

Level C Data Package Deliverables

Metals



Applied P & Ch Laboratory

Applied P & Ch Laboratory
Metal Analysis Results

Client Name: GEOFON, Inc.
 Project ID: JPL
 Sample ID: MW-24-2
 Sample Type: Field Sample

Project No: 04-4428.10
 Service ID: 32964
 Lab Sample ID: 03-2964-4
 Sample Matrix: Water

Collection Date: 04/29/2003
 Collected by:
 Received Date: 04/29/2003
 Moisture %: -

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		03M1423E	05/02/03	05/02/03	1	200.9
CALCIUM	7440-70-2	µg/L	200	19900		P		03M1421M	05/02/03	05/02/03	1	200.7
IRON	7439-89-6	µg/L	50	239		P		03M1421M	05/02/03	05/02/03	1	200.7
MAGNESIUM	7439-95-4	µg/L	100	12700		P		03M1421M	05/02/03	05/02/03	1	200.7
POTASSIUM	7440-09-7	µg/L	400	2920		P		03M1421M	05/02/03	05/02/03	1	200.7
SODIUM	7440-23-5	µg/L	2000	43300		P		03M1421M	05/02/03	05/02/03	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 ID: JPL
 Sample ID: MW-24-4
 Sample Type: Field Sample

Project No: 04-4428.10
 Service ID: 32964
 Lab Sample ID: 03-2964-6
 Sample Matrix: Water

Collection Date: 04/29/2003
 Collected by:
 Received Date: 04/29/2003
 Moisture %: -

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		03M1423E	05/02/03	05/02/03	1	200.9
CALCIUM	7440-70-2	µg/L	200	7470		P		03M1421M	05/02/03	05/02/03	1	200.7
IRON	7439-89-6	µg/L	50	55.3		P		03M1421M	05/02/03	05/02/03	1	200.7
MAGNESIUM	7439-95-4	µg/L	100	8460		P		03M1421M	05/02/03	05/02/03	1	200.7
POTASSIUM	7440-09-7	µg/L	400	2180		P		03M1421M	05/02/03	05/02/03	1	200.7
SODIUM	7440-23-5	µg/L	2000	43300		P		03M1421M	05/02/03	05/02/03	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
 Q Qualifier: N - Spike recovery out of control
 M Qualifier: P - ICP A - FLAA F - GFAA CV - Cold Vapor
 B - Less than RL (PQL, EQL or CRDL), but greater than IDL.
 * - Duplicate analysis out of control
 W - Post digestion spike for GFAA out of control
 E - Serial dilution difference out of control

Applied P & Ch Laboratory
Metal Analysis Results

Client Name: GEOFON, Inc.
 Project ID: JPL
 Sample ID: **MW-24-5**
 Sample Type: Field Sample

Project No: 04-4428.10
 Service ID: 32964
 Lab Sample ID: 03-2964-7
 Sample Matrix Water

Collection Date: 04/29/2003
 Collected by:
 Received Date: 04/29/2003
 Moisture %: -

Element Name	CAS No	Unit	RL	Result	C	M	Q	Batch	D-Date	A-Date	DF	Method
ARSENIC	7440-38-2	µg/L	5	2.7	B	F		03M1423E	05/02/03	05/02/03	1	200.9
CALCIUM	7440-70-2	µg/L	200	29300		P		03M1421M	05/02/03	05/02/03	1	200.7
IRON	7439-89-6	µg/L	50	26.1	B	P		03M1421M	05/02/03	05/02/03	1	200.7
MAGNESIUM	7439-95-4	µg/L	100	9050		P		03M1421M	05/02/03	05/02/03	1	200.7
POTASSIUM	7440-09-7	µg/L	400	1850		P		03M1421M	05/02/03	05/02/03	1	200.7
SODIUM	7440-23-5	µg/L	2000	38900		P		03M1421M	05/02/03	05/02/03	1	200.7

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: 032964

Sequence No.: 03M1421M

Instrument: ICP -M

Method: 200.7

Batch No.(s): 03M1421

Analysis Date: 05/02/03

Concentration Units: UG/L

#	Analyte	ICV 10:37			CCV 10:44			CCV 10:55			CCV 11:22		
		True	Result	%R	True	Result	%R	True	Result	%R	True	Result	%R
1	Calcium	100000.0	101474.19	101.5	50000.0	50194.23	100.4	50000.0	50152.68	100.3	50000.0	49767.75	99.5
2	Iron	10000.0	10196.16	102.0	5000.0	5147.33	102.9	5000.0	5206.46	104.1	5000.0	5272.79	105.5
3	Magnesium	50000.0	49248.16	98.5	25000.0	25347.94	101.4	25000.0	25908.25	103.6	25000.0	25608.27	102.4
4	Potassium	30000.0	29848.75	99.5	15000.0	15205.54	101.4	15000.0	15607.21	104.0	15000.0	15448.87	103.0
5	Sodium	200000.0	206815.06	103.4	100000.0	102387.51	102.4	100000.0	102741.90	102.7	100000.0	105114.37	105.1

(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: 032964

Sequence No.: 03M1421M

Instrument: ICP -M

Method: 200.7

Batch No.(s): 03M1421

Analysis Date: 05/02/03

Concentration Units: UG/L

#	Analyte	CCV 11:47			CCV 12:31								
		True	Result	%R	True	Result	%R	True	Result	%R	True	Result	%R
1	Calcium	50000.0	51060.12	102.1	50000.0	51090.77	102.2						
2	Iron	5000.0	5380.15	107.6	5000.0	5418.29	108.4						
3	Magnesium	25000.0	25417.48	101.7	25000.0	25888.35	103.6						
4	Potassium	15000.0	16140.98	107.6	15000.0	15643.31	104.3						
5	Sodium	100000.0	107168.85	107.2	100000.0	106793.66	106.8						

(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: 032964	Sequence No.: 03M1423E
Batch No.(s): 03M1423	Instrument: GFAA-E	Method: 200.9

Analysis Date: 05/02/03

Concentration Units: UG/L

#	Analyte	ICV 14:39			CCV 15:56			CCV 17:15			CCV 18:19		
		True	Result	%R	True	Result	%R	True	Result	%R	True	Result	%R
1	Arsenic	50.0	49.10	98.2	50.0	49.40	98.8	50.0	54.00	108.0	50.0	51.10	102.2

(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 Name: JPL
Batch No.(s): 03M1421

Project No: 04-4428.10
Service ID: 032964
Instrument: ICP -M

Lab Code: APCL
Sequence No.: 03M1421M
Method: 200.7

Analysis Date: 05/02/03

Concentration Units: UG/L

#	Analyte	True	10:48		Time	
			Found	R%	Found	R%
1	Calcium	1000.0	659.21	65.9		
2	Iron	50.0	46.52	93.0		
3	Magnesium		3.65			
4	Potassium		100.49			
5	Sodium		-48.65			

FORM-3 Metal
Applied P & Ch Laboratory
Metal ICB/CCB Summary

Client Name: GEOFON, Inc.
Project Name: JPL
Batch No.(s): 03M1421

Project No: 04-4428.10
Service ID: 032964
Instrument: ICP -M
Lab Code: APCL
Sequence No.: 03M1421M
Method: 200.7

Analysis Date: 05/02/03

Concentration Units: UG/L

#	Analyte	ICB 10:40		CCB 10:46		CCB 10:57		CCB 11:24		CCB 11:49	
		Result	C	Result	C	Result	C	Result	C	Result	C
1	Calcium	135.00	U	-226.82		-176.99	B	-251.81		135.00	U
2	Iron	-41.49	B	2.30	U	24.87	B	11.94	B	6.91	B
3	Magnesium	6.59	B	6.40	U	39.08	B	12.54	B	21.28	B
4	Potassium	100.18	B	108.27	B	107.19	B	113.21	B	104.65	B
5	Sodium	328.00	U	328.00	U	328.00	U	328.00	U	328.00	U

FORM-3 Metal
Applied P & Ch Laboratory
Metal ICB/CCB Summary

Client Name: GEOFON, Inc.
Project Name: JPL
Batch No.(s): 03M1421

Project No: 04-4428.10
Service ID: 032964
Instrument: ICP -M
Lab Code: APCL
Sequence No.: 03M1421M
Method: 200.7

Analysis Date: 05/02/03

Concentration Units: UG/L

#	Analyte	CCB 12:34		CCB Time		CCB Time		CCB Time		CCB Time	
		Result	C	Result	C	Result	C	Result	C	Result	C
1	Calcium	-144.69	B								
2	Iron	41.97	B								
3	Magnesium	33.66	B								
4	Potassium	120.94	B								
5	Sodium	328.00	U								

FORM-3 Metal
Applied P & Ch Laboratory
Metal ICB/CCB Summary

Client Name: GEOFON, Inc.

Project Name: JPL

Batch No.(s): 03M1423

Project No: 04-4428.10

Service ID: 032964

Instrument: GFAA-E

Lab Code: APCL

Sequence No.: 03M1423E

Method: 200.9

Analysis Date: 05/02/03

Concentration Units: UG/L

#	Analyte	ICB 14:46		CCB 16:02		CCB 17:22		CCB 18:26		CCB Time	
		Result	C	Result	C	Result	C	Result	C	Result	C
1	Arsenic	2.10	U	2.10	U	2.10	U	2.10	U		

FORM-4 Metal
Applied P & Ch Laboratory
ICP Interference Check Sample

Client Name: GEOFON, Inc.
Project Name: JPL

Project No: 04-4428.10
Service ID: 032964
ICP ID Number: ICP -M

Lab Code: APCL
Sequence No.: 03M1421M

Batch No.(s): 03M1421

Analysis Date: 05/02/03

Concentration Units: UG/L

#	Analyte	Expected		Initial	Found	%R	Final	Found	%R
		Sol. A	Sol. AB	10:50	10:53		12:16	12:29	
1	Calcium	500000	500000	515425	486581.3	97.3	510133	488682.2	97.7
2	Iron	200000	200000	189892	176853.5	88.4	192496	178430.0	89.2
3	Magnesium	500000	500000	483092	458182.8	91.6	482532	454444.7	90.9
4	Potassium	0	0	156	167.2		170	159.6	
5	Sodium	0	0	-293	-224.7		-216	-261.9	

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: 32964
Project ID: JPL	Project No: 04-4428.10	Sample Matrix: Water
	Batch No: 03M1423E	
MS Filename: -	Date Analyzed: 050203	Time Analyzed: 15:30
MSD Filename: -	Date Analyzed: 050203	Time Analyzed: 15:37
MS Sample No: MW-23-5	Sample Lab ID: 03-2987-6	

Spiked Components	Unit	Spike Added	Concentration		MS Rec% #	QC Limit, % REC
			Unspiked	MS		
ARSENIC	µg/L	50	3.2	56.4	106	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, %	
						RPD	REC
ARSENIC	µg/L	50	55.8	105	1	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 200.7

Client Name: GEOFON, Inc.

Contract No:

Lab Code: APCL

Case No:

SAS No:

Service ID: 32964

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03M1421M

MS Filename: -

Date Analyzed: 050203

Time Analyzed: 11:13

MSD Filename: -

Date Analyzed: 050203

Time Analyzed: 11:15

MS Sample No: MW-23-5

Sample Lab ID: 03-2987-6

Spiked Components	Unit	Spike Added	Concentration		MS Rec% #	QC Limit, % REC
			Unspiked	MS		
CALCIUM	µg/L	20000	5270	26800	108	75-125
IRON	µg/L	1000	189	1260	107	75-125
MAGNESIUM	µg/L	10000	450	10700	103	75-125
POTASSIUM	µg/L	5000	2530	8700	123	75-125
SODIUM	µg/L	40000	97700	142000	111	75-125
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	MSD Concentration	MSD Rec% #	RPD% #	QC Limit, %	
						RPD	REC
CALCIUM	µg/L	20000	26500	106	2	20	75-125
IRON	µg/L	1000	1260	107	0	20	75-125
MAGNESIUM	µg/L	10000	10700	103	0	20	75-125
POTASSIUM	µg/L	5000	8540	120	2	20	75-125
SODIUM	µg/L	40000	144000	116	4	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 Name: JPL
Spike Sample No. : 03-2987-06
Client Sample No.: MW-23-5

Project No: 04-4428.10
Service ID: 032964
Batch No.: 03M1421
Matrix: WATER
Analysis Date: 05/02/03

Lab Code: APCL
Sequence No.: 03M1421M
Method: 200.7
Instrument: ICP -M

Concentration Units: UG/L

#	Analyte	Spiked Sample Result(SSR)	11:18 C	Sample Result(SR)	11:06 C	Spike Added(SA)	% Rec.	Control Limit	Q
1	Calcium	26403.3594		5272.3296		20000.00	105.7	75-125	
2	Iron	1256.9731		189.0523		1000.00	106.8	75-125	
3	Magnesium	10915.2607		450.0708		10000.00	104.7	75-125	
4	Potassium	8759.2529		2525.3450		5000.00	124.7	75-125	
5	Sodium	143907.5781		97741.5859		40000.00	115.4	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: 032964	Sequence No.: 03M1423E
Spike Sample No. : 03-2987-06	Batch No.: 03M1423	Method: 200.9
Client Sample No.: MW-23-5	Matrix: WATER	Instrument: GFAA-E
	Analysis Date: 05/02/03	

Concentration Units: UG/L

#	Analyte	Spiked Sample 15:43		Sample 15:11		Spike Added(SA)	% Rec.	Control Limit	Q
		Result(SSR)	C	Result(SR)	C				
1	Arsenic	53.3000		3.2000	B	50.00	100.2	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: 032964	Sequence No.: 03M1421M
	Batch No.: 03M1421	Method: 200.7
Spike Sample No. 03-2987-06	Matrix: WATER	Instrument: ICP -M
Client Sample No. MW-23-5	% Solid: 0.00	Analysis Date: 05/02/03

Concentration Unit: UG/L

#	Analyte	11:06		11:09		RPD(%)	Q
		Sample(s)	C	Duplicate	C		
1	Calcium	5272.3296		5161.7686		2.1	
2	Iron	189.0523		185.3369		2.0	
3	Magnesium	450.0708		452.7576		0.6	
4	Potassium	2525.3450		2418.9983		4.3	
5	Sodium	97741.5859		98020.2188		0.3	

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:	032964	Sequence No.:	03M1423E
Spike Sample No.	03-2987-06	Batch No.:	03M1423	Method:	200.9
Client Sample No.	MW-23-5	Matrix:	WATER	Instrument:	GFAA-E
		% Solid:	0.00	Analysis Date:	05/02/03

Concentration Unit: UG/L

#	Analyte	15:11		15:17		RPD(%)	Q
		Sample(s)	C	Duplicate	C		
1	Arsenic	3.2000	B	3.0000	B	6.5	

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: 32964
Project ID: JPL	Project No: 04-4428.10	Sample Matrix: Water
	Batch No: 03M1423E	
LCS Filename: -	Date Analyzed: 050203	Time Analyzed: 14:58
LCSD Filename: -	Date Analyzed: 050203	Time Analyzed: 15:04

Spiked Components	Unit	Spike Added	Concentration		LCS Rec% #	QC Limit, % REC
			Unspiked	LCS		
ARSENIC	µg/L	50	0	47.4	95	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, %	
						RPD	REC
ARSENIC	µg/L	50	47.6	95	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: _____

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: 32964

Project ID: JPL

Project No: 04-4428.10

Sample Matrix: Water

Batch No: 03M1421M

LCS Filename: -

Date Analyzed: 050203

Time Analyzed: 11:02

LCSD Filename: -

Date Analyzed: 050203

Time Analyzed: 11:04

Spiked Components	Unit	Spike Added	Concentration		LCS Rec% #	QC Limit, % REC
			Unspiked	LCS		
CALCIUM	µg/L	20000	0	20200	101	80-120
IRON	µg/L	1000	0	1050	105	80-120
MAGNESIUM	µg/L	10000	0	10200	102	80-120
POTASSIUM	µg/L	5000	0	5270	105	80-120
SODIUM	µg/L	40000	0	39700	99	80-120
# of Out-of-control					0	

Spiked Components	Unit	Spike Added	LCSD Concentration	LCSD Rec% #	RPD% #	QC Limit, %	
						RPD	REC
CALCIUM	µg/L	20000	20500	103	2	20	80-120
IRON	µg/L	1000	1060	106	1	20	80-120
MAGNESIUM	µg/L	10000	9980	100	2	20	80-120
POTASSIUM	µg/L	5000	5160	103	2	20	80-120
SODIUM	µg/L	40000	40800	102	3	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: _____

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:	032964	Sequence No.:	03M1421M
		Batch No.:	03M1421	Method:	200.7
Dilution Sample No.:	03-2987-06	Matrix:	WATER	Instrument:	ICP -M
Client Sample No.:	MW-23-5	Analysis Date:	05/02/03		

Concentration Units: UG/L

#	Analyte	Initial Sample Results(I)	11:06 C	Serial Dilut Results(S)	11:11 C	% Diff.	Q
1	Calcium	5272.33		5252.51		0.4	
2	Iron	189.05		231.27	B	22.3	E
3	Magnesium	450.07		552.43		22.7	E
4	Potassium	2525.34		2224.24		11.9	E
5	Sodium	97741.59		96143.76		1.6	

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:	032964	Sequence No.:	03M1423E
		Batch No.:	03M1423	Method:	200.9
Dilution Sample No.:	03-2987-06	Matrix:	WATER	Instrument:	GFAA-E
Client Sample No.:	MW-23-5	Analysis Date:	05/02/03		

Concentration Units: UG/L

#	Analyte	Initial Sample Results(I)	15:11 C	Serial Dilut Results(S)	15:24 C	% Diff.	Q
1	Arsenic	3.20	B	2.50	U	100.0	

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: 032964	Sequence No.: 03M1421M
	Batch No.: 03M1421	Method: 200.7
Preparation Matrix: WATER	Instrument: ICP -M	

#	Client Sample No.	APCL Sample No.	Preparation Date	Weight (gram)	Volume (ml)
1	DUPE-4-2Q03	03-2964-01	05/02/03		50.0
2	EB-7-4/29/03	03-2964-02	05/02/03		50.0
3	MW-24-1	03-2964-03	05/02/03		50.0
4	MW-24-2	03-2964-04	05/02/03		50.0
5	MW-24-3	03-2964-05	05/02/03		50.0
6	MW-24-4	03-2964-06	05/02/03		50.0
7	MW-24-5	03-2964-07	05/02/03		50.0
8	MW-23-5	03-2987-06DM	05/02/03		50.0
9	EB-8-4/30/03	03-2987-01	05/02/03		50.0
10	MW-23-1	03-2987-02	05/02/03		50.0
11	MW-23-2	03-2987-03	05/02/03		50.0
12	MW-23-3	03-2987-04	05/02/03		50.0
13	MW-23-4	03-2987-05	05/02/03		50.0
14	DUPE-5-2Q03	03-3015-01	05/02/03		50.0
15	EB-9-5/1/03	03-3015-02	05/02/03		50.0
16	MW-3-1	03-3015-03	05/02/03		50.0
17	MW-3-2	03-3015-04	05/02/03		50.0
18	MW-3-3	03-3015-05	05/02/03		50.0
19	MW-3-4	03-3015-06	05/02/03		50.0
20	MW-3-5	03-3015-07	05/02/03		50.0
21		03M1421MB	05/02/03		50.0
22		03M1421LCS	05/02/03		50.0
23		03M1421LCSD	05/02/03		50.0
24	MW-23-5 Dup.	03M1421MD	05/02/03		50.0
25	MW-23-5 MS	03M1421MS	05/02/03		50.0
26	MW-23-5 MSD	03M1421MSD	05/02/03		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: 032964	Sequence No.: 03M1423E
	Batch No.: 03M1423	Method: 200.9
Preparation Matrix: WATER	Instrument: GFAA-E	

#	Client Sample No.	APCL Sample No.	Preparation Date	Weight (gram)	Volume (ml)
1	DUPE-4-2Q03	03-2964-01	05/02/03		50.0
2	EB-7-4/29/03	03-2964-02	05/02/03		50.0
3	MW-24-1	03-2964-03	05/02/03		50.0
4	MW-24-2	03-2964-04	05/02/03		50.0
5	MW-24-3	03-2964-05	05/02/03		50.0
6	MW-24-4	03-2964-06	05/02/03		50.0
7	MW-24-5	03-2964-07	05/02/03		50.0
8	MW-23-5	03-2987-06DM	05/02/03		50.0
9	EB-8-4/30/03	03-2987-01	05/02/03		50.0
10	MW-23-1	03-2987-02	05/02/03		50.0
11	MW-23-2	03-2987-03	05/02/03		50.0
12	MW-23-3	03-2987-04	05/02/03		50.0
13	MW-23-4	03-2987-05	05/02/03		50.0
14	DUPE-5-2Q03	03-3015-01	05/02/03		50.0
15	EB-9-5/1/03	03-3015-02	05/02/03		50.0
16	MW-3-1	03-3015-03	05/02/03		50.0
17	MW-3-2	03-3015-04	05/02/03		50.0
18	MW-3-3	03-3015-05	05/02/03		50.0
19	MW-3-4	03-3015-06	05/02/03		50.0
20	MW-3-5	03-3015-07	05/02/03		50.0
21		03M1423MB	05/02/03		50.0
22		03M1423LCS	05/02/03		50.0
23		03M1423LCSD	05/02/03		50.0
24	MW-23-5 Dup.	03M1423MD	05/02/03		50.0
25	MW-23-5 MS	03M1423MS	05/02/03		50.0
26	MW-23-5 MSD	03M1423MSD	05/02/03		50.0

FORM-14 Metal
Applied P & Ch Laboratory
Analysis Run Log

Client Name: GEOFON, Inc.
Project Name: JPL

Project No: 04-4428.10
Service ID: 032964
Instrument: ICP -M
Start Date: 05/02/03

Lab Code: APCL
Sequence No.: 03M1421M
Method: 200.7
End Date: 05/02/03

Batch No.(s): 03M1421

#	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	10:28							✓				✓		✓				✓			✓										
2	STD1 1423A	1.00	10:30							✓				✓		✓				✓			✓										
3	STD2 1423B	1.00	10:33							✓				✓		✓				✓			✓										
4	STD3 1423C	1.00	10:35							✓				✓		✓				✓			✓										
5	ICV 1447A	1.00	10:37							✓				✓		✓				✓			✓										
6	ICB	1.00	10:40							✓				✓		✓				✓			✓										
7	Calib Blank	1.00	10:42							✓				✓		✓				✓			✓										
8	CCV 1447B	1.00	10:44							✓				✓		✓				✓			✓										
9	CCB	1.00	10:46							✓				✓		✓				✓			✓										
10	CRI A1432	1.00	10:48							✓				✓		✓				✓			✓										
11	ICSA 1441	1.00	10:50							✓				✓		✓				✓			✓										
12	ICSAB 1443	1.00	10:53							✓				✓		✓				✓			✓										
13	CCV 1447B	1.00	10:55							✓				✓		✓				✓			✓										
14	CCB	1.00	10:57							✓				✓		✓				✓			✓										
15	M-BL 03M1421 W	1.00	10:59							✓				✓		✓				✓			✓										
16	LCS-03M1421	1.00	11:02							✓				✓		✓				✓			✓										
17	LCS-03M1421	1.00	11:04							✓				✓		✓				✓			✓										
18	2987-6 S F=1	1.00	11:06							✓				✓		✓				✓			✓										
19	2987-6 D F=1	1.00	11:09							✓				✓		✓				✓			✓										
20	2987-6 1/5 F=5	5.00	11:11							✓				✓		✓				✓			✓										
21	2987-6 MS F=1	1.00	11:13							✓				✓		✓				✓			✓										
22	2987-6 MSD F=1	1.00	11:15							✓				✓		✓				✓			✓										
23	2987-6 PS F=1	1.00	11:18							✓				✓		✓				✓			✓										
24	2987-1 F=1	1.00	11:20							✓				✓		✓				✓			✓										
25	CCV 1447B	1.00	11:22							✓				✓		✓				✓			✓										
26	CCB	1.00	11:24							✓				✓		✓				✓			✓										
27	2987-2 F=1	1.00	11:27							✓				✓		✓				✓			✓										
28	2987-3 F=1	1.00	11:29							✓				✓		✓				✓			✓										
29	2987-4 F=1	1.00	11:31							✓				✓		✓				✓			✓										
30	2987-5 F=1	1.00	11:33							✓				✓		✓				✓			✓										
31	2964-1 F=1	1.00	11:36							✓				✓		✓				✓			✓										
32	2964-2 F=1	1.00	11:38							✓				✓		✓				✓			✓										
33	2964-3 F=1	1.00	11:40							✓				✓		✓				✓			✓										
34	2964-4 F=1	1.00	11:42							✓				✓		✓				✓			✓										
35	2964-5 F=1	1.00	11:45							✓				✓		✓				✓			✓										
36	CCV 1447B	1.00	11:47							✓				✓		✓				✓			✓										
37	CCB	1.00	11:49							✓				✓		✓				✓			✓										
38	2964-6 F=1	1.00	11:52							✓				✓		✓				✓			✓										
39	2964-7 F=1	1.00	11:58							✓				✓		✓				✓			✓										
40	3015-1 F=1	1.00	12:00							✓				✓		✓				✓			✓										

FORM-14 Metal
Applied P & Ch Laboratory
Analysis Run Log

Client Name: GEOFON, Inc.
Project Name: JPL

Project No: 04-4428.10
Service ID: 032964
Instrument: ICP -M
Start Date: 05/02/03

Lab Code: APCL
Sequence No.: 03M1421M
Method: 200.7
End Date: 05/02/03

Batch No.(s): 03M1421

#	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	3015-2 F=1	1.00	12:02							✓				✓		✓					✓		✓										
42	3015-3 F=1	1.00	12:04							✓				✓		✓					✓		✓										
43	3015-4 F=1	1.00	12:07							✓				✓		✓					✓		✓										
44	3015-5 F=1	1.00	12:09							✓				✓		✓					✓		✓										
45	3015-6 F=1	1.00	12:11							✓				✓		✓					✓		✓										
46	3015-7 F=1	1.00	12:13							✓				✓		✓					✓		✓										
47	ICSA 1441	1.00	12:16							✓				✓		✓					✓		✓										
48	ICSAB 1443	1.00	12:29							✓				✓		✓					✓		✓										
49	CCV 1447B	1.00	12:31							✓				✓		✓					✓		✓										
50	CCB	1.00	12:34							✓				✓		✓					✓		✓										

FORM-14 Metal
Applied P & Ch Laboratory
Analysis Run Log

Client Name: GEOFON, Inc.
Project Name: JPL
Batch No.(s): 03M1423

Project No: 04-4428.10
Service ID: 032964
Instrument: GFAA-E
Start Date: 05/02/03

Lab Code: APCL
Sequence No.: 03M1423E
Method: 200.9
End Date: 05/02/03

#	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	14:05			✓																											
2	1/2 STD1 1472A	1.00	14:11			✓																											
3	STD1 1472A	1.00	14:17			✓																											
4	STD2 1472B	1.00	14:23			✓																											
5	STD3 1472C	1.00	14:30			✓																											
6	ICV A1474	1.00	14:39			✓																											
7	ICB	1.00	14:46			✓																											
8	M-BL 03M1423	1.00	14:52			✓																											
9	LCS-03M1423	1.00	14:58			✓																											
10	LCSD-03M1423	1.00	15:04			✓																											
11	2987-6 S F=1	1.00	15:11			✓																											
12	2987-6 D F=1	1.00	15:17			✓																											
13	2987-6 1/5 F=5	5.00	15:24			✓																											
14	2987-6 MS F=1	1.00	15:30			✓																											
15	2987-6 MSD F=1	1.00	15:37			✓																											
16	2987-6 PS F=1	1.00	15:43			✓																											
17	2987-1 F=1	1.00	15:50			✓																											
18	CCV A1474	1.00	15:56			✓																											
19	CCB	1.00	16:02			✓																											
20	2987-2 F=1	1.00	16:09			✓																											
21	2987-3 F=1	1.00	16:15			✓																											
22	2987-4 F=1	1.00	16:21			✓																											
23	2987-5 F=1	1.00	16:27			✓																											
24	2964-1 F=1	1.00	16:34			✓																											
25	2964-2 F=1	1.00	16:40			✓																											
26	2964-3 F=1	1.00	16:46			✓																											
27	2964-4 F=1	1.00	16:52			✓																											
28	2964-5 F=1	1.00	17:02			✓																											
29	2964-6 F=1	1.00	17:09			✓																											
30	CCV A1474	1.00	17:15			✓																											
31	CCB	1.00	17:22			✓																											
32	2964-7 F=1	1.00	17:28			✓																											
33	3015-1 F=1	1.00	17:34			✓																											
34	3015-2 F=1	1.00	17:41			✓																											
35	3015-3 F=1	1.00	17:47			✓																											
36	3015-4 F=1	1.00	17:54			✓																											
37	3015-5 F=1	1.00	18:00			✓																											
38	3015-6 F=1	1.00	18:07			✓																											
39	3015-7 F=1	1.00	18:13			✓																											
40	CCV A1474	1.00	18:19			✓																											

ICP RAW DATA

Method - SME-1 ICP-M

SIF File - 03m1421m

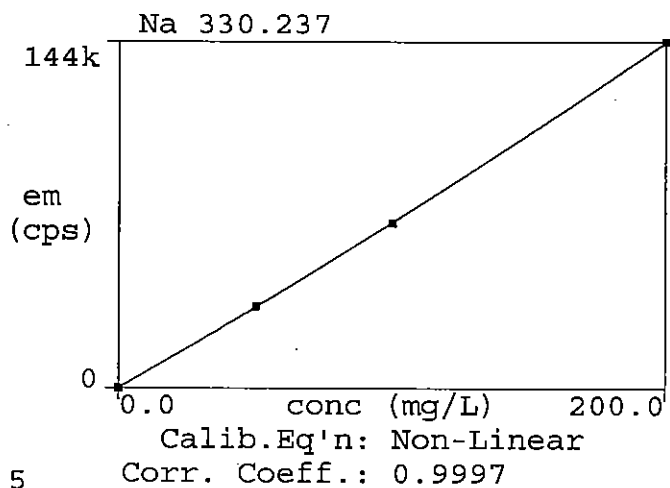
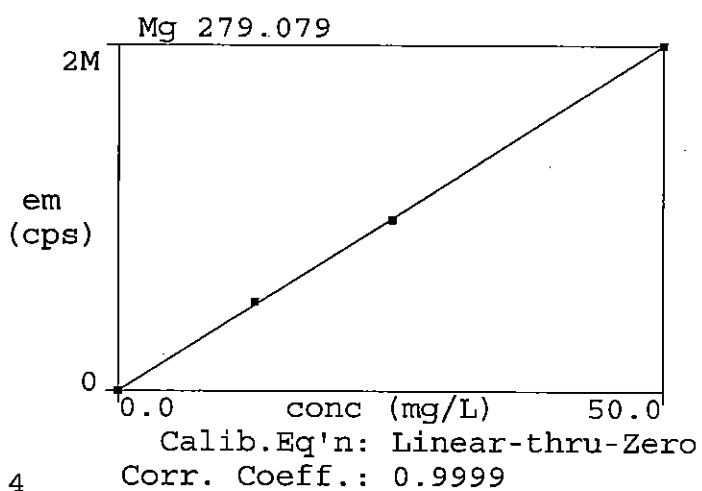
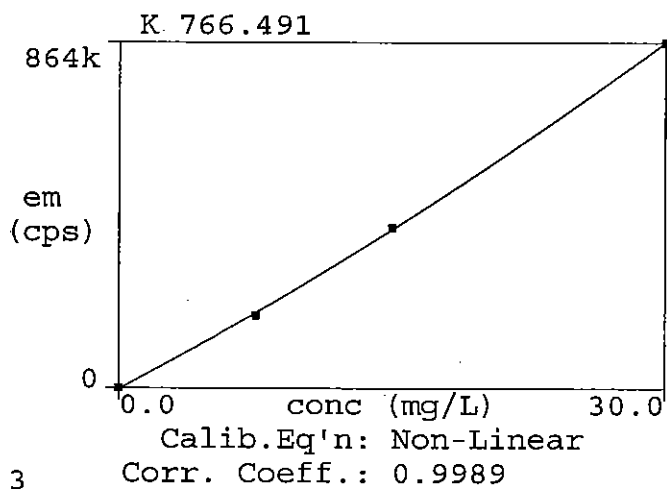
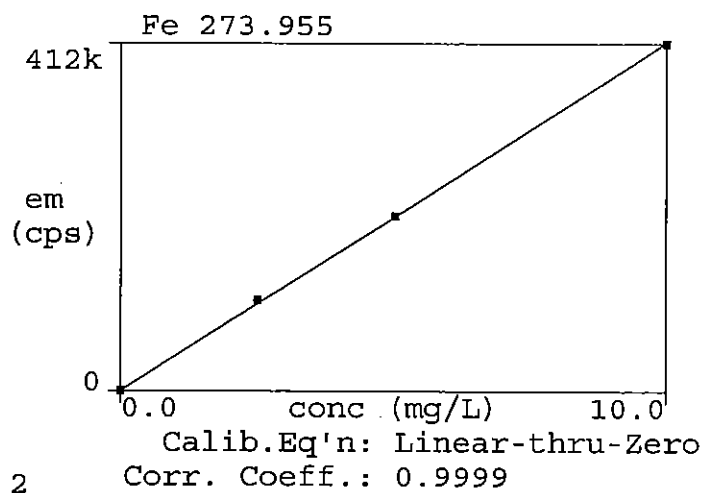
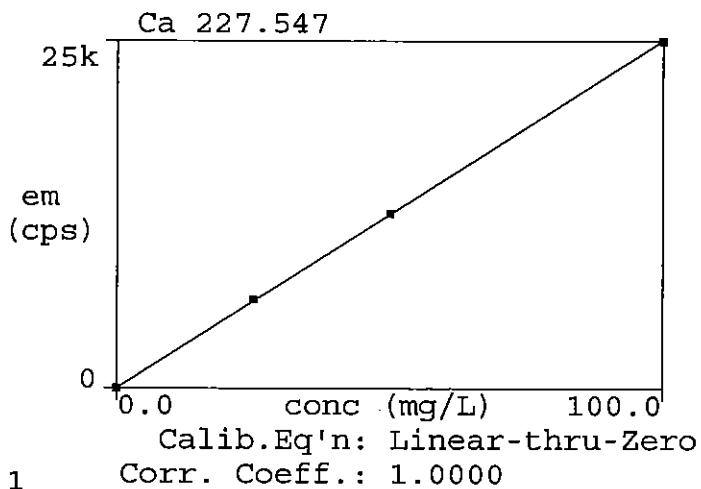
Seq #	A/S Loc	ID	Category
1	1	Calib Blank	Calib Blank
2	2	STD1 1423A	Calib Std.
3	3	STD2 1423B	Calib Std.
4	4	STD3 1423C	Calib Std.
5	5	ICV 1447A	QC
6	1	ICB	QC
7	9	CRI A1432	QC
8	7	ICSA 1441	QC
9	8	ICSAB 1443	QC
10	6	CCV 1447B	QC
11	1	CCB	QC
12	10	M-BL 03M1421	Sample
13	11	LCS-03M1421	Recovery
14	12	LCSD-03M1421	Recovery
15	13	2987-6 S F=1	Sample
16	14	2987-6 D F=1	Duplicate
17	15	2987-6 1/5 F=5	Sample
18	16	2987-6 MS F=1	Recovery
19	17	2987-6 MSD F=1	Recovery
20	18	2987-6 PS F=1	Recovery
21	19	2987-1 F=1	Sample
22	6	CCV 1447B	QC
23	1	CCB	QC
24	20	2987-2 F=1	Sample
25	21	2987-3 F=1	Sample
26	22	2987-4 F=1	Sample
27	23	2987-5 F=1	Sample
28	24	2964-1 F=1	Sample
29	25	2964-2 F=1	Sample
30	26	2964-3 F=1	Sample
31	27	2964-4 F=1	Sample
32	28	2964-5 F=1	Sample
33	6	CCV 1447B	QC
34	1	CCB	QC
35	29	2964-6 F=1	Sample
36	30	2964-7 F=1	Sample
37	31	3015-1 F=1	Sample
38	32	3015-2 F=1	Sample
39	33	3015-3 F=1	Sample
40	34	3015-4 F=1	Sample
41	35	3015-5 F=1	Sample
42	36	3015-6 F=1	Sample
43	37	3015-7 F=1	Sample
44	7	ICSA 1441	QC
45	8	ICSAB 1443	QC
46	6	CCV 1447B	QC
47	1	CCB	QC
48	38	Sample29	Sample

03m1421m

Calibration

Method: SME-1 ICP-M

Result: 03M1421M



Method: SME-1 ICP-M

IEC: 03miecm.iec

MSF:

Results: 03M1421M

Spectra Stored: Yes

Method Stored: Yes

Sample Info: 03m1421m

User: User1

Date: 5/2/03

10:27:18 AM

Method Description: 6010B/200.7--KNaCaMgFe

4/16/03

Replicate Data

ID: Calib Blank

Date: 5/2/03

10:28:18 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units
1	Ca 227.547	1683.5	1683.5	0 mg/L
1	Fe 273.955	2891.4	2891.4	0 mg/L
1	K 766.491	3383.6	3383.6	0 mg/L
1	Mg 279.079	967.0	967.0	0 mg/L
1	Na 330.237	5609.7	5609.7	0 mg/L
2	Ca 227.547	1683.2	1683.2	0 mg/L
2	Fe 273.955	2835.6	2835.6	0 mg/L
2	K 766.491	3212.6	3212.6	0 mg/L
2	Mg 279.079	964.6	964.6	0 mg/L
2	Na 330.237	5860.3	5860.3	0 mg/L
3	Ca 227.547	1623.2	1623.2	0 mg/L
3	Fe 273.955	3103.5	3103.5	0 mg/L
3	K 766.491	3305.9	3305.9	0 mg/L
3	Mg 279.079	973.6	973.6	0 mg/L
3	Na 330.237	5665.1	5665.1	0 mg/L

Mean Data

ID: Calib Blank

Seq. No.: 1

A/S Pos: 1

Data: Original

Date: 5/2/03

10:28:18 AM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Calib Conc. Units
Ca 227.547	1663.3	34.75	2.09%	0 mg/L
Fe 273.955	2943.5	141.31	4.80%	0 mg/L
K 766.491	3300.7	85.60	2.59%	0 mg/L
Mg 279.079	968.4	4.69	0.48%	0 mg/L
Na 330.237	5711.7	131.64	2.30%	0 mg/L

Replicate Data

ID: STD1 1423A

Date: 5/2/03

10:30:34 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units
1	Ca 227.547	26874.5	25211.2	100.0 mg/L
1	Fe 273.955	417719.0	414775.5	10.00 mg/L
1	K 766.491	873840.7	870540.0	30.00 mg/L
1	Mg 279.079	2249098.3	2248129.9	50.00 mg/L
1	Na 330.237	150236.1	144524.4	200.00 mg/L
2	Ca 227.547	26837.6	25174.3	100.0 mg/L
2	Fe 273.955	417636.2	414692.7	10.00 mg/L
2	K 766.491	853410.3	850109.6	30.00 mg/L
2	Mg 279.079	2160931.4	2159963.0	50.00 mg/L
2	Na 330.237	150287.9	144576.2	200.00 mg/L
3	Ca 227.547	26382.4	24719.1	100.0 mg/L
3	Fe 273.955	409751.5	406808.1	10.00 mg/L
3	K 766.491	875846.8	872546.1	30.00 mg/L
3	Mg 279.079	2195445.8	2194477.4	50.00 mg/L
3	Na 330.237	147478.5	141766.8	200.00 mg/L

Mean Data

ID: STD1 1423A

Seq. No.: 2

A/S Pos: 2

Data: Original

Date: 5/2/03

10:30:34 AM

Mean Corr.

Calib

Element	Intensity	Std.Dev.	RSD	Conc.	Units
Ca 227.547	25034.9	274.11	1.09%	100.0	mg/L
Fe 273.955	412092.1	4576.31	1.11%	10.00	mg/L
K 766.491	864398.6	12415.18	1.44%	30.00	mg/L
Mg 279.079	2200856.7	44428.29	2.02%	50.00	mg/L
Na 330.237	143622.5	1607.24	1.12%	200.00	mg/L

Replicate Data

ID: STD2 1423B

Date: 5/2/03

10:32:58 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Units
1	Ca 227.547	14150.8	12487.5	50.00	mg/L
1	Fe 273.955	209193.2	206249.7	5.000	mg/L
1	K 766.491	415242.2	411941.5	15.00	mg/L
1	Mg 279.079	1085301.4	1084333.0	25.000	mg/L
1	Na 330.237	73708.7	67997.0	100.00	mg/L
2	Ca 227.547	14389.4	12726.1	50.00	mg/L
2	Fe 273.955	211737.6	208794.1	5.000	mg/L
2	K 766.491	396682.3	393381.7	15.00	mg/L
2	Mg 279.079	1107582.7	1106614.3	25.000	mg/L
2	Na 330.237	74422.8	68711.1	100.00	mg/L
3	Ca 227.547	14295.4	12632.1	50.00	mg/L
3	Fe 273.955	211256.2	208312.7	5.000	mg/L
3	K 766.491	408370.7	405070.0	15.00	mg/L
3	Mg 279.079	1088615.8	1087647.4	25.000	mg/L
3	Na 330.237	74590.2	68878.5	100.00	mg/L

Mean Data

ID: STD2 1423B

Seq. No.: 3

A/S Pos: 3

Data: Original

Date: 5/2/03

10:32:58 AM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Conc.	Units
Ca 227.547	12615.2	120.19	0.95%	50.00	mg/L
Fe 273.955	207785.5	1351.65	0.65%	5.000	mg/L
K 766.491	403464.4	9383.51	2.33%	15.00	mg/L
Mg 279.079	1092864.9	12022.09	1.10%	25.000	mg/L
Na 330.237	68528.9	468.15	0.68%	100.00	mg/L

Replicate Data

ID: STD3 1423C

Date: 5/2/03

10:35:18 AM

Repl#	Element	Net Intensity	Corrected Intensity	Conc.	Units
1	Ca 227.547	7978.4	6315.1	25.00	mg/L
1	Fe 273.955	109574.3	106630.8	2.500	mg/L
1	K 766.491	185169.3	181868.6	7.500	mg/L
1	Mg 279.079	569579.7	568611.3	12.500	mg/L
1	Na 330.237	39186.4	33474.7	50.00	mg/L
2	Ca 227.547	8264.4	6601.1	25.00	mg/L
2	Fe 273.955	115002.0	112058.5	2.500	mg/L
2	K 766.491	186956.5	183655.8	7.500	mg/L
2	Mg 279.079	574884.5	573916.1	12.500	mg/L
2	Na 330.237	40854.9	35143.2	50.00	mg/L
3	Ca 227.547	7965.4	6302.1	25.00	mg/L
3	Fe 273.955	108651.2	105707.7	2.500	mg/L
3	K 766.491	186193.3	182892.7	7.500	mg/L
3	Mg 279.079	570565.3	569596.9	12.500	mg/L
3	Na 330.237	38703.6	32991.9	50.00	mg/L

Mean Data

ID: STD3 1423C

Seq. No.: 4

A/S Pos: 4

Data: Original

Date: 5/2/03

10:35:18 AM

Mean Corr.

Calib

Element	Intensity	Std.Dev.	RSD	Conc.	Units
Ca 227.547	6406.1	169.01	2.64%	25.00	mg/L
Fe 273.955	108132.3	3431.32	3.17%	2.500	mg/L
K 766.491	182805.7	896.76	0.49%	7.500	mg/L
Mg 279.079	570708.1	2821.59	0.49%	12.500	mg/L
Na 330.237	33869.9	1128.81	3.33%	50.00	mg/L

Calibration Summary

Method: 5ME-1 ICP-M

Date: 5/2/03

10:35:37 AM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ca 227.547	3	Linear-thru-Zero	0.0	251.0	0.00000	0.999963
Fe 273.955	3	Linear-thru-Zero	0.0	41372.8	0.00000	0.999863
K 766.491	3	Non-Linear	-2562.1	24526.5	146.68897	0.998878
Mg 279.079	3	Linear-thru-Zero	0.0	44037.6	0.00000	0.999910
Na 330.237	3	Non-Linear	93.0	654.9	0.31274	0.999656

Replicate Data

ID: ICV 1447A

Date: 5/2/03

10:37:40 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	27296.9	25633.6	102.1	mg/L		
1	Fe 273.955	427045.8	424102.3	10.25	mg/L		
1	K 766.491	861431.3	858130.6	29.79	mg/L		
1	Mg 279.079	2168735.5	2167767.1	49.23	mg/L		
1	Na 330.237	155322.5	149610.8	207.7	mg/L		
2	Ca 227.547	27623.7	25960.4	103.4	mg/L		
2	Fe 273.955	429794.2	426850.7	10.32	mg/L		
2	K 766.491	876922.5	873621.9	30.25	mg/L		
2	Mg 279.079	2158608.0	2157639.6	49.00	mg/L		
2	Na 330.237	156764.6	151052.9	209.5	mg/L		
3	Ca 227.547	26480.1	24816.8	98.87	mg/L		
3	Fe 273.955	417521.4	414577.9	10.02	mg/L		
3	K 766.491	852235.0	848934.3	29.51	mg/L		
3	Mg 279.079	2181870.8	2180902.4	49.52	mg/L		
3	Na 330.237	151820.7	146109.0	203.2	mg/L		

Mean Data

ID: ICV 1447A

Sample Qty: 1.0000 g

Seq. No.: 5

Sample No.: 1

A/S Pos: 5

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 5/2/03 10:37:40 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	25470.2	101.5	2.35	mg/L				2.31%
Fe 273.955	421843.6	10.20	0.156	mg/L				1.53%
K 766.491	860228.9	29.85	0.375	mg/L				1.26%
Mg 279.079	2168769.7	49.25	0.265	mg/L				0.54%
Na 330.237	148924.2	206.8	3.24	mg/L				1.57%

Replicate Data

ID: ICB

Date: 5/2/03

10:40:43 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	1687.1	23.8	0.0949	mg/L		
1	Fe 273.955	1199.7	-1743.8	-0.0421	mg/L		
1	K 766.491	3161.7	-139.0	0.0987	mg/L		
1	Mg 279.079	1273.6	305.2	0.0069	mg/L		
1	Na 330.237	5494.8	-216.9	-0.4733	mg/L		
2	Ca 227.547	1643.9	-19.4	-0.0772	mg/L		
2	Fe 273.955	1161.5	-1781.9	-0.0431	mg/L		
2	K 766.491	3390.7	90.0	0.1081	mg/L		
2	Mg 279.079	1175.4	207.0	0.0047	mg/L		

2 Na 330.237	5885.1	173.4	0.1228 mg/L
3 Ca 227.547	1706.6	43.3	0.1724 mg/L
3 Fe 273.955	1319.3	-1624.2	-0.0393 mg/L
3 K 766.491	3039.3	-261.4	0.0938 mg/L
3 Mg 279.079	1326.2	357.8	0.0081 mg/L
3 Na 330.237	5662.1	-49.6	-0.2177 mg/L

Mean Data

ID: ICB
 Sample Qty: 1.0000 g
 Seq. No.: 6
 Prep. Vol.:
 Data: Original
 Sample No.: 2
 1.0 L
 A/S Pos: 1
 Dilution: 1.0: 1.0
 Date: 5/2/03 10:40:43 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	15.9	0.0634	0.12774	mg/L				201.62%
Fe 273.955	-1716.6	-0.0415	0.00199	mg/L				4.79%
K 766.491	-103.5	0.1002	0.00726	mg/L				7.25%
Mg 279.079	290.0	0.0066	0.00174	mg/L				26.40%
Na 330.237	-31.0	-0.1894	0.29905	mg/L				157.92%

Replicate Data

ID: Calib Blank
 Date: 5/2/03 10:42:47 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units
1	Ca 227.547	1645.4	1645.4	0	mg/L
1	Fe 273.955	1223.7	1223.7	0	mg/L
1	K 766.491	3785.0	3785.0	0	mg/L
1	Mg 279.079	1507.4	1507.4	0	mg/L
1	Na 330.237	5710.9	5710.9	0	mg/L
2	Ca 227.547	1807.8	1807.8	0	mg/L
2	Fe 273.955	1148.7	1148.7	0	mg/L
2	K 766.491	3391.0	3391.0	0	mg/L
2	Mg 279.079	1506.6	1506.6	0	mg/L
2	Na 330.237	5590.4	5590.4	0	mg/L
3	Ca 227.547	1726.1	1726.1	0	mg/L
3	Fe 273.955	1163.8	1163.8	0	mg/L
3	K 766.491	3005.2	3005.2	0	mg/L
3	Mg 279.079	1504.6	1504.6	0	mg/L
3	Na 330.237	5803.8	5803.8	0	mg/L

Mean Data

ID: Calib Blank
 Seq. No.: 1
 Data: Original
 A/S Pos: 1
 Date: 5/2/03 10:42:47 AM

Element	Mean Corr. Intensity	Std.Dev.	RSD	Calib Conc.	Units
Ca 227.547	1726.4	81.17	4.70%	0	mg/L
Fe 273.955	1178.7	39.70	3.37%	0	mg/L
K 766.491	3393.7	389.91	11.49%	0	mg/L
Mg 279.079	1506.2	1.43	0.09%	0	mg/L
Na 330.237	5701.7	106.99	1.88%	0	mg/L

Calibration Summary

Method: 5ME-1 ICP-M
 Date: 5/2/03 10:43:03 AM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ca 227.547	3	Linear-thru-Zero	0.0	251.0	0.00000	0.999963
Fe 273.955	3	Linear-thru-Zero	0.0	41372.8	0.00000	0.999863
K 766.491	3	Non-Linear	-2562.1	24526.5	146.68897	0.998878
Mg 279.079	3	Linear-thru-Zero	0.0	44037.6	0.00000	0.999910
Na 330.237	3	Non-Linear	93.0	654.9	0.31274	0.999656

Calibration Summary

Method: 5ME-1 ICP-M
 Date: 5/2/03 10:43:14 AM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ca 227.547	3	Linear-thru-Zero	0.0	251.0	0.00000	0.999963
Fe 273.955	3	Linear-thru-Zero	0.0	41372.8	0.00000	0.999863
K 766.491	3	Non-Linear	-2562.1	24526.5	146.68897	0.998878
Mg 279.079	3	Linear-thru-Zero	0.0	44037.6	0.00000	0.999910
Na 330.237	3	Non-Linear	93.0	654.9	0.31274	0.999656

Replicate Data

ID: CCV 1447B

Date: 5/2/03

10:44:16 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	14033.7	12307.2	49.03 mg/L	
1	Fe 273.955	209674.9	208496.2	5.039 mg/L	
1	K 766.491	406752.3	403358.6	15.17 mg/L	
1	Mg 279.079	1132939.5	1131433.3	25.69 mg/L	
1	Na 330.237	74251.4	68549.7	99.77 mg/L	
2	Ca 227.547	14485.7	12759.2	50.83 mg/L	
2	Fe 273.955	217167.9	215989.2	5.221 mg/L	
2	K 766.491	409484.9	406091.2	15.27 mg/L	
2	Mg 279.079	1093021.4	1091515.3	24.79 mg/L	
2	Na 330.237	77333.5	71631.8	104.1 mg/L	
3	Ca 227.547	14456.5	12730.1	50.72 mg/L	
3	Fe 273.955	215571.7	214393.0	5.182 mg/L	
3	K 766.491	406821.2	403427.5	15.18 mg/L	
3	Mg 279.079	1127343.2	1125837.0	25.57 mg/L	
3	Na 330.237	76812.4	71110.7	103.3 mg/L	

Mean Data

ID: CCV 1447B

Sample Qty: 1.0000 g

Seq. No.: 10

Sample No.: 5

A/S Pos: 6

Prep. Vol.: 1.0 L

Dilution: 1.0:

1.0

Data: Original

Date: 5/2/03

10:44:16 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	12598.9	50.19	1.008	mg/L				2.01%
Fe 273.955	212959.4	5.147	0.0954	mg/L				1.85%
K 766.491	404292.4	15.21	0.054	mg/L				0.35%
Mg 279.079	1116261.9	25.35	0.491	mg/L				1.94%
Na 330.237	70430.7	102.4	2.30	mg/L				2.24%

Replicate Data

ID: CCB

Date: 5/2/03

10:46:35 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	1569.1	-157.3	-0.6268 mg/L	
1	Fe 273.955	1155.3	-23.4	-0.0006 mg/L	
1	K 766.491	3088.1	-305.6	0.0920 mg/L	
1	Mg 279.079	1625.8	119.6	0.0027 mg/L	
1	Na 330.237	5696.6	-5.1	-0.1498 mg/L	
2	Ca 227.547	1767.2	40.8	0.1626 mg/L	
2	Fe 273.955	1109.5	-69.2	-0.0017 mg/L	
2	K 766.491	3747.4	353.7	0.1188 mg/L	
2	Mg 279.079	1622.7	116.5	0.0026 mg/L	
2	Na 330.237	5863.3	161.6	0.1048 mg/L	
3	Ca 227.547	1672.1	-54.3	-0.2163 mg/L	
3	Fe 273.955	1151.5	-27.2	-0.0007 mg/L	
3	K 766.491	3631.1	237.5	0.1141 mg/L	
3	Mg 279.079	1800.1	293.9	0.0067 mg/L	
3	Na 330.237	5519.9	-181.8	-0.4196 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: 5/2/03 10:46:35 AM

Table with 8 columns: Element, Mean Corr. Intensity, Mean Conc., Std.Dev., Calib Units, Mean Conc., Std.Dev. Units, Sample RSD. Rows include Ca, Fe, K, Mg, Na with their respective values.

Calibration Summary

Method: SME-1 ICP-M Date: 5/2/03 10:47:12 AM

Table with 7 columns: Element, Stds, Equation, Intercept, Slope, Curvature, Corr. Coeff. Rows include Ca, Fe, K, Mg, Na with their calibration parameters.

Replicate Data

ID: CRI A1432 Date: 5/2/03 10:48:09 AM

Table with 6 columns: Repl#, Element, Net Intensity, Corrected Intensity, Calib Conc. Units, Sample Conc. Units. Multiple rows for elements Ca, Fe, K, Mg, Na across replicates 1, 2, and 3.

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: 5/2/03 10:48:09 AM

Table with 8 columns: Element, Mean Corr. Intensity, Mean Conc., Std.Dev., Calib Units, Mean Conc., Std.Dev. Units, Sample RSD. Rows include Ca, Fe, K, Mg, Na with their mean values.

Replicate Data

ID: ICSA 1441 Date: 5/2/03 10:50:26 AM

Table with 6 columns: Repl#, Element, Net Intensity, Corrected Intensity, Calib Conc. Units, Sample Conc. Units. Rows include Ca, Fe, K, Mg, Na across replicates 1.

2 Ca 227.547	128745.4	127019.0	509.8 mg/L
2 Fe 273.955	7912380.4	7911201.7	191.2 mg/L
2 K 766.491	4502.4	1108.8	0.1495 mg/L
2 Mg 279.079	21427359.4	21425853.2	486.5 mg/L
2 Na 330.237	5469.1	-232.6	-0.4972 mg/L
3 Ca 227.547	132293.4	130566.9	523.9 mg/L
3 Fe 273.955	7847053.2	7845874.5	189.6 mg/L
3 K 766.491	4489.4	1095.7	0.1490 mg/L
3 Mg 279.079	21285362.3	21283856.2	483.3 mg/L
3 Na 330.237	5654.0	-47.7	-0.2148 mg/L

Mean Data

ID: ICSA 1441

Sample Qty: 1.0000 g

Seq. No.: 8

Sample No.: 3

A/S Pos: 7

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 5/2/03

10:50:26 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	128441.8	515.4	7.46	mg/L				1.45%
Fe 273.955	7856355.8	189.9	1.22	mg/L				0.64%
K 766.491	1259.5	0.1557	0.01109	mg/L				7.12%
Mg 279.079	21274180.7	483.1	3.56	mg/L				0.74%
Na 330.237	-99.0	-0.2932	0.17822	mg/L				60.78%

Replicate Data

ID: ICSAB 1443

Date: 5/2/03

10:52:51 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	123186.6	121460.1	487.4	mg/L		
1	Fe 273.955	7329799.2	7328620.5	177.1	mg/L		
1	K 766.491	5116.2	1722.5	0.1745	mg/L		
1	Mg 279.079	20186337.7	20184831.5	458.4	mg/L		
1	Na 330.237	5616.4	-85.3	-0.2723	mg/L		
2	Ca 227.547	121490.3	119763.9	480.5	mg/L		
2	Fe 273.955	7127690.6	7126511.9	172.3	mg/L		
2	K 766.491	4795.0	1401.3	0.1614	mg/L		
2	Mg 279.079	19629249.4	19627743.2	445.7	mg/L		
2	Na 330.237	5649.5	-52.2	-0.2217	mg/L		
3	Ca 227.547	124299.8	122573.4	491.9	mg/L		
3	Fe 273.955	7496813.2	7495634.5	181.2	mg/L		
3	K 766.491	4896.8	1503.1	0.1656	mg/L		
3	Mg 279.079	20720722.7	20719216.6	470.5	mg/L		
3	Na 330.237	5676.8	-24.9	-0.1800	mg/L		

Mean Data

ID: ICSAB 1443

Sample Qty: 1.0000 g

Seq. No.: 9

Sample No.: 4

A/S Pos: 8

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 5/2/03

10:52:51 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	121265.8	486.6	5.72	mg/L				1.18%
Fe 273.955	7316922.3	176.9	4.47	mg/L				2.53%
K 766.491	1542.3	0.1672	0.00668	mg/L				4.00%
Mg 279.079	20177263.8	458.2	12.39	mg/L				2.70%
Na 330.237	-54.2	-0.2247	0.04619	mg/L				20.56%

Replicate Data

ID: CCV 1447B

Date: 5/2/03

10:55:14 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	14270.9	12544.5	49.98	mg/L		
1	Fe 273.955	215348.6	214169.9	5.177	mg/L		
1	K 766.491	426188.2	422794.5	15.84	mg/L		
1	Mg 279.079	1129464.3	1127958.1	25.61	mg/L		

1 K 766.491	3273.5	-120.2	0.0995 mg/L	0.0995 ppm
1 Mg 279.079	1280.1	-226.0	-0.0051 mg/L	-0.0051 ppm
1 Na 330.237	6108.3	406.6	0.4787 mg/L	0.4787 ppm
2 Ca 227.547	1658.5	-68.0	-0.2708 mg/L	-0.2708 ppm
2 Fe 273.955	1811.3	632.5	0.0153 mg/L	0.0153 ppm
2 K 766.491	3504.3	110.6	0.1089 mg/L	0.1089 ppm
2 Mg 279.079	1299.9	-206.3	-0.0047 mg/L	-0.0047 ppm
2 Na 330.237	5906.9	205.2	0.1714 mg/L	0.1714 ppm
3 Ca 227.547	1690.4	-36.0	-0.1434 mg/L	-0.1434 ppm
3 Fe 273.955	1730.4	551.7	0.0133 mg/L	0.0133 ppm
3 K 766.491	3699.7	306.0	0.1169 mg/L	0.1169 ppm
3 Mg 279.079	1288.5	-217.6	-0.0049 mg/L	-0.0049 ppm
3 Na 330.237	5824.2	122.5	0.0450 mg/L	0.0450 ppm

Mean Data

ID: M-BL 03M1421
 Sample Qty: 1.0000 mL
 Seq. No.: 12
 Prep. Vol.: 1.0 mL
 Data: Original
 Sample No.: 1
 Dilution: 1.0: 1.0
 A/S Pos: 10
 Date: 5/2/03 10:59:47 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	-35.6	-0.1417	0.12992	mg/L	-0.1417	0.12992	ppm	91.68%
Fe 273.955	564.2	0.0136	0.00152	mg/L	0.0136	0.00152	ppm	11.18%
K 766.491	98.8	0.1084	0.00869	mg/L	0.1084	0.00869	ppm	8.01%
Mg 279.079	-216.7	-0.0049	0.00022	mg/L	-0.0049	0.00022	ppm	4.57%
Na 330.237	244.8	0.2317	0.22307	mg/L	0.2317	0.22307	ppm	96.27%

Replicate Data

ID: LCS-03M1421
 Date: 5/2/03 11:02:03 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	6872.3	5145.9	20.50 mg/L	20.50 ppm
1	Fe 273.955	46399.2	45220.5	1.093 mg/L	1.093 ppm
1	K 766.491	139081.3	135687.6	5.459 mg/L	5.459 ppm
1	Mg 279.079	455125.1	453618.9	10.30 mg/L	10.30 ppm
1	Na 330.237	33431.2	27729.5	41.38 mg/L	41.38 ppm
2	Ca 227.547	6966.0	5239.6	20.87 mg/L	20.87 ppm
2	Fe 273.955	46050.5	44871.8	1.085 mg/L	1.085 ppm
2	K 766.491	138583.6	135189.9	5.439 mg/L	5.439 ppm
2	Mg 279.079	454064.3	452558.1	10.28 mg/L	10.28 ppm
2	Na 330.237	33040.1	27338.4	40.80 mg/L	40.80 ppm
3	Ca 227.547	6525.6	4799.1	19.12 mg/L	19.12 ppm
3	Fe 273.955	43114.3	41935.6	1.014 mg/L	1.014 ppm
3	K 766.491	133062.3	129668.6	5.228 mg/L	5.228 ppm
3	Mg 279.079	436313.1	434806.9	9.874 mg/L	9.874 ppm
3	Na 330.237	30914.4	25212.7	37.68 mg/L	37.68 ppm

Mean Data

ID: LCS-03M1421
 Sample Qty: 1.0000 mL
 Seq. No.: 13
 Prep. Vol.: 1.0 mL
 Data: Original
 Sample No.: 2
 Dilution: 1.0: 1.0
 A/S Pos: 11
 Date: 5/2/03 11:02:03 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	5061.5	20.17	0.924	mg/L	20.17	0.924	ppm	4.58%
Fe 273.955	44009.3	1.064	0.0436	mg/L	1.064	0.0436	ppm	4.10%
K 766.491	133515.4	5.375	0.1280	mg/L	5.375	0.1280	ppm	2.38%
Mg 279.079	446994.7	10.15	0.240	mg/L	10.15	0.240	ppm	2.36%
Na 330.237	26760.2	39.95	1.993	mg/L	39.95	1.993	ppm	4.99%

Matrix Check Sample: LCS-03M1421

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	19.86	20.17	0.924	mg/L	101.535

Fe 273.955	1.014	1.064	0.044	mg/L	105.009
K 766.491	5.108	5.375	0.128	mg/L	105.338
Mg 279.079	9.995	10.15	0.240	mg/L	101.552
Na 330.237	40.23	39.95	1.993	mg/L	99.304

Replicate Data

ID: LCSD-03M1421

Date: 5/2/03

11:04:19 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	6937.0	5210.6	20.76	mg/L	20.76	ppm
1	Fe 273.955	45359.7	44181.0	1.068	mg/L	1.068	ppm
1	K 766.491	136205.1	132811.4	5.348	mg/L	5.348	ppm
1	Mg 279.079	443818.6	442312.4	10.04	mg/L	10.04	ppm
1	Na 330.237	33197.7	27496.0	41.04	mg/L	41.04	ppm
2	Ca 227.547	6730.5	5004.0	19.94	mg/L	19.94	ppm
2	Fe 273.955	45173.3	43994.6	1.063	mg/L	1.063	ppm
2	K 766.491	130379.9	126986.2	5.125	mg/L	5.125	ppm
2	Mg 279.079	431045.9	429539.7	9.754	mg/L	9.754	ppm
2	Na 330.237	32734.7	27033.0	40.36	mg/L	40.36	ppm
3	Ca 227.547	6938.1	5211.6	20.76	mg/L	20.76	ppm
3	Fe 273.955	45853.1	44674.4	1.080	mg/L	1.080	ppm
3	K 766.491	135938.7	132545.0	5.338	mg/L	5.338	ppm
3	Mg 279.079	447986.1	446479.9	10.14	mg/L	10.14	ppm
3	Na 330.237	33605.2	27903.4	41.63	mg/L	41.63	ppm

Mean Data

ID: LCSD-03M1421

Sample Qty: 1.0000 mL

Seq. No.: 14

Sample No.: 3

A/S Pos: 12

Prep. Vol.: 1.0 mL

Dilution: 1.0:

1.0:

1.0

Data: Original

Date: 5/2/03

11:04:19 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	5142.1	20.49	0.476	mg/L	20.49	0.476	ppm	2.32%
Fe 273.955	44283.3	1.070	0.0085	mg/L	1.070	0.0085	ppm	0.79%
K 766.491	130780.9	5.270	0.1262	mg/L	5.270	0.1262	ppm	2.39%
Mg 279.079	439444.0	9.979	0.2004	mg/L	9.979	0.2004	ppm	2.01%
Na 330.237	27477.5	41.01	0.640	mg/L	41.01	0.640	ppm	1.56%

Matrix Check Sample: LCSD-03M1421

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	19.86	20.49	0.476	mg/L	103.140
Fe 273.955	1.014	1.070	0.008	mg/L	105.671
K 766.491	5.108	5.270	0.126	mg/L	103.241
Mg 279.079	9.995	9.979	0.200	mg/L	99.838
Na 330.237	40.23	41.01	0.640	mg/L	101.943

Replicate Data

ID: 2987-6 S F=1

Date: 5/2/03

11:06:35 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	3057.0	1330.5	5.301	mg/L	5.301	ppm
1	Fe 273.955	9069.3	7890.6	0.1907	mg/L	0.1907	ppm
1	K 766.491	59752.2	56358.5	2.369	mg/L	2.369	ppm
1	Mg 279.079	21297.9	19791.7	0.4494	mg/L	0.4494	ppm
1	Na 330.237	72666.7	66965.0	97.56	mg/L	97.56	ppm
2	Ca 227.547	3097.3	1370.9	5.462	mg/L	5.462	ppm
2	Fe 273.955	9057.5	7878.8	0.1904	mg/L	0.1904	ppm
2	K 766.491	66512.2	63118.5	2.636	mg/L	2.636	ppm
2	Mg 279.079	21544.5	20038.3	0.4550	mg/L	0.4550	ppm
2	Na 330.237	73730.0	68028.2	99.04	mg/L	99.04	ppm
3	Ca 227.547	2995.1	1268.7	5.054	mg/L	5.054	ppm

1	Ca	227.547	2045.8	319.4	1.272 mg/L	6.362 ppm
1	Fe	273.955	3168.3	1989.6	0.0481 mg/L	0.2404 ppm
1	K	766.491	11844.6	8450.9	0.4478 mg/L	2.239 ppm
1	Mg	279.079	6468.0	4961.9	0.1127 mg/L	0.5634 ppm
1	Na	330.237	18885.8	13184.0	19.80 mg/L	99.00 ppm
2	Ca	227.547	1953.8	227.3	0.9057 mg/L	4.529 ppm
2	Fe	273.955	3026.7	1848.0	0.0447 mg/L	0.2233 ppm
2	K	766.491	12203.6	8809.9	0.4624 mg/L	2.312 ppm
2	Mg	279.079	6230.0	4723.8	0.1073 mg/L	0.5363 ppm
2	Na	330.237	18089.5	12387.8	18.61 mg/L	93.03 ppm
3	Ca	227.547	1970.8	244.3	0.9734 mg/L	4.867 ppm
3	Fe	273.955	3082.2	1903.5	0.0460 mg/L	0.2300 ppm
3	K	766.491	11265.7	7872.0	0.4243 mg/L	2.122 ppm
3	Mg	279.079	6417.0	4910.8	0.1115 mg/L	0.5576 ppm
3	Na	330.237	18537.2	12835.5	19.28 mg/L	96.39 ppm

Mean Data

ID: 2987-6 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: 5/2/03 11:11:10 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	263.7	1.051	0.1951	mg/L	5.253	0.9756	ppm	18.57%
Fe 273.955	1913.7	0.0463	0.00172	mg/L	0.2313	0.00862	ppm	3.73%
K 766.491	8377.6	0.4448	0.01919	mg/L	2.224	0.0960	ppm	4.31%
Mg 279.079	4865.5	0.1105	0.00285	mg/L	0.5524	0.01423	ppm	2.58%
Na 330.237	12802.4	19.23	0.598	mg/L	96.14	2.992	ppm	3.11%

Replicate Data

ID: 2987-6 MS F=1 Date: 5/2/03 11:13:30 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	8716.1	6989.7	27.85	mg/L	27.85	ppm
1	Fe 273.955	55122.0	53943.3	1.304	mg/L	1.304	ppm
1	K 766.491	225174.8	221781.1	8.695	mg/L	8.695	ppm
1	Mg 279.079	475532.6	474026.4	10.76	mg/L	10.76	ppm
1	Na 330.237	108661.0	102959.3	146.8	mg/L	146.8	ppm
2	Ca 227.547	8394.9	6668.5	26.57	mg/L	26.57	ppm
2	Fe 273.955	53040.6	51861.9	1.254	mg/L	1.254	ppm
2	K 766.491	221108.7	217715.0	8.545	mg/L	8.545	ppm
2	Mg 279.079	464512.4	463006.2	10.51	mg/L	10.51	ppm
2	Na 330.237	104673.1	98971.4	141.4	mg/L	141.4	ppm
3	Ca 227.547	8283.4	6557.0	26.12	mg/L	26.12	ppm
3	Fe 273.955	52102.6	50923.9	1.231	mg/L	1.231	ppm
3	K 766.491	229061.3	225667.6	8.838	mg/L	8.838	ppm
3	Mg 279.079	477169.3	475663.1	10.80	mg/L	10.80	ppm
3	Na 330.237	103067.7	97366.0	139.3	mg/L	139.3	ppm

Mean Data

ID: 2987-6 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: 5/2/03 11:13:30 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	6738.4	26.85	0.895	mg/L	26.85	0.895	ppm	3.33%
Fe 273.955	52243.1	1.263	0.0374	mg/L	1.263	0.0374	ppm	2.96%
K 766.491	221721.3	8.693	0.1469	mg/L	8.693	0.1469	ppm	1.69%
Mg 279.079	470898.6	10.69	0.156	mg/L	10.69	0.156	ppm	1.46%
Na 330.237	99765.6	142.5	3.87	mg/L	142.5	3.87	ppm	2.71%

Matrix Check Sample: 2987-6 MS F=1

Expected Measured Calib

Element	Conc.	Conc.	Std.Dev.	Units	% Recovery
Ca 227.547	25.27	26.85	0.895	mg/L	107.868
Fe 273.955	1.189	1.263	0.037	mg/L	107.369
K 766.491	7.525	8.693	0.147	mg/L	123.344
Mg 279.079	10.45	10.69	0.156	mg/L	102.430
Na 330.237	137.7	142.5	3.868	mg/L	111.860

Replicate Data

ID: 2987-6 MSD F=1

Date: 5/2/03

11:15:47 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	8222.0	6495.5	25.88	mg/L	25.88	ppm
1	Fe 273.955	53073.8	51895.1	1.254	mg/L	1.254	ppm
1	K 766.491	231202.8	227809.1	8.917	mg/L	8.917	ppm
1	Mg 279.079	490309.0	488802.9	11.10	mg/L	11.10	ppm
1	Na 330.237	105525.6	99823.8	142.6	mg/L	142.6	ppm
2	Ca 227.547	8374.1	6647.7	26.48	mg/L	26.48	ppm
2	Fe 273.955	52829.4	51650.7	1.248	mg/L	1.248	ppm
2	K 766.491	213616.8	210223.1	8.267	mg/L	8.267	ppm
2	Mg 279.079	459507.8	458001.7	10.40	mg/L	10.40	ppm
2	Na 330.237	105181.0	99479.3	142.1	mg/L	142.1	ppm
3	Ca 227.547	8539.9	6813.5	27.15	mg/L	27.15	ppm
3	Fe 273.955	54180.8	53002.1	1.281	mg/L	1.281	ppm
3	K 766.491	217783.4	214389.7	8.421	mg/L	8.421	ppm
3	Mg 279.079	465950.2	464444.0	10.55	mg/L	10.55	ppm
3	Na 330.237	108483.6	102781.9	146.5	mg/L	146.5	ppm

Mean Data

ID: 2987-6 MSD F=1

Sample Qty: 1.0000 mL

Seq. No.: 19

Sample No.: 8

A/S Pos: 17

Prep. Vol.: 1.0 mL

Dilution: 1.0:

1.0:

1.0

Data: Original

Date: 5/2/03

11:15:47 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	6652.2	26.50	0.634	mg/L	26.50	0.634	ppm	2.39%
Fe 273.955	52182.6	1.261	0.0174	mg/L	1.261	0.0174	ppm	1.38%
K 766.491	217474.0	8.535	0.3397	mg/L	8.535	0.3397	ppm	3.98%
Mg 279.079	470416.2	10.68	0.369	mg/L	10.68	0.369	ppm	3.45%
Na 330.237	100695.0	143.7	2.44	mg/L	143.7	2.44	ppm	1.69%

Matrix Check Sample: 2987-6 MSD F=1

Element	Expected Conc.	Measured Conc.	Std.Dev.	Calib Units	% Recovery
Ca 227.547	25.27	26.50	0.634	mg/L	106.152
Fe 273.955	1.189	1.261	0.017	mg/L	107.223
K 766.491	7.525	8.535	0.340	mg/L	120.197
Mg 279.079	10.45	10.68	0.369	mg/L	102.321
Na 330.237	137.7	143.7	2.436	mg/L	114.988

Replicate Data

ID: 2987-6 PS F=1

Date: 5/2/03

11:18:00 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	8537.7	6811.2	27.14	mg/L	27.14	ppm
1	Fe 273.955	54397.7	53219.0	1.286	mg/L	1.286	ppm
1	K 766.491	234943.2	231549.5	9.055	mg/L	9.055	ppm
1	Mg 279.079	494727.5	493221.4	11.20	mg/L	11.20	ppm
1	Na 330.237	109086.5	103384.7	147.3	mg/L	147.3	ppm
2	Ca 227.547	8322.8	6596.4	26.28	mg/L	26.28	ppm
2	Fe 273.955	52891.9	51713.2	1.250	mg/L	1.250	ppm
2	K 766.491	220488.6	217094.9	8.522	mg/L	8.522	ppm
2	Mg 279.079	470820.1	469313.9	10.66	mg/L	10.66	ppm
2	Na 330.237	105878.7	100176.9	143.0	mg/L	143.0	ppm

3 Ca 227.547	8200.7	6474.3	25.79 mg/L	25.79 ppm
3 Fe 273.955	52260.1	51081.3	1.235 mg/L	1.235 ppm
3 K 766.491	225349.7	221956.0	8.701 mg/L	8.701 ppm
3 Mg 279.079	481015.8	479509.7	10.89 mg/L	10.89 ppm
3 Na 330.237	104609.3	98907.6	141.3 mg/L	141.3 ppm

Mean Data

ID: 2987-6 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: 5/2/03 11:18:00 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev. Units	Calib Units	Mean Conc.	Std.Dev. Units	Sample Units	RSD
Ca 227.547	6627.3	26.40	0.680	mg/L	26.40	0.680	ppm	2.57%
Fe 273.955	52004.5	1.257	0.0265	mg/L	1.257	0.0265	ppm	2.11%
K 766.491	223533.5	8.759	0.2713	mg/L	8.759	0.2713	ppm	3.10%
Mg 279.079	480681.6	10.92	0.272	mg/L	10.92	0.272	ppm	2.50%
Na 330.237	100823.1	143.9	3.10	mg/L	143.9	3.10	ppm	2.15%

Matrix Check Sample: 2987-6 PS F=1

Element	Expected Conc.	Measured Conc.	Std.Dev. Units	Calib Units	% Recovery
Ca 227.547	25.27	26.40	0.680	mg/L	105.655
Fe 273.955	1.189	1.257	0.027	mg/L	106.792
K 766.491	7.525	8.759	0.271	mg/L	124.678
Mg 279.079	10.45	10.92	0.272	mg/L	104.652
Na 330.237	137.7	143.9	3.096	mg/L	115.415

Replicate Data

ID: 2987-1 F=1 Date: 5/2/03 11:20:13 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	1631.6	-94.8	-0.3777 mg/L	-0.3777 ppm
1	Fe 273.955	2019.3	840.6	0.0203 mg/L	0.0203 ppm
1	K 766.491	4429.7	1036.0	0.1466 mg/L	0.1466 ppm
1	Mg 279.079	3291.4	1785.3	0.0405 mg/L	0.0405 ppm
1	Na 330.237	5816.4	114.7	0.0332 mg/L	0.0332 ppm
2	Ca 227.547	1638.0	-88.4	-0.3522 mg/L	-0.3522 ppm
2	Fe 273.955	2247.5	1068.8	0.0258 mg/L	0.0258 ppm
2	K 766.491	4537.4	1143.7	0.1510 mg/L	0.1510 ppm
2	Mg 279.079	3334.7	1828.6	0.0415 mg/L	0.0415 ppm
2	Na 330.237	5804.3	102.5	0.0146 mg/L	0.0146 ppm
3	Ca 227.547	1724.6	-1.8	-0.0073 mg/L	-0.0073 ppm
3	Fe 273.955	2166.2	987.5	0.0239 mg/L	0.0239 ppm
3	K 766.491	4241.0	847.3	0.1389 mg/L	0.1389 ppm
3	Mg 279.079	3044.2	1538.0	0.0349 mg/L	0.0349 ppm
3	Na 330.237	6022.0	320.3	0.3470 mg/L	0.3470 ppm

Mean Data

ID: 2987-1 F=1 Seq. No.: 21 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: 5/2/03 11:20:13 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev. Units	Calib Units	Mean Conc.	Std.Dev. Units	Sample Units	RSD
Ca 227.547	-61.7	-0.2457	0.20688	mg/L	-0.2457	0.20688	ppm	84.19%
Fe 273.955	965.6	0.0233	0.00280	mg/L	0.0233	0.00280	ppm	11.98%
K 766.491	1009.0	0.1455	0.00611	mg/L	0.1455	0.00611	ppm	4.20%
Mg 279.079	1717.3	0.0390	0.00356	mg/L	0.0390	0.00356	ppm	9.13%
Na 330.237	179.2	0.1316	0.18679	mg/L	0.1316	0.18679	ppm	141.94%

Replicate Data

ID: CCV 1447B Date: 5/2/03 11:22:30 AM

Net Corrected Calib Sample 5093

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	38276.7	36550.2	145.6 mg/L	145.6 ppm
1	Fe 273.955	19576.4	18397.7	0.4447 mg/L	0.4447 ppm
1	K 766.491	77495.9	74102.2	3.069 mg/L	3.069 ppm
1	Mg 279.079	2232840.1	2231333.9	50.67 mg/L	50.67 ppm
1	Na 330.237	29570.7	23868.9	35.69 mg/L	35.69 ppm
2	Ca 227.547	38052.6	36326.1	144.7 mg/L	144.7 ppm
2	Fe 273.955	19277.2	18098.5	0.4374 mg/L	0.4374 ppm
2	K 766.491	76885.5	73491.8	3.045 mg/L	3.045 ppm
2	Mg 279.079	2233979.1	2232472.9	50.69 mg/L	50.69 ppm
2	Na 330.237	29140.8	23439.0	35.06 mg/L	35.06 ppm
3	Ca 227.547	39142.5	37416.1	149.1 mg/L	149.1 ppm
3	Fe 273.955	20126.6	18947.9	0.4580 mg/L	0.4580 ppm
3	K 766.491	74935.9	71542.2	2.969 mg/L	2.969 ppm
3	Mg 279.079	2186200.7	2184694.5	49.61 mg/L	49.61 ppm
3	Na 330.237	30318.4	24616.7	36.80 mg/L	36.80 ppm

Mean Data
 ID: 2987-2 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: 5/2/03 11:27:04 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	36764.2	146.5	2.29	mg/L	146.5	2.29	ppm	1.57%
Fe 273.955	18481.4	0.4467	0.01041	mg/L	0.4467	0.01041	ppm	2.33%
K 766.491	73045.4	3.028	0.0526	mg/L	3.028	0.0526	ppm	1.74%
Mg 279.079	2216167.1	50.32	0.619	mg/L	50.32	0.619	ppm	1.23%
Na 330.237	23974.9	35.85	0.880	mg/L	35.85	0.880	ppm	2.45%

Replicate Data
 ID: 2987-3 F=1 Date: 5/2/03 11:29:19 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	27449.8	25723.4	102.5 mg/L	102.5 ppm
1	Fe 273.955	3136.3	1957.6	0.0473 mg/L	0.0473 ppm
1	K 766.491	73850.9	70457.2	2.926 mg/L	2.926 ppm
1	Mg 279.079	1741782.5	1740276.3	39.52 mg/L	39.52 ppm
1	Na 330.237	29333.7	23631.9	35.34 mg/L	35.34 ppm
2	Ca 227.547	28813.2	27086.7	107.9 mg/L	107.9 ppm
2	Fe 273.955	3181.8	2003.0	0.0484 mg/L	0.0484 ppm
2	K 766.491	75351.6	71957.9	2.985 mg/L	2.985 ppm
2	Mg 279.079	1774711.7	1773205.5	40.27 mg/L	40.27 ppm
2	Na 330.237	30812.9	25111.2	37.53 mg/L	37.53 ppm
3	Ca 227.547	28698.8	26972.4	107.5 mg/L	107.5 ppm
3	Fe 273.955	3320.4	2141.7	0.0518 mg/L	0.0518 ppm
3	K 766.491	74167.8	70774.1	2.938 mg/L	2.938 ppm
3	Mg 279.079	1755324.3	1753818.1	39.83 mg/L	39.83 ppm
3	Na 330.237	30530.2	24828.5	37.11 mg/L	37.11 ppm

Mean Data
 ID: 2987-3 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: 5/2/03 11:29:19 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	26594.2	106.0	3.01	mg/L	106.0	3.01	ppm	2.84%
Fe 273.955	2034.1	0.0492	0.00232	mg/L	0.0492	0.00232	ppm	4.72%
K 766.491	71063.1	2.950	0.0311	mg/L	2.950	0.0311	ppm	1.06%
Mg 279.079	1755766.6	39.87	0.376	mg/L	39.87	0.376	ppm	0.94%
Na 330.237	24523.8	36.66	1.159	mg/L	36.66	1.159	ppm	3.16%

Replicate Data
ID: 2987-4 F=1

Date: 5/2/03 11:31:32 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	11674.3	9947.8	39.63 mg/L	39.63 ppm
1	Fe 273.955	28679.4	27500.7	0.6647 mg/L	0.6647 ppm
1	K 766.491	44268.1	40874.4	1.753 mg/L	1.753 ppm
1	Mg 279.079	609977.9	608471.8	13.82 mg/L	13.82 ppm
1	Na 330.237	23349.7	17648.0	26.47 mg/L	26.47 ppm
2	Ca 227.547	12329.4	10602.9	42.24 mg/L	42.24 ppm
2	Fe 273.955	30077.0	28898.3	0.6985 mg/L	0.6985 ppm
2	K 766.491	45991.0	42597.3	1.821 mg/L	1.821 ppm
2	Mg 279.079	622675.8	621169.6	14.11 mg/L	14.11 ppm
2	Na 330.237	24280.0	18578.3	27.85 mg/L	27.85 ppm
3	Ca 227.547	11796.3	10069.9	40.12 mg/L	40.12 ppm
3	Fe 273.955	28808.2	27629.5	0.6678 mg/L	0.6678 ppm
3	K 766.491	43369.4	39975.7	1.717 mg/L	1.717 ppm
3	Mg 279.079	588231.1	586724.9	13.32 mg/L	13.32 ppm
3	Na 330.237	23528.9	17827.2	26.74 mg/L	26.74 ppm

Mean Data

ID: 2987-4 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

Date: 5/2/03 11:31:32 AM

Data: Original

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	10206.9	40.66	1.388	mg/L	40.66	1.388	ppm	3.41%
Fe 273.955	28009.5	0.6770	0.01867	mg/L	0.6770	0.01867	ppm	2.76%
K 766.491	41149.1	1.764	0.0532	mg/L	1.764	0.0532	ppm	3.02%
Mg 279.079	605455.4	13.75	0.396	mg/L	13.75	0.396	ppm	2.88%
Na 330.237	18017.8	27.02	0.735	mg/L	27.02	0.735	ppm	2.72%

Replicate Data

ID: 2987-5 F=1

Date: 5/2/03

11:33:47 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	8700.3	6973.9	27.78 mg/L	27.78 ppm
1	Fe 273.955	3656.7	2477.9	0.0599 mg/L	0.0599 ppm
1	K 766.491	49796.9	46403.2	1.973 mg/L	1.973 ppm
1	Mg 279.079	549268.1	547762.0	12.44 mg/L	12.44 ppm
1	Na 330.237	26319.7	20618.0	30.88 mg/L	30.88 ppm
2	Ca 227.547	8644.2	6917.7	27.56 mg/L	27.56 ppm
2	Fe 273.955	3663.6	2484.9	0.0601 mg/L	0.0601 ppm
2	K 766.491	49599.0	46205.3	1.965 mg/L	1.965 ppm
2	Mg 279.079	548045.3	546539.2	12.41 mg/L	12.41 ppm
2	Na 330.237	26041.6	20339.9	30.47 mg/L	30.47 ppm
3	Ca 227.547	8460.3	6733.8	26.83 mg/L	26.83 ppm
3	Fe 273.955	3571.5	2392.8	0.0578 mg/L	0.0578 ppm
3	K 766.491	51413.3	48019.6	2.037 mg/L	2.037 ppm
3	Mg 279.079	555661.9	554155.8	12.58 mg/L	12.58 ppm
3	Na 330.237	25857.1	20155.4	30.20 mg/L	30.20 ppm

Mean Data

ID: 2987-5 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

Date: 5/2/03 11:33:47 AM

Data: Original

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	6875.2	27.39	0.500	mg/L	27.39	0.500	ppm	1.83%
Fe 273.955	2451.9	0.0593	0.00124	mg/L	0.0593	0.00124	ppm	2.09%
K 766.491	46876.0	1.992	0.0396	mg/L	1.992	0.0396	ppm	1.99%
Mg 279.079	549485.6	12.48	0.093	mg/L	12.48	0.093	ppm	0.74%

Na 330.237 20371.1 30.52 0.346 mg/L 30.52 0.346 ppm 1.13%

Replicate Data

ID: 2964-1 F=1

Date: 5/2/03

11:36:03 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	6837.4	5110.9	20.36	mg/L	20.36	ppm
1	Fe 273.955	9995.7	8816.9	0.2131	mg/L	0.2131	ppm
1	K 766.491	68453.0	65059.3	2.713	mg/L	2.713	ppm
1	Mg 279.079	533819.8	532313.7	12.09	mg/L	12.09	ppm
1	Na 330.237	34692.3	28990.5	43.23	mg/L	43.23	ppm
2	Ca 227.547	6641.9	4915.5	19.58	mg/L	19.58	ppm
2	Fe 273.955	9882.8	8704.1	0.2104	mg/L	0.2104	ppm
2	K 766.491	72207.5	68813.8	2.861	mg/L	2.861	ppm
2	Mg 279.079	553864.2	552358.1	12.54	mg/L	12.54	ppm
2	Na 330.237	33867.2	28165.5	42.02	mg/L	42.02	ppm
3	Ca 227.547	6451.6	4725.1	18.83	mg/L	18.83	ppm
3	Fe 273.955	9702.7	8524.0	0.2060	mg/L	0.2060	ppm
3	K 766.491	69330.5	65936.8	2.748	mg/L	2.748	ppm
3	Mg 279.079	535002.7	533496.5	12.11	mg/L	12.11	ppm
3	Na 330.237	33101.4	27399.7	40.89	mg/L	40.89	ppm

Mean Data

ID: 2964-1 F=1

Sample Qty: 1.0000 mL

Seq. No.: 28

Sample No.: 15

A/S Pos: 24

Prep. Vol.: 1.0 mL

Dilution: 1.0:

1.0:

1.0

Data: Original

Date: 5/2/03

11:36:03 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	4917.2	19.59	0.769	mg/L	19.59	0.769	ppm	3.92%
Fe 273.955	8681.7	0.2098	0.00357	mg/L	0.2098	0.00357	ppm	1.70%
K 766.491	66603.3	2.774	0.0775	mg/L	2.774	0.0775	ppm	2.79%
Mg 279.079	539389.4	12.25	0.255	mg/L	12.25	0.255	ppm	2.09%
Na 330.237	28185.3	42.05	1.168	mg/L	42.05	1.168	ppm	2.78%

Replicate Data

ID: 2964-2 F=1

Date: 5/2/03

11:38:18 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	1608.8	-117.6	-0.4686	mg/L	-0.4686	ppm
1	Fe 273.955	2187.8	1009.1	0.0244	mg/L	0.0244	ppm
1	K 766.491	4062.2	668.5	0.1316	mg/L	0.1316	ppm
1	Mg 279.079	3506.8	2000.7	0.0454	mg/L	0.0454	ppm
1	Na 330.237	6015.1	313.3	0.3364	mg/L	0.3364	ppm
2	Ca 227.547	1617.4	-109.0	-0.4343	mg/L	-0.4343	ppm
2	Fe 273.955	2136.7	958.0	0.0232	mg/L	0.0232	ppm
2	K 766.491	3635.3	241.6	0.1142	mg/L	0.1142	ppm
2	Mg 279.079	3573.3	2067.2	0.0469	mg/L	0.0469	ppm
2	Na 330.237	6056.6	354.9	0.3999	mg/L	0.3999	ppm
3	Ca 227.547	1626.9	-99.6	-0.3967	mg/L	-0.3967	ppm
3	Fe 273.955	2264.9	1086.2	0.0263	mg/L	0.0263	ppm
3	K 766.491	3014.4	-379.3	0.0889	mg/L	0.0889	ppm
3	Mg 279.079	3476.0	1969.8	0.0447	mg/L	0.0447	ppm
3	Na 330.237	5876.5	174.8	0.1249	mg/L	0.1249	ppm

Mean Data

ID: 2964-2 F=1

Sample Qty: 1.0000 mL

Seq. No.: 29

Sample No.: 16

A/S Pos: 25

Prep. Vol.: 1.0 mL

Dilution: 1.0:

1.0:

1.0

Data: Original

Date: 5/2/03

11:38:18 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	-108.7	-0.4332	0.03595	mg/L	-0.4332	0.03595	ppm	8.30%
Fe 273.955	1017.7	0.0246	0.00156	mg/L	0.0246	0.00156	ppm	6.34%

K 766.491	176.9	0.1116	0.02145 mg/L	0.1116	0.02145 ppm	19.22%
Mg 279.079	2012.6	0.0457	0.00113 mg/L	0.0457	0.00113 ppm	2.47%
Na 330.237	281.0	0.2871	0.14397 mg/L	0.2871	0.14397 ppm	50.15%

Replicate Data

ID: 2964-3 F=1

Date: 5/2/03

11:40:34 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	16384.3	14657.8	58.40 mg/L	58.40 ppm
1	Fe 273.955	9345.9	8167.2	0.1974 mg/L	0.1974 ppm
1	K 766.491	69214.2	65820.5	2.743 mg/L	2.743 ppm
1	Mg 279.079	903612.1	902105.9	20.48 mg/L	20.48 ppm
1	Na 330.237	18885.8	13184.1	19.80 mg/L	19.80 ppm
2	Ca 227.547	16941.8	15215.4	60.62 mg/L	60.62 ppm
2	Fe 273.955	9635.1	8456.4	0.2044 mg/L	0.2044 ppm
2	K 766.491	69141.4	65747.7	2.740 mg/L	2.740 ppm
2	Mg 279.079	898338.2	896832.1	20.37 mg/L	20.37 ppm
2	Na 330.237	19696.1	13994.3	21.01 mg/L	21.01 ppm
3	Ca 227.547	17232.0	15505.6	61.77 mg/L	61.77 ppm
3	Fe 273.955	9738.8	8560.1	0.2069 mg/L	0.2069 ppm
3	K 766.491	68634.2	65240.5	2.720 mg/L	2.720 ppm
3	Mg 279.079	897381.9	895875.7	20.34 mg/L	20.34 ppm
3	Na 330.237	19669.5	13967.8	20.97 mg/L	20.97 ppm

Mean Data

ID: 2964-3 F=1

Sample Qty: 1.0000 mL

Seq. No.: 30

Sample No.: 17

A/S Pos: 26

Prep. Vol.: 1.0 mL

Dilution:

1.0:

1.0

Data: Original

Date: 5/2/03

11:40:34 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	15126.3	60.26	1.716	mg/L	60.26	1.716	ppm	2.85%
Fe 273.955	8394.6	0.2029	0.00492	mg/L	0.2029	0.00492	ppm	2.43%
K 766.491	65602.9	2.735	0.0125	mg/L	2.735	0.0125	ppm	0.46%
Mg 279.079	898271.2	20.40	0.076	mg/L	20.40	0.076	ppm	0.37%
Na 330.237	13715.4	20.60	0.689	mg/L	20.60	0.689	ppm	3.35%

Replicate Data

ID: 2964-4 F=1

Date: 5/2/03

11:42:51 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	6686.5	4960.1	19.76 mg/L	19.76 ppm
1	Fe 273.955	11009.0	9830.3	0.2376 mg/L	0.2376 ppm
1	K 766.491	72219.8	68826.1	2.862 mg/L	2.862 ppm
1	Mg 279.079	552455.1	550949.0	12.51 mg/L	12.51 ppm
1	Na 330.237	34291.5	28589.8	42.64 mg/L	42.64 ppm
2	Ca 227.547	6764.3	5037.9	20.07 mg/L	20.07 ppm
2	Fe 273.955	11095.3	9916.6	0.2397 mg/L	0.2397 ppm
2	K 766.491	74707.5	71313.8	2.960 mg/L	2.960 ppm
2	Mg 279.079	567795.4	566289.3	12.86 mg/L	12.86 ppm
2	Na 330.237	34759.6	29057.9	43.33 mg/L	43.33 ppm
3	Ca 227.547	6675.8	4949.4	19.72 mg/L	19.72 ppm
3	Fe 273.955	11140.2	9961.5	0.2408 mg/L	0.2408 ppm
3	K 766.491	73871.1	70477.4	2.927 mg/L	2.927 ppm
3	Mg 279.079	562356.9	560850.7	12.74 mg/L	12.74 ppm
3	Na 330.237	35059.1	29357.4	43.77 mg/L	43.77 ppm

Mean Data

ID: 2964-4 F=1

Sample Qty: 1.0000 mL

Seq. No.: 31

Sample No.: 18

A/S Pos: 27

Prep. Vol.: 1.0 mL

Dilution:

1.0:

1.0

Data: Original

Date: 5/2/03

11:42:51 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
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5098

Ca 227.547	4982.5	19.85	0.193 mg/L	19.85	0.193 ppm	0.97%
Fe 273.955	9902.8	0.2394	0.00161 mg/L	0.2394	0.00161 ppm	0.67%
K 766.491	70205.8	2.916	0.0499 mg/L	2.916	0.0499 ppm	1.71%
Mg 279.079	559363.0	12.70	0.177 mg/L	12.70	0.177 ppm	1.39%
Na 330.237	29001.7	43.25	0.567 mg/L	43.25	0.567 ppm	1.31%

Replicate Data

ID: 2964-5 F=1

Date: 5/2/03

11:45:09 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	5922.8	4196.3	16.72 mg/L	16.72 ppm
1	Fe 273.955	9505.7	8327.0	0.2013 mg/L	0.2013 ppm
1	K 766.491	60601.7	57208.0	2.402 mg/L	2.402 ppm
1	Mg 279.079	574967.6	573461.5	13.02 mg/L	13.02 ppm
1	Na 330.237	35700.2	29998.5	44.71 mg/L	44.71 ppm
2	Ca 227.547	5835.1	4108.7	16.37 mg/L	16.37 ppm
2	Fe 273.955	9223.9	8045.2	0.1945 mg/L	0.1945 ppm
2	K 766.491	60617.9	57224.2	2.403 mg/L	2.403 ppm
2	Mg 279.079	572414.3	570908.2	12.96 mg/L	12.96 ppm
2	Na 330.237	35055.8	29354.0	43.76 mg/L	43.76 ppm
3	Ca 227.547	5873.3	4146.9	16.52 mg/L	16.52 ppm
3	Fe 273.955	9321.0	8142.3	0.1968 mg/L	0.1968 ppm
3	K 766.491	57994.8	54601.1	2.299 mg/L	2.299 ppm
3	Mg 279.079	554199.6	552693.4	12.55 mg/L	12.55 ppm
3	Na 330.237	34650.8	28949.0	43.17 mg/L	43.17 ppm

Mean Data

ID: 2964-5 F=1

Sample Qty: 1.0000 mL

Seq. No.: 32

Sample No.: 19

A/S Pos: 28

Prep. Vol.:

1.0 mL

Dilution:

1.0: 1.0

Data: Original

Date: 5/2/03

11:45:09 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	4150.6	16.54	0.175	mg/L	16.54	0.175	ppm	1.06%
Fe 273.955	8171.5	0.1975	0.00346	mg/L	0.1975	0.00346	ppm	1.75%
K 766.491	56344.4	2.368	0.0599	mg/L	2.368	0.0599	ppm	2.53%
Mg 279.079	565687.7	12.85	0.257	mg/L	12.85	0.257	ppm	2.00%
Na 330.237	29433.9	43.88	0.776	mg/L	43.88	0.776	ppm	1.77%

Replicate Data

ID: CCV 1447B

Date: 5/2/03

11:47:29 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	14433.4	12707.0	50.62 mg/L	
1	Fe 273.955	222752.4	221573.7	5.356 mg/L	
1	K 766.491	437031.0	433637.3	16.21 mg/L	
1	Mg 279.079	1123522.1	1122016.0	25.48 mg/L	
1	Na 330.237	79106.4	73404.6	106.5 mg/L	
2	Ca 227.547	14623.4	12896.9	51.38 mg/L	
2	Fe 273.955	224208.3	223029.6	5.391 mg/L	
2	K 766.491	417860.4	414466.7	15.56 mg/L	
2	Mg 279.079	1129173.6	1127667.5	25.61 mg/L	
2	Na 330.237	79975.7	74274.0	107.7 mg/L	
3	Ca 227.547	14571.1	12844.7	51.17 mg/L	
3	Fe 273.955	224350.5	223171.8	5.394 mg/L	
3	K 766.491	449988.8	446595.1	16.65 mg/L	
3	Mg 279.079	1109796.3	1108290.1	25.17 mg/L	
3	Na 330.237	79646.8	73945.0	107.3 mg/L	

Mean Data

ID: CCV 1447B

Sample Qty: 1.0000 g

Seq. No.: 33

Sample No.: 5

A/S Pos: 6

Prep. Vol.:

1.0 L

Dilution:

1.0: 1.0

Data: Original

Date: 5/2/03

11:47:29 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	12816.2	51.06	0.391	mg/L				0.77%
Fe 273.955	222591.7	5.380	0.0214	mg/L				0.40%
K 766.491	431566.4	16.14	0.553	mg/L				3.42%
Mg 279.079	1119324.5	25.42	0.226	mg/L				0.89%
Na 330.237	73874.5	107.2	0.61	mg/L				0.57%

Replicate Data

ID: CCB Date: 5/2/03 11:49:49 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	1722.1	-4.4	-0.0174 mg/L	
1	Fe 273.955	1498.0	319.3	0.0077 mg/L	
1	K 766.491	3076.4	-317.3	0.0915 mg/L	
1	Mg 279.079	2569.6	1063.4	0.0241 mg/L	
1	Na 330.237	5969.8	268.0	0.2673 mg/L	
2	Ca 227.547	1737.3	10.9	0.0433 mg/L	
2	Fe 273.955	1489.0	310.3	0.0075 mg/L	
2	K 766.491	3661.1	267.4	0.1153 mg/L	
2	Mg 279.079	2365.0	858.8	0.0195 mg/L	
2	Na 330.237	5661.8	-40.0	-0.2030 mg/L	
3	Ca 227.547	1661.2	-65.2	-0.2598 mg/L	
3	Fe 273.955	1406.3	227.6	0.0055 mg/L	
3	K 766.491	3462.1	68.4	0.1072 mg/L	
3	Mg 279.079	2395.2	889.1	0.0202 mg/L	
3	Na 330.237	5630.7	-71.1	-0.2505 mg/L	

Mean Data

ID: CCB Seq. No.: 34 Sample No.: 6 A/S Pos: 1
 Sample Qty: 1.0000 g Prep. Vol.: 1.0 L Dilution: 1.0: 1.0
 Date: 5/2/03 11:49:49 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	-19.6	-0.0779	0.16035	mg/L				205.73%
Fe 273.955	285.7	0.0069	0.00122	mg/L				17.69%
K 766.491	6.2	0.1046	0.01211	mg/L				11.57%
Mg 279.079	937.1	0.0213	0.00251	mg/L				11.78%
Na 330.237	52.3	-0.0621	0.28620	mg/L				461.13%

Replicate Data

ID: 2964-6 F=1 Date: 5/2/03 11:52:04 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	3554.9	1828.5	7.285 mg/L	7.285 ppm
1	Fe 273.955	3408.2	2229.5	0.0539 mg/L	0.0539 ppm
1	K 766.491	54790.8	51397.1	2.172 mg/L	2.172 ppm
1	Mg 279.079	373509.1	372003.0	8.447 mg/L	8.447 ppm
1	Na 330.237	34382.6	28680.9	42.78 mg/L	42.78 ppm
2	Ca 227.547	3618.3	1891.8	7.537 mg/L	7.537 ppm
2	Fe 273.955	3428.8	2250.1	0.0544 mg/L	0.0544 ppm
2	K 766.491	54641.0	51247.3	2.166 mg/L	2.166 ppm
2	Mg 279.079	373660.6	372154.4	8.451 mg/L	8.451 ppm
2	Na 330.237	34528.0	28826.3	42.99 mg/L	42.99 ppm
3	Ca 227.547	3634.2	1907.7	7.601 mg/L	7.601 ppm
3	Fe 273.955	3567.4	2388.7	0.0577 mg/L	0.0577 ppm
3	K 766.491	55836.3	52442.6	2.213 mg/L	2.213 ppm
3	Mg 279.079	375219.4	373713.2	8.486 mg/L	8.486 ppm
3	Na 330.237	35241.3	29539.6	44.03 mg/L	44.03 ppm

Mean Data

ID: 2964-6 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: 5/2/03

11:52:04 AM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	1876.0	7.474	0.1671	mg/L	7.474	0.1671	ppm	2.24%
Fe 273.955	2289.4	0.0553	0.00209	mg/L	0.0553	0.00209	ppm	3.78%
K 766.491	51695.7	2.184	0.0259	mg/L	2.184	0.0259	ppm	1.18%
Mg 279.079	372623.5	8.461	0.0215	mg/L	8.461	0.0215	ppm	0.25%
Na 330.237	29015.6	43.27	0.674	mg/L	43.27	0.674	ppm	1.56%

Method: 5ME-1 ICP-M IEC: 03miecm.iec MSF:
 Results: 03M1421M Spectra Stored: Yes Method Stored: Yes
 Sample Info: 03m1421m User: User1 Date: 5/2/03 11:56:34 AM
 Method Description: 6010B/200.7--KNaCaMgFe 4/16/03

Calibration Summary

Method: 5ME-1 ICP-M Date: 5/2/03 11:56:54 AM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ca 227.547	3	Linear-thru-Zero	0.0	251.0	0.00000	0.999963
Fe 273.955	3	Linear-thru-Zero	0.0	41372.8	0.00000	0.999863
K 766.491	3	Non-Linear	-2562.1	24526.5	146.68897	0.998878
Mg 279.079	3	Linear-thru-Zero	0.0	44037.6	0.00000	0.999910
Na 330.237	3	Non-Linear	93.0	654.9	0.31274	0.999656

Replicate Data

ID: 2964-7 F=1 Date: 5/2/03 11:57:54 AM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	9057.5	7331.1	29.21	mg/L	29.21	ppm
1	Fe 273.955	2280.3	1101.6	0.0266	mg/L	0.0266	ppm
1	K 766.491	47387.9	43994.2	1.877	mg/L	1.877	ppm
1	Mg 279.079	403446.8	401940.6	9.127	mg/L	9.127	ppm
1	Na 330.237	31333.5	25631.8	38.29	mg/L	38.29	ppm
2	Ca 227.547	9042.7	7316.2	29.15	mg/L	29.15	ppm
2	Fe 273.955	2237.6	1058.9	0.0256	mg/L	0.0256	ppm
2	K 766.491	46196.8	42803.1	1.830	mg/L	1.830	ppm
2	Mg 279.079	401252.4	399746.2	9.077	mg/L	9.077	ppm
2	Na 330.237	31595.0	25893.3	38.68	mg/L	38.68	ppm
3	Ca 227.547	9129.3	7402.9	29.49	mg/L	29.49	ppm
3	Fe 273.955	2255.2	1076.5	0.0260	mg/L	0.0260	ppm
3	K 766.491	46623.8	43230.1	1.847	mg/L	1.847	ppm
3	Mg 279.079	395635.6	394129.4	8.950	mg/L	8.950	ppm
3	Na 330.237	32255.1	26553.4	39.65	mg/L	39.65	ppm

Mean Data

ID: 2964-7 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
 Date: 5/2/03 11:57:54 AM

Element	Mean Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	7350.1	29.28	0.185	mg/L	29.28	0.185	ppm	0.63%
Fe 273.955	1079.0	0.0261	0.00052	mg/L	0.0261	0.00052	ppm	1.99%
K 766.491	43342.5	1.851	0.0241	mg/L	1.851	0.0241	ppm	1.30%
Mg 279.079	398605.4	9.051	0.0915	mg/L	9.051	0.0915	ppm	1.01%
Na 330.237	26026.1	38.87	0.699	mg/L	38.87	0.699	ppm	1.80%

Replicate Data

ID: 3015-1 F=1 Date: 5/2/03 12:00:13 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	14341.9	12615.5	50.26	mg/L	50.26	ppm
1	Fe 273.955	12795.9	11617.1	0.2808	mg/L	0.2808	ppm
1	K 766.491	63354.5	59960.8	2.511	mg/L	2.511	ppm
1	Mg 279.079	821249.7	819743.5	18.61	mg/L	18.61	ppm
1	Na 330.237	18186.7	12485.0	18.75	mg/L	18.75	ppm
2	Ca 227.547	14150.7	12424.2	49.50	mg/L	49.50	ppm
2	Fe 273.955	12575.2	11396.4	0.2755	mg/L	0.2755	ppm
2	K 766.491	64201.7	60808.0	2.545	mg/L	2.545	ppm
2	Mg 279.079	831550.6	830044.4	18.85	mg/L	18.85	ppm

2 Na 330.237	17993.5	12291.8	18.46 mg/L	18.46 ppm
3 Ca 227.547	14156.8	12430.4	49.52 mg/L	49.52 ppm
3 Fe 273.955	12662.2	11483.5	0.2776 mg/L	0.2776 ppm
3 K 766.491	64306.4	60912.7	2.549 mg/L	2.549 ppm
3 Mg 279.079	826710.9	825204.7	18.74 mg/L	18.74 ppm
3 Na 330.237	18072.5	12370.8	18.58 mg/L	18.58 ppm

Mean Data

ID: 3015-1 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: 5/2/03 12:00:13 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	12490.0	49.76	0.433	mg/L	49.76	0.433	ppm	0.87%
Fe 273.955	11499.0	0.2779	0.00269	mg/L	0.2779	0.00269	ppm	0.97%
K 766.491	60560.5	2.535	0.0207	mg/L	2.535	0.0207	ppm	0.81%
Mg 279.079	824997.5	18.73	0.117	mg/L	18.73	0.117	ppm	0.62%
Na 330.237	12382.5	18.60	0.146	mg/L	18.60	0.146	ppm	0.78%

Replicate Data

ID: 3015-2 F=1 Date: 5/2/03 12:02:29 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	1679.5	-46.9	-0.1869	mg/L	-0.1869	ppm
1	Fe 273.955	3259.5	2080.8	0.0503	mg/L	0.0503	ppm
1	K 766.491	3997.9	604.2	0.1290	mg/L	0.1290	ppm
1	Mg 279.079	3539.1	2033.0	0.0462	mg/L	0.0462	ppm
1	Na 330.237	5883.2	181.5	0.1351	mg/L	0.1351	ppm
2	Ca 227.547	1769.2	42.7	0.1703	mg/L	0.1703	ppm
2	Fe 273.955	3303.4	2124.7	0.0514	mg/L	0.0514	ppm
2	K 766.491	4633.2	1239.5	0.1549	mg/L	0.1549	ppm
2	Mg 279.079	3500.4	1994.2	0.0453	mg/L	0.0453	ppm
2	Na 330.237	5997.7	296.0	0.3100	mg/L	0.3100	ppm
3	Ca 227.547	1641.1	-85.3	-0.3399	mg/L	-0.3399	ppm
3	Fe 273.955	3235.4	2056.7	0.0497	mg/L	0.0497	ppm
3	K 766.491	3738.6	344.9	0.1184	mg/L	0.1184	ppm
3	Mg 279.079	3543.8	2037.6	0.0463	mg/L	0.0463	ppm
3	Na 330.237	5895.9	194.1	0.1544	mg/L	0.1544	ppm

Mean Data

ID: 3015-2 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: 5/2/03 12:02:29 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	-29.8	-0.1189	0.26182	mg/L	-0.1189	0.26182	ppm	220.29%
Fe 273.955	2087.4	0.0505	0.00083	mg/L	0.0505	0.00083	ppm	1.65%
K 766.491	729.5	0.1341	0.01874	mg/L	0.1341	0.01874	ppm	13.97%
Mg 279.079	2021.6	0.0459	0.00054	mg/L	0.0459	0.00054	ppm	1.18%
Na 330.237	223.9	0.1999	0.09586	mg/L	0.1999	0.09586	ppm	47.97%

Replicate Data

ID: 3015-3 F=1 Date: 5/2/03 12:04:40 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	16318.6	14592.2	58.14	mg/L	58.14	ppm
1	Fe 273.955	49489.7	48311.0	1.168	mg/L	1.168	ppm
1	K 766.491	79544.6	76150.9	3.150	mg/L	3.150	ppm
1	Mg 279.079	990796.2	989290.0	22.46	mg/L	22.46	ppm
1	Na 330.237	21266.3	15564.5	23.36	mg/L	23.36	ppm
2	Ca 227.547	16256.5	14530.1	57.89	mg/L	57.89	ppm
2	Fe 273.955	49246.4	48067.7	1.162	mg/L	1.162	ppm

2 K 766.491	79539.7	76146.0	3.150 mg/L	3.150 ppm
2 Mg 279.079	991224.1	989717.9	22.47 mg/L	22.47 ppm
2 Na 330.237	21472.9	15771.2	23.67 mg/L	23.67 ppm
3 Ca 227.547	15983.5	14257.0	56.80 mg/L	56.80 ppm
3 Fe 273.955	48766.2	47587.5	1.150 mg/L	1.150 ppm
3 K 766.491	81377.8	77984.2	3.222 mg/L	3.222 ppm
3 Mg 279.079	1008240.8	1006734.6	22.86 mg/L	22.86 ppm
3 Na 330.237	21436.7	15735.0	23.62 mg/L	23.62 ppm

Mean Data

ID: 3015-3 F=1

Sample Qty: 1.0000 mL

Seq. No.: 39

Sample No.: 24

A/S Pos: 33

Prep. Vol.: 1.0 mL

Dilution:

1.0:

1.0

Data: Original

Date: 5/2/03

12:04:40 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	14459.8	57.61	0.710	mg/L	57.61	0.710	ppm	1.23%
Fe 273.955	47988.7	1.160	0.0089	mg/L	1.160	0.0089	ppm	0.77%
K 766.491	76760.3	3.174	0.0416	mg/L	3.174	0.0416	ppm	1.31%
Mg 279.079	995247.5	22.60	0.226	mg/L	22.60	0.226	ppm	1.00%
Na 330.237	15690.3	23.55	0.165	mg/L	23.55	0.165	ppm	0.70%

Replicate Data

ID: 3015-4 F=1

Date: 5/2/03

12:06:53 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	14043.1	12316.7	49.07 mg/L	49.07 ppm
1	Fe 273.955	14312.3	13133.6	0.3174 mg/L	0.3174 ppm
1	K 766.491	62078.2	58684.5	2.461 mg/L	2.461 ppm
1	Mg 279.079	803290.9	801784.7	18.21 mg/L	18.21 ppm
1	Na 330.237	17943.8	12242.1	18.39 mg/L	18.39 ppm
2	Ca 227.547	14266.5	12540.1	49.96 mg/L	49.96 ppm
2	Fe 273.955	14867.6	13688.9	0.3309 mg/L	0.3309 ppm
2	K 766.491	59997.8	56604.1	2.379 mg/L	2.379 ppm
2	Mg 279.079	786505.9	784999.7	17.83 mg/L	17.83 ppm
2	Na 330.237	18550.6	12848.9	19.30 mg/L	19.30 ppm
3	Ca 227.547	14406.8	12680.4	50.52 mg/L	50.52 ppm
3	Fe 273.955	14783.8	13605.1	0.3288 mg/L	0.3288 ppm
3	K 766.491	61263.8	57870.1	2.429 mg/L	2.429 ppm
3	Mg 279.079	797812.7	796306.5	18.08 mg/L	18.08 ppm
3	Na 330.237	18251.4	12549.7	18.85 mg/L	18.85 ppm

Mean Data

ID: 3015-4 F=1

Sample Qty: 1.0000 mL

Seq. No.: 40

Sample No.: 25

A/S Pos: 34

Prep. Vol.: 1.0 mL

Dilution:

1.0:

1.0

Data: Original

Date: 5/2/03

12:06:53 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	12512.4	49.85	0.731	mg/L	49.85	0.731	ppm	1.47%
Fe 273.955	13475.8	0.3257	0.00724	mg/L	0.3257	0.00724	ppm	2.22%
K 766.491	57719.6	2.423	0.0415	mg/L	2.423	0.0415	ppm	1.71%
Mg 279.079	794363.7	18.04	0.194	mg/L	18.04	0.194	ppm	1.08%
Na 330.237	12546.9	18.85	0.455	mg/L	18.85	0.455	ppm	2.41%

Replicate Data

ID: 3015-5 F=1

Date: 5/2/03

12:09:06 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	9099.8	7373.4	29.38 mg/L	29.38 ppm
1	Fe 273.955	12873.9	11695.2	0.2827 mg/L	0.2827 ppm
1	K 766.491	78743.2	75349.5	3.118 mg/L	3.118 ppm
1	Mg 279.079	633424.9	631918.7	14.35 mg/L	14.35 ppm
1	Na 330.237	33771.1	28069.4	41.88 mg/L	41.88 ppm

2 Ca 227.547	9474.3	7747.8	30.87 mg/L	30.87 ppm
2 Fe 273.955	13497.3	12318.6	0.2977 mg/L	0.2977 ppm
2 K 766.491	76854.3	73460.6	3.044 mg/L	3.044 ppm
2 Mg 279.079	618729.6	617223.4	14.02 mg/L	14.02 ppm
2 Na 330.237	35689.7	29988.0	44.69 mg/L	44.69 ppm
3 Ca 227.547	9057.5	7331.1	29.21 mg/L	29.21 ppm
3 Fe 273.955	12873.9	11695.2	0.2827 mg/L	0.2827 ppm
3 K 766.491	75073.4	71679.7	2.974 mg/L	2.974 ppm
3 Mg 279.079	607707.8	606201.6	13.77 mg/L	13.77 ppm
3 Na 330.237	33569.9	27868.2	41.58 mg/L	41.58 ppm

Mean Data

ID: 3015-5 F=1 Seq. No.: 41 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: 5/2/03 12:09:06 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	7484.1	29.82	0.914	mg/L	29.82	0.914	ppm	3.06%
Fe 273.955	11903.0	0.2877	0.00870	mg/L	0.2877	0.00870	ppm	3.02%
K 766.491	73496.6	3.046	0.0722	mg/L	3.046	0.0722	ppm	2.37%
Mg 279.079	618447.9	14.04	0.293	mg/L	14.04	0.293	ppm	2.09%
Na 330.237	28641.9	42.72	1.716	mg/L	42.72	1.716	ppm	4.02%

Replicate Data

ID: 3015-6 F=1 Date: 5/2/03 12:11:21 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	4182.5	2456.1	9.785	mg/L	9.785	ppm
1	Fe 273.955	7292.3	6113.5	0.1478	mg/L	0.1478	ppm
1	K 766.491	52366.0	48972.3	2.075	mg/L	2.075	ppm
1	Mg 279.079	310914.9	309408.7	7.026	mg/L	7.026	ppm
1	Na 330.237	38383.0	32681.2	48.63	mg/L	48.63	ppm
2	Ca 227.547	4207.4	2480.9	9.884	mg/L	9.884	ppm
2	Fe 273.955	7032.5	5853.8	0.1415	mg/L	0.1415	ppm
2	K 766.491	50363.4	46969.7	1.996	mg/L	1.996	ppm
2	Mg 279.079	303198.9	301692.8	6.851	mg/L	6.851	ppm
2	Na 330.237	37791.2	32089.5	47.76	mg/L	47.76	ppm
3	Ca 227.547	4084.6	2358.2	9.395	mg/L	9.395	ppm
3	Fe 273.955	6913.1	5734.4	0.1386	mg/L	0.1386	ppm
3	K 766.491	48836.0	45442.3	1.935	mg/L	1.935	ppm
3	Mg 279.079	293039.8	291533.6	6.620	mg/L	6.620	ppm
3	Na 330.237	36816.2	31114.5	46.34	mg/L	46.34	ppm

Mean Data

ID: 3015-6 F=1 Seq. No.: 42 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: 5/2/03 12:11:21 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	2431.7	9.688	0.2586	mg/L	9.688	0.2586	ppm	2.67%
Fe 273.955	5900.6	0.1426	0.00469	mg/L	0.1426	0.00469	ppm	3.29%
K 766.491	47128.1	2.002	0.0705	mg/L	2.002	0.0705	ppm	3.52%
Mg 279.079	300878.4	6.832	0.2036	mg/L	6.832	0.2036	ppm	2.98%
Na 330.237	31961.8	47.58	1.156	mg/L	47.58	1.156	ppm	2.43%

Replicate Data

ID: 3015-7 F=1 Date: 5/2/03 12:13:34 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	2155.3	428.9	1.709	mg/L	1.709	ppm
1	Fe 273.955	33887.5	32708.8	0.7906	mg/L	0.7906	ppm
1	K 766.491	30667.2	27273.5	1.208	mg/L	1.208	ppm
1	Mg 279.079	12588.2	11082.0	0.2516	mg/L	0.2516	ppm

1 Na 330.237	58773.0	53071.3	77.99 mg/L	77.99 ppm
2 Ca 227.547	2145.7	419.2	1.670 mg/L	1.670 ppm
2 Fe 273.955	33571.9	32393.2	0.7830 mg/L	0.7830 ppm
2 K 766.491	30404.8	27011.1	1.197 mg/L	1.197 ppm
2 Mg 279.079	12545.2	11039.1	0.2507 mg/L	0.2507 ppm
2 Na 330.237	57691.6	51989.9	76.45 mg/L	76.45 ppm
3 Ca 227.547	2223.1	496.6	1.979 mg/L	1.979 ppm
3 Fe 273.955	33965.9	32787.2	0.7925 mg/L	0.7925 ppm
3 K 766.491	29810.7	26417.0	1.173 mg/L	1.173 ppm
3 Mg 279.079	12485.8	10979.7	0.2493 mg/L	0.2493 ppm
3 Na 330.237	58350.5	52648.8	77.39 mg/L	77.39 ppm

Mean Data

ID: 3015-7 F=1
 Sample Qty: 1.0000 mL
 Seq. No.: 43
 Prep. Vol.:
 Data: Original
 Sample No.: 28
 Dilution: 1.0: 1.0
 Date: 5/2/03 12:13:34 PM
 A/S Pos: 37

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	448.2	1.786	0.1680	mg/L	1.786	0.1680	ppm	9.41%
Fe 273.955	32629.7	0.7887	0.00504	mg/L	0.7887	0.00504	ppm	0.64%
K 766.491	26900.5	1.193	0.0176	mg/L	1.193	0.0176	ppm	1.48%
Mg 279.079	11033.6	0.2505	0.00117	mg/L	0.2505	0.00117	ppm	0.47%
Na 330.237	52570.0	77.27	0.775	mg/L	77.27	0.775	ppm	1.00%

Replicate Data

ID: ICSA 1441
 Date: 5/2/03 12:15:54 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	127738.5	126012.1	505.8 mg/L	
1	Fe 273.955	8006658.8	8005480.1	193.5 mg/L	
1	K 766.491	4819.9	1426.2	0.1625 mg/L	
1	Mg 279.079	21371889.3	21370383.1	485.3 mg/L	
1	Na 330.237	5713.8	12.1	-0.1235 mg/L	
2	Ca 227.547	128361.9	126635.5	508.3 mg/L	
2	Fe 273.955	7961509.9	7960331.2	192.4 mg/L	
2	K 766.491	5227.1	1833.4	0.1790 mg/L	
2	Mg 279.079	21241994.8	21240488.6	482.3 mg/L	
2	Na 330.237	5636.8	-64.9	-0.2411 mg/L	
3	Ca 227.547	130380.5	128654.1	516.3 mg/L	
3	Fe 273.955	7927653.4	7926474.7	191.6 mg/L	
3	K 766.491	4968.1	1574.4	0.1685 mg/L	
3	Mg 279.079	21139233.2	21137727.1	480.0 mg/L	
3	Na 330.237	5609.1	-92.6	-0.2834 mg/L	

Mean Data

ID: ICSA 1441
 Sample Qty: 1.0000 g
 Seq. No.: 44
 Prep. Vol.:
 Data: Original
 Sample No.: 3
 Dilution: 1.0: 1.0
 Date: 5/2/03 12:15:54 PM
 A/S Pos: 7

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	127100.5	510.1	5.48	mg/L				1.08%
Fe 273.955	7964095.3	192.5	0.96	mg/L				0.50%
K 766.491	1611.4	0.1700	0.00839	mg/L				4.93%
Mg 279.079	21249532.9	482.5	2.65	mg/L				0.55%
Na 330.237	-48.5	-0.2160	0.08282	mg/L				38.34%

Method: 5ME-1 ICP-M
 Results: 03M1421M
 Sample Info: 03m1421m
 Method Description: 6010B/200.7--KNaCaMgFe 4/16/03

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

MSF:
 Method Stored: Yes
 Date: 5/2/03 12:27:52 PM

Calibration Summary

Method: 5ME-1 ICP-M

Date: 5/2/03 12:28:11 PM

Element	Stds	Equation	Intercept	Slope	Curvature	Corr. Coeff.
Ca 227.547	3	Linear-thru-Zero	0.0	251.0	0.00000	0.999963
Fe 273.955	3	Linear-thru-Zero	0.0	41372.8	0.00000	0.999863
K 766.491	3	Non-Linear	-2562.1	24526.5	146.68897	0.998878
Mg 279.079	3	Linear-thru-Zero	0.0	44037.6	0.00000	0.999910
Na 330.237	3	Non-Linear	93.0	654.9	0.31274	0.999656

Replicate Data

ID: ICSAB 1443

Date: 5/2/03 12:29:14 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	123349.2	121622.8	488.0	mg/L		
1	Fe 273.955	7356731.6	7355552.9	177.8	mg/L		
1	K 766.491	4522.7	1129.0	0.1504	mg/L		
1	Mg 279.079	19914467.8	19912961.7	452.2	mg/L		
1	Na 330.237	5672.2	-29.6	-0.1871	mg/L		
2	Ca 227.547	123999.6	122273.1	490.6	mg/L		
2	Fe 273.955	7416751.3	7415572.6	179.2	mg/L		
2	K 766.491	4956.8	1563.1	0.1680	mg/L		
2	Mg 279.079	20141136.0	20139629.9	457.3	mg/L		
2	Na 330.237	5593.7	-108.0	-0.3069	mg/L		
3	Ca 227.547	123186.7	121460.3	487.4	mg/L		
3	Fe 273.955	7376502.0	7375323.3	178.3	mg/L		
3	K 766.491	4770.0	1376.3	0.1604	mg/L		
3	Mg 279.079	19986846.1	19985339.9	453.8	mg/L		
3	Na 330.237	5603.6	-98.1	-0.2917	mg/L		

Mean Data

ID: ICSAB 1443

Sample Qty: 1.0000 g

Seq. No.: 45

Sample No.: 4

A/S Pos: 8

Prep. Vol.: 1.0 L

Dilution: 1.0: 1.0

Data: Original

Date: 5/2/03 12:29:14 PM

Element	Mean Intensity	Mean Conc.	Std.Dev.	Calib Units	Mean Conc.	Std.Dev.	Sample Units	RSD
Ca 227.547	121785.4	488.7	1.73	mg/L				0.35%
Fe 273.955	7382149.6	178.4	0.74	mg/L				0.41%
K 766.491	1356.1	0.1596	0.00886	mg/L				5.55%
Mg 279.079	20012643.8	454.4	2.63	mg/L				0.58%
Na 330.237	-78.6	-0.2619	0.06524	mg/L				24.91%

Replicate Data

ID: CCV 1447B

Date: 5/2/03 12:31:38 PM

Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc.	Units	Sample Conc.	Units
1	Ca 227.547	14603.5	12877.1	51.30	mg/L		
1	Fe 273.955	226661.3	225482.6	5.450	mg/L		
1	K 766.491	411138.0	407744.3	15.32	mg/L		
1	Mg 279.079	1158632.7	1157126.6	26.28	mg/L		
1	Na 330.237	79615.4	73913.6	107.2	mg/L		
2	Ca 227.547	14232.6	12506.2	49.83	mg/L		
2	Fe 273.955	220377.1	219198.3	5.298	mg/L		
2	K 766.491	417970.6	414576.9	15.56	mg/L		
2	Mg 279.079	1121112.5	1119606.4	25.42	mg/L		

2 Na 330.237	77668.1	71966.4	104.5 mg/L
3 Ca 227.547	14814.9	13088.4	52.14 mg/L
3 Fe 273.955	229007.7	227829.0	5.507 mg/L
3 K 766.491	432142.7	428749.0	16.05 mg/L
3 Mg 279.079	1144953.5	1143447.3	25.97 mg/L
3 Na 330.237	80635.3	74933.6	108.6 mg/L

Mean Data

ID: CCV 1447B	Seq. No.: 46	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: 5/2/03	12:31:38 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev. Units	Calib Units	Mean Conc.	Std.Dev. Units	Sample Units	RSD
Ca 227.547	12823.9	51.09	1.174	mg/L				2.30%
Fe 273.955	224170.0	5.418	0.1079	mg/L				1.99%
K 766.491	417023.4	15.64	0.368	mg/L				2.35%
Mg 279.079	1140060.1	25.89	0.431	mg/L				1.67%
Na 330.237	73604.5	106.8	2.09	mg/L				1.96%

Replicate Data

ID: CCB	Date: 5/2/03	12:33:59 PM
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Repl#	Element	Net Intensity	Corrected Intensity	Calib Conc. Units	Sample Conc. Units
1	Ca 227.547	1578.7	-147.8	-0.5887 mg/L	
1	Fe 273.955	2912.7	1734.0	0.0419 mg/L	
1	K 766.491	3967.2	573.5	0.1277 mg/L	
1	Mg 279.079	2928.9	1422.7	0.0323 mg/L	
1	Na 330.237	5636.2	-65.5	-0.2420 mg/L	
2	Ca 227.547	1700.1	-26.4	-0.1050 mg/L	
2	Fe 273.955	2968.0	1789.3	0.0432 mg/L	
2	K 766.491	3795.5	401.8	0.1208 mg/L	
2	Mg 279.079	3017.3	1511.2	0.0343 mg/L	
2	Na 330.237	5874.4	172.7	0.1217 mg/L	
3	Ca 227.547	1791.6	65.2	0.2597 mg/L	
3	Fe 273.955	2864.7	1686.0	0.0408 mg/L	
3	K 766.491	3637.3	243.6	0.1143 mg/L	
3	Mg 279.079	3019.2	1513.0	0.0344 mg/L	
3	Na 330.237	5805.5	103.8	0.0165 mg/L	

Mean Data

ID: CCB	Seq. No.: 47	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: 5/2/03	12:33:59 PM

Element	Mean Corr. Intensity	Mean Conc.	Std.Dev. Units	Calib Units	Mean Conc.	Std.Dev. Units	Sample Units	RSD
Ca 227.547	-36.3	-0.1447	0.42557	mg/L				294.11%
Fe 273.955	1736.4	0.0420	0.00125	mg/L				2.98%
K 766.491	406.3	0.1209	0.00672	mg/L				5.55%
Mg 279.079	1482.3	0.0337	0.00117	mg/L				3.48%
Na 330.237	70.3	-0.0346	0.18716	mg/L				541.22%

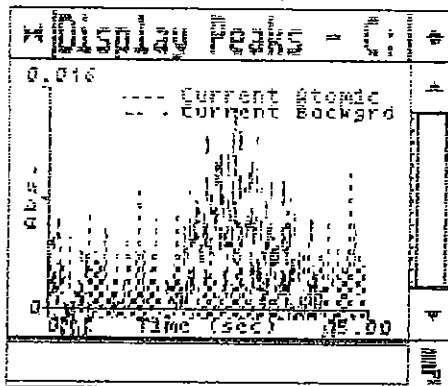
gws 5/2/03

Element File: AS 7060.GEL	Element: As	Wavelength: 193.7
Date: 05/02/03	Time: 14:05	Slit: 0.70
Data File: 03M1423E.DAT	ID/Wt File: 1.IDW	Lamp Current: 0
Technique: HGA	Calib. Type: Linear	Energy: 53

s ID: Calib. Blank Seq. No.: 00001 A/S Pos.: 1 Date: 05/02/99

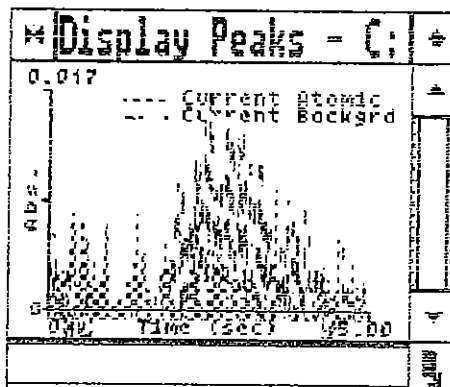
Volume dispensed: 5 from 20, 20 from 1
 Replicate 1
 Peak Area (A-s): -0.002
 Background Pk Area (A-s): -0.005
 Blank Corrected Pk Area (A-s): 0.005
 Concentration (mg/L): 0.0017

Time: 14:07
 Peak Height (A): 0.010
 Background Pk Height (A): 0.016



Volume dispensed: 5 from 20, 20 from 1
 Replicate 2
 Peak Area (A-s): -0.002
 Background Pk Area (A-s): -0.002
 Blank Corrected Pk Area (A-s): 0.005
 Concentration (mg/L): 0.0016

Time: 14:11
 Peak Height (A): 0.009
 Background Pk Height (A): 0.017



In Conc (mg/L): 0.0017 SD: 0.00004 PSD(%): 2.61

Zero performed.

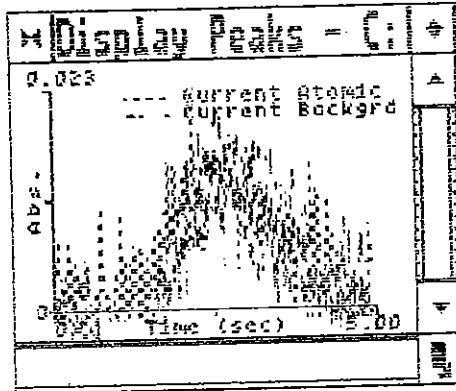
Y2K non-compliance
 Software. The date
 not 05/02/99. The
 date should be
 5/2/03.

gws 5/2/03

uL dispensed: 10 from 0, 5 from 20, 10 from 4

Replicate 1
Peak Area (A-s): 0.028
Background Pk Area (A-s): 0.018
Blank Corrected Pk Area (A-s): 0.030
Concentration (mg/L): 0.0105

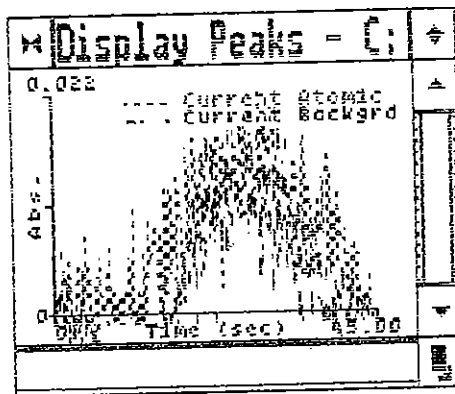
Time: 14:14
Peak Height (A): 0.023
Background Pk Height (A): 0.020



uL dispensed: 10 from 0, 5 from 20, 10 from 4

Replicate 2
Peak Area (A-s): 0.035
Background Pk Area (A-s): 0.013
Blank Corrected Pk Area (A-s): 0.038
Concentration (mg/L): 0.0134

Time: 14:17
Peak Height (A): 0.022
Background Pk Height (A): 0.020



Mean Conc (mg/L): 0.0120 SD: 0.00197 RSD(%): 16.43

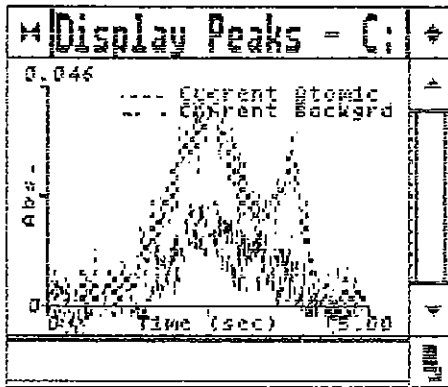
Standard number 1 applied. [0.0125]
Correlation coefficient: 1.00000 Slope: 2.7064

As ID: STD1:1472A Seq. No.: 00003 A/S Pos.: 4 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 4

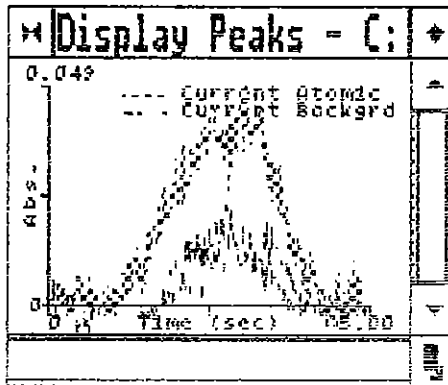
Replicate 1
Peak Area (A-s): 0.075
Background Pk Area (A-s): 0.018
Blank Corrected Pk Area (A-s): 0.077
Concentration (mg/L): 0.0285

Time: 14:20
Peak Height (A): 0.046
Background Pk Height (A): 0.022



i dispensed: 5 from 20, 20 from 4
 replicate 2
 Peak Area (A-s): 0.077
 Background Pk Area (A-s): 0.011
 Blank Corrected Pk Area (A-s): 0.079
 Concentration (mg/L): 0.0293

Time: 14:23
 Peak Height (A): 0.049
 Background Pk Height (A): 0.023



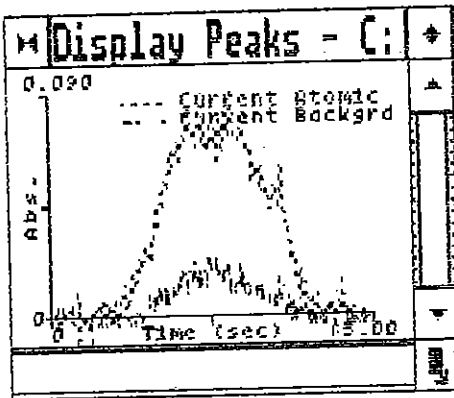
Mean Conc (mg/L): 0.0289 SD: 0.00054 RSD(3): 1.86

Standard number 2 applied. [0.0250]
 Correlation coefficient: 0.98468 Slope: 3.0517

ID: STD2 1472B Seq. No.: 00004 A/S Pos.: 3 Date: 05/02/99

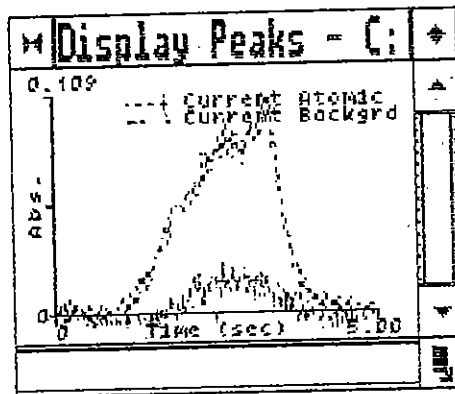
i dispensed: 5 from 20, 20 from 3
 replicate 1
 Peak Area (A-s): 0.152
 Background Pk Area (A-s): 0.020
 Blank Corrected Pk Area (A-s): 0.154
 Concentration (mg/L): 0.0504

Time: 14:26
 Peak Height (A): 0.090
 Background Pk Height (A): 0.025



uL dispensed: 5 from 20, 20 from 3
 Replicate 2
 Peak Area (A-s): 0.162
 Background Pk Area (A-s): 0.011
 Blank Corrected Pk Area (A-s): 0.164
 Concentration (mg/L): 0.0539

Time: 14:29
 Peak Height (A): 0.109
 Background Pk Height (A): 0.025



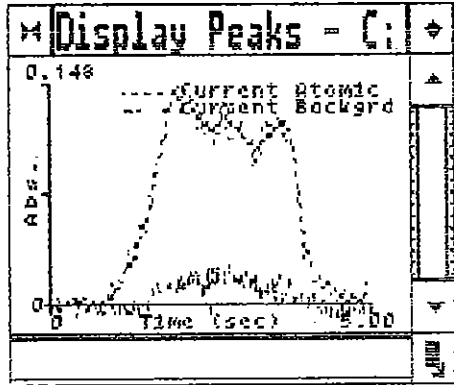
Mean Conc (mg/L): 0.0521 SD: 0.00243 RSD(%): 4.66

Standard number 3 applied. [0.0500]
 Correlation coefficient: 0.99767 Slope: 3.1520

 As ID: STD3 1472C Seq. No.: 00005 A/S Pos.: 2 Date: 05/02/99

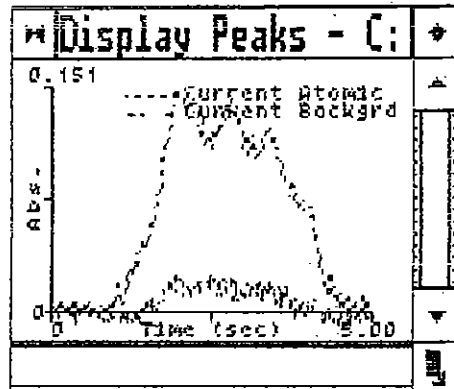
uL dispensed: 5 from 20, 20 from 2
 Replicate 1
 Peak Area (A-s): 0.311
 Background Pk Area (A-s): 0.024
 Blank Corrected Pk Area (A-s): 0.313
 Concentration (mg/L): 0.0993

Time: 14:33
 Peak Height (A): 0.148
 Background Pk Height (A): 0.029

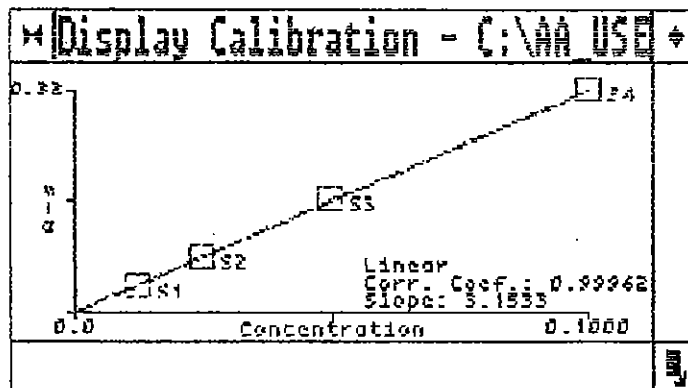


L dispensed: 5 from 20, 20 from 2
 replicate 2
 Peak Area (A-s): 0.315
 background Pk Area (A-s): 0.026
 blank Corrected Pk Area (A-s): 0.318
 concentration (mg/L): 0.1008

Time: 14:36
 Peak Height (A): 0.151
 Background Pk Height (A): 0.025



Mean Conc (mg/L): 0.1001 SD: 0.00103 RSD(%): 1.03
 Standard number 4 applied. [0.1000]
 Correlation coefficient: 0.99962 Slope: 3.1533



ID: ICV A1474

Seq. No.: 00006

A/S Pos.: 40

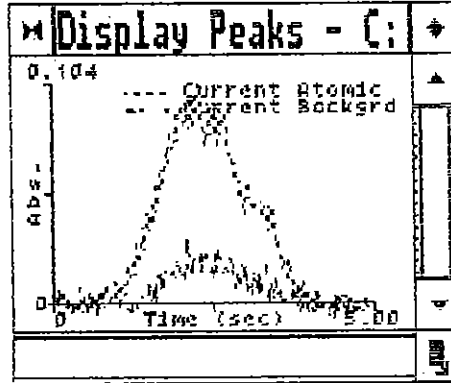
Date: 05/02/99

dispensed: 5 from 20, 20 from 40
uplicate 1

Time: 14:42

Area (A-s): 0.153
Background Pk Area (A-s): 0.022
Peak Corrected Pk Area (A-s): 0.156
Concentration (mg/L): 0.0494

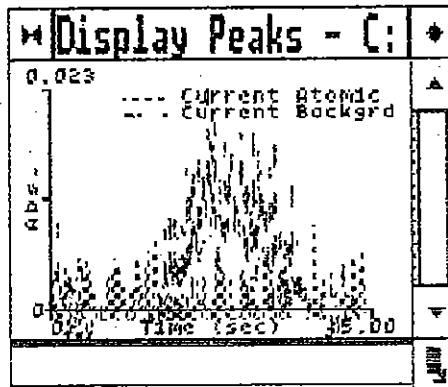
Peak Height (A): 0.104
Background Pk Height (A): 0.031
Corrected Conc (ppm): -----



dispensed: 5 from 20, 20 from 1
uplicate 2
Date: 05/02/95

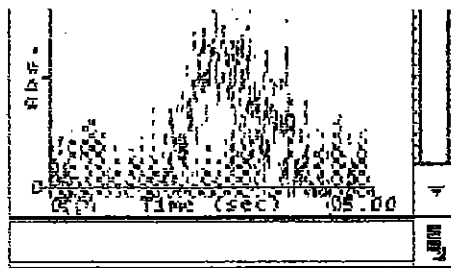
Peak Area (A-s): -0.003
Background Pk Area (A-s): 0.005
Peak Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0002

Peak Height (A): 0.009
Background Pk Height (A): 0.023
Corrected Conc (ppm): -----



dispensed: 5 from 20, 20 from 1
uplicate 2
Peak Area (A-s): -0.001
Background Pk Area (A-s): 0.002
Peak Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0006

Time: 14:52
Peak Height (A): 0.009
Background Pk Height (A): 0.020
Corrected Conc (ppm): -----

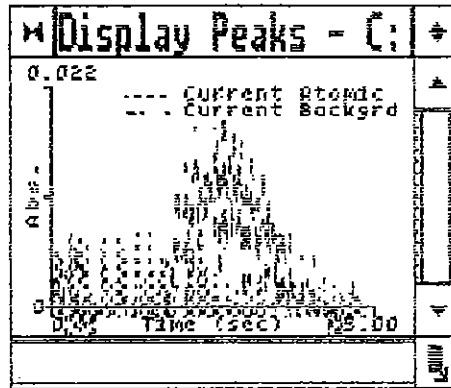


Mean Conc (mg/L): 0.0002 SD: 0.00051 RSD(%): 248.05
 Corrected Conc (ppm): -----

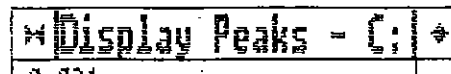
QC sample is within range

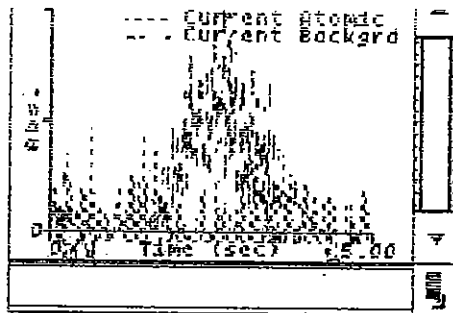
As ID: M-BL 03M1423 Seq. No.: 00008 A/S Pos.: 5 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 5
 Replicate 1 Time: 14:55
 Peak Area (A-s): -0.006 Peak Height (A): 0.008
 Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.022
 Blank Corrected Pk Area (A-s): -0.004
 Concentration (mg/L): -0.0011 Corrected Conc (ppm): -0.0011



uL dispensed: 5 from 20, 20 from 5
 Replicate 2 Time: 14:58
 Peak Area (A-s): -0.005 Peak Height (A): 0.010
 Background Pk Area (A-s): 0.000 Background Pk Height (A): 0.021
 Blank Corrected Pk Area (A-s): -0.002
 Concentration (mg/L): -0.0007 Corrected Conc (ppm): -0.0007



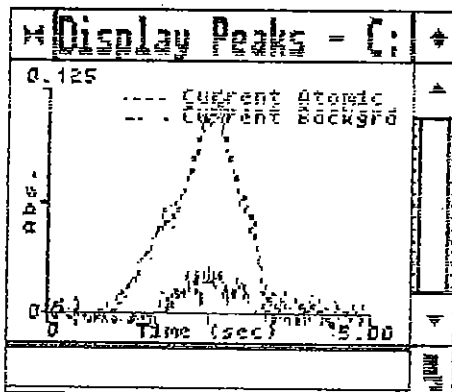


Mean Conc (mg/L): -0.0009 SD: 0.00030 RSD(%): 32.73
 Corrected Conc (ppm): -0.0009

As ID: LCS-03M1423 Seq. No.: 00009 A/S Pos.: 6 Date: 05/02/99

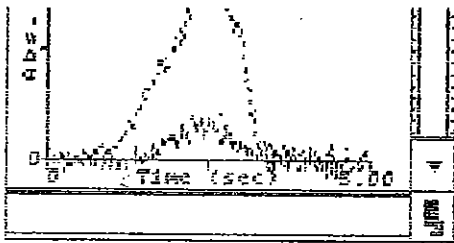
uL dispensed: 5 from 20, 20 from 6

Replicate 1 Time: 15:01
 Peak Area (A-s): 0.146 Peak Height (A): 0.125
 Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.026
 Blank Corrected Pk Area (A-s): 0.148
 Concentration (mg/L): 0.0471 Corrected Conc (ppm): 0.0471



uL dispensed: 5 from 20, 20 from 6

Replicate 2 Time: 15:04
 Peak Area (A-s): 0.148 Peak Height (A): 0.132
 Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.028
 Blank Corrected Pk Area (A-s): 0.151
 Concentration (mg/L): 0.0478 Corrected Conc (ppm): 0.0478



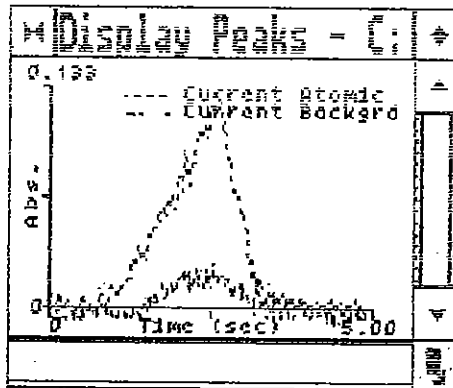
an Conc (mg/L): 0.0474 SD: 0.00052 PSD(%) : 1.09
 rrected Conc (ppm): 0.0474

ID: LCSD-03M1423 Seq. No.: 00010 A/S Pos.: 7 Date: 05/02/99

dispensed: 5 from 20, 20 from 7
 plicate 1

Peak Area (A-s): 0.148
 Background Pk Area (A-s): 0.012
 Peak Corrected Pk Area (A-s): 0.150
 Concentration (mg/L): 0.0476

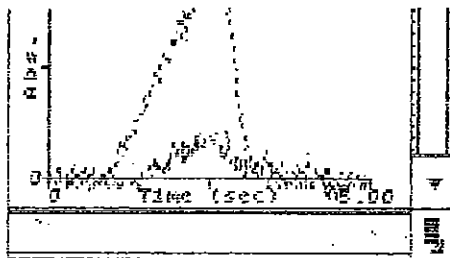
Time: 15:07
 Peak Height (A): 0.133
 Background Pk Height (A): 0.029
 Corrected Conc (ppm): 0.0476



dispensed: 5 from 20, 20 from 7
 plicate 2
 Peak Area (A-s): 0.148
 Background Pk Area (A-s): 0.011
 Peak Corrected Pk Area (A-s): 0.150
 Concentration (mg/L): 0.0476

Time: 15:11
 Peak Height (A): 0.124
 Background Pk Height (A): 0.029
 Corrected Conc (ppm): 0.0476

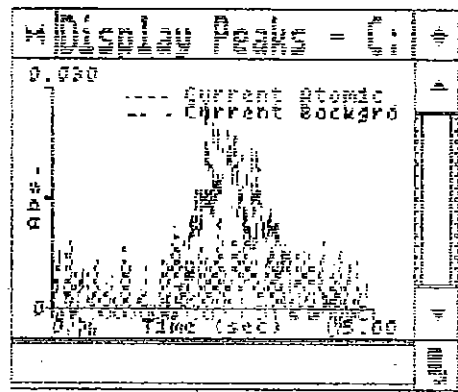




Mean Conc (mg/L): 0.0476 SD: 0.00003 RSD(%): 0.06
 Corrected Conc (ppm): 0.0476

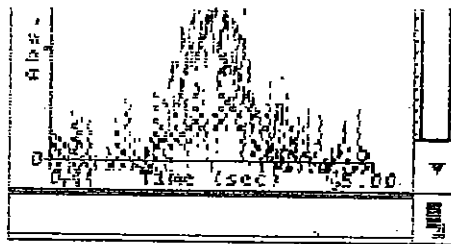
As ID: 2987-6 S P=1 Seq. No.: 00011 A/S Pos.: 8 Date: 05/02/99

ul dispensed: 5 from 20, 20 from 8
 Replicate 1 Time: 15:14
 Peak Area (A-s): 0.008 Peak Height (A): 0.013
 Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.030
 Blank Corrected Pk Area (A-s): 0.010
 Concentration (mg/L): 0.0033 Corrected Conc (ppm): 0.0033



ul dispensed: 5 from 20, 20 from 8
 Replicate 2 Time: 15:17
 Peak Area (A-s): 0.008 Peak Height (A): 0.015
 Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.031
 Blank Corrected Pk Area (A-s): 0.010
 Concentration (mg/L): 0.0032 Corrected Conc (ppm): 0.0032

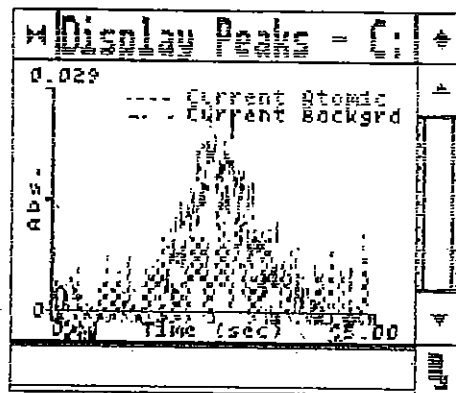




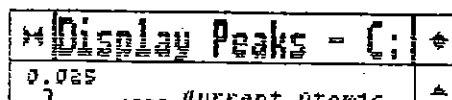
Mean Conc (mg/L): 0.0032 SD: 0.00005 RSD(%): 1.44
 Corrected Conc (ppm): 0.0032

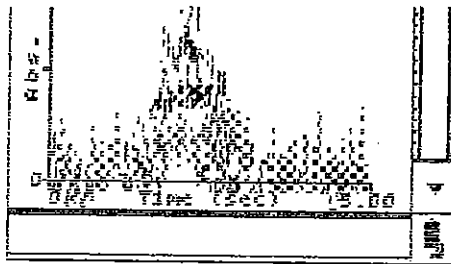
As ID: 2987-6 D P=1 Seq. No.: 00012 A/S Pos.: 9 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 9
 Replicate 1 Time: 15:20
 Peak Area (A-s): 0.008 Peak Height (A): 0.012
 Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.029
 Blank Corrected Pk Area (A-s): 0.010
 Concentration (mg/L): 0.0032 Corrected Conc (ppm): 0.0032



uL dispensed: 5 from 20, 20 from 9
 Replicate 2 Time: 15:24
 Peak Area (A-s): 0.007 Peak Height (A): 0.016
 Background Pk Area (A-s): -0.009 Background Pk Height (A): 0.026
 Blank Corrected Pk Area (A-s): 0.009
 Concentration (mg/L): 0.0029 Corrected Conc (ppm): 0.0029

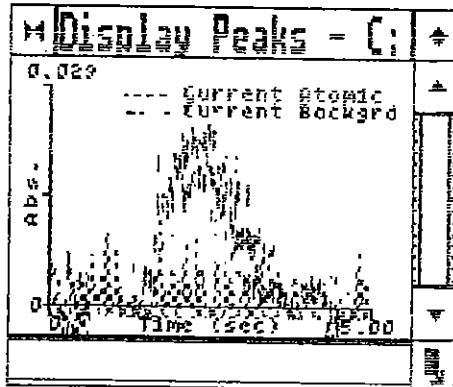




Mean Conc (mg/L): 0.0030 SD: 0.00024 RSD(%): 7.99
 Corrected Conc (ppm): 0.0030

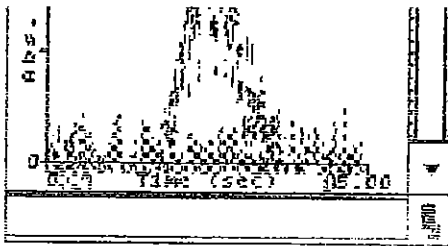
As ID: 2987-6 1/5 P=5 Seq. No.: 00013 A/S Pos.: 10 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 10
 Replicate 1 Time: 15:27
 Peak Area (A-s): -0.001 Peak Height (A): 0.012
 Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.029
 Blank Corrected Pk Area (A-s): 0.001
 Concentration (mg/L): 0.0004 Corrected Conc (ppm): 0.002



uL dispensed: 5 from 20, 20 from 10
 Replicate 2 Time: 15:30
 Peak Area (A-s): -0.000 Peak Height (A): 0.012
 Background Pk Area (A-s): 0.010 Background Pk Height (A): 0.028
 Blank Corrected Pk Area (A-s): 0.002
 Concentration (mg/L): 0.0006 Corrected Conc (ppm): 0.003



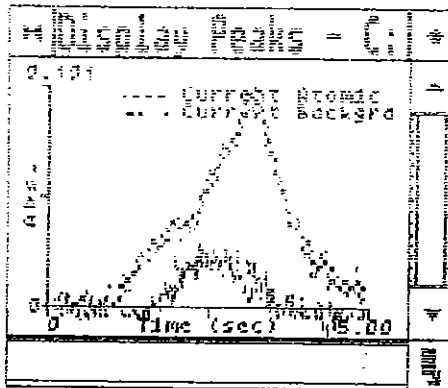


Mean Conc (mg/L): 0.0005 SD: 0.00017 935141: 84.14
 Corrected Conc (ppm): 0.003

As ID: 2987-6 MS F-1 Seg No.: 00014 A/S Pos.: 11 Date: 06/02/99

uL dispensed: 5 from 20, 11 from 11

Replicate 1 Time: 15:35
 Peak Area (A-s): 0.168 Peak Height (A): 0.101
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.030
 Blank Corrected Pk Area (A-s): 0.151
 Concentration (mg/L): 0.0521 Corrected Conc (ppm): 0.0521



uL dispensed: 5 from 20, 20 from 11
 Replicate 2 Time: 15:37
 Peak Area (A-s): 0.169 Peak Height (A): 0.106
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.030
 Blank Corrected Pk Area (A-s): 0.171
 Concentration (mg/L): 0.0543 Corrected Conc (ppm): 0.0543

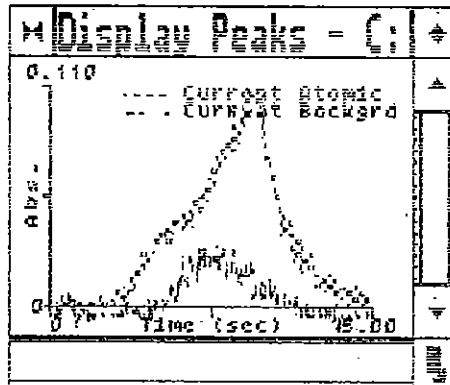
Display Peaks - C: 0.106



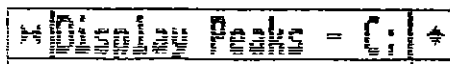
Mean Conc (mg/L): 0.0532 SD: 0.00156 RSD(%): 2.94
 Corrected Conc (ppm): 0.0532

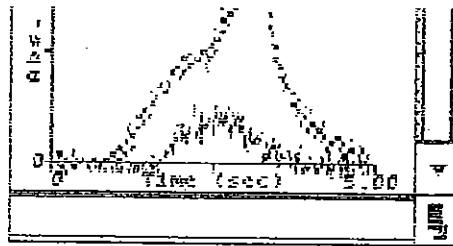
As ID: 2987-6 MSD F=1 Seq. No.: 00015 A/S Pos.: 12 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 12
 Replicate 1 Time: 15:40
 Peak Area (A-s): 0.162 Peak Height (A): 0.110
 Background Pk Area (A-s): 0.017 Background Pk Height (A): 0.032
 Blank Corrected Pk Area (A-s): 0.164
 Concentration (mg/L): 0.0519 Corrected Conc (ppm): 0.0519



uL dispensed: 5 from 20, 20 from 12
 Replicate 2 Time: 15:43
 Peak Area (A-s): 0.166 Peak Height (A): 0.113
 Background Pk Area (A-s): 0.020 Background Pk Height (A): 0.031
 Blank Corrected Pk Area (A-s): 0.168
 Concentration (mg/L): 0.0533 Corrected Conc (ppm): 0.0533





Mean Conc (mg/L): 0.0526 SD: 0.00098 RSD(%): 1.86
 Corrected Conc (ppm): 0.0526

As ID: 2987-6 PS F=1 Seq. No.: 00016 A/S Pos.: 13 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 13

Replicate 1

Peak Area (A-s): 0.167

Background Pk Area (A-s): 0.016

Blank Corrected Pk Area (A-s): 0.169

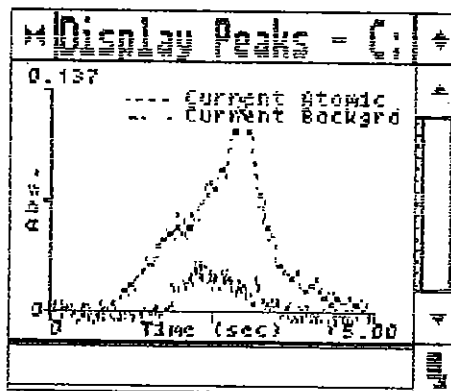
Concentration (mg/L): 0.0538

Time: 15:46

Peak Height (A): 0.137

Background Pk Height (A): 0.032

Corrected Conc (ppm): 0.0538



uL dispensed: 5 from 20, 20 from 13

Replicate 2

Peak Area (A-s): 0.164

Background Pk Area (A-s): 0.018

Blank Corrected Pk Area (A-s): 0.167

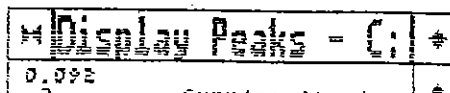
Concentration (mg/L): 0.0528

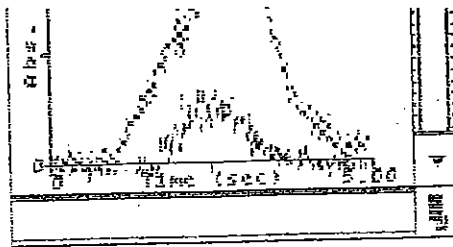
Time: 15:50

Peak Height (A): 0.092

Background Pk Height (A): 0.031

Corrected Conc (ppm): 0.0528



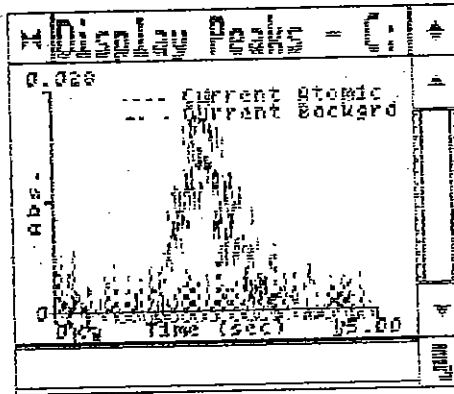


Mean Conc (mg/L): 0.0533 SD: 0.00066 RSD(%): 1.23
 Corrected Conc (ppm): 0.0533

As ID: 2987-1 F=1 Seq. No.: 00017 A/S Pos.: 14 Date: 05/02/99

ul dispensed: 5 from 20, 20 from 14

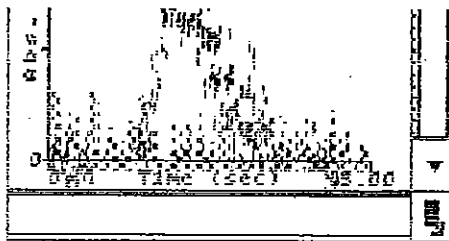
Replicate 1 Time: 15:53
 Peak Area (A-s): -0.004 Peak Height (A): 0.009
 Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.028
 Blank Corrected Pk Area (A-s): -0.002
 Concentration (mg/L): -0.0007 , Corrected Conc (ppm): -0.0007



ul dispensed: 5 from 20, 20 from 14

Replicate 2 Time: 15:56
 Peak Area (A-s): -0.003 Peak Height (A): 0.009
 Background Pk Area (A-s): 0.009 Background Pk Height (A): 0.027
 Blank Corrected Pk Area (A-s): -0.001
 Concentration (mg/L): -0.0004 Corrected Conc (ppm): -0.0004

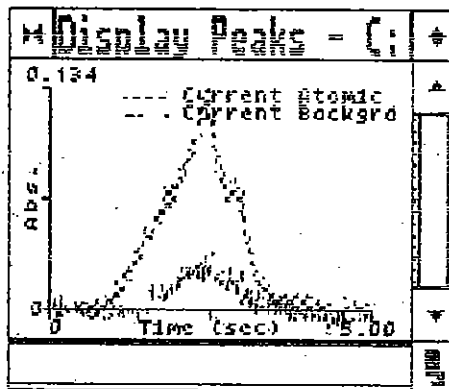




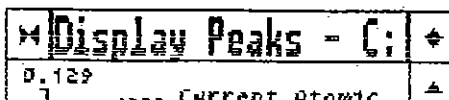
Mean Conc (mg/L): -0.0005 SD: 0.00022 RSD(%): 43.29
 Corrected Conc (ppm): -0:0005

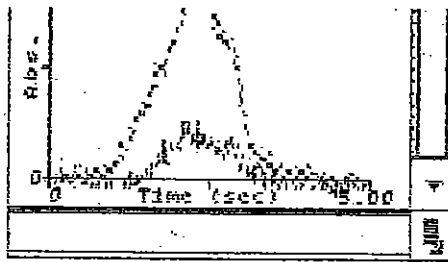
As ID: CCV A1474 Seq. No.: 00018 A/S Pos.: 40 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 40
 Replicate 1 Time: 15:59
 Peak Area (A-s): 0.151 Peak Height (A): 0.134
 Background Pk Area (A-s): 0.019 Background Pk Height (A): 0.035
 Blank Corrected Pk Area (A-s): 0.154
 Concentration (mg/L): 0.0488 Corrected Conc (ppm): -----



uL dispensed: 5 from 20, 20 from 40
 Replicate 2 Time: 16:02
 Peak Area (A-s): 0.156 Peak Height (A): 0.130
 Background Pk Area (A-s): 0.016 Background Pk Height (A): 0.037
 Blank Corrected Pk Area (A-s): 0.158
 Concentration (mg/L): 0.0501 Corrected Conc (ppm): -----



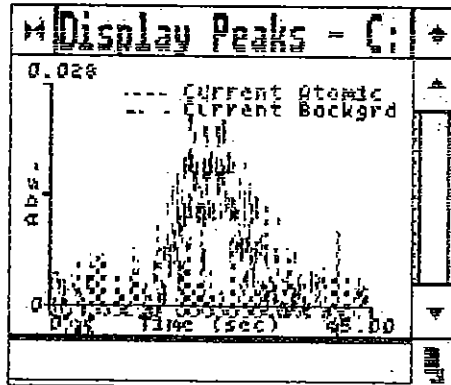


Mean Conc (mg/L): 0.0494 SD: 0.00093 RSD(%): 1.98
 Corrected Conc (ppm): -----

QC sample is within range 0.0425 - 0.0575

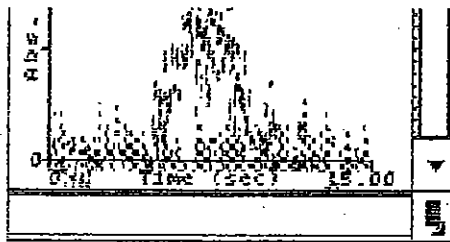
As ID: CCB Seq. No.: 00019 A/S Pos.: 1 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 1
 Replicate 1 Time: 16:05
 Peak Area (A-s): -0.004 Peak Height (A): 0.013
 Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.028
 Blank Corrected Pk Area (A-s): -0.002
 Concentration (mg/L): -0.0005 Corrected Conc (ppm): -----



uL dispensed: 5 from 20, 20 from 1
 Replicate 2 Time: 16:08
 Peak Area (A-s): -0.003 Peak Height (A): 0.009
 Background Pk Area (A-s): 0.004 Background Pk Height (A): 0.028
 Blank Corrected Pk Area (A-s): -0.001
 Concentration (mg/L): -0.0003 Corrected Conc (ppm): -----



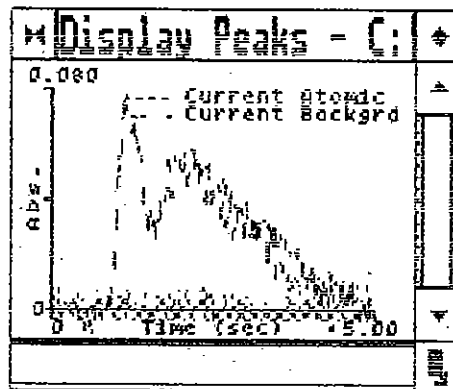


Mean Conc (mg/L): -0.0004 SD: 0.00015 RSD(%): 38.89
 Corrected Conc (ppm): -----

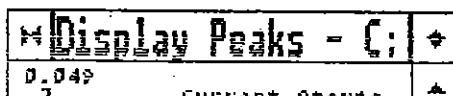
QC sample is within range

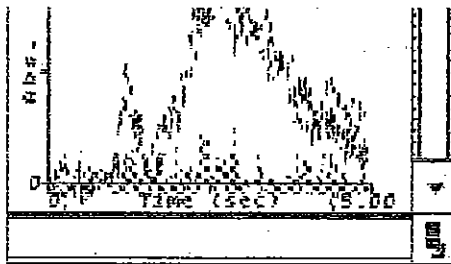
As ID: 2987-2 F=1 Seq. No.: 00020 A/S Pos.: 15 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 15
 Replicate 1 Time: 16:12
 Peak Area (A-s): -0.005 Peak Height (A): 0.009
 Background Pk Area (A-s): 0.120 Background Pk Height (A): 0.080
 Blank Corrected Pk Area (A-s): -0.003
 Concentration (mg/L): -0.0009 Corrected Conc (ppm): -0.0009



uL dispensed: 5 from 20, 20 from 15
 Replicate 2 Time: 16:15
 Peak Area (A-s): -0.003 Peak Height (A): 0.013
 Background Pk Area (A-s): 0.084 Background Pk Height (A): 0.049
 Blank Corrected Pk Area (A-s): -0.001
 Concentration (mg/L): -0.0003 Corrected Conc (ppm): -0.0003

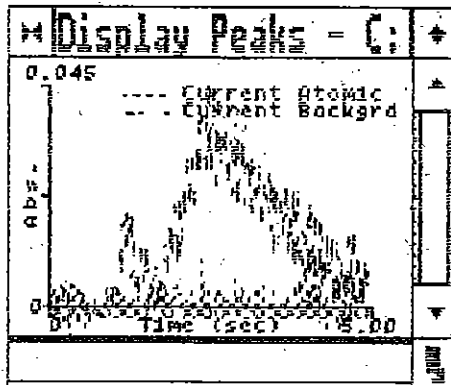




Mean Conc (mg/L): -0.0006 SD: 0.00038 RSD(%): 61.34
 Corrected Conc (ppm): -0.0006

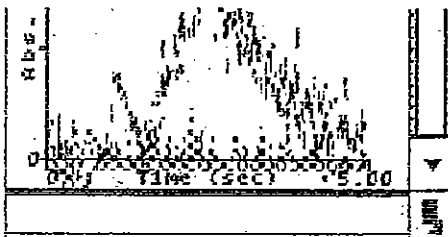
As ID: 2987-3 P=1 Seq. No.: 00021 A/S Pos.: 16 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 16
 Replicate 1 Time: 16:18
 Peak Area (A-s): -0.003 Peak Height (A): 0.011
 Background Pk Area (A-s): 0.065 Background Pk Height (A): 0.045
 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 16
 Replicate 2 Time: 16:21
 Peak Area (A-s): -0.006 Peak Height (A): 0.011
 Background Pk Area (A-s): 0.069 Background Pk Height (A): 0.047
 Blank Corrected Pk Area (A-s): -0.003
 Concentration (mg/L): -0.0010 Corrected Conc (ppm): -0.0010





Mean Conc (mg/L): -0.0007 SD: 0.00055 RSD(%): 84.47
 Corrected Conc (ppm): -0.0007

As ID: 2987-4 F-i Seq. No.: 00022 A/S Pos.: 17 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 17

Replicate 1

Peak Area (A-s): -0.001

Background Pk Area (A-s): 0.016

Blank Corrected Pk Area (A-s): 0.001

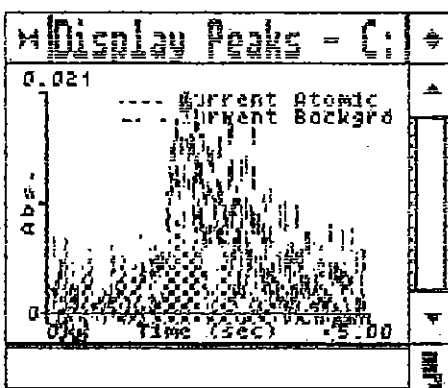
Concentration (mg/L): 0.0004

Time: 16:24

Peak Height (A): 0.012

Background Pk Height (A): 0.021

Corrected Conc (ppm): 0.0004



uL dispensed: 5 from 20, 20 from 17

Replicate 2

Peak Area (A-s): -0.004

Background Pk Area (A-s): 0.028

Blank Corrected Pk Area (A-s): -0.002

Concentration (mg/L): -0.0005

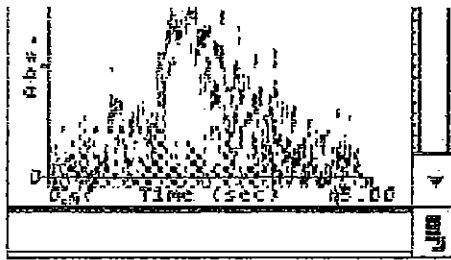
Time: 16:27

Peak Height (A): 0.009

Background Pk Height (A): 0.028

Corrected Conc (ppm): -0.0005

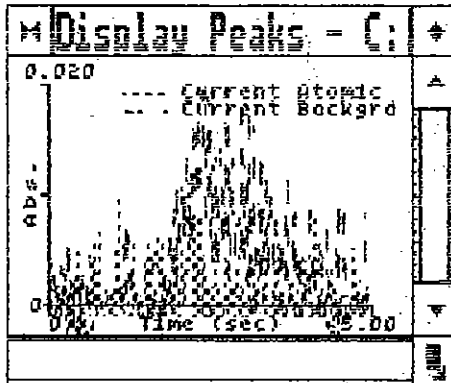




Mean Conc (mg/L): -0.0000 SD: 0.00066 RSD(%): 2544.00
 Corrected Conc (ppm): -0.0000

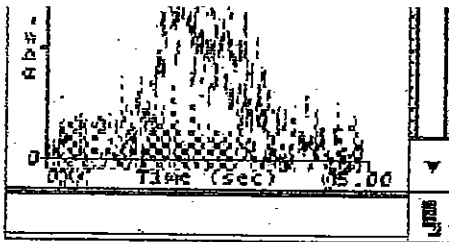
As ID: 2987-5 F=1 Seq. No.: 00023 A/S Pos.: 18 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 18
 Replicate 1 Time: 16:30
 Peak Area (A-s): -0.000 Peak Height (A): 0.011
 Background Pk Area (A-s): 0.012 Background Pk Height (A): 0.020
 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 18
 Replicate 2 Time: 16:34
 Peak Area (A-s): 0.001 Peak Height (A): 0.010
 Background Pk Area (A-s): 0.023 Background Pk Height (A): 0.026
 Blank Corrected Pk Area (A-s): 0.003
 Concentration (mg/L): 0.0010 Corrected Conc (ppm): 0.0010

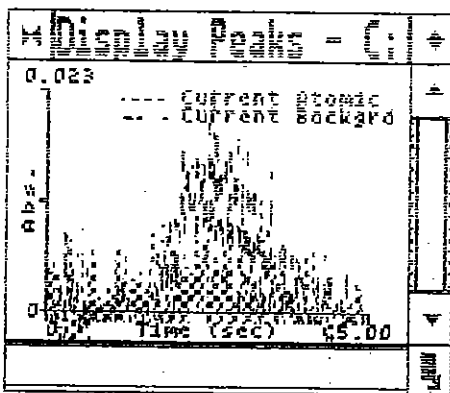




Mean Conc (mg/L): 0.0008 SD: 0.00019 RSD(%): 23.19
 Corrected Conc (ppm): 0.0008

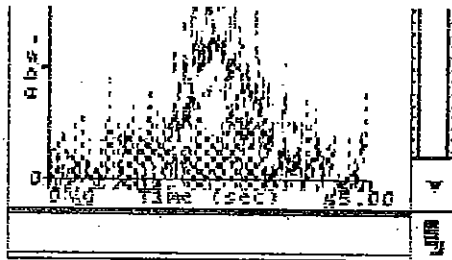
As ID: 2964-1 F-1 Seq. No.: 00024 A/S Pos.: 19 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 19
 Replicate 1 Time: 16:37
 Peak Area (A-s): 0.001 Peak Height (A): 0.012
 Background Pk Area (A-s): 0.011 Background Pk Height (A): 0.023
 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 19
 Replicate 2 Time: 16:40
 Peak Area (A-s): 0.005 Peak Height (A): 0.010
 Background Pk Area (A-s): 0.006 Background Pk Height (A): 0.021
 Blank Corrected Pk Area (A-s): 0.008
 Concentration (mg/L): 0.0024 Corrected Conc (ppm): 0.0024

Display Peaks - C; 0.021



Mean Conc (mg/L): 0.0017 SD: 0.00093 RSD(8): 53.51
 Corrected Conc (ppm): 0.0017

As ID: 2964-2 F-1 Seq. No.: 00025 A/S Pos.: 21 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 21

Replicate 1

Time: 16:43

Peak Area (A-s): -0.007

Peak Height (A): 0.010

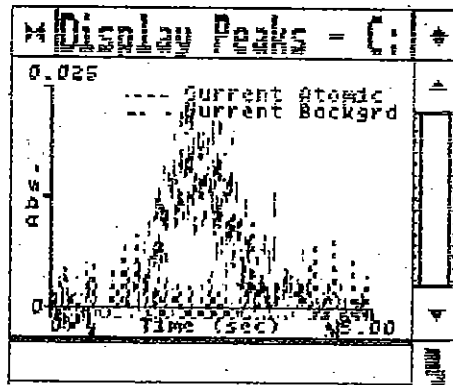
Background Pk Area (A-s): 0.009

Background Pk Height (A): 0.025

Blank Corrected Pk Area (A-s): -0.005

Concentration (mg/L): -0.0015

Corrected Conc (ppm): -0.0015



uL dispensed: 5 from 20, 20 from 21

Replicate 2

Time: 16:46

Peak Area (A-s): -0.006

Peak Height (A): 0.008

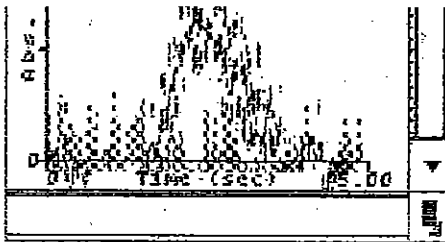
Background Pk Area (A-s): 0.007

Background Pk Height (A): 0.025

Blank Corrected Pk Area (A-s): -0.004

Concentration (mg/L): -0.0012

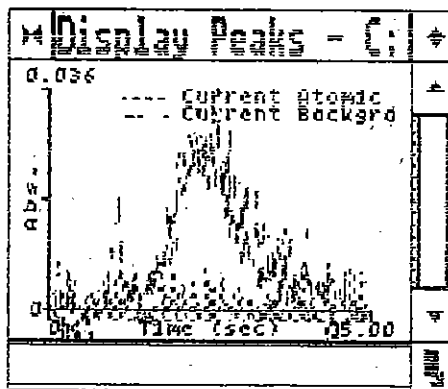
Corrected Conc (ppm): -0.0012



Mean Conc (mg/L): -0.0013 SD: 0.00016 RSD(%): 11.66
 Corrected Conc (ppm): -0.0013

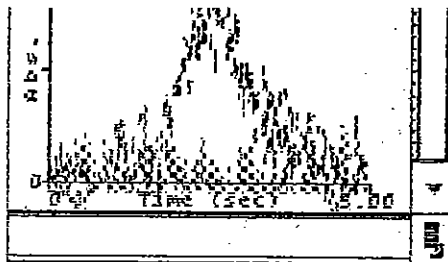
As ID: 2964-3 F=1 Seq. No.: 00026 A/S Pos.: 22 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 22
 Replicate 1 Time: 16:49
 Peak Area (A-s): -0.002 Peak Height (A): 0.008
 Background Pk Area (A-s): 0.035 Background Pk Height (A): 0.036
 Blank Corrected Pk Area (A-s): -0.000
 Concentration (mg/L): -0.0001 Corrected Conc (ppm): -0.0001



uL dispensed: 5 from 20, 20 from 22
 Replicate 2 Time: 16:52
 Peak Area (A-s): -0.004 Peak Height (A): 0.011
 Background Pk Area (A-s): 0.036 Background Pk Height (A): 0.033
 Blank Corrected Pk Area (A-s): -0.002
 Concentration (mg/L): -0.0005 Corrected Conc (ppm): -0.0005





Mean Conc (mg/L): -0.0003 SD: 0.00031 RSD(%): 112.57
 Corrected Conc (ppm): -0.0003

As ID: 2964-4 P=1 Seq. No.: 00027 A/S Pos.: 23 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 23

Replicate 1

Time: 16:55

Peak Area (A-s): 0.005

Peak Height (A): 0.009

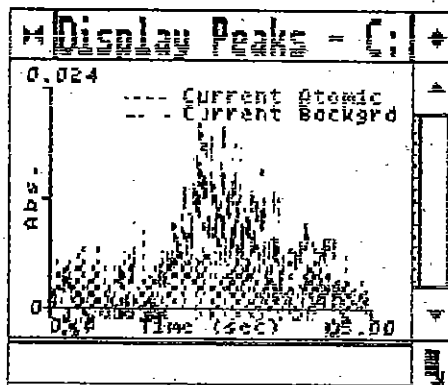
Background Pk Area (A-s): 0.011

Background Pk Height (A): 0.024

Blank Corrected Pk Area (A-s): 0.007

Concentration (mg/L): 0.0023

Corrected Conc (ppm): 0.0023



uL dispensed: 5 from 20, 20 from 23

Replicate 2

Time: 16:59

Peak Area (A-s): 0.005

Peak Height (A): 0.012

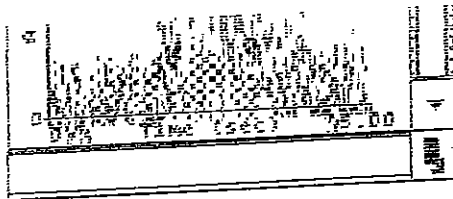
Background Pk Area (A-s): 0.014

Background Pk Height (A): 0.022

Blank Corrected Pk Area (A-s): 0.007

Concentration (mg/L): 0.0023

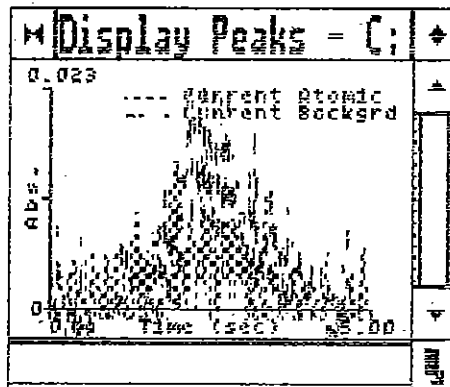
Corrected Conc (ppm): 0.0023



Mean Conc (mg/L): 0.0023 SD: 0.00000 RSD(%): 0.04
Corrected Conc (ppm): 0.0023

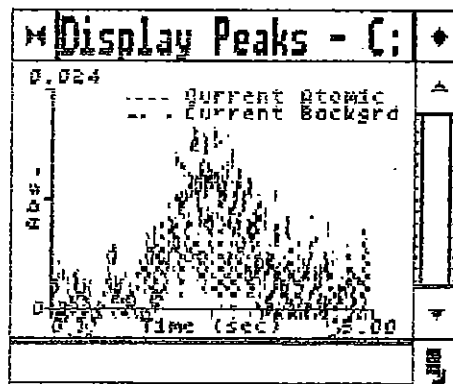
As ID: 2964-5 F-1 Seq. No.: 00028 A/S Pos.: 24 Date: 05/02/99

uL dispensed: 5 from 20, 20 from 24
Replicate 1
Peak Area (A-s): 0.011 Time: 17:05
Background Pk Area (A-s): 0.015 Peak Height (A): 0.016
Blank Corrected Pk Area (A-s): 0.013 Background Pk Height (A): 0.023
Concentration (mg/L): 0.0041 Corrected Conc (ppm): 0.0041



ul dispensed: 5 from 20, 20 from 24
 Replicate 2
 Peak Area (A-s): 0.013
 Background Pk Area (A-s): 0.013
 Blank Corrected Pk Area (A-s): 0.015
 Concentration (mg/L): 0.0048

Time: 17:09
 Peak Height (A): 0.015
 Background Pk Height (A): 0.024
 Corrected Conc (ppm): 0.0048



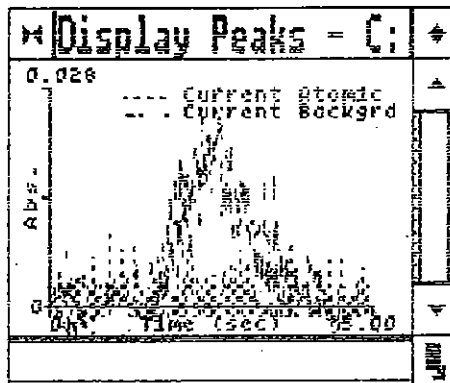
Mean Conc (mg/L): 0.0044
 Corrected Conc (nm): 0.0044

SD: 0.00048

RSD(%): 10.93

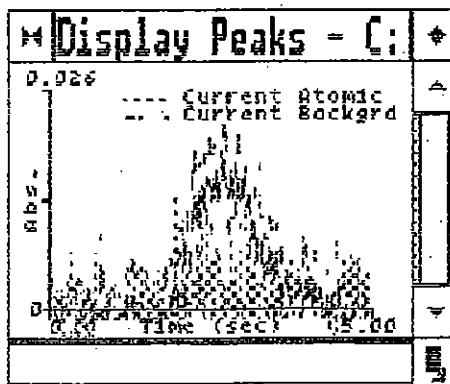
uL dispensed: 5 from 20, 20 from 25
Replicate 1
Peak Area (A-s): -0.001
Background Pk Area (A-s): 0.014
Blank Corrected Pk Area (A-s): 0.001
Concentration (mg/L): 0.0003

Time: 17:12
Peak Height (A): 0.010
Background Pk Height (A): 0.028
Corrected Conc (ppm): 0.0003



uL dispensed: 5 from 20, 20 from 25
Replicate 2
Peak Area (A-s): 0.003
Background Pk Area (A-s): 0.012
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0016

Time: 17:15
Peak Height (A): 0.014
Background Pk Height (A): 0.026
Corrected Conc (ppm): 0.0016



Mean Conc (mg/L): 0.0010
Corrected Conc (ppm): 0.0010

SD: 0.00093

RSD(%): 97.77

uL dispensed: 5 from 20, 20 from 40

Replicate 1

Peak Area (A-s): 0.170

Background Pk Area (A-s): 0.015

Blank Corrected Pk Area (A-s): 0.172

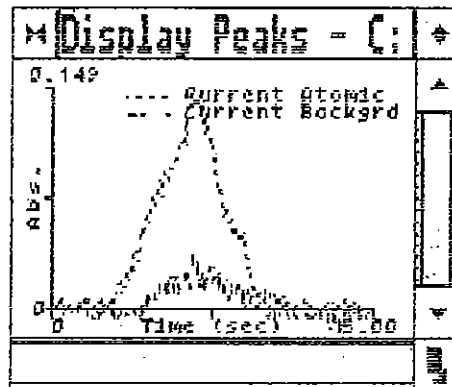
Concentration (mg/L): 0.0545

Time: 17:18

Peak Height (A): 0.149

Background Pk Height (A): 0.035

Corrected Conc (ppm): -----



uL dispensed: 5 from 20, 20 from 40

Replicate 2

Peak Area (A-s): 0.167

Background Pk Area (A-s): 0.012

Blank Corrected Pk Area (A-s): 0.169

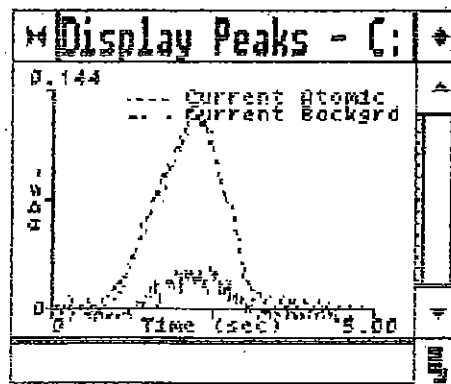
Concentration (mg/L): 0.0536

Time: 17:21

Peak Height (A): 0.144

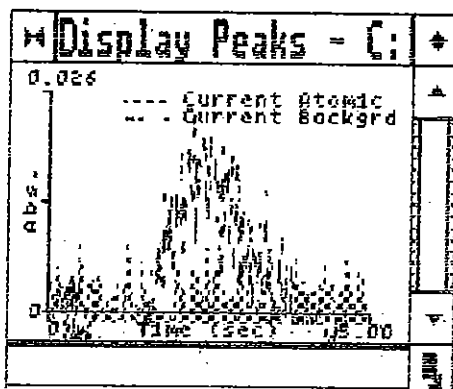
Background Pk Height (A): 0.032

Corrected Conc (ppm): -----



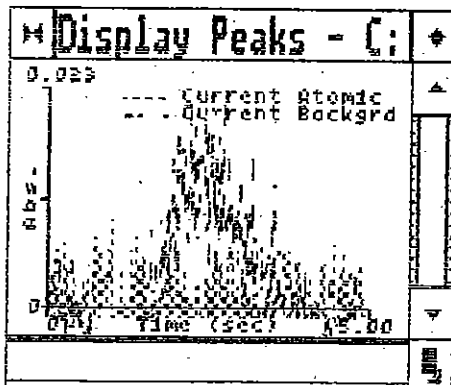
uL dispensed: 5 from 20, 20 from 1

Replicate 1 Time: 17:24
Peak Area (A-s): -0.002 Peak Height (A): 0.009
Background Pk Area (A-s): 0.007 Background Pk Height (A): 0.026
Blank Corrected Pk Area (A-s): -0.000
Concentration (mg/L): -0.0001 Corrected Conc (ppm): -----



uL dispensed: 5 from 20, 20 from 1

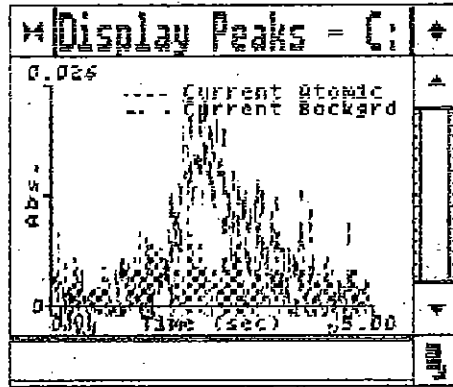
Replicate 2 Time: 17:28
Peak Area (A-s): -0.000 Peak Height (A): 0.010
Background Pk Area (A-s): 0.003 Background Pk Height (A): 0.023
Blank Corrected Pk Area (A-s): 0.002
Concentration (mg/L): 0.0006 Corrected Conc (ppm): -----



As ID: 2964-7 P=1 Seq. No.: 00032 A/S Pos.: 26 Date: 05/02/99

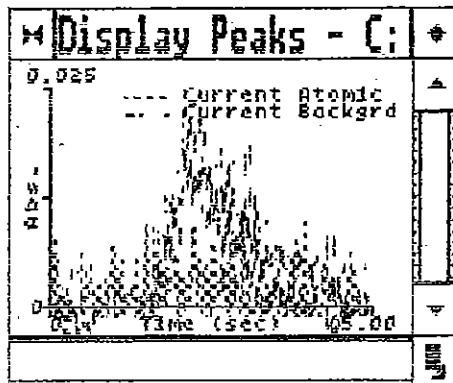
ul dispensed: 5 from 20, 20 from 26
Replicate 1
Peak Area (A-s): 0.006
Background Pk Area (A-s): 0.017
Blank Corrected Pk Area (A-s): 0.008
Concentration (mg/L): 0.0027

Time: 17:31
Peak Height (A): 0.014
Background Pk Height (A): 0.026
Corrected Conc (ppm): 0.0027



ul dispensed: 5 from 20, 20 from 26
Replicate 2
Peak Area (A-s): 0.006
Background Pk Area (A-s): 0.013
Blank Corrected Pk Area (A-s): 0.008
Concentration (mg/L): 0.0026

Time: 17:34
Peak Height (A): 0.013
Background Pk Height (A): 0.025
Corrected Conc (ppm): 0.0026



Mean Conc (mg/L): 0.0027
Corrected Conc (ppm): 0.0027

SD: 0.00003

RSD(%): 1.16

uL dispensed: 5 from 20, 20 from 27

Replicate 1

Time: 17:37

Peak Area (A-s): -0.003

Peak Height (A): 0.012

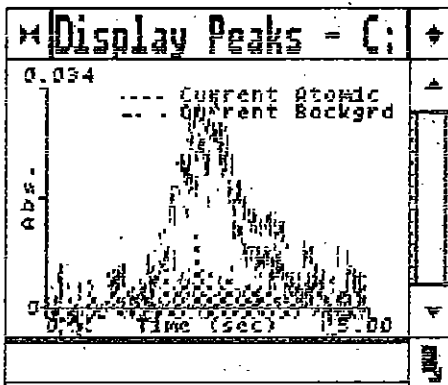
Background Pk Area (A-s): 0.034

Background Pk Height (A): 0.034

Blank Corrected Pk Area (A-s): -0.000

Concentration (mg/L): -0.0001

Corrected Conc (ppm): -0.0001



uL dispensed: 5 from 20, 20 from 27

Replicate 2

Time: 17:40

Peak Area (A-s): 0.002

Peak Height (A): 0.010

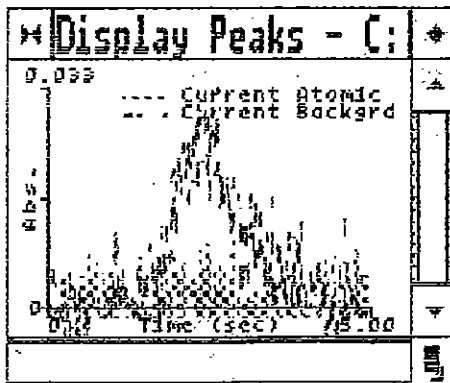
Background Pk Area (A-s): 0.030

Background Pk Height (A): 0.033

Blank Corrected Pk Area (A-s): 0.004

Concentration (mg/L): 0.0014

Corrected Conc (ppm): 0.0014



Mean Conc (mg/L): 0.0006
Corrected Conc (ppm): 0.0006

SD: 0.00108

RSD(%): 171.88

uL dispensed: 5 from 20, 20 from 28

Replicate 1

Peak Area (A-s): -0.002

Background Pk Area (A-s): 0.006

Blank Corrected Pk Area (A-s): 0.001

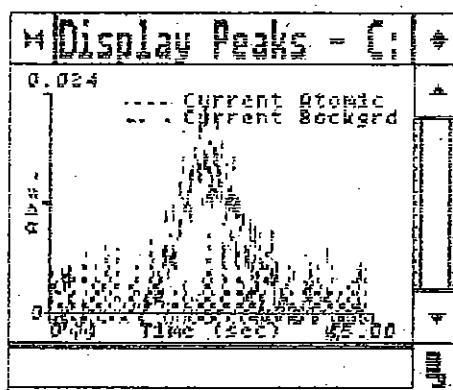
Concentration (mg/L): 0.0003

Time: 17:44

Peak Height (A): 0.009

Background Pk Height (A): 0.024

Corrected Conc (ppm): 0.0003



uL dispensed: 5 from 20, 20 from 28

Replicate 2

Peak Area (A-s): -0.002

Background Pk Area (A-s): 0.008

Blank Corrected Pk Area (A-s): 0.000

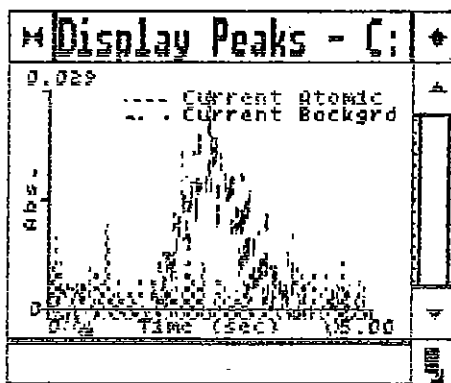
Concentration (mg/L): 0.0000

Time: 17:47

Peak Height (A): 0.011

Background Pk Height (A): 0.029

Corrected Conc (ppm): 0.0000



uL dispensed: 5 from 20, 20 from 29

Replicate 1

Time: 17:50

Peak Area (A-s): -0.002

Peak Height (A): 0.017

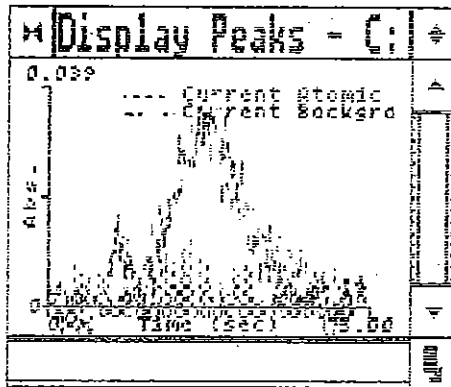
Background Pk Area (A-s): 0.045

Background Pk Height (A): 0.039

Blank Corrected Pk Area (A-s): 0.000

Concentration (mg/L): 0.0001

Corrected Conc (ppm): 0.0001



uL dispensed: 5 from 20, 20 from 29

Replicate 2

Time: 17:54

Peak Area (A-s): -0.001

Peak Height (A): 0.011

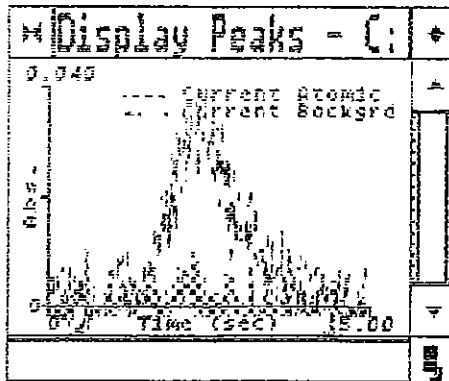
Background Pk Area (A-s): 0.041

Background Pk Height (A): 0.040

Blank Corrected Pk Area (A-s): 0.001

Concentration (mg/L): 0.0004

Corrected Conc (ppm): 0.0004



Mean Conc (mg/L): 0.0003
Corrected Conc (ppm): 0.0003

SD: 0.00016

RSD(%): 61.11

uL dispensed: 5 from 20, 20 from 30

Replicate 1

Time: 17:57

Peak Area (A-s): -0.002

Peak Height (A): 0.009

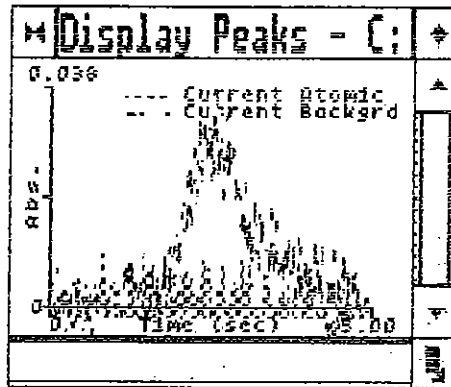
Background Pk Area (A-s): 0.035

Background Pk Height (A): 0.038

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 30

Replicate 2

Time: 18:00

Peak Area (A-s): -0.002

Peak Height (A): 0.010

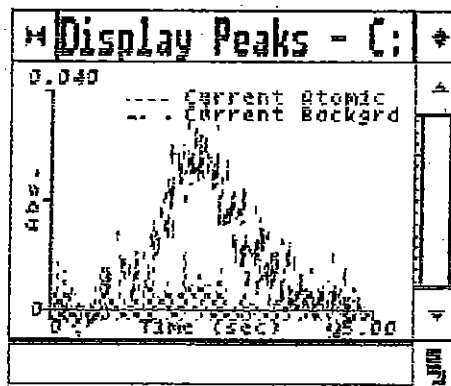
Background Pk Area (A-s): 0.041

Background Pk Height (A): 0.040

Blank Corrected Pk Area (A-s): 0.000

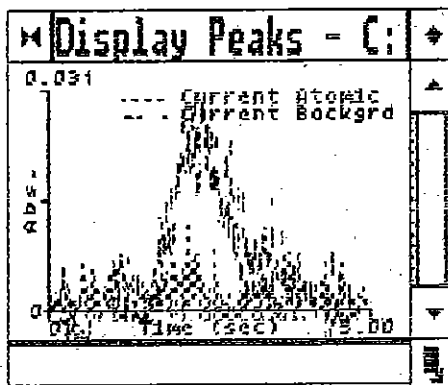
Concentration (mg/L): 0.0001

Corrected Conc (ppm): 0.0001



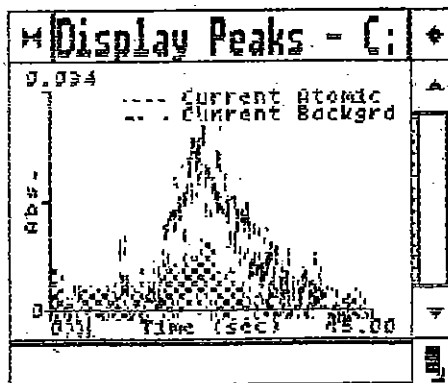
uL dispensed: 5 from 20, 20 from 31
Replicate 1
Peak Area (A-s): 0.003
Background Pk Area (A-s): 0.022
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0017

Time: 18:03
Peak Height (A): 0.012
Background Pk Height (A): 0.031
Corrected Conc (ppm): 0.0017



uL dispensed: 5 from 20, 20 from 31
Replicate 2
Peak Area (A-s): 0.004
Background Pk Area (A-s): 0.024
Blank Corrected Pk Area (A-s): 0.006
Concentration (mg/L): 0.0020

Time: 18:06
Peak Height (A): 0.012
Background Pk Height (A): 0.034
Corrected Conc (ppm): 0.0020



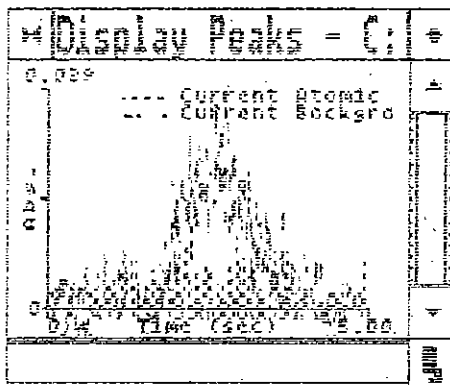
Mean Conc (mg/L): 0.0019
Corrected Conc (ppm): 0.0019

SD: 0.00020

RSD(%): 10.73

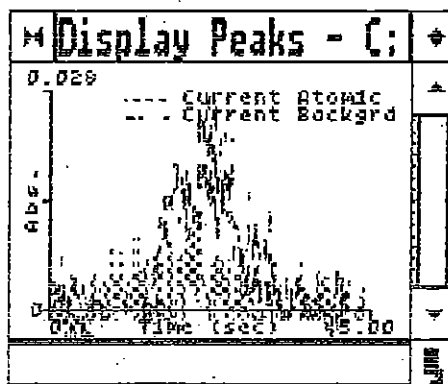
uL dispensed: 5 from 20, 20 from 32
Replicate 1
Peak Area (A-s): 0.001
Background Pk Area (A-s): 0.016
Blank Corrected Pk Area (A-s): 0.003
Concentration (mg/L): 0.0011

Time: 18:10
Peak Height (A): 0.011
Background Pk Height (A): 0.029
Corrected Conc (ppm): 0.0011



uL dispensed: 5 from 20, 20 from 32
Replicate 2
Peak Area (A-s): 0.003
Background Pk Area (A-s): 0.013
Blank Corrected Pk Area (A-s): 0.005
Concentration (mg/L): 0.0016

Time: 19:13
Peak Height (A): 0.011
Background Pk Height (A): 0.028
Corrected Conc (ppm): 0.0016



uL dispensed: 5 from 20, 20 from 33

Replicate 1

Time: 18:16

Peak Area (A-s): 0.012

Peak Height (A): 0.014

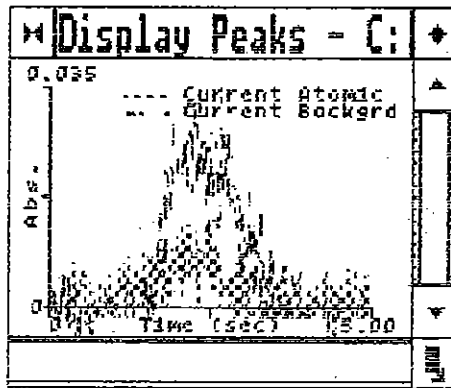
Background Pk Area (A-s): 0.020

Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.014

Concentration (mg/L): 0.0045

Corrected Conc (ppm): 0.0045



uL dispensed: 5 from 20, 20 from 33

Replicate 2

Time: 18:19

Peak Area (A-s): 0.010

Peak Height (A): 0.016

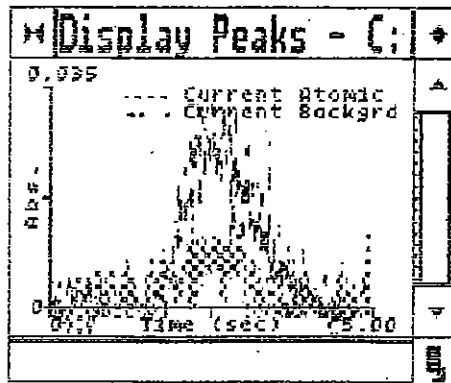
Background Pk Area (A-s): 0.026

Background Pk Height (A): 0.035

Blank Corrected Pk Area (A-s): 0.013

Concentration (mg/L): 0.0041

Corrected Conc (ppm): 0.0041



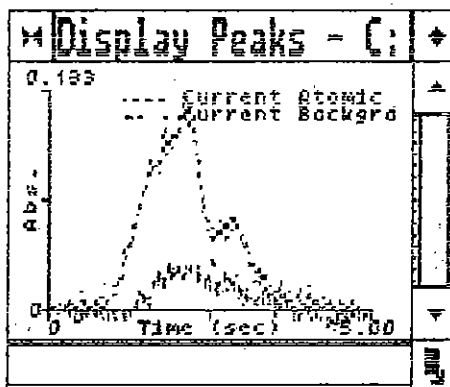
Mean Conc (mg/L): 0.0043
Corrected Conc (ppm): 0.0043

SD: 0.00030

RSD(%): 6.98

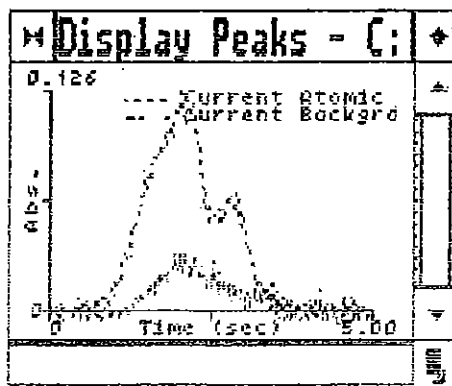
uL dispensed: 5 from 20, 20 from 40
Replicate 1
Peak Area (A-s): 0.159
Background Pk Area (A-s): 0.023
Blank Corrected Pk Area (A-s): 0.161
Concentration (mg/L): 0.0512

Time: 18:22
Peak Height (A): 0.133
Background Pk Height (A): 0.036
Corrected Conc (ppm): -----



uL dispensed: 5 from 20, 20 from 40
Replicate 2
Peak Area (A-s): 0.158
Background Pk Area (A-s): 0.026
Blank Corrected Pk Area (A-s): 0.161
Concentration (mg/L): 0.0509

Time: 18:25
Peak Height (A): 0.126
Background Pk Height (A): 0.037
Corrected Conc (ppm): -----



As ID: CCB

Seq. No.: 00041

A/S Pos.: 1

Date: 05/02/99

uL dispensed: 5 from 20, 20 from 1

Replicate 1

Peak Area (A-s): -0.002

Background Pk Area (A-s): 0.011

Blank Corrected Pk Area (A-s): 0.001

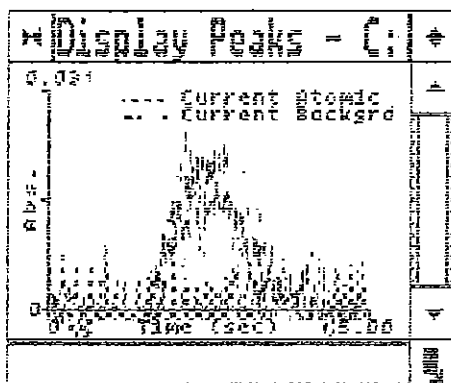
Concentration (mg/L): 0.0002

Time: 18:29

Peak Height (A): 0.009

Background Pk Height (A): 0.031

Corrected Conc (ppm): -----



uL dispensed: 5 from 20, 20 from 1

Replicate 2

Peak Area (A-s): -0.003

Background Pk Area (A-s): 0.006

Blank Corrected Pk Area (A-s): -0.001

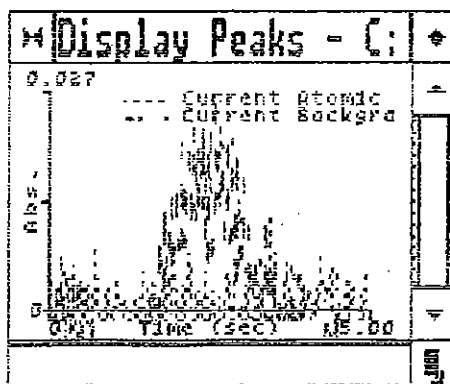
Concentration (mg/L): -0.0002

Time: 18:32

Peak Height (A): 0.012

Background Pk Height (A): 0.027

Corrected Conc (ppm): -----



Mean Conc (mg/L): -0.0006
Corrected Conc (ppm): -----

SD: 0.00027

RSD(%): 13152.19

13760 Magnolia Ave. Chino CA 91710

Metal Digestion (3010/3050) Worksheet

Tel: (909) 590-1828 Fax: (909) 590-1498

Batch # 03M142 Matrix: W Method used: 3010A Date: 5/2/03 Digested by: XL Diluted by: _____

Lot #: ASTM Type I water RW1009 HNO₃ 110220 H₂SO₄ _____ HCl 4102050 H₂O₂ _____

OP #	Type	Samp ID /Lot #	X (g or mL)	$V_{digest}/X = f_1$	$V_1/V_i = f_2$	$V_j/V_i = f_3$	$F = f_1 f_2 f_3$	Note
1105	Method Blank	Bl. Lot: <u>RW1009</u>	<u>50</u>	<u>50/X = 1</u>	<u>1 = 1</u>	<u>1 = 1</u>		<u>same</u>
1106	LCS1	Bl. Lot: <u>u</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		<u>T=95°C</u>
1107	Sample-1	<u>2987-6</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1108	MS1 on S-1	<u>6</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1109	MS2 on S-1	<u>6</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1110	Sample 2	<u>1</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1111	Sample 3	<u>2</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1112	Sample 4	<u>3</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1113	Sample 5	<u>4</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1114	Sample 6	<u>5</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1115	Sample 7	<u>2964-1</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1116	Sample 8	<u>2</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1117	Sample 9	<u>3</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1118	Sample 10	<u>4</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1119	LCS2	Bl. Lot: <u>RW1009</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1120	Sample 11	<u>5</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1121	Sample 12	<u>6</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1122	Sample 13	<u>7</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1123	Sample 14	<u>3015-1</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1124	Sample 15	<u>2</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1125	Sample 16	<u>3</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1126	Sample 17	<u>4</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1127	Sample 18	<u>5</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1128	Sample 19	<u>6</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1129	Sample 20	<u>7</u>		<u>1/X =</u>	<u>1 = 1</u>	<u>1 = 1</u>		
1130	Duplicate	<u>2987-6</u>	↓	↓ <u>1/X =</u> ↓	<u>1 = 1</u>	<u>1 = 1</u>		

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 _s V _s / V ppm or mg/L	Sample Spike T, ppm
MS1	/AsSe/Sb/M ₂₀	AA- /AA- /AA- /AA- <u>1433</u>	/ / / <u>25</u>	/ / / <u>2</u>	/ / / <u>1</u>	
MS2	/AsSe/Sb/M ₂₀	AA- /AA- /AA- /AA- <u>11</u>	/ / / <u>1</u>	/ / / <u>1</u>	/ / / <u>1</u>	
LCS1	/AsSe/Sb/M ₂₀	AA- /AA- /AA- /AA- <u>102</u>	/ / / <u>1</u>	/ / / <u>1</u>	/ / / <u>1</u>	
LCS2	/AsSe/Sb/M ₂₀	AA- /AA- /AA- /AA- <u>u</u>	/ / / <u>1</u>	/ / / <u>1</u>	/ / / <u>1</u>	

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

13760 Magnolia Ave. Chino CA 91710

Metal Digestion (3010/3050) Worksheet

Tel: (909) 590-1828 Fax: (909) 590-1488

Batch # 02M1123 Matrix: W Method used: 3020A Date: 5/2/83 Digested by: XV Diluted by: _____

Lot #: ASTM Type I water: RW1009 HNO₃ 160220 H₂SO₄ _____ HCl _____ H₂O₂ _____

OP #	Type	Samp ID /Lot #	X (g or mL)	$V_{digest}/X = f_1$	$V_1/V_i = f_2$	$V_j/V_i = f_3$	$F=f_1 f_2 f_3$	Note
1157	Method Blank	Bl. Lot: <u>RW1009</u>	<u>50</u>	<u>50/X= 1</u>	<u>/ =</u>	<u>/ =</u>		<u>GFAR/AS</u>
1158	LCS1	Bl. Lot: <u>4</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		<u>T=55°C</u>
1159	Sample-1	<u>2987-6</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1160	MS1 on S-1	<u>-6</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1161	MS2 on S-1	<u>-6</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1162	Sample 2	<u>-1</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1163	Sample 3	<u>-2</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1164	Sample 4	<u>-3</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1165	Sample 5	<u>-4</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1166	Sample 6	<u>-5</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1167	Sample 7	<u>2964-1</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1168	Sample 8	<u>-2</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1169	Sample 9	<u>-3</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1170	Sample 10	<u>-4</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1171	LCS2	Bl. Lot: <u>RW1009</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1172	Sample 11	<u>-5</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1173	Sample 12	<u>-6</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1174	Sample 13	<u>-7</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1175	Sample 14	<u>3015-1</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1176	Sample 15	<u>-2</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1177	Sample 16	<u>-3</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1178	Sample 17	<u>-4</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1179	Sample 18	<u>-5</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1180	Sample 19	<u>-6</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1181	Sample 20	<u>-7</u>		<u>/X=</u>	<u>/ =</u>	<u>/ =</u>		
1182	Duplicate	<u>2987-6</u>	↓	↓ <u>/X=</u> ↓	<u>/ =</u>	<u>/ =</u>		

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 _s V _s / V ppm or mg/L	Sample Spike T, ppm
MS1	<u>/As/Sb/M₂₀</u>	AA- <u>/AA/VB/AA- /AA-</u>	<u>/ 51 /</u>	<u>10.51 /</u>	<u>10.51 /</u>	
MS2	<u>/As/Sb/M₂₀</u>	AA- <u>/AA-V /AA- /AA-</u>	<u>/ / /</u>	<u>/ / /</u>	<u>/ / /</u>	
LCS1	<u>/As/Sb/M₂₀</u>	AA- <u>/AA/V/AA- /AA-</u>	<u>/ / /</u>	<u>/ / /</u>	<u>/ / /</u>	
LCS2	<u>/As/Sb/M₂₀</u>	AA- <u>/AA- V /AA- /AA-</u>	<u>/ / /</u>	<u>/ / /</u>	<u>/ / /</u>	

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

Supervisor Initial 1152