID: 3100-8 F=1 Seq. No.: 59 Sample No.: 40 A/S Pos: 49
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:10:35 PM

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

Ca 227.547	21071.3	284.4	2.15 mg/L	284.4	2.15 ppm	0.76%
Fe 273.955	60391.0	3.238	0.0222 mg/L	3.238	0.0222 ppm	0.68%
K 766.491	547015.0	10.42	0.333 mg/L	10.42	0.333 ppm	3.19%
Mg 279.079	1177981.6	138.9	0.97 mg/L	138.9	0.97 ppm	0.70%
Na 330.237	136142.8	279.9	1.46 mg/L	279.9	1.46 ppm	0.52%

Replicate Data ----------
ID: 3100-9 F=1 Date: 05/08/03 03:13:07 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	52155.7	52175.0	704.2	mg/L	704.2	ppm
1	Fe 273.955	364165.5	364356.5	19.55	mg/L	19.55	ppm
1	K 766.491	1540003.0	1537722.9	27.05	mg/L	27.05	ppm
1	Mg 279.079	1513113.6	1514264.4	178.5	mg/L	178.5	ppm
1	Na 330.237	414559.2	413399.8	630.1	mg/L	630.1	ppm
2	Ca 227.547	50992.0	51011.2	688.5	mg/L	688.5	ppm
2	Fe 273.955	356114.2	356305.2	19.12	mg/L	19.12	ppm
2	K 766.491	1559869.5	1557589.4	27.36	mg/L	27.36	ppm
2	Mg 279.079	1496943.3	1498094.1	176.6	mg/L	176.6	ppm
2	Na 330.237	409422.6	408263.1	624.8	mg/L	624.8	ppm
3	Ca 227.547	50784.5	50803.7	685.7	mg/L	685.7	ppm
3	Fe 273.955	352185.7	352376.8	18.91	mg/L	18.91	ppm
3	K 766.491	1669681.0	1667400.9	29.06	mg/L	29.06	ppm
3	Mg 279.079	1491388.6	1492539.3	176.0	mg/L	176.0	ppm
3	Na 330.237	405498.9	404339.4	620.7	mg/L	620.7	ppm

Mean Data ----------
ID: 3100-9 F=1 Seq. No.: 60 Sample No.: 41 A/S Pos: 50
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:13:07 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	51330.0	692.8	9.98	mg/L	692.8	9.98	ppm	1.44%
Fe 273.955	357679.5	19.20	0.328	mg/L	19.20	0.328	ppm	1.71%
K 766.491	1587571.1	27.82	1.085	mg/L	27.82	1.085	ppm	3.90%
Mg 279.079	1501632.6	177.1	1.33	mg/L	177.1	1.33	ppm	0.75%
Na 330.237	408667.4	625.2	4.75	mg/L	625.2	4.75	ppm	0.76%

Replicate Data ----------
ID: 3100-10 F=1 Date: 05/08/03 03:15:39 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	48254.4	48273.6	651.6	mg/L	651.6	ppm
1	Fe 273.955	231584.3	231775.3	12.44	mg/L	12.44	ppm
1	K 766.491	1254017.0	1251736.9	22.48	mg/L	22.48	ppm
1	Mg 279.079	2845034.4	2846185.2	335.6	mg/L	335.6	ppm
1	Na 330.237	317867.9	316708.4	523.8	mg/L	523.8	ppm
2	Ca 227.547	49561.5	49580.8	669.2	mg/L	669.2	ppm
2	Fe 273.955	233696.6	233887.6	12.55	mg/L	12.55	ppm
2	K 766.491	1263494.5	1261214.4	22.64	mg/L	22.64	ppm
2	Mg 279.079	2798268.2	2799419.0	330.1	mg/L	330.1	ppm
2	Na 330.237	326741.1	325581.7	534.1	mg/L	534.1	ppm
3	Ca 227.547	48685.4	48704.6	657.4	mg/L	657.4	ppm
3	Fe 273.955	228805.2	228996.3	12.29	mg/L	12.29	ppm
3	K 766.491	1327769.6	1325489.5	23.68	mg/L	23.68	ppm
3	Mg 279.079	2806063.0	2807213.8	331.0	mg/L	331.0	ppm
3	Na 330.237	322305.2	321145.7	529.0	mg/L	529.0	ppm

Mean Data ----------
ID: 3100-10 F=1 Seq. No.: 61 Sample No.: 42 A/S Pos: 51
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:15:39 PM

Element	Mean Corr.	Mean	Calib	Mean	Sample

Element	Intensity	Conc.	Std.Dev.	Units	Conc.	Std.Dev.	Units	RSD
Ca 227.547	48853.0	659.4	8.99	mg/L	659.4	8.99	ppm	1.36%
Fe 273.955	231553.1	12.42	0.132	mg/L	12.42	0.132	ppm	1.06%
K 766.491	1279480.3	22.93	0.649	mg/L	22.93	0.649	ppm	2.83%
Mg 279.079	2817606.0	332.2	2.95	mg/L	332.2	2.95	ppm	0.89%
Na 330.237	321145.3	529.0	5.14	mg/L	529.0	5.14	ppm	0.97%

Replicate Data ----------
ID: CCV 1447B Date: 05/08/03 03:18:11 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	3754.0	3773.2	50.93	mg/L		
1	Fe 273.955	93086.9	93277.9	5.010	mg/L		
1	K 766.491	813338.4	811058.3	15.09	mg/L		
1	Mg 279.079	215323.0	216473.7	25.52	mg/L		
1	Na 330.237	43414.7	42255.2	105.3	mg/L		
2	Ca 227.547	3766.5	3785.7	51.10	mg/L		
2	Fe 273.955	92483.9	92674.9	4.977	mg/L		
2	K 766.491	817035.8	814755.7	15.16	mg/L		
2	Mg 279.079	213433.4	214584.2	25.30	mg/L		
2	Na 330.237	42825.8	41666.3	104.0	mg/L		
3	Ca 227.547	3723.2	3742.4	50.51	mg/L		
3	Fe 273.955	90799.9	90990.9	4.887	mg/L		
3	K 766.491	818155.0	815874.9	15.18	mg/L		
3	Mg 279.079	210194.2	211344.9	24.92	mg/L		
3	Na 330.237	42578.8	41419.3	103.4	mg/L		

Mean Data ----------
ID: CCV 1447B Seq. No.: 62 Sample No.: 5 A/S Pos: 6
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:18:11 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	3767.1	50.85	0.301	mg/L				0.59%
Fe 273.955	92314.6	4.958	0.0637	mg/L				1.28%
K 766.491	813896.3	15.14	0.044	mg/L				0.29%
Mg 279.079	214134.3	25.25	0.306	mg/L				1.21%
Na 330.237	41780.3	104.2	0.95	mg/L				0.91%

Replicate Data ----------
ID: CCB Date: 05/08/03 03:20:43 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	-32.3	-13.1	-0.1762	mg/L		
1	Fe 273.955	-196.3	-5.3	-0.0003	mg/L		
1	K 766.491	2878.2	598.1	0.0501	mg/L		
1	Mg 279.079	-727.6	423.1	0.0499	mg/L		
1	Na 330.237	1301.3	141.8	0.7532	mg/L		
2	Ca 227.547	-24.2	-5.0	-0.0673	mg/L		
2	Fe 273.955	-69.7	121.3	0.0065	mg/L		
2	K 766.491	2660.5	380.4	0.0457	mg/L		
2	Mg 279.079	-720.3	430.5	0.0508	mg/L		
2	Na 330.237	1248.9	89.4	0.6044	mg/L		
3	Ca 227.547	-43.5	-24.3	-0.3282	mg/L		
3	Fe 273.955	-126.5	64.5	0.0035	mg/L		
3	K 766.491	2567.0	286.9	0.0439	mg/L		
3	Mg 279.079	-709.2	441.6	0.0521	mg/L		
3	Na 330.237	1159.0	-0.4	0.3493	mg/L		

Mean Data ----------
ID: CCB Seq. No.: 63 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:20:43 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	-14.1	-0.1906	0.13102	mg/L				68.75%
Fe 273.955	60.2	0.0032	0.00341	mg/L				105.33%
K 766.491	421.8	0.0466	0.00319	mg/L				6.85%
Mg 279.079	431.8	0.0509	0.00110	mg/L				2.15%
Na 330.237	76.9	0.5690	0.20428	mg/L				35.90%

Replicate Data ----------
ID: 3100-11 F=1 Date: 05/08/03 03:23:15 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	51224.9	51244.1	691.7	mg/L	691.7	ppm
1	Fe 273.955	364136.0	364327.0	19.55	mg/L	19.55	ppm
1	K 766.491	1487021.6	1484741.5	26.22	mg/L	26.22	ppm
1	Mg 279.079	1497635.3	1498786.0	176.7	mg/L	176.7	ppm
1	Na 330.237	407394.2	406234.7	622.7	mg/L	622.7	ppm
2	Ca 227.547	51193.2	51212.4	691.2	mg/L	691.2	ppm
2	Fe 273.955	358903.1	359094.1	19.27	mg/L	19.27	ppm
2	K 766.491	1564707.2	1562427.1	27.43	mg/L	27.43	ppm
2	Mg 279.079	1495861.6	1497012.4	176.5	mg/L	176.5	ppm
2	Na 330.237	406245.4	405085.9	621.5	mg/L	621.5	ppm
3	Ca 227.547	50472.5	50491.7	681.5	mg/L	681.5	ppm
3	Fe 273.955	352323.4	352514.4	18.92	mg/L	18.92	ppm
3	K 766.491	1500819.2	1498539.1	26.43	mg/L	26.43	ppm
3	Mg 279.079	1451322.9	1452473.6	171.3	mg/L	171.3	ppm
3	Na 330.237	403448.7	402289.2	618.5	mg/L	618.5	ppm

Mean Data ----------
ID: 3100-11 F=1 Seq. No.: 64 Sample No.: 43 A/S Pos: 52
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:23:15 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	50982.8	688.1	5.74	mg/L	688.1	5.74	ppm	0.83%
Fe 273.955	358645.2	19.25	0.318	mg/L	19.25	0.318	ppm	1.65%
K 766.491	1515235.9	26.69	0.650	mg/L	26.69	0.650	ppm	2.44%
Mg 279.079	1482757.3	174.8	3.09	mg/L	174.8	3.09	ppm	1.77%
Na 330.237	404536.6	620.9	2.13	mg/L	620.9	2.13	ppm	0.34%

Replicate Data ----------
ID: 3100-12 F=1 Date: 05/08/03 03:25:47 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	48904.0	48923.2	660.3	mg/L	660.3	ppm
1	Fe 273.955	233969.3	234160.3	12.56	mg/L	12.56	ppm
1	K 766.491	1234098.8	1231818.7	22.16	mg/L	22.16	ppm
1	Mg 279.079	2853624.1	2854774.8	336.6	mg/L	336.6	ppm
1	Na 330.237	322012.8	320853.4	528.7	mg/L	528.7	ppm
2	Ca 227.547	47901.5	47920.7	646.8	mg/L	646.8	ppm
2	Fe 273.955	227764.5	227955.5	12.23	mg/L	12.23	ppm
2	K 766.491	1319317.4	1317037.3	23.54	mg/L	23.54	ppm
2	Mg 279.079	2869832.2	2870983.0	338.5	mg/L	338.5	ppm
2	Na 330.237	317462.5	316303.0	523.4	mg/L	523.4	ppm
3	Ca 227.547	50331.0	50350.2	679.6	mg/L	679.6	ppm
3	Fe 273.955	232280.2	232471.3	12.47	mg/L	12.47	ppm
3	K 766.491	1273842.4	1271562.3	22.81	mg/L	22.81	ppm
3	Mg 279.079	2750046.7	2751197.5	324.4	mg/L	324.4	ppm
3	Na 330.237	332521.7	331362.3	540.7	mg/L	540.7	ppm

Mean Data ----------
ID: 3100-12 F=1 Seq. No.: 65 Sample No.: 44 A/S Pos: 53
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:25:47 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	49064.7	662.2	16.48	mg/L	662.2	16.48	ppm	2.49%
Fe 273.955	231529.0	12.42	0.172	mg/L	12.42	0.172	ppm	1.38%
K 766.491	1273472.7	22.84	0.691	mg/L	22.84	0.691	ppm	3.03%
Mg 279.079	2825651.8	333.2	7.66	mg/L	333.2	7.66	ppm	2.30%
Na 330.237	322839.5	530.9	8.91	mg/L	530.9	8.91	ppm	1.68%

Replicate Data
ID: 3100-13 F=1 Date: 05/08/03 03:28:19 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	27009.5	27028.7	364.8	mg/L	364.8	ppm
1	Fe 273.955	291259.3	291450.3	15.65	mg/L	15.65	ppm
1	K 766.491	384160.9	381880.8	7.395	mg/L	7.395	ppm
1	Mg 279.079	1251588.8	1252739.5	147.7	mg/L	147.7	ppm
1	Na 330.237	59296.3	58136.8	139.1	mg/L	139.1	ppm
2	Ca 227.547	27023.6	27042.8	365.0	mg/L	365.0	ppm
2	Fe 273.955	286683.8	286874.8	15.40	mg/L	15.40	ppm
2	K 766.491	376793.9	374513.8	7.258	mg/L	7.258	ppm
2	Mg 279.079	1239481.2	1240632.0	146.3	mg/L	146.3	ppm
2	Na 330.237	58603.7	57444.2	137.7	mg/L	137.7	ppm
3	Ca 227.547	26211.2	26230.4	354.0	mg/L	354.0	ppm
3	Fe 273.955	279472.2	279663.2	15.02	mg/L	15.02	ppm
3	K 766.491	387978.4	385698.3	7.466	mg/L	7.466	ppm
3	Mg 279.079	1238553.8	1239704.5	146.2	mg/L	146.2	ppm
3	Na 330.237	57036.0	55876.5	134.4	mg/L	134.4	ppm

Mean Data
ID: 3100-13 F=1 Seq. No.: 66 Sample No.: 45 A/S Pos: 54
Sample Qty: 1.0000 mL Prep. Vol.: 1.0 mL Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:28:19 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	26767.3	361.3	6.28	mg/L	361.3	6.28	ppm	1.74%
Fe 273.955	285996.1	15.35	0.319	mg/L	15.35	0.319	ppm	2.08%
K 766.491	380697.7	7.373	0.1057	mg/L	7.373	0.1057	ppm	1.43%
Mg 279.079	1244358.7	146.7	0.86	mg/L	146.7	0.86	ppm	0.58%
Na 330.237	57152.5	137.1	2.39	mg/L	137.1	2.39	ppm	1.75%

Replicate Data
ID: ICSA 1441 Date: 05/08/03 03:30:55 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	34150.9	34170.1	461.2	mg/L		
1	Fe 273.955	3323650.4	3323841.5	178.6	mg/L		
1	K 766.491	3105.0	824.9	0.0546	mg/L		
1	Mg 279.079	4025355.7	4026506.4	474.8	mg/L		
1	Na 330.237	1053.4	-106.1	0.0490	mg/L		
2	Ca 227.547	34791.7	34810.9	469.9	mg/L		
2	Fe 273.955	3356552.4	3356743.4	180.3	mg/L		
2	K 766.491	2720.4	440.3	0.0469	mg/L		
2	Mg 279.079	4053370.7	4054521.4	478.1	mg/L		
2	Na 330.237	1109.0	-50.5	0.2070	mg/L		
3	Ca 227.547	33054.8	33074.0	446.4	mg/L		
3	Fe 273.955	3283310.9	3283501.9	176.4	mg/L		
3	K 766.491	2803.0	523.0	0.0486	mg/L		
3	Mg 279.079	3957547.8	3958698.5	466.8	mg/L		
3	Na 330.237	1073.9	-85.6	0.1073	mg/L		

Mean Data
ID: ICSA 1441 Seq. No.: 67 Sample No.: 3 A/S Pos: 7
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0

Data: Original Date: 05/08/03 03:30:55 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	34018.3	459.2	11.86	mg/L				2.58%
Fe 273.955	3321362.3	178.4	1.97	mg/L				1.10%
K 766.491	596.1	0.0501	0.00405	mg/L				8.08%
Mg 279.079	4013242.1	473.2	5.81	mg/L				1.23%
Na 330.237	-80.7	0.1211	0.07986	mg/L				65.95%

Replicate Data
ID: ICSAB 1443 Date: 05/08/03 03:33:33 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	34619.5	34638.7	467.5	mg/L		
1	Fe 273.955	3561138.9	3561329.9	191.3	mg/L		
1	K 766.491	2445.6	165.5	0.0415	mg/L		
1	Mg 279.079	4291451.5	4292602.3	506.1	mg/L		
1	Na 330.237	1341.0	181.5	0.8660	mg/L		
2	Ca 227.547	33825.2	33844.5	456.8	mg/L		
2	Fe 273.955	3471056.0	3471247.0	186.5	mg/L		
2	K 766.491	2036.2	-243.9	0.0333	mg/L		
2	Mg 279.079	4175466.9	4176617.6	492.5	mg/L		
2	Na 330.237	1134.4	-25.1	0.2793	mg/L		
3	Ca 227.547	34371.4	34390.7	464.2	mg/L		
3	Fe 273.955	3367727.0	3367918.0	180.9	mg/L		
3	K 766.491	2382.2	102.1	0.0402	mg/L		
3	Mg 279.079	4042959.3	4044110.1	476.8	mg/L		
3	Na 330.237	1155.2	-4.2	0.3385	mg/L		

Mean Data
ID: ICSAB 1443 Seq. No.: 68 Sample No.: 4 A/S Pos: 8
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:33:33 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Units	Mean Conc.	Sample Std.Dev.	Units	RSD
Ca 227.547	34291.3	462.8	5.48	mg/L				1.18%
Fe 273.955	3466831.7	186.2	5.20	mg/L				2.79%
K 766.491	7.9	0.0383	0.00440	mg/L				11.50%
Mg 279.079	4171110.0	491.8	14.66	mg/L				2.98%
Na 330.237	50.7	0.4946	0.32304	mg/L				65.31%

Replicate Data
ID: CCV 1447B Date: 05/08/03 03:36:09 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	3702.7	3721.9	50.24	mg/L		
1	Fe 273.955	94217.5	94408.5	5.071	mg/L		
1	K 766.491	815381.9	813101.8	15.13	mg/L		
1	Mg 279.079	214450.7	215601.5	25.42	mg/L		
1	Na 330.237	42484.8	41325.3	103.2	mg/L		
2	Ca 227.547	3767.5	3786.7	51.11	mg/L		
2	Fe 273.955	94007.5	94198.5	5.059	mg/L		
2	K 766.491	808002.2	805722.1	15.00	mg/L		
2	Mg 279.079	214125.4	215276.2	25.38	mg/L		
2	Na 330.237	42559.0	41399.5	103.4	mg/L		
3	Ca 227.547	3628.0	3647.2	49.23	mg/L		
3	Fe 273.955	93721.5	93912.6	5.044	mg/L		
3	K 766.491	827827.4	825547.3	15.34	mg/L		
3	Mg 279.079	212210.9	213361.7	25.16	mg/L		
3	Na 330.237	42173.6	41014.2	102.5	mg/L		

Mean Data
ID: CCV 1447B Seq. No.: 69 Sample No.: 5 A/S Pos: 6

Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:36:09 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	3718.6	50.19	0.942	mg/L				1.88%
Fe 273.955	94173.2	5.058	0.0134	mg/L				0.26%
K 766.491	814790.4	15.16	0.173	mg/L				1.14%
Mg 279.079	214746.4	25.32	0.143	mg/L				0.56%
Na 330.237	41246.3	103.1	0.45	mg/L				0.44%

Replicate Data
ID: CCB Date: 05/08/03 03:38:42 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Calib Units	Sample Conc.	Sample Units
1	Ca 227.547	-43.0	-23.8	-0.3214	mg/L		
1	Fe 273.955	1060.9	1252.0	0.0673	mg/L		
1	K 766.491	2449.7	169.6	0.0415	mg/L		
1	Mg 279.079	220.4	1371.1	0.1617	mg/L		
1	Na 330.237	1165.4	6.0	0.3675	mg/L		
2	Ca 227.547	-24.6	-5.3	-0.0721	mg/L		
2	Fe 273.955	1192.2	1383.2	0.0743	mg/L		
2	K 766.491	2825.4	545.3	0.0490	mg/L		
2	Mg 279.079	297.1	1447.9	0.1707	mg/L		
2	Na 330.237	1089.7	-69.7	0.1523	mg/L		
3	Ca 227.547	-18.5	0.7	0.0097	mg/L		
3	Fe 273.955	1082.8	1273.9	0.0684	mg/L		
3	K 766.491	2816.8	536.7	0.0489	mg/L		
3	Mg 279.079	199.2	1350.0	0.1592	mg/L		
3	Na 330.237	1099.6	-59.9	0.1804	mg/L		

Mean Data
ID: CCB Seq. No.: 70 Sample No.: 6 A/S Pos: 1
Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
Data: Original Date: 05/08/03 03:38:42 PM

Element	Mean Corr. Intensity	Mean Conc.	Calib Std.Dev.	Calib Units	Mean Conc.	Sample Std.Dev.	Sample Units	RSD
Ca 227.547	-9.5	-0.1279	0.17244	mg/L				134.80%
Fe 273.955	1303.0	0.0700	0.00378	mg/L				5.40%
K 766.491	417.2	0.0465	0.00429	mg/L				9.22%
Mg 279.079	1389.7	0.1639	0.00608	mg/L				3.71%
Na 330.237	-41.2	0.2334	0.11698	mg/L				50.13%

gpw 5/13/03

Y2K non-complian software. The date should be 5/13/2003.

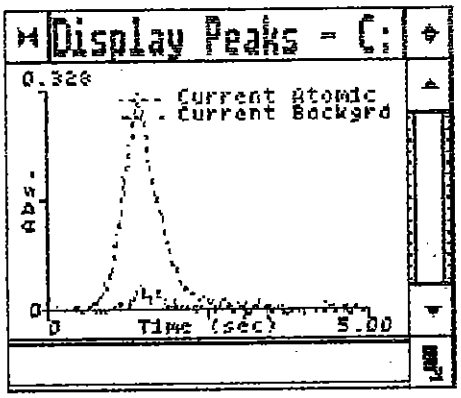
5/13/99.

gpw 5/13/03

Element File: AS_7060.GEL Element: As Wavelength: 193.7
Date: 05/13/~~99~~ 03 Time: 10:17 Slit: 0.70 L
Data File: 03M1458E.DAT ID/Wt File: 1.IDW Lamp Current: 0
Technique: HGA Calib. Type: Linear Energy: 53

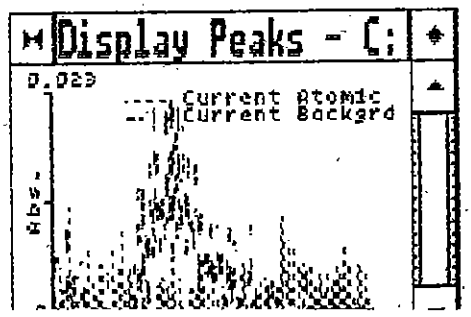
As ID: AS Position 002 Seq. No.: 00001 A/S Pos.: 2 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 2
Replicate 1 Time: 10:19
Peak Area (A-s): 0.214 Peak Height (A): 0.328
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.038
Blank Corrected Pk Area (A-s): 0.215
Concentration (mg/L): 0.0791 Corrected Conc (ppm): ----------



As ID: AS Position 001 Seq. No.: 00002 A/S Pos.: 1 Date: 05/13/99

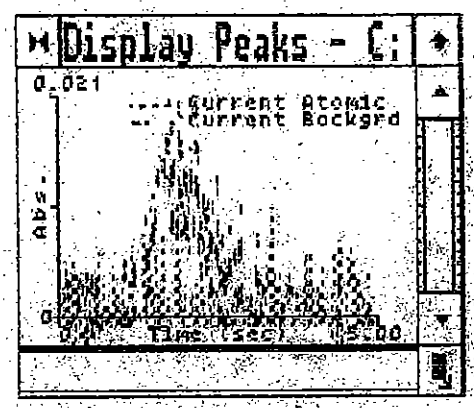
uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 10:28
Peak Area (A-s): -0.002 Peak Height (A): 0.011
Background Pk Area (A-s): -0.000 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0006 Corrected Conc (ppm): ----------



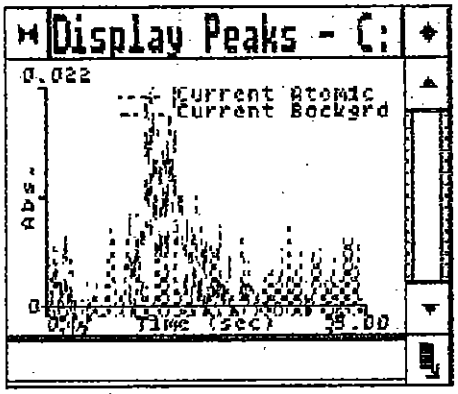
As ID: Calib. Blank Seq. No.: 00003 A/S Pos.: 1 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 10:36

Peak Area (A-s): -0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0007



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 10:40
Peak Area (A-s): -0.001 Peak Height (A): 0.009
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0002

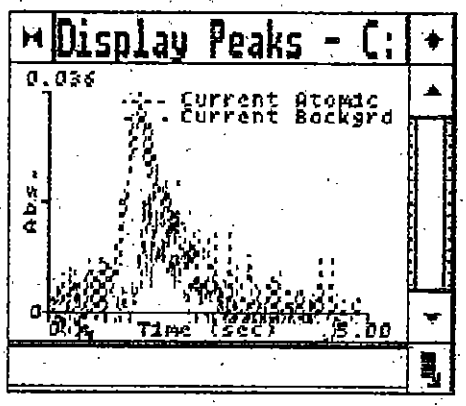


Mean Conc (mg/L): -0.0005 SD: 0.00033 RSD(%): 72.72

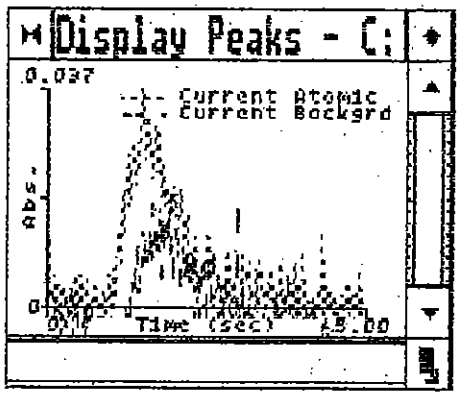
Auto-zero performed.

As ID: 1/2 STD1 1472A Seq. No.: 00004 A/S Pos.: 4 Date: 05/13/99

uL dispensed: 10 from 0, 5 from 20, 10 from 4
Replicate 1 Time: 10:43
Peak Area (A-s): 0.029 Peak Height (A): 0.036
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.031
Concentration (mg/L): 0.0113



uL dispensed: 10 from 0, 5 from 20, 10 from 4
Replicate 2 Time: 10:46
Peak Area (A-s): 0.030 Peak Height (A): 0.037
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.031
Concentration (mg/L): 0.0115

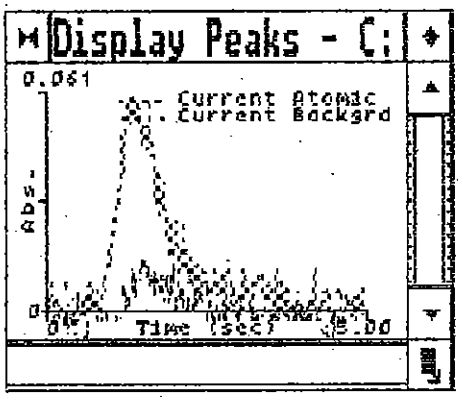


Mean Conc (mg/L): 0.0114 SD: 0.00017 RSD(%): 1.51

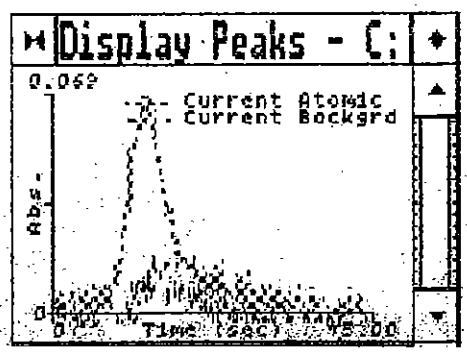
Correlation Coefficient: 1.00000 Slope: 2.4747

As ID: STD1 1472A Seq. No.: 00005 A/S Pos.: 4 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 4
Replicate 1 Time: 10:49
Peak Area (A-s): 0.056 Peak Height (A): 0.061
Background Pk Area (A-s): -0.008 Background Pk Height (A): 0.015
Blank Corrected Pk Area (A-s): 0.058
Concentration (mg/L): 0.0234



uL dispensed: 5 from 20, 20 from 4
Replicate 2 Time: 10:52
Peak Area (A-s): 0.058 Peak Height (A): 0.069
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.060
Concentration (mg/L): 0.0242

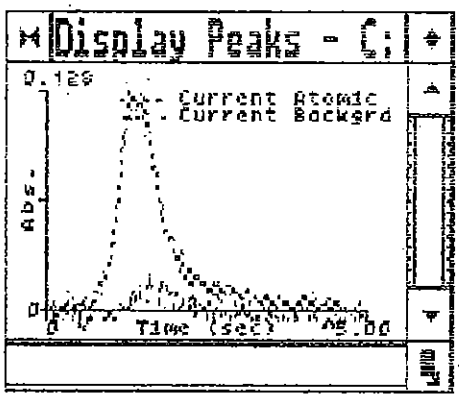


Mean Conc (mg/L): 0.0238 SD: 0.00056 RSD(%): 2.35

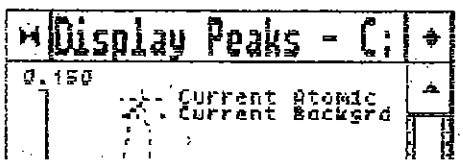
Standard number 2 applied. [0.0250]
Correlation coefficient: 0.99793 Slope: 2.3790

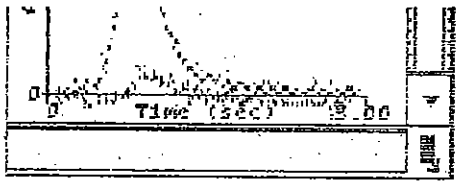
As ID: STD2 1472B Seq. No.: 00006 A/S Pos.: 3 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 3
Replicate 1 Time: 10:55
Peak Area (A-s): 0.116 Peak Height (A): 0.128
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.118
Concentration (mg/L): 0.0496



uL dispensed: 5 from 20, 20 from 3
Replicate 2 Time: 10:59
Peak Area (A-s): 0.122 Peak Height (A): 0.150
Background Pk Area (A-s): -0.008 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.123
Concentration (mg/L): 0.0519



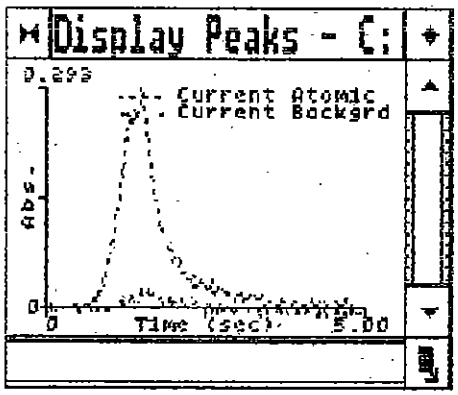


Mean Conc (mg/L): 0.0507 SD: 0.00156 RSD(%): 3.07

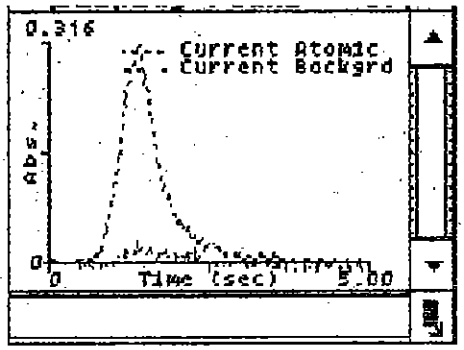
Standard number 3 applied. [0.9500]
Correlation coefficient: 0.99971 Slope: 2.4029

As ID: STD3 1472C Seq. No.: 00007 A/S Pos.: 2 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 2
Replicate 1 Time: 11:02
Peak Area (A-s): 0.233 Peak Height (A): 0.293
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.234
Concentration (mg/L): 0.0976

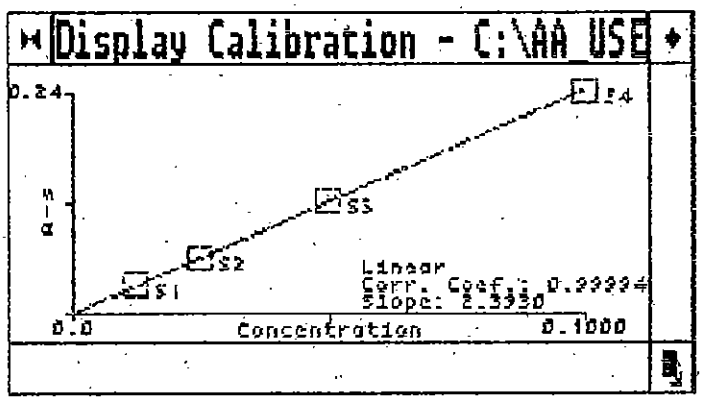


uL dispensed: 5 from 20, 20 from 2
Replicate 2 Time: 11:05
Peak Area (A-s): 0.242 Peak Height (A): 0.316
Background Pk Area (A-s): -0.001 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.243
Concentration (mg/L): 0.1013



Mean Conc (mg/L): 0.0995 SD: 0.00264 RSD(%): 2.65

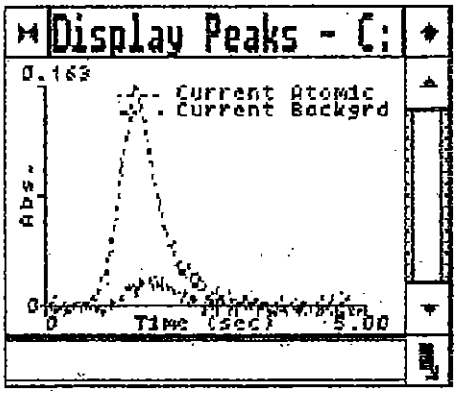
Standard number 4 applied. [0.1000]
Correlation coefficient: 0.99994 Slope: 2.3930



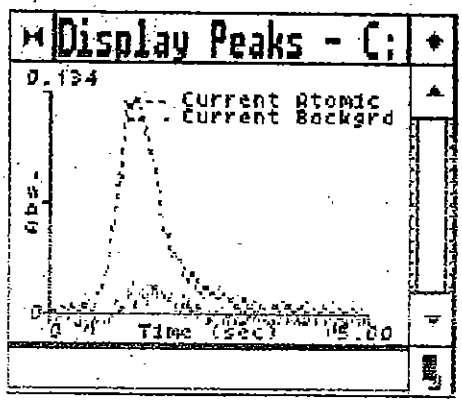
As ID: ICV A1474 Seq. No.: 00008 A/S Pos.: 40 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 11:13

Peak Area (A-s): 0.123 Peak Height (A): 0.163
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.125
Concentration (mg/L): 0.0521 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 11:16
Peak Area (A-s): 0.120 Peak Height (A): 0.134
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): 0.121
Concentration (mg/L): 0.0507 Corrected Conc (ppm): ----------

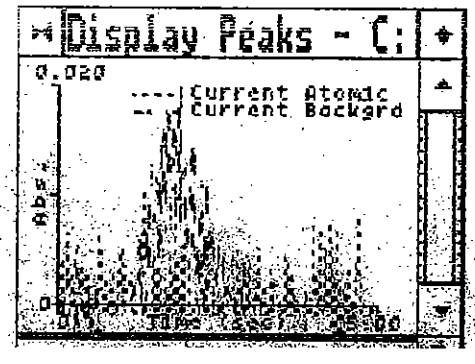


Mean Conc (mg/L): 0.0514 SD: 0.00101 RSD(%): 1.97
Corrected Conc (ppm): ----------

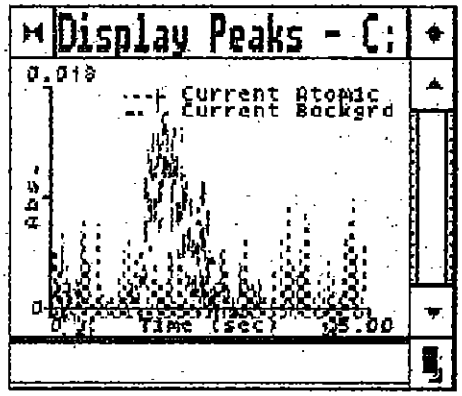
QC sample is within range 0.045 - 0.055

As ID: ICB Seq. No.: 00009 A/S Pos.: 1 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 11:09
Peak Area (A-s): -0.035 Peak Height (A): 0.011
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.020
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0006 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 11:23
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.013 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): ----------

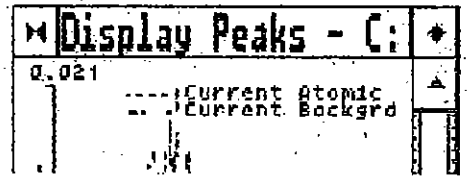


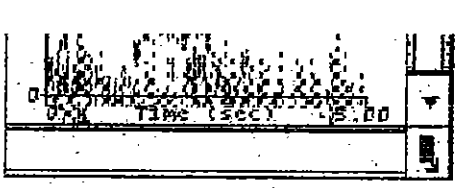
Mean Conc (mg/L): -0.0003 SD: 0.00041 RSD(%): 117.64
Corrected Conc (ppm): ----------

QC sample is within range

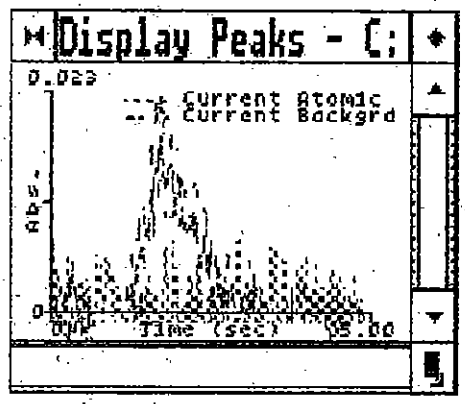
As ID: M-BL 03M1458 Seq. No.: 00010 A/S Pos.: 5 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 5
Replicate 1 Time: 11:26
Peak Area (A-s): -0.006 Peak Height (A): 0.008
Background Pk Area (A-s): -0.010 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.005
Concentration (mg/L): -0.0020 Corrected Conc (ppm): -0.0020





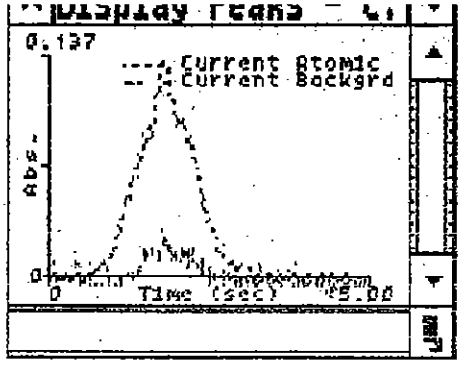
uL dispensed: 5 from 20, 20 from 5
Replicate 2 Time: 11:29
Peak Area (A-s): -0.001 Peak Height (A): 0.008
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.000
Concentration (mg/L): 0.0001 Corrected Conc (ppm): 0.0001



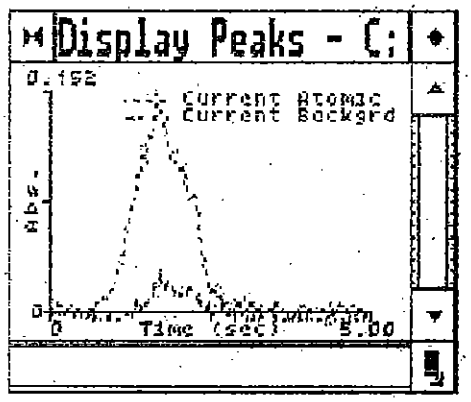
Mean Conc (mg/L): -0.0010 SD: 0.00150 RSD(%): 153.04
Corrected Conc (ppm): -0.0010

As ID: LCS-03M1458 Seq. No.: 00011 A/S Pos.: 6 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 6
Replicate 1 Time: 11:32
Peak Area (A-s): 0.127 Peak Height (A): 0.137
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.129
Concentration (mg/L): 0.0539 Corrected Conc (ppm): 0.0539



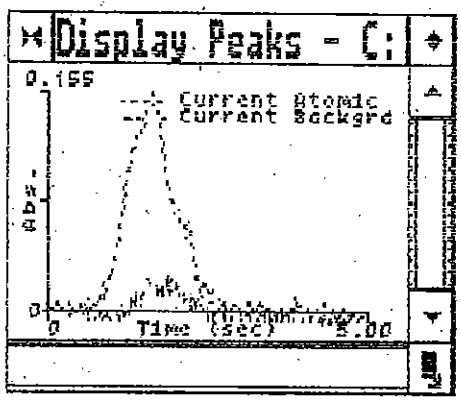
uL dispensed: 5 from 20, 20 from 6
Replicate 2 Time: 11:35
Peak Area (A-s): 0.141 Peak Height (A): 0.152
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.143
Concentration (mg/L): 0.0597 Corrected Conc (ppm): 0.0597



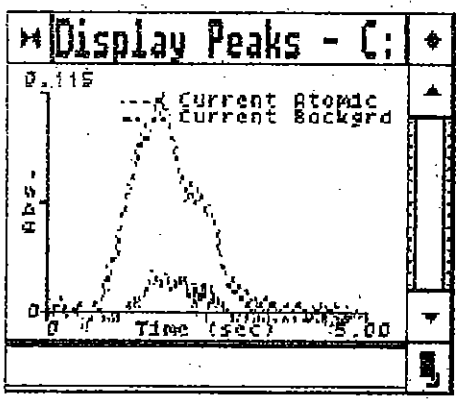
Mean Conc (mg/L): 0.0568 SD: 0.00409 RSD(%): 7.20
Corrected Conc (ppm): 0.0568

As ID: LCSD-03M1458 Seq. No.: 00012 A/S Pos.: 7 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 7
Replicate 1 Time: 11:39
Peak Area (A-s): 0.134 Peak Height (A): 0.155
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.025
Blank Corrected Pk Area (A-s): 0.136
Concentration (mg/L): 0.0568 Corrected Conc (ppm): 0.0568



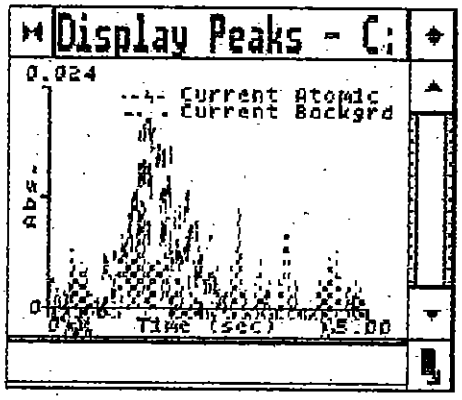
uL dispensed: 5 from 20, 20 from 7
Replicate 2 Time: 11:42
Peak Area (A-s): 0.136 Peak Height (A): 0.115
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.137
Concentration (mg/L): 0.0575 Corrected Conc (ppm): 0.0575



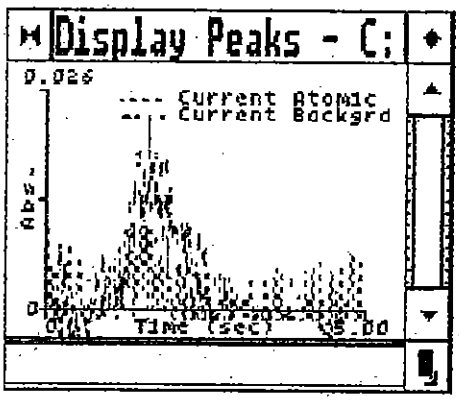
Mean Conc (mg/L): 0.0571 SD: 0.00047 RSD(%): 0.82
Corrected Conc (ppm): 0.0571

As ID: 3082-4 S F=1 Seq. No.: 00013 A/S Pos.: 8 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 8
Replicate 1 Time: 11:45
Peak Area (A-s): 0.000 Peak Height (A): 0.015
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0008 Corrected Conc (ppm): 0.0008



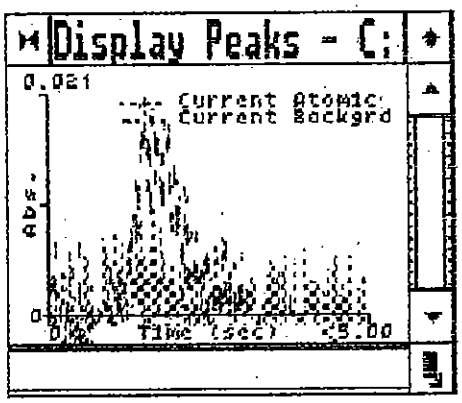
uL dispensed: 5 from 20, 20 from 8
Replicate 2 Time: 11:48
Peak Area (A-s): 0.001 Peak Height (A): 0.013
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0010 Corrected Conc (ppm): 0.0010



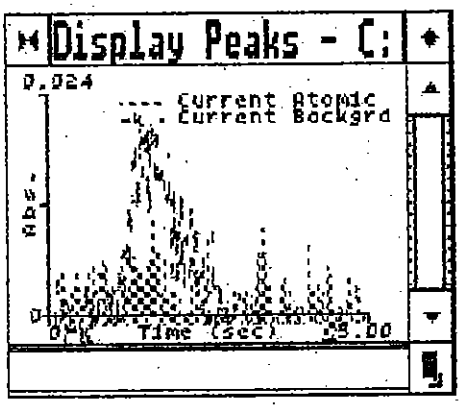
Mean Conc (mg/L): 0.0009 SD: 0.00015 RSD(%): 16.66
Corrected Conc (ppm): 0.0009

As ID: 3082-4 D P=1 Seq. No.: 00014 A/S Pos.: 9 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 9
Replicate 1 Time: 11:51
Peak Area (A-s): 0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.001 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0011 Corrected Conc (ppm): 0.0011



uL dispensed: 5 from 20, 20 from 9
Replicate 2 Time: 11:55
Peak Area (A-s): -0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.002 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0002 Corrected Conc (ppm): -0.0002

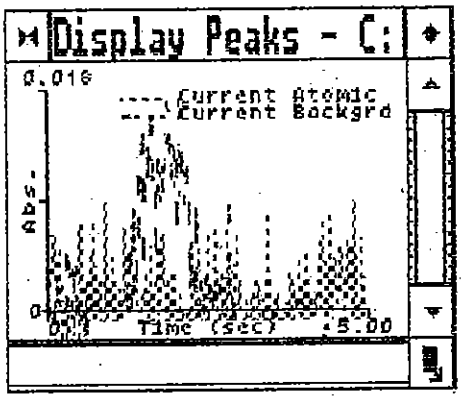


Mean Conc (mg/L): 0.0005 SD: 0.00089 RSD(%): 197.44
Corrected Conc (ppm): 0.0005

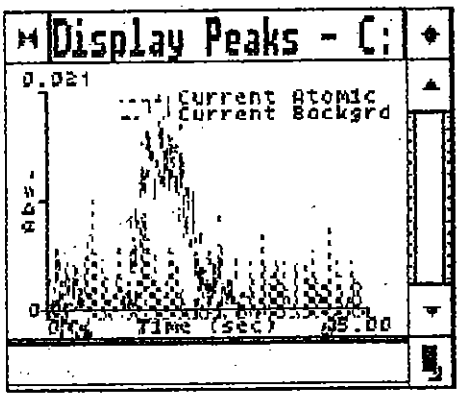
As ID: 3082-4 1/5 F=5 Seq. No.: 00015 A/S Pos.: 10 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 10
Replicate 1 Time: 11:58

Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0006 Corrected Conc (ppm): 0.003



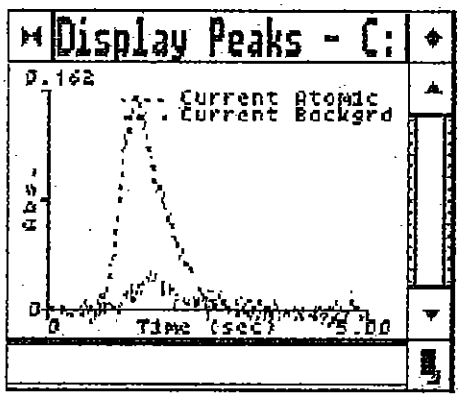
uL dispensed: 5 from 20, 20 from 10
Replicate 2 Time: 12:01
Peak Area (A-s): -0.003 Peak Height (A): 0.011
Background Pk Area (A-s): -0.002 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0007 Corrected Conc (ppm): -0.004



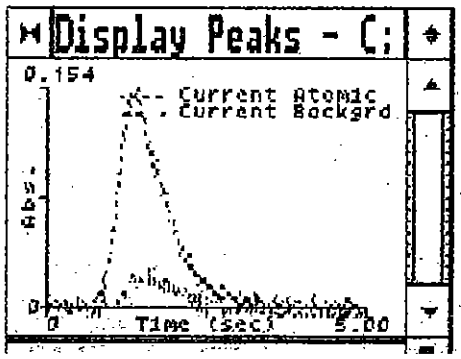
Mean Conc (mg/L): -0.0001 SD: 0.00094 RSD(%): 1552.92
Corrected Conc (ppm): -3.01E-004

As ID: 3082-4 MS F=1 Seq. No.: 00016 A/S Pos.: 11 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 11
Replicate 1 Time: 12:05
Peak Area (A-s): 0.127 Peak Height (A): 0.162
Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.129
Concentration (mg/L): 0.0537 Corrected Conc (ppm): 0.0537



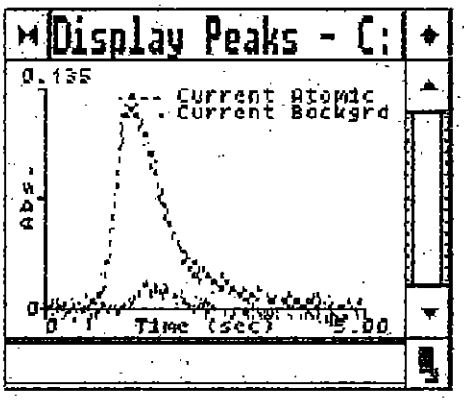
uL dispensed: 5 from 20, 20 from 11
Replicate 2 Time: 12:08
Peak Area (A-s): 0.133 Peak Height (A): 0.154
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.028
Blank Corrected Pk Area (A-s): 0.134
Concentration (mg/L): 0.0561 Corrected Conc (ppm): 0.0561



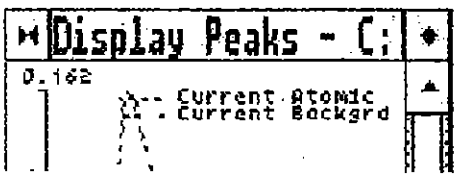
Mean Conc (mg/L): 0.0549 SD: 0.00167 RSD(%): 3.04
Corrected Conc (ppm): 0.0549

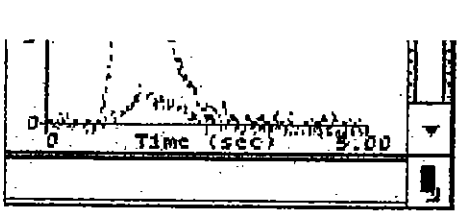
As ID: 3082-4 MSD F=1 Seq. No.: 00017 A/S Pos.: 12 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 12
Replicate 1 Time: 12:11
Peak Area (A-s): 0.127 Peak Height (A): 0.135
Background Pk Area (A-s): -0.003 Background Pk Height (A): 0.018
Blank Corrected Pk Area (A-s): 0.128
Concentration (mg/L): 0.0537 Corrected Conc (ppm): 0.0537



uL dispensed: 5 from 20, 20 from 12
Replicate 2 Time: 12:14
Peak Area (A-s): 0.133 Peak Height (A): 0.162
Background Pk Area (A-s): 0.008 Background Pk Height (A): 0.029
Blank Corrected Pk Area (A-s): 0.135
Concentration (mg/L): 0.0563 Corrected Conc (ppm): 0.0563

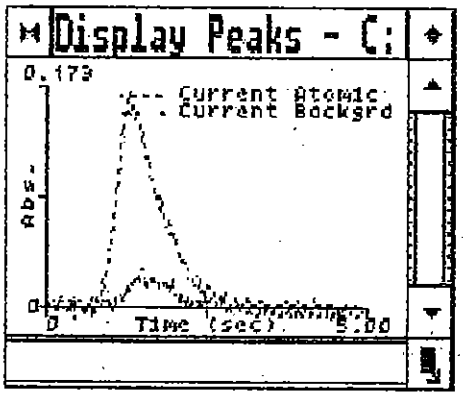




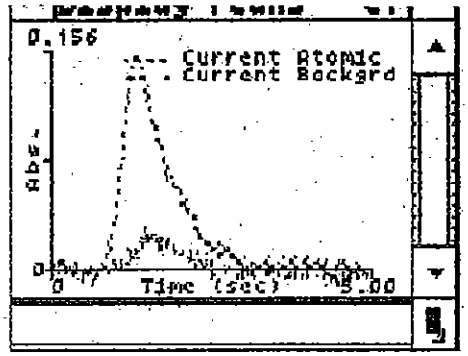
Mean Conc (mg/L): 0.0550 SD: 0.00184 RSD(%): 3.35
Corrected Conc (ppm): 0.0550

As ID: 3082-4 PS F=1 Seq. No.: 00018 A/S Pos.: 13 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 13
Replicate 1 Time: 12:17
Peak Area (A-s): 0.135 Peak Height (A): 0.173
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.032
Blank Corrected Pk Area (A-s): 0.137
Concentration (mg/L): 0.0572 Corrected Conc (ppm): 0.0572



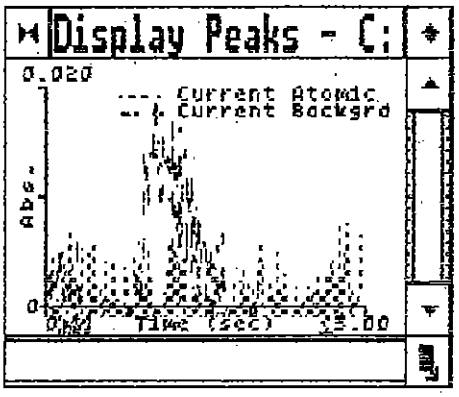
uL dispensed: 5 from 20, 20 from 13
Replicate 2 Time: 12:21
Peak Area (A-s): 0.132 Peak Height (A): 0.156
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.030
Blank Corrected Pk Area (A-s): 0.133
Concentration (mg/L): 0.0557 Corrected Conc (ppm): 0.0557



Mean Conc (mg/L): 0.0564 SD: 0.00112 RSD(%): 1.98
Corrected Conc (ppm): 0.0564

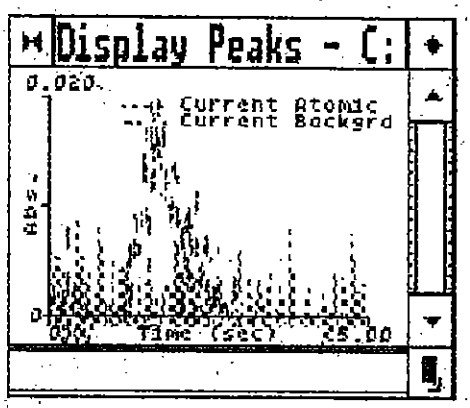
As ID: 3082-1 F=1 Seq. No.: 00019 A/S Pos.: 14 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 14
Replicate 1 Time: 12:24
Peak Area (A-s): -0.004 Peak Height (A): 0.009
Background Pk Area (A-s): -0.009 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0009 Corrected Conc (ppm): -0.0009



uL dispensed: 5 from 20, 20 from 14
Replicate 2 Time: 12:27

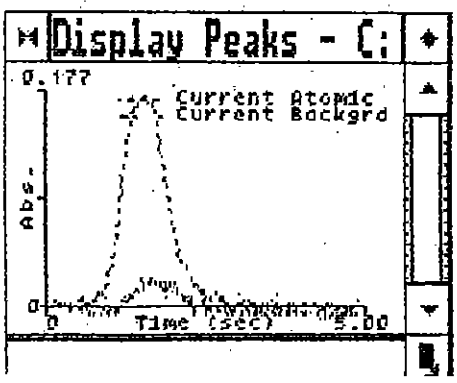
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0004 Corrected Conc (ppm): -0.0004



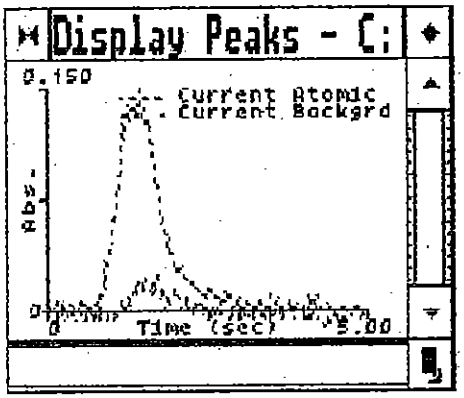
Mean Conc (mg/L): -0.0006 SD: 0.00036 RSD(%): 57.12
Corrected Conc (ppm): -0.0006

As ID: CCV A1474 Seq. No.: 00020 A/S Pos.: 40 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 40
Replicate 1 Time: 12:30
Peak Area (A-s): 0.147 Peak Height (A): 0.177
Background Pk Area (A-s): -0.004 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): 0.148
Concentration (mg/L): 0.0619 Corrected Conc (ppm): ----------



uL dispensed: 5 from 20, 20 from 40
Replicate 2 Time: 12:33
Peak Area (A-s): 0.121 Peak Height (A): 0.150
Background Pk Area (A-s): -0.006 Background Pk Height (A): 0.024
Blank Corrected Pk Area (A-s): 0.122
Concentration (mg/L): 0.0512 Corrected Conc (ppm): ----------

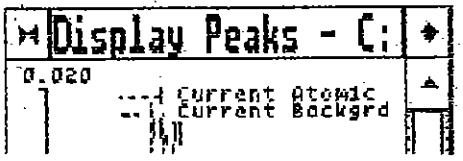


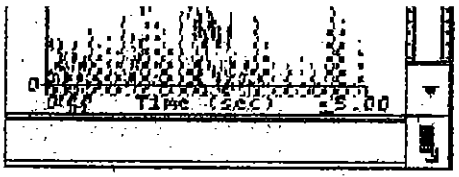
Mean Conc (mg/L): 0.0566 SD: 0.00761 RSD(%): 13.46
Corrected Conc (ppm): ----------

QC sample is within range 0.0425 - 0.0575

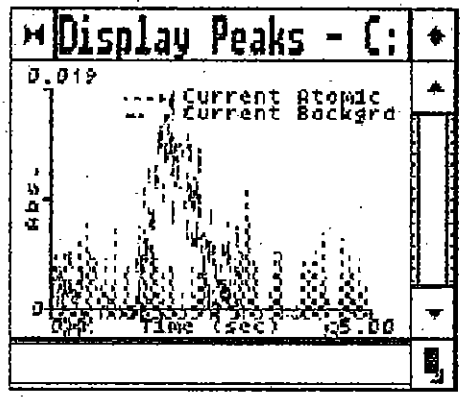
As ID: CCB Seq. No.: 00021 A/S Pos.: 1 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 1
Replicate 1 Time: 12:37
Peak Area (A-s): -0.004 Peak Height (A): 0.008
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.021
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0010 Corrected Conc (ppm): ----------





uL dispensed: 5 from 20, 20 from 1
Replicate 2 Time: 12:40
Peak Area (A-s): -0.004 Peak Height (A): 0.010
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): -0.002
Concentration (mg/L): -0.0010 Corrected Conc (ppm): ----------

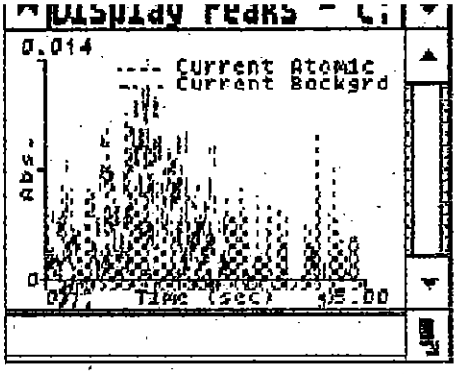


Mean Conc (mg/L): -0.0010 SD: 0.00001 RSD(%): 1.14
Corrected Conc (ppm): ----------

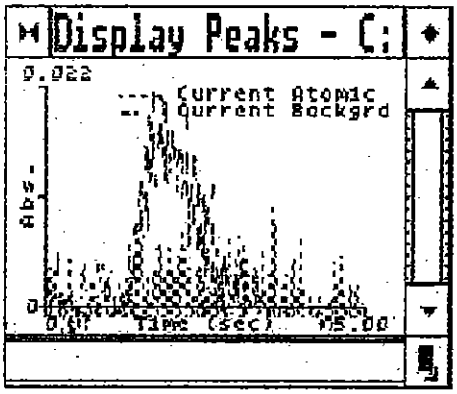
QC sample is within range

As ID: 3082-2 F=1 Seq. No.: 00022 A/S Pos.: 15 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 15
Replicate 1 Time: 12:43
Peak Area (A-s): -0.002 Peak Height (A): 0.011
Background Pk Area (A-s): -0.005 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.000
Concentration (mg/L): 0.0000 Corrected Conc (ppm): 0.0000



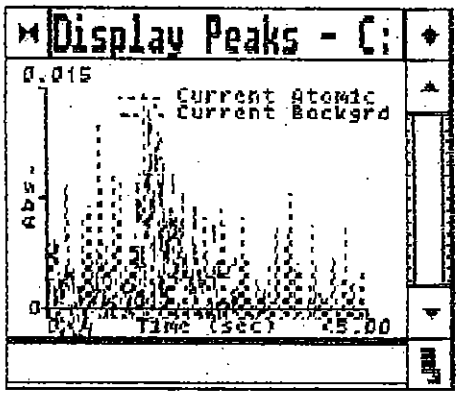
uL dispensed: 5 from 20, 20 from 15
Replicate 2 Time: 12:46
Peak Area (A-s): -0.002 Peak Height (A): 0.010
Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.022
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): -0.0001



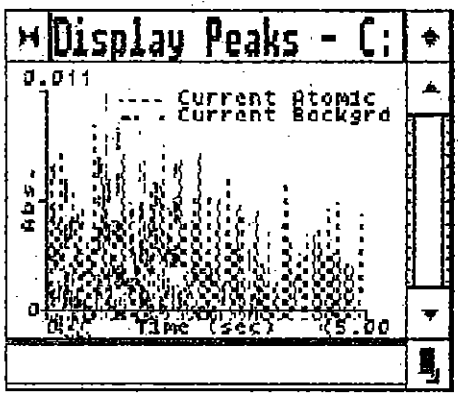
Mean Conc (mg/L): -0.0001 SD: 0.00011 RSD(%): 174.96
Corrected Conc (ppm): -0.0001

As ID: 3082-3 F=1 Seq. No.: 00023 A/S Pos.: 16 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 16
Replicate 1 Time: 12:49
Peak Area (A-s): -0.001 Peak Height (A): 0.015
Background Pk Area (A-s): -0.011 Background Pk Height (A): 0.014
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0002 Corrected Conc (ppm): 0.0002



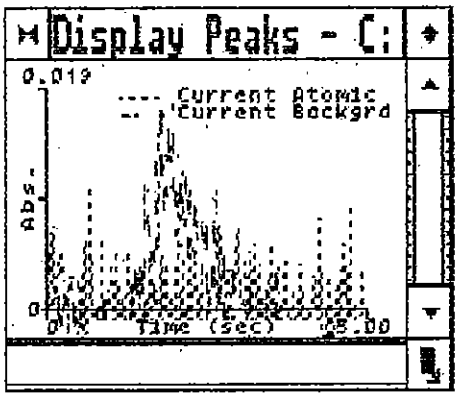
uL dispensed: 5 from 20, 20 from 16
Replicate 2 Time: 12:52
Peak Area (A-s): 0.002 Peak Height (A): 0.009
Background Pk Area (A-s): -0.016 Background Pk Height (A): 0.011
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0013 Corrected Conc (ppm): 0.0013



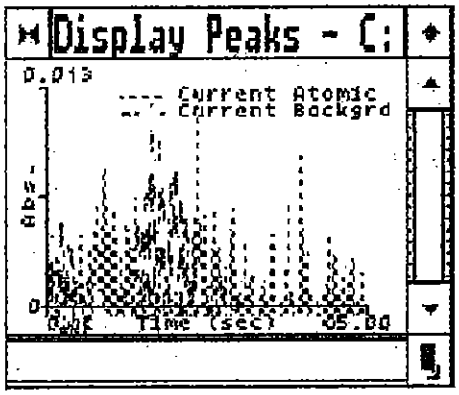
Mean Conc (mg/L): 0.0008 SD: 0.00078 RSD(%): 100.62
Corrected Conc (ppm): 0.0008

As ID: 3082-5 P=1 Seq. No.: 00024 A/S Pos.: 17 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 17
Replicate 1 Time: 12:55
Peak Area (A-s): -0.001 Peak Height (A): 0.011
Background Pk Area (A-s): -0.009 Background Pk Height (A): 0.019
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0003 Corrected Conc (ppm): 0.0003



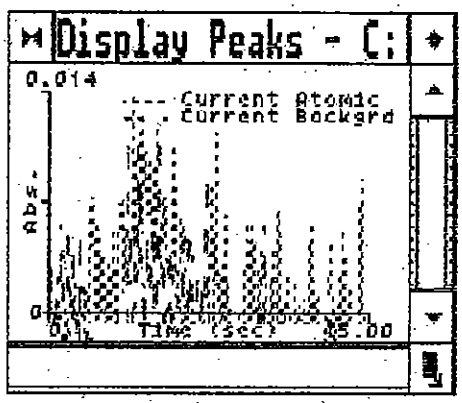
uL dispensed: 5 from 20, 20 from 17
Replicate 2 Time: 12:59
Peak Area (A-s): -0.003 Peak Height (A): 0.013
Background Pk Area (A-s): -0.017 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): -0.001
Concentration (mg/L): -0.0006 Corrected Conc (ppm): -0.0006



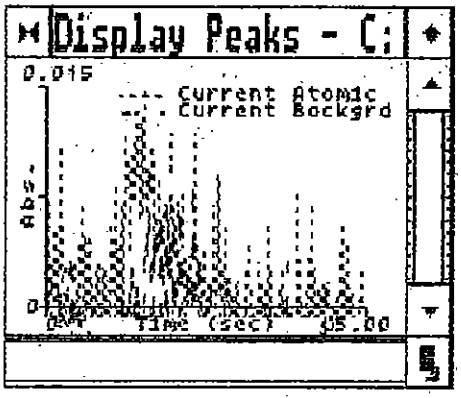
Mean Conc (mg/L): -0.0001 SD: 0.00065 RSD(%): 548.29
Corrected Conc (ppm): -0.0001

As ID: 3082-6 F=1 Seq. No.: 00025 A/S Pos.: 18 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 18
Replicate 1 Time: 13:02
Peak Area (A-s): 0.002 Peak Height (A): 0.014
Background Pk Area (A-s): -0.019 Background Pk Height (A): 0.012
Blank Corrected Pk Area (A-s): 0.004
Concentration (mg/L): 0.0016 Corrected Conc (ppm): 0.0016



uL dispensed: 5 from 20, 20 from 18
Replicate 2 Time: 13:05
Peak Area (A-s): 0.005 Peak Height (A): 0.015
Background Pk Area (A-s): -0.018 Background Pk Height (A): 0.009
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0027 Corrected Conc (ppm): 0.0027

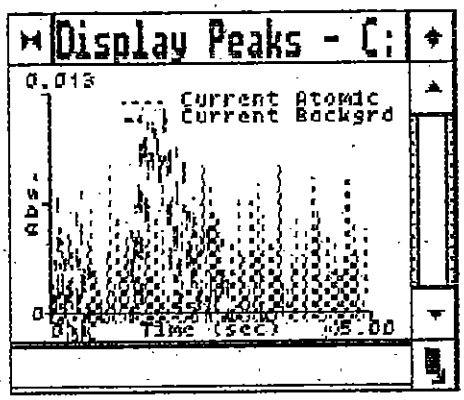


Mean Conc (mg/L): 0.0021 SD: 0.00080 RSD(%): 37.30
Corrected Conc (ppm): 0.0021

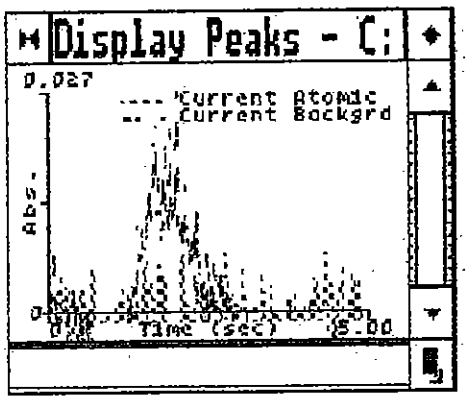
As ID: 3130-1 F=1 Seq. No.: 00026 A/S Pos.: 19 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 19
Replicate 1 Time: 13:08

Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0005 Corrected Conc (ppm): 0.0005



uL dispensed: 5 from 20, 20 from 19
Replicate 2 Time: 13:11
Peak Area (A-s): -0.006 Peak Height (A): 0.009
Background Pk Area (A-s): -0.007 Background Pk Height (A): 0.027
Blank Corrected Pk Area (A-s): -0.004
Concentration (mg/L): -0.0018 Corrected Conc (ppm): -0.0018



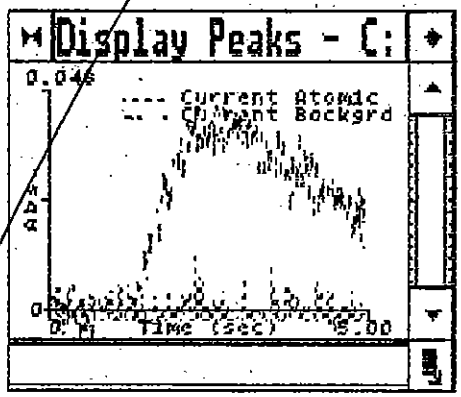
5938

Mean Conc (mg/L): -0.0006 SD: 0.00164 RSD(%): 260.23
Corrected Conc (ppm): -0.0006

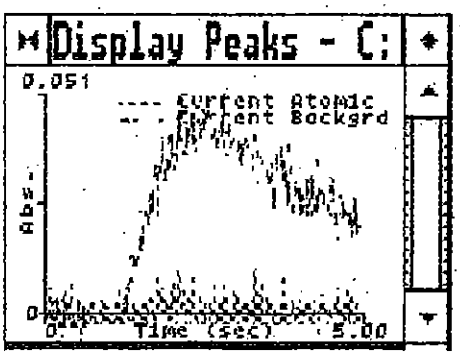
As ID: AS Position 020 Seq. No.: 00027 A/S Pos.: 20 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 20
Replicate 1 Time: 13:14
Peak Area (A-s): -0.006 Peak Height (A): 0.011
Background Pk Area (A-s): 0.104 Background Pk Height (A): 0.048
Blank Corrected Pk Area (A-s): -0.004
Concentration (mg/L): -0.0017 Corrected Conc (ppm): ----------

5/13/03



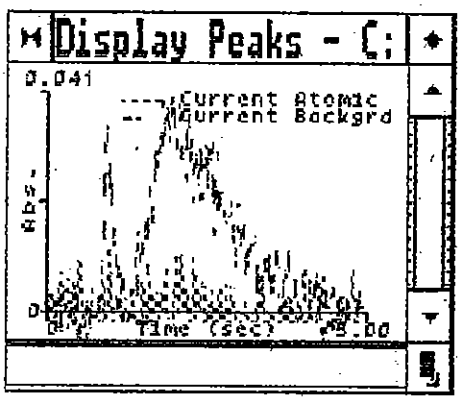
uL dispensed: 5 from 20, 20 from 20
Replicate 2 Time: 13:17
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.114 Background Pk Height (A): 0.051
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0002 Corrected Conc (ppm): ----------



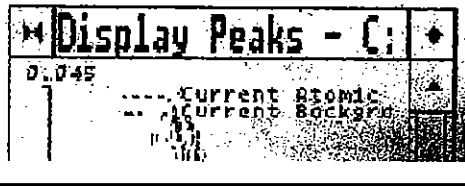
Mean Conc (mg/L): -0.0007 SD: 0.00134 RSD(%): 190.74
Corrected Conc (ppm): ----------

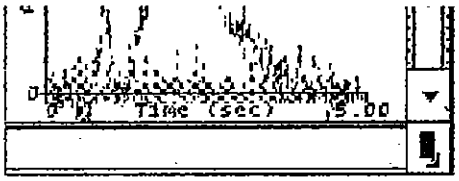
As ID: 3130-2 F=1 Seq. No.: 00028 A/S Pos.: 21 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 21
Replicate 1 Time: 13:20
Peak Area (A-s): 0.000 Peak Height (A): 0.012
Background Pk Area (A-s): 0.052 Background Pk Height (A): 0.041
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 21
Replicate 2 Time: 13:23
Peak Area (A-s): -0.000 Peak Height (A): 0.010
Background Pk Area (A-s): 0.049 Background Pk Height (A): 0.045
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0006 Corrected Conc (ppm): 0.0006

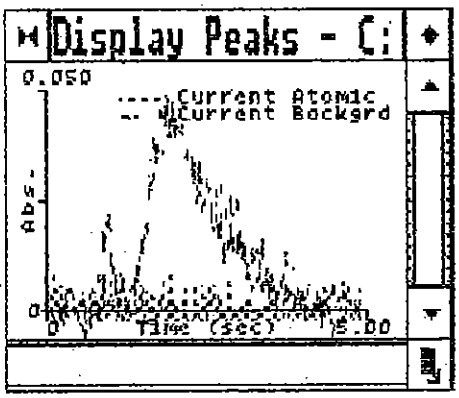




Mean Conc (mg/L): 0.0007 SD: 0.00004 RSD(%): 6.52
Corrected Conc (ppm): 0.0007

As ID: 3130-2 D R=1 Seq. No.: 00029 A/S Pos.: 22 Date: 05/13/99

uL dispensed: 5 from 20, 20 from 22
Replicate 1 Time: 13:26
Peak Area (A-s): -0.001 Peak Height (A): 0.010
Background Pk Area (A-s): 0.056 Background Pk Height (A): 0.050
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 22
Replicate 2 Time: 13:30
Peak Area (A-s): -0.004 Peak Height (A): 0.010
Background Pk Area (A-s): 0.050 Background Pk Height (A): 0.042
Blank Corrected Pk Area (A-s): -0.003
Concentration (mg/L): -0.0011 Corrected Conc (ppm): -0.0011