Method 200.8

ATL Number:	065631

(EPA 200.8) - INITIAL CALIBRATION

Instrument ID: ICP4

Date(s) Analyzed: 11/05/03

Initial Calibration:

		INTENSITY			
COMPOUND	STD1	STD2	STD3	STD4	r2
CHROMIUM	14950	54673	97728	185764	0.999963

Standard Concentratic	0.5 ppb	5 ppb	10 ppb	20 ppb
Standard ID:	MST031105E	MST031105D	MST031105C	MST031105B

Calibration Acceptance Criteria: > 0.995 Correlation

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: 11/5/03
Digestion Method: 7/18/00

QC Batch Number: MB-R32297

Dilution Factor: 1
Matrix: Water
Date Analyzed: 11/5/03

Analyte	DLR	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank MB-R32297	C	M
Chromium	1	0.190		0.123		0.231		0.400		0.041		

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(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION

(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 11/5/03

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS	MST031105G
Continuing Calibration Verification:	LEEMAN LABS	MST031105G

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV4	Continuing Calibration %R(1)	Continuing Calibration Found CCV5	Continuing Calibration %R(1)	
Chromium	10.0	10.117	101	10.0	10.357	104	10.238	102	

ICV Limits: 90 -110%

CCV Limits: 85 -115%

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION

(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 11/5/03

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS	MST031105G
Continuing Calibration Verification:	LEEMAN LABS	MST031105G

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV6	Continuing Calibration %R(1)	Found	%R(1)	
Chromium	10.0	10.117	101	10.0	10.344	103			

ICV Limits: 90 -110%

CCV Limits: 85 -115%

Advanced Technology Laboratories 3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 065631

Instrument ID: ICP4 Internal Standard ID: MST031104A

Date Analyzed: 11/05/2003 Standard Concentration: 50 ug/L

QC Batch: R32297

		Lithium		Sc		Ge		In		Terbium	
		Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec
Calibration Blank			---	616968	---		---		---		---
Lab ID	Sample Description										
MB-R32297				566330	92						
LCS-R32297				569606	92						
065631-001A				652346	106						
065631-002A				653813	106						
065631-003A				610881	99						
065631-004A				624328	101						
065631-005A				613775	99						
065631-006A				616979	100						
065631-007A				578550	94						
065631-008A				620996	101						
065631-009A				627756	102						
065631-010A				642077	104						
065631-010ADUP				638264	103						
065631-011A				640372	104						
065631-012A				575357	93						
065631-012ADUP				566743	92						
065631-010AMS				710514	115						
065631-010AMSD				706490	115						

* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90755 Tel: 562 989-4045 Fax: 562 989-4040

ICP-MS : Turbidity Check and Sample Preparation Log

QC Number: R32297

Date Read / Digested: 11-5-03

Method (Circle one):	Turb. Calibration	Matrix (Circle one):		Acid Lot #
1) 200.8	100 NTU: 10 NTU	1) Drinking Water	4) Soil	Hydrochloric N/A
2) 3010A	Std Code: SCR-0029	2) Ground Water	5) Solid	Nitric N/A
3) 3050B	Initials: NJ	3) Liquid	6) Other water	
4) 3051				

	Sample ID	Turbidity Result *	Sample Wt./Vol.	Spike / LCS Amt. Added	Spike / LCS Conc. (ppm)	Spike Code	Final Vol (ml)	Initials	Comments
	MS 065631-010A	0.12	10	0.10ml	1 ppm	MST031105A	10	NJ	
	MSD ↓	↓	↓	↓	↓	↓	↓	↓	
	Method Blank	—	↓	—	—	—	↓	↓	
	LCS	—	↓	0.10ml	1 ppm	MST031105F	↓	↓	
	Blank MS								
	Blank MSD								
1	065631-001A	-0.02	10				10	NJ	
2	-002	0.15	↓				↓	↓	
3	-003	-0.01	↓				↓	↓	
4	-004	0.07	↓				↓	↓	
5	-005	0.06	↓				↓	↓	
6	-006	0.03	↓				↓	↓	
7	-007	0.93	↓				↓	↓	
8	-008	0.10	↓				↓	↓	
9	-009	0.03	↓				↓	↓	
10	-010	0.12	↓				↓	↓	
11	-011	0.11	↓				↓	↓	
12	-012	-0.09	↓				↓	↓	
13									
14									
15									
16									
17									
18									
19									
20									
DUP	065631-010A 065631-012A	-0.06 -0.09	10				10	NJ	

* Turbidity <1 NTU **DOES NOT** need sample preparation.

Advanced Technology Laboratories, Logbook # 6

Sample/Batch Report

User Name: Nancy
Computer Name: ICPMS PE 6100
Sample File: D:\ELAN\Elandata03Sept\Sample\2003\November\110503.sam
Report Date/Time: Wednesday, November 05, 2003 15:36:00

A/S Loc.	Batch ID	Sample ID	Description	Sample Type	Init. Quant.	Prep. Vol.	Aliquot Vol.	Diluted Vol.	Solids Ratio
7		ICV							
1		ICB							
9		MB- > R322298 NS 11/6/03							
10		LCS-							
11		065632-022A							
12		065632-023A							
13		065632-024A							
14		065632-025A							
15		065632-026A							
16		065632-027A							
17		065632-028A							
18		065632-029A							
7		CCV 1							
8		CCB							
19		065632-030A							
20		065632-030ADUP							
21		065632-031A							
22		065632-032A							
23		065632-033A							
24		065632-034A							
25		065632-035A							
26		065632-036A							
27		065632-036ADUP							
28		065632-037A							
7		CCV 2							
8		CCB							
29		065632-038A							
30		065632-039A							
31		065632-040A							
32		065632-036AMS							
33		065632-036AMSD							
7		CCV 3							
8		CCB							
34		MB- > R32300							
35		LCS-							
36		065632-020A							
37		065632-042A							
38		065632-043A							
39		065632-043ADUP							
40		065632-043AMS							
41		065632-043AMSD							
7		CCV 4							
8		CCB							
42		MB- > R322297 NS 11/6/03							
43		LCS-							
44		065631-001A							
45		065631-002A							
46		065631-003A							
47		065631-004A							

CAL: MST031105 B/20
C/10
D/5
E/0.5

ICV/CCV: MST031105 G
LCS: MST031105 F
MS/MSD: MST031105 A

15669 { LCS: MSP030220A
MS/MSD: MSP030414Q

ICP4
NS 11/6/03

0028

48	065631-005A
49	065631-006A
50	065631-007A
51	065631-008A
7	CCV
8	CCB
52	065631-009A
53	065631-010A
54	065631-010ADUP
55	065631-011A
56	065631-012A
57	065631-012ADUP
58	065631-010AMS
59	065631-010AMSD
7	CCV 6
8	CCB
60	MB-15669
61	LCS-15669
62	065632-021A
63	065632-021ADUP
64	065632-021AMS
65	065632-021AMSD
7	CCV 7
8	CCB

0029

Instrument Tuning Report

File Name: 110503.tun
File Path: D:\ELAN\Elandata03Sept\TUNING\2003\November

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	8.977	2045	2040	0.716	
Mg	23.985	23.979	5698	2020	0.721	
Rh	102.905	102.879	24965	1965	0.728	
Ce	139.905	139.879	33963	2025	0.730	
Pb	207.977	207.978	50416	2270	0.754	
U	238.050	238.024	57622	2435	0.770	

ELAN Instrument Control Session

File Edit Analysis Options Window Help

Data Only Method - c:\elandata\Method\ATL Methods 030317\ATL-TUNING250.mth

Timing | Processing | Equation | Calibration | Sampling | De

Sweeps / Reading: 35
Readings / Replicate: 1
Replicates: 6
Tuning File: default.tun Select...
Optimization File: default.dac Select... Enable Short

Est. Reading Time: 0:00:28.175
Est. Replicate Time: 0:00:28.175
Est. Sample Time: 0:02:49.050

	Analyte [1]	Begin Mass [amu]	End Mass [amu]	Scan Mode [1]	MCA Channels	Dwell Time per AMU [ms]	Int Tim
1		5	10	Scanning	20	20	22 ms
2		22	26	Scanning	20	20	[illegible]
3		102	104	Scanning	20	20	[illegible]
4		139	141	Scanning	20	20	[illegible]
5		206	209	Scanning	20	20	[illegible]

Tuning - D:\ELAN\Elandata03Sept\TUNING\2003\November\110503.tun

Tune Mass Spec | Peak Width Only

Peak Search Window [amu]: 1 Resolution DAC: 2040 for Analyte: B

	Analyte	Mass [amu]	Measured Mass [amu]	Mass Calibration DAC Value	Resolution DAC Value	Meas Wid
1	Be	9.0122	8.977	2045	2040	[illegible]
2	Mg	23.985	23.9787	5698	2020	[illegible]
3	Rh	102.905	102.879	24965	1965	[illegible]
4	Ce	139.905	139.879	33963	2025	[illegible]
5	Pb	207.977	207.978	50416	2270	
6	U	238.05	238.024	57622	2435	

Daily Performance Report

Sample ID: 110503-daily
Sample Date/Time: Wednesday, November 05, 2003 09:48:41
Sample Description:
Method File: c:\elandata\Method\Daily.mth
Dataset File: d:\elan\elandata03sept\daily performance\2003\november\110503-daily.002
Tuning File: c:\elandata\Tuning\default.tun
Optimization File: c:\elandata\Optimize\default.dac
Dual Detector Mode: Pulse
Acq. Dead Time(ns): 35
Current Dead Time (ns): 35

Summary

	Analyte	Mass	Meas. Intens. Mean	Net Intens. Mean	Net Intens. SD	Net Intens. RSD
	Mg	24.0	40406.1	40406.081	1042.389	2.6
	Rh	102.9	207802.5	207802.454	302.755	0.1
	In	114.9	265952.7	265952.736	5351.347	2.0
	Pb	208.0	158265.5	158265.495	2903.462	1.8
⌈>	Ba	137.9	221410.1	221410.132	1895.886	0.9
⌊	Ba++	69.0	3404.4	0.015	0.000	0.8
⌈>	Ce	139.9	257212.9	257212.887	7.199	0.0
⌊	CeO	155.9	7349.0	0.029	0.000	0.3
	Bkgd	220.0	7.5	7.500	3.536	47.1

Current Optimization File Data

Current Value	Description
0.84	Nebulizer Gas Flow
10.00	Lens Voltage
1100.00	ICP RF Power
-1925.00	Analog Stage Voltage
1925.00	Pulse Stage Voltage
85.00	Discriminator Threshold
-1.50	AC Rod Offset
60.00	Service DAC 1
0.00	Quadrupole Rod Offset

Current Autolens Data

Analyte	Mass	Num of Pts	DAC Value	Maximum Intensity
Be	9	9	9.0	6983.7
Co	59	9	10.0	94863.9
In	115	9	11.5	192753.7

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 10:07:02
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\Blank.001
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: Blank
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7		90829	2.6			ug/L	%
	Ge	72		129518	0.6			ug/L	%
>	**Sc-1**	45		616968	0.7			ug/L	%
	Cr	52		9272	4.2			ug/L	%
	In	115		1301215	0.7			ug/L	%
	Tb	159		1575022	1.1			ug/L	%
	Sc	45		616968	0.7			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 10:09:31
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\Standard 1.002
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: Standard 1
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	87683	1.5			ug/L	%
	Ge	72	129518	129380	0.8			ug/L	%
>	**Sc-1**	45	616968	611825	0.7			ug/L	%
	Cr	52	9272	14950	0.9	**0.500**	0.019	ug/L	3.9 %
	In	115	1301215	1319168	0.4			ug/L	%
	Tb	159	1575022	1565698	0.8			ug/L	%
	Sc	45	616968	611825	0.7			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 10:12:15
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\Standard 2.003
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: Standard 2
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	86402	1.6			ug/L	%
	Ge	72	129518	127004	0.5			ug/L	%
>	**Sc-1**	45	616968	609610	0.9			ug/L	%
	Cr	52	9272	54673	0.7	**4.987**	0.019	ug/L	0.4 %
	In	115	1301215	1291222	0.8			ug/L	%
	Tb	159	1575022	1542319	0.4			ug/L	%
	Sc	45	616968	609610	0.9			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 10:15:01
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\Standard 3.004
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: Standard 3
Sample Type:

Summary

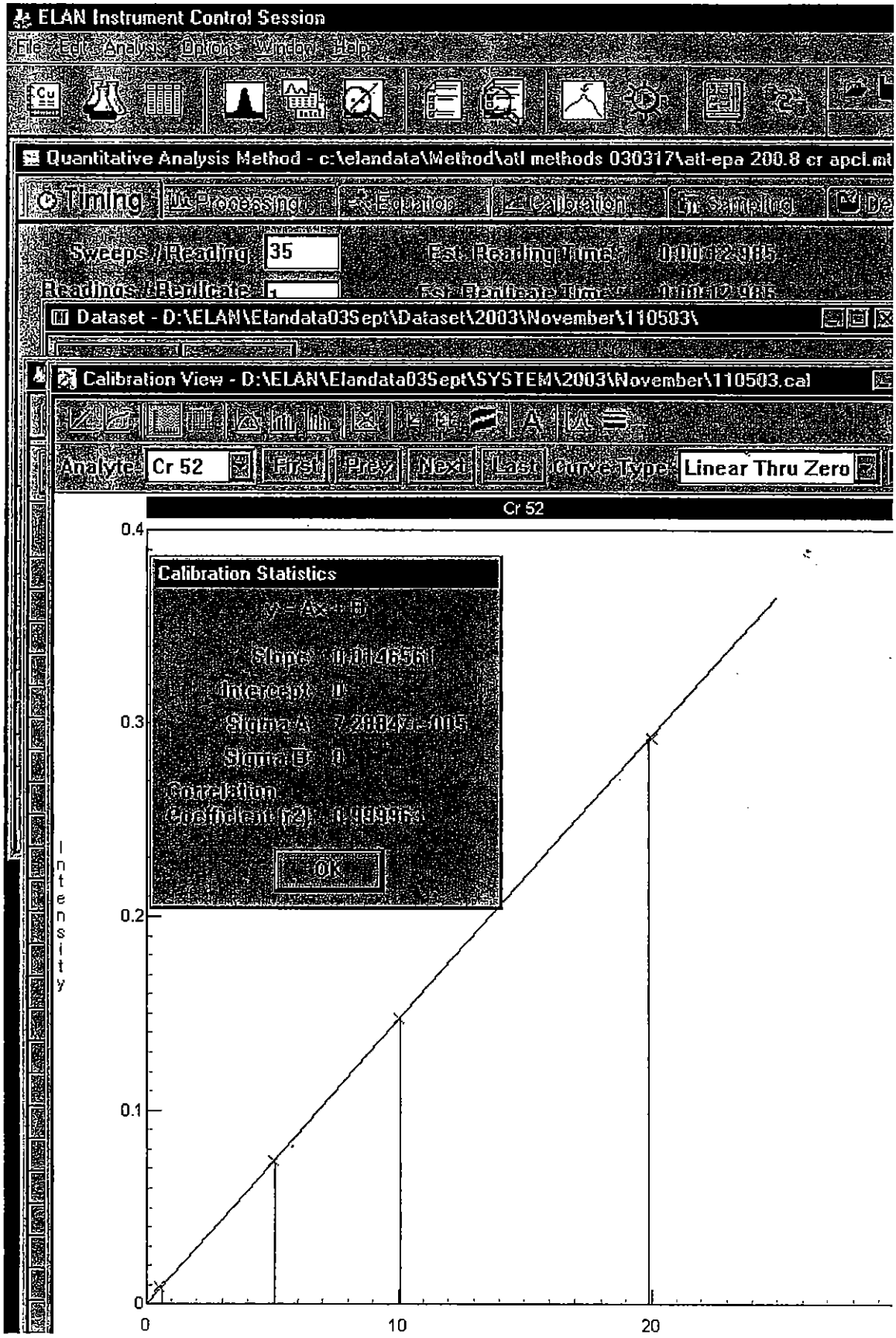
	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	87953	1.6			ug/L	%
	Ge	72	129518	126333	0.8			ug/L	%
>	**Sc-1**	45	616968	600657	0.4			ug/L	%
	Cr	52	9272	97728	0.9	**9.972**	0.068	ug/L	0.7 %
	In	115	1301215	1267321	1.0			ug/L	%
	Tb	159	1575022	1524276	0.4			ug/L	%
	Sc	45	616968	600657	0.4			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 10:17:48
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\Standard 4.005
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: Standard 4
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	90829	90115	1.0			ug/L	%
	Ge	72	129518	127667	0.7			ug/L	%
[>	**Sc-1**	45	616968	604749	1.0			ug/L	%
[	**Cr**	52	9272	185764	0.5	**19.935**	0.247	ug/L	1.2 %
	In	115	1301215	1280189	0.8			ug/L	%
	Tb	159	1575022	1522969	0.7			ug/L	%
	Sc	45	616968	604749	1.0			ug/L	%


ELAN Instrument Control Session
File Edit Analysis Options Window Help
Quantitative Analysis Method - c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mt
Timing
Processing
Equation
Calibration
Sampling
Sweeps / Reading 35
Readings / Replicate
Dataset - D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\
Calibration View - D:\ELAN\Elandata03Sept\SYSTEM\2003\November\110503.cal
Analyte Cr 52
First
Prev
Next
Last
Curve Type Linear Thru Zero
Cr 52
Calibration Statistics
Y = Ax + B
Slope
Intercept 0
Sigma A
Sigma B 0
Correlation
Coefficient (r2)
OK
Intensity
0.4
0.3
0.2
0.1
0
0
10
20

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 10:20:36
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\ICV.006
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: ICV
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	88787	1.4			ug/L	%
	Ge	72	129518	126153	0.4			ug/L	%
>	Sc-1	45	616968	597446	1.0			ug/L	%
	Cr	52	9272	97561	1.4	**10.117**	0.152	ug/L	1.5 %
	In	115	1301215	1252997	0.4			ug/L	%
	Tb	159	1575022	1507170	0.3			ug/L	%
	Sc	45	616968	597446	1.0			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 10:23:07
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\ICB.007
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: ICB
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	89323	1.1			ug/L	%
	Ge	72	129518	126458	1.4			ug/L	%
>	**Sc-1**	45	616968	598152	0.9			ug/L	%
	Cr	52	9272	10653	2.0	**0.190**	0.030	ug/L	16.0 %
	In	115	1301215	1255560	1.3			ug/L	%
	Tb	159	1575022	1503616	1.5			ug/L	%
	Sc	45	616968	598152	0.9			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:13:52
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\CCV.047
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCV
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	67562	2.4			ug/L	%
	Ge	72	129518	116941	1.5			ug/L	%
[>	**Sc-1**	45	616968	557930	1.7			ug/L	%
[	**Cr**	52	9272	93070	1.6	**10.357**	0.013	ug/L	0.1 %
	In	115	1301215	1231420	1.2			ug/L	%
	Tb	159	1575022	1446463	1.6			ug/L	%
	Sc	45	616968	557930	1.7			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:16:26
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\CCB.048
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCB
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	68280	1.5			ug/L	%
	Ge	72	129518	117295	0.1			ug/L	%
[>	**Sc-1**	45	616968	563829	0.7			ug/L	%
[	**Cr**	52	9272	9492	1.7	**0.123**	0.028	ug/L	22.5 %
	In	115	1301215	1239307	0.4			ug/L	%
	Tb	159	1575022	1466025	0.5			ug/L	%
	Sc	45	616968	563829	0.7			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:28:38
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\MB-.049
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: MB- R32297 NS 11/6/03
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	71789	2.5			ug/L	%
	Ge	72	129518	118706	0.8			ug/L	%
[>	**Sc-1**	45	616968	566330	0.3			ug/L	%
[	**Cr**	52	9272	8854	3.1	**0.041**	0.036	ug/L	85.7 %
	In	115	1301215	1237440	0.9			ug/L	%
	Tb	159	1575022	1476733	1.4			ug/L	%
	Sc	45	616968	566330	0.3			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:31:06
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\LCS-.050
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: LCS- R32207 NS 11/6/03
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	72381	1.0			ug/L	%
	Ge	72	129518	118293	1.8			ug/L	%
>	Sc-1	45	616968	569606	1.5			ug/L	%
	Cr	52	9272	95332	0.7	**10.396**	0.168	ug/L	1.6 %
	In	115	1301215	1242892	0.3			ug/L	%
	Tb	159	1575022	1491543	1.0			ug/L	%
	Sc	45	616968	569606	1.5			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:33:35
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-001A.051
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-001A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	70538	0.3			ug/L	%
	Ge	72	129518	124013	0.9			ug/L	%
⌈>	Sc-1	45	616968	652346	0.9			ug/L	%
L	Cr	52	9272	54619	1.9	4.688	0.159	ug/L	3.4 %
	In	115	1301215	1286717	0.3			ug/L	%
	Tb	159	1575022	1506791	1.2			ug/L	%
	Sc	45	616968	652346	0.9			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:36:04
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-002A.052
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-002A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	71109	1.9			ug/L	%
	Ge	72	129518	125465	0.7			ug/L	%
>	**Sc-1**	45	616968	653813	1.4			ug/L	%
	Cr	52	9272	36376	2.1	**2.771**	0.031	ug/L	1.1 %
	In	115	1301215	1299190	0.5			ug/L	%
	Tb	159	1575022	1506678	1.0			ug/L	%
	Sc	45	616968	653813	1.4			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:38:34
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-003A.053
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-003A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	69310	3.3			ug/L	%
	Ge	72	129518	121846	0.2			ug/L	%
[>	**Sc-1**	45	616968	610881	0.5			ug/L	%
[	**Cr**	52	9272	23849	0.9	**1.638**	0.012	ug/L	0.7 %
	In	115	1301215	1249534	1.1			ug/L	%
	Tb	159	1575022	1470768	0.2			ug/L	%
	Sc	45	616968	610881	0.5			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:41:03
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-004A.054
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-004A
Sample Type:

Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
Li	7	90829	69651	0.7			ug/L	%
Ge	72	129518	119758	0.2			ug/L	%
Sc-1	45	616968	624328	0.5			ug/L	%
Cr	52	9272	35955	2.0	2.904	0.082	ug/L	2.8 %
In	115	1301215	1232507	0.3			ug/L	%
Tb	159	1575022	1447318	1.0			ug/L	%
Sc	45	616968	624328	0.5			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:43:34
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-005A.055
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-005A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	90829	71519	2.3			ug/L	%
	Ge	72	129518	118482	1.1			ug/L	%
[>	**Sc-1**	45	616968	613775	0.1			ug/L	%
[	**Cr**	52	9272	81737	1.3	**8.061**	0.119	ug/L	1.5 %
	In	115	1301215	1227141	0.8			ug/L	%
	Tb	159	1575022	1436207	0.5			ug/L	%
	Sc	45	616968	613775	0.1			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:46:05
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-006A.056
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-006A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	90829	73545	0.8			ug/L	%
	Ge	72	129518	118886	1.0			ug/L	%
>	**Sc-1**	45	616968	616979	1.1			ug/L	%
	Cr	52	9272	85334	1.7	**8.412**	0.122	ug/L	1.5 %
	In	115	1301215	1247624	0.4			ug/L	%
	Tb	159	1575022	1456493	0.2			ug/L	%
	Sc	45	616968	616979	1.1			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:48:36
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-007A.057
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-007A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	66535	0.4			ug/L	%
	Ge	72	129518	120107	0.5			ug/L	%
>	**Sc-1**	45	616968	578550	0.2			ug/L	%
	Cr	52	9272	24165	0.6	**1.825**	0.017	ug/L	0.9 %
	In	115	1301215	1205800	0.7			ug/L	%
	Tb	159	1575022	1442820	0.6			ug/L	%
	Sc	45	616968	578550	0.2			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:51:08
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-008A.058
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-008A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	67533	1.4			ug/L	%
	Ge	72	129518	119141	0.2			ug/L	%
[>	**Sc-1**	45	616968	620996	0.6			ug/L	%
[	**Cr**	52	9272	33203	0.7	**2.623**	0.049	ug/L	1.9 %
	In	115	1301215	1226982	0.6			ug/L	%
	Tb	159	1575022	1432720	0.6			ug/L	%
	Sc	45	616968	620996	0.6			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:53:41
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\CCV.059
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCV
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	69867	2.6			ug/L	%
	Ge	72	129518	113168	0.7			ug/L	%
>	**Sc-1**	45	616968	546609	0.3			ug/L	%
	Cr	52	9272	90233	1.1	**10.238**	0.158	ug/L	1.5 %
	In	115	1301215	1176808	0.7			ug/L	%
	Tb	159	1575022	1398509	0.7			ug/L	%
	Sc	45	616968	546609	0.3			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:56:16
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\CCB.060
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCB
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	68006	4.7			ug/L	%
	Ge	72	129518	113897	1.2			ug/L	%
[>	**Sc-1**	45	616968	538248	1.2			ug/L	%
[	**Cr**	52	9272	9911	1.4	**0.231**	0.033	ug/L	14.1 %
	In	115	1301215	1183925	1.3			ug/L	%
	Tb	159	1575022	1406897	1.0			ug/L	%
	Sc	45	616968	538248	1.2			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:58:49
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-009A.061
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-009A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	66515	0.8			ug/L	%
	Ge	72	129518	118727	0.2			ug/L	%
>	**Sc-1**	45	616968	627756	0.8			ug/L	%
	Cr	52	9272	48305	0.3	**4.225**	0.058	ug/L	1.4 %
	In	115	1301215	1227885	0.3			ug/L	%
	Tb	159	1575022	1431882	0.5			ug/L	%
	Sc	45	616968	627756	0.8			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:01:22
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-010A.062
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-010A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	67039	1.6			ug/L	%
	Ge	72	129518	115871	0.6			ug/L	%
>	Sc-1	45	616968	642077	1.7			ug/L	%
	Cr	52	9272	42528	1.1	3.494	0.048	ug/L	1.4 %
	In	115	1301215	1177837	1.0			ug/L	%
	Tb	159	1575022	1392113	0.8			ug/L	%
	Sc	45	616968	642077	1.7			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:03:56
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-010ADUP.063
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-010ADUP
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	67895	0.9			ug/L	%
	Ge	72	129518	114733	0.9			ug/L	%
[>	**Sc-1**	45	616968	638264	1.3			ug/L	%
[	**Cr**	52	9272	40575	0.4	**3.313**	0.040	ug/L	1.2 %
	In	115	1301215	1179851	1.0			ug/L	%
	Tb	159	1575022	1388872	0.1			ug/L	%
	Sc	45	616968	638264	1.3			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:06:25
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-011A.064
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-011A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	69672	2.1			ug/L	%
	Ge	72	129518	112887	1.2			ug/L	%
>	**Sc-1**	45	616968	640372	1.6			ug/L	%
	Cr	52	9272	53068	1.7	**4.629**	0.090	ug/L	1.9 %
	In	115	1301215	1165684	0.9			ug/L	%
	Tb	159	1575022	1382707	1.1			ug/L	%
	Sc	45	616968	640372	1.6			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:08:52
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-012A.065
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-012A
Sample Type:

Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
Li	7	90829	72795	1.4			ug/L	%
Ge	72	129518	122254	0.7			ug/L	%
> **Sc-1**	45	616968	575357	1.3			ug/L	%
Cr	52	9272	7461	1.0	-0.141	0.008	ug/L	6.0 %
In	115	1301215	1317364	1.8			ug/L	%
Tb	159	1575022	1546637	1.1			ug/L	%
Sc	45	616968	575357	1.3			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:11:19
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-012ADUP.066
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-012ADUP
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	70748	0.6			ug/L	%
	Ge	72	129518	119576	1.4			ug/L	%
>	**Sc-1**	45	616968	566743	1.1			ug/L	%
	Cr	52	9272	6537	2.1	**-0.238**	0.012	ug/L	4.9 %
	In	115	1301215	1297175	1.1			ug/L	%
	Tb	159	1575022	1521852	0.3			ug/L	%
	Sc	45	616968	566743	1.1			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:13:46
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-010AMS.067
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-010AMS
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	90829	76358	0.7			ug/L	%
	Ge	72	129518	123039	0.8			ug/L	%
>	**Sc-1**	45	616968	710514	1.1			ug/L	%
	Cr	52	9272	128302	1.0	**11.296**	0.025	ug/L	0.2 %
	In	115	1301215	1315605	0.7			ug/L	%
	Tb	159	1575022	1557804	1.1			ug/L	%
	Sc	45	616968	710514	1.1			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:16:14
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065631-010AMSD.068
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065631-010AMSD
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	76722	0.5			ug/L	%
	Ge	72	129518	122807	0.3			ug/L	%
[>	**Sc-1**	45	616968	706490	0.4			ug/L	%
[	**Cr**	52	9272	127227	0.6	**11.262**	0.094	ug/L	0.8 %
	In	115	1301215	1311994	0.2			ug/L	%
	Tb	159	1575022	1556362	1.6			ug/L	%
	Sc	45	616968	706490	0.4			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:18:45
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\CCV.069
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCV
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	75879	0.7			ug/L	%
	Ge	72	129518	120944	0.4			ug/L	%
>	Sc-1	45	616968	585567	0.8			ug/L	%
	Cr	52	9272	97576	0.9	**10.344**	0.010	ug/L	0.1 %
	In	115	1301215	1311206	0.6			ug/L	%
	Tb	159	1575022	1533488	0.7			ug/L	%
	Sc	45	616968	585567	0.8			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:21:19
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\CCB.070
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCB
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	73325	2.2			ug/L	%
	Ge	72	129518	119222	0.8			ug/L	%
>	Sc-1	45	616968	585275	0.2			ug/L	%
	Cr	52	9272	12228	3.2	**0.400**	0.049	ug/L	12.2 %
	In	115	1301215	1303078	1.4			ug/L	%
	Tb	159	1575022	1550370	0.6			ug/L	%
	Sc	45	616968	585275	0.2			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:23:28
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\MB-15669.071
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: MB-15669
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	69843	1.5			ug/L	%
	Ge	72	129518	122315	0.3			ug/L	%
>	**Sc-1**	45	616968	583164	0.4			ug/L	%
	Cr	52	9272	10007	1.7	**0.146**	0.024	ug/L	16.6 %
	In	115	1301215	1333441	0.9			ug/L	%
	Tb	159	1575022	1586036	1.3			ug/L	%
	Sc	45	616968	583164	0.4			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:25:57
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\LCS-15669.072
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: LCS-15669
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
	Li	7	90829	70086	3.9			ug/L	%
	Ge	72	129518	121684	0.9			ug/L	%
>	**Sc-1**	45	616968	580555	0.3			ug/L	%
	Cr	52	9272	79689	0.9	**8.340**	0.090	ug/L	1.1 %
	In	115	1301215	1321528	0.5			ug/L	%
	Tb	159	1575022	1580849	0.3			ug/L	%
	Sc	45	616968	580555	0.3			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:28:26
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065632-021A.073
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-021A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	72408	3.3			ug/L	%
	Ge	72	129518	126666	0.5			ug/L	%
>	**Sc-1**	45	616968	624439	2.0			ug/L	%
	Cr	52	9272	12036	0.4	**0.290**	0.028	ug/L	9.5 %
	In	115	1301215	1379250	0.8			ug/L	%
	Tb	159	1575022	1638901	2.0			ug/L	%
	Sc	45	616968	624439	2.0			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:30:56
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065632-021ADUP.074
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-021ADUP
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	70020	1.2			ug/L	%
	Ge	72	129518	124657	0.5			ug/L	%
>	Sc-1	45	616968	612642	0.6			ug/L	%
	Cr	52	9272	9606	3.0	**0.045**	0.038	ug/L	85.8 %
	In	115	1301215	1346703	1.8			ug/L	%
	Tb	159	1575022	1619035	1.3			ug/L	%
	Sc	45	616968	612642	0.6			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:33:26
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065632-021AMS.075
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-021AMS
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	72333	2.0			ug/L	%
	Ge	72	129518	127263	0.9			ug/L	%
⌈>	**Sc-1**	45	616968	622343	2.8			ug/L	%
⌊	**Cr**	52	9272	81190	1.5	**7.878**	0.156	ug/L	2.0 %
	In	115	1301215	1379095	0.9			ug/L	%
	Tb	159	1575022	1652446	1.5			ug/L	%
	Sc	45	616968	622343	2.8			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:35:57
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\065632-021AMSD.076
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 065632-021AMSD
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	73070	0.9			ug/L	%
	Ge	72	129518	127716	0.7			ug/L	%
>	**Sc-1**	45	616968	634833	0.9			ug/L	%
	Cr	52	9272	83213	0.3	**7.919**	0.060	ug/L	0.8 %
	In	115	1301215	1369402	0.9			ug/L	%
	Tb	159	1575022	1641729	0.3			ug/L	%
	Sc	45	616968	634833	0.9			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:38:29
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\CCV.077
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCV
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
	Li	7	90829	73583	1.3			ug/L	%
	Ge	72	129518	129930	0.4			ug/L	%
>	**Sc-1**	45	616968	626874	0.8			ug/L	%
	Cr	52	9272	105238	0.7	**10.429**	0.104	ug/L	1.0 %
	In	115	1301215	1423693	0.5			ug/L	%
	Tb	159	1575022	1686951	0.4			ug/L	%
	Sc	45	616968	626874	0.8			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:41:04
Dataset File: D:\ELAN\Elandata03Sept\Dataset\2003\November\110503\CCB.078
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: CCB
Sample Type:

Summary

Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
Li	7	90829	75558	1.5			ug/L	%
Ge	72	129518	131121	0.5			ug/L	%
> **Sc-1**	45	616968	635208	1.3			ug/L	%
Cr	52	9272	11375	2.8	**0.197**	0.035	ug/L	18.0 %
In	115	1301215	1441855	0.8			ug/L	%
Tb	159	1575022	1703766	0.4			ug/L	%
Sc	45	616968	635208	1.3			ug/L	%

Metals Working Standard Prep Log

Date	Standard Name	Working Std Code	Stock Info: Stock Std Code	Preparation: Stock Concentration	Preparation: Amount Taken from Stock
10-31-03	ICP12 - ICV/CCV @10	MST031031G	MST031031F	1 ppm	0.5
11-4-03	ICPMS - Internal Std.	MST031104A	MST030247A Li	1000 ppm	1
			B Ge		
			C Tb		
			D Sc		
			E In		
			F Tm		
	ICPMS - STD1	MST031104B	MST030402A	10 ppm	5
	- 20	C	MST031104B	1 ppm	1
	- 10	D	C	20 ppb	25
	- 5	E	D	10 ppb	25
	- 0.5	F	E	5 ppb	5
	ICPMS - LCS1	G	MST021216D	10 ppm	5
	ICV/CCV @10	H	MST031104	1 ppm	0.5
11-5-03	ICPMS - STD1	MST031105A	MST030402A	10 ppm	5
	- 20	B	MST031105A	1 ppm	1
	- 10	C	B	20 ppb	25
	- 5	D	C	10 ppb	25
	- 0.5	E	D	5 ppb	5
	ICPMS - LCS1	F	MST021216D	10 ppm	5

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Metals Working Standard Prep Log

Preparation			Expiration Dates			
			Exp Date			
Final Vol. (ml)	Final Conc. (ug/ml)	Diluent Matrix (ie H_2O)	Working STD *	Manufacturer	Comments	Initials
50	10 ppb	DI H_2O + 1% HNO_3	01-29-04	Leeman		WJ
100	10 ppm	DI H_2O + 1% HNO_3	02-02-04	High Purity		WJ
50	1 ppm	DI H_2O + 1% HNO_3	02-02-04	Leeman		WJ
	20 ppb					
	10 ppb					
	5 ppb					
	0.5 ppb					
	1 ppm			Leeman		
	10 ppb					
50	1 ppm	DI H_2O + 1% HNO_3	02-03-04	Leeman		WJ
	20 ppb					
	10 ppb					
	5 ppb					
	0.5 ppb					
	1 ppm			Leeman		

* Check working std versus all manufacturer's

Advanced Technology Laboratories
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Metals Working Standard Prep Log

			Stock Info	Preparation	
Date	Standard Name	Working Std Code	Stock Std Code	Stock Concentration	Amount Taken from Stock
11-5-03	ICPMS-IW/KCW @10	MST031105G	MST031105F	1 ppm	0.5

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Metals Working Standard Prep Log

	Preparation			Expiration Dates			
	Final Vol. (ml)	Final Conc. (ug/ml)	Diluent Matrix (ie H_2O)	Exp Date: Working STD *	Exp Date: Manufacturer	Comments	Initials
1	50	10 ppb	DI H_2O + 1% HNO_3	02-07-04	Lemon		NJ
5							
10							
15							
20							

* Check working std versus all manufacturer's

Advanced Technology Laboratories
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Metals Working Standard Prep Log

Date	Standard Name	Working Std Code	Stock Info: Stock Std Code	Preparation: Stock Concentration	Preparation: Amount Taken from Stock
10-21-03	ICPMS - 500	MST031021 H	MST031021 G	1000 ppb	25
↓	↓ - 100	↓ I	↓ H	500 ppb	10
↓	ICPMS - ICS/CCV @ 500	↓ J	↓ E	1 ppm / 10 ppm	2.5
10-17-03	ICPMS - Tuning Stock Soln	MST031017 L	MST-010523E Mg	1000 ppm	0.5
↓	↓	↓	MST030414H Cu	↓	↓
			MST030217 J Rh		
			MST030414E Cd		
			↓ C Ba		
			MST030217 G Ce		
			MST030414P Pb		
			↓ D Be		
			↓ G Co		
			MST030217 H Tl		
			↓ I U		
	↓	↓	↓ E In	↓	↓
↓	10 ppb Tuning Solution	MST031017 M	MST031017 L	1 ppm	5
10-23-03	ICPMS - STD 1	MST031023 A	MST030402 A MST030402 B	10 ppm 1000 ppm	5 0.05
↓	↓ - 20	↓ B	MST031023 A	1 ppm	1
	↓ - 10	↓ C	↓ B	20 ppb	25
↓	↓ - 5	↓ D	↓ C	10 ppb	25

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Metals Working Standard Prep Log

	Preparation			Expiration Dates			
	Final Vol. (ml)	Final Conc. (ug/ml)	Diluent Matrix (ie H_2O)	Exp Date: Working STD *	Exp Date: Manufacturer	Comments	Initials
1	50	500 ppb	DI H_2O + 1% HNO_3	01-19-04	Leeman	Ca, Mg	NS
		100 ppb					
		500 ppb					
	500	1 ppm	DI H_2O + 1% HNO_3	01-15-04	Ultra Scientific		NS
5					High Purity		
10							
15							
	10	10 ppb			Ultra Scientific High Purity		
		1 ppm	DI H_2O + 1% HNO_3	01-21-04	Leeman		NS
		20 ppb					
		10 ppb					
20		5 ppb					

* Check working std versus all manufacturer's

Advanced Technology Laboratories
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Advanced Technology Laboratories

Standard LOG

Standard ID:	MST030402A		
Standard Name	CHECKMATE STANDARD 1	Type:	Stock
Date Prepared		BY:	Nancy Sibucao
Date Expires:	3/24/04		
Department	ICPMS_PR	Status:	New
Vendor:	LEEMAN LABS		
Lot Number:	573501a		

Comments:

Final Volume: 500 mL

Stock Source		**Base Units**		**Amount Added**
Analytes		**CAS**	Conc:	**µg/mL**
A	ALUMINUM			10.02
A	ANTIMONY			10.02
A	ARSENIC			10.02
A	BARIUM			10.02
A	BERYLLIUM			10.02
A	BORON			10.02
A	CADMIUM			10.02
A	CALCIUM			100.1
A	CHROMIUM			10.02
A	COBALT			10.02
A	COPPER			10.02
A	IRON			10.07
A	LEAD			10.03
A	MAGNESIUM			100.1
A	MANGANESE			10.03
A	MOLYBDENUM			10.04
A	NICKEL			10.02
A	POTASSIUM			100
A	SELENIUM			10.02
A	SILICON			10.04
A	SODIUM			100.1
A	THALLIUM			10.02
A	VANADIUM			10.03
A	ZINC			10.02

Advanced Technology Laboratories

Standard LOG

Standard ID:	MST021216D		
Standard Name	Check Mate Standard 1	Type:	Stock
Date Prepared		BY:	Nancy Sibucao
Date Expires:	11/29/03		
Department	ICPMS_PR	Status:	New
Vendor:	LEEMAN LABS		
Lot Number:	549701		

Comments:

Final Volume: 500 mL

Stock Source		Base Units		Amount Added
Analytes		**CAS**	Conc:	**µg/mL**
A	ALUMINUM			10
A	ANTIMONY			10
A	ARSENIC			10
A	BARIUM			10
A	BERYLLIUM			10
A	BORON			10
A	CADMIUM			10
A	CALCIUM			100
A	CHROMIUM			10
A	COBALT			10
A	COPPER			10
A	IRON			10.05
A	LEAD			10.01
A	MAGNESIUM			99.99
A	MANGANESE			10.01
A	MOLYBDENUM			10.02
A	NICKEL			10
A	POTASSIUM			100
A	SELENIUM			10
A	SILICON			10.02
A	SODIUM			100.3
A	THALLIUM			10
A	VANADIUM			10.01
A	ZINC			10

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

APCL Analytical Report

Submitted to:
GEOFON, Inc.
Attention: Brad Shojaee
22632 Golden Spring Dr Ste 270
Diamond Bar 91765
Tel: (909)396-7662 Fax: (909)396-1455

Service ID #: 801-035876
Collected by: Jr
Collected on: 10/22-29/03

Received: 10/29/03
Extracted: N/A
Tested: N/A
Reported: 11/13/03

Sample Description: Water
Project Description: 04.4428.10 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result DUPE-1-4Q03 03-05876-1	DUPE-3-4Q03 03-05876-2	DUPE-6-4Q03 03-05876-3	EB-1-10-22-03 03-05876-4
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result EB-3-10-24-03 03-05876-5	EB-4-10-27-03 03-05876-6	EB-5-10-28-03 03-05876-7	EB-6-10-29-03 03-05876-8
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-4-1 03-05876-9	MW-4-2 03-05876-10	MW-4-3 03-05876-11	MW-4-4 03-05876-12
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-4-5 03-05876-13	MW-11-1 03-05876-14	MW-11-2 03-05876-15	MW-11-3 03-05876-16
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-11-4 03-05876-17	MW-11-5 03-05876-18	MW-18-1 03-05876-19	MW-18-2 03-05876-20
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-18-3 03-05876-21	MW-18-4 03-05876-22	MW-18-5 03-05876-23	MW-19-1 03-05876-24
CHROMIUM [a]							

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

APCL Analytical Report

Component Analyzed	Method	Unit	PQL	Analysis Result MW-19-2 03-05876-25	MW-19-3 03-05876-26	MW-19-4 03-05876-27	MW-19-5 03-05876-28
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-20-1 03-05876-29	MW-20-2 03-05876-30	MW-20-3 03-05876-31	MW-20-4 03-05876-32
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-20-5 03-05876-33	MW-22-1 03-05876-34	MW-22-2 03-05876-35	MW-22-3 03-05876-36
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-22-4 03-05876-37	MW-22-5 03-05876-38	MW-24-1 03-05876-39	MW-24-2 03-05876-40
CHROMIUM [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-24-3 03-05876-41	MW-24-4 03-05876-42	MW-24-5 03-05876-43
CHROMIUM [a]						

PQL: Practical Quantitation Limit. MDL: Method Detection Limit. CRDL: Contract Required Detection Limit
N.D.: Not Detected or less than the practical quantitation limit. "-": Analysis is not required.
J: Reported between PQL and MDL.
Listed Dilution Factors (DF) are relative to the method default DF. All unlisted DFs are 1.0
[a] Subcontracted to Advanced Technology Laboratories Inc. See attached.

Respectfully submitted,

Dominic Lau
Laboratory Director
Applied P & Ch Laboratory

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GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW20

GEOFON's LAB COORDINATOR: Brad Shaffer	LAB COORDINATOR'S PHONE: 909 396 7662	LAB COORDINATOR'S FAX: 909 396 1455	LABORATORY SERVICE ID: —	LABORATORY CONTACT: Kenny Chan	MAIL REPORT (COMPANY NAME): Geofon, Inc.
PROJECT NAME: SPL GW Mon. 3-Q03	PROJECT LOCATION: MW-20	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: 909 590 1828	LABORATORY FAX: 909 590 1498	RECIPIENT NAME: Tony Faud
PROJECT CONTACT: J. Robinson	PROJECT PHONE NUMBER: 714 920 8729	PROJECT FAX: 909 396 1455	LABORATORY ADDRESS: 13760 Magnolia Ave.		ADDRESS: 22632 Golden Spr. Dr. #270
PROJECT ADDRESS: 4800 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: Chino, CA 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA 91765
PROJECT MANAGER: Asrar Fahum	PROJECT MANAGER'S PHONE: 909 396 7662	PROJECT MANAGER'S FAX: 909 396 1455			

5876

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses: 524.2 (VOC)	314.0 (Perchlorate)	218.6 (Hex Chrome)	200.8 (Metal Chrome)				Comments
1	MW-20-5	H_2O	10/24/03	0733	NONE HCl HNO_3	~~3~~ 4	III	Normal	X	~~X~~	~~X~~	~~X~~ 10.24.03				
2	MW-20-4			0800		~~4~~ 5			X	X	X	X				
3	MW-20-3			0841					X	X	X	X				
4	MW-20-2			0916 ~~0817~~ 10.24.03					X	X	X	X				
5	MW-20-1			0949					X	X	X	X				
6	TB-3-10-24-03			—	HCl	2			X							
7	EB-3-10-24-03			0841	HCl HNO_3 NONE	5			X	X	X	X				
8	Dupe-2-4-Q03			0929			IV		X	X	X	X				
9	MW-20-5	W	10/24/03	0826	NONE	1	III	Normal	10.24.03 ≠	X	X					
10								10.24.03								

SAMPLES COLLECTED BY: J. Robinson

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
		10/24/03	13:51
		10-24-03	14:00
		10-24-03	17:23

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

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GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-11

GEOFON's LAB COORDINATOR: Scott Bulmer	LAB COORDINATOR'S PHONE: 909 396 7662	LAB COORDINATOR'S FAX: 909 396 1455	LABORATORY SERVICE ID	LABORATORY CONTACT: Kenny Chan	MAIL REPORT (COMPANY NAME): Geofon
PROJECT NAME: SPL Cold Mon.-4003	PROJECT LOCATION: MW-11	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: 909 590 1828	LABORATORY FAX: 909 590 1498	RECIPIENT NAME: Tony Ford
PROJECT CONTACT: Brad Shipe	PROJECT PHONE NUMBER: 909 396 7662	PROJECT FAX: 909 396 1455	LABORATORY ADDRESS: 13760 Magnolia Ave.		ADDRESS: 22632 Golden Springs Dr. STE 270
PROJECT ADDRESS: 4800 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA	CLIENT: US Navy SWDIV	CITY, STATE AND ZIPCODE: Chino, CA 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA 91765
PROJECT MANAGER: Tony Ford	PROJECT MANAGER'S PHONE: 909 396 7662	PROJECT MANAGER'S FAX: 909 396 1455			

5876

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses: 524.2 (VOCs)	314.0 (ClO4)	200.8 (Cr)	219.6 (Cr (VI))					Comments
1	MW-11-5	W	10/22/03	0748	HCl HNO3 NONE	5	TIT	Normal	X	X	X	X					
2	MW-11-4	↓	↓	0810	HNO3 HCl NONE	5	↓	↓	X	X	X	X					
3	MW-11-3			0847	↓	↓			X	X	X	X					
4	MW-11-2			0910					X	X	X	X					
5	MW-11-1			0932	↓	↓	↓	↓	X	X	X	X					
6	TB-1-10-22-03			—	HCl	3			X								
7	EB-1-10-22-03	↓	↓	0900	HCl HNO3 NONE	5	↓	↓	X	X	X	X					
8																	
9																	
10																	

10-22-03

SAMPLES COLLECTED BY: JR

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
[signature]	[signature]	10-22-03	1305
		10-22-03	1425

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

0066

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-22

GEOFON's LAB COORDINATOR: Scott Burmes	LAB COORDINATOR'S PHONE: 909 396 7662	LAB COORDINATOR'S FAX: 909 396 1455	LABORATORY SERVICE ID	LABORATORY CONTACT: Kenny Chan	MAIL REPORT (COMPANY NAME): Geofon
PROJECT NAME: SPL Gold Mon-4003	PROJECT LOCATION: MW-22	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: 909 590 1828	LABORATORY FAX: 909 590 1498	RECIPIENT NAME: Tony Ford
PROJECT CONTACT: Brad Shojaee	PROJECT PHONE NUMBER: 909 396 7662	PROJECT FAX: 909 396 1455	LABORATORY ADDRESS: 13710 Magnolia Ave.		ADDRESS: 22632 Golden Springs Dr. Suite 270
PROJECT ADDRESS: 4800 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA	CLIENT: US Navy SWDIV	CITY, STATE AND ZIPCODE: Chino, CA 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA 91765
PROJECT MANAGER: Tony Ford	PROJECT MANAGER'S PHONE: 909 396 7662	PROJECT MANAGER'S FAX: 909 396 1455			

5876

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses: 524.2 (VOCs)	314.0 (Clorty)	200.8 (total) Cr	7196A Cr (VI)				Comments
1	MW-22-5	W	10/22/03	1021	HCl HNO3 None	5	III	Normal	X	X	X	X				
2	MW-22-4			1041					X	X	X	X				
3	MW-22-3			1100					X	X	X	X				
4	MW-22-2			1120					X	X	X	X				
5	MW-22-1			1140					X	X	X	X				
6																
7																
8																
9																
10																

10.22.03

SAMPLES COLLECTED BY: JR

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
[signature]	[signature]	10-22-03	1304
[signature]	[signature]	10-22-03	1424

SAMPLE'S CONDITION UPON RECEIPT

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

0059

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
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CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-4

GEOFON's LAB COORDINATOR: Scott Buhman	LAB COORDINATOR'S PHONE: 909 396 7662	LAB COORDINATOR'S FAX: 909 396 1455	LABORATORY SERVICE ID:	LABORATORY CONTACT: Kenny Chan	MAIL REPORT (COMPANY NAME): Geofon
PROJECT NAME: SPL GW Mon.-4Q03	PROJECT LOCATION: MW-4	PROJECT NUMBER: 04-4428-10	LABORATORY PHONE: 909 590 1828	LABORATORY FAX: 909 590 1498	RECIPIENT NAME: Tony Ford
PROJECT CONTACT: Brad Shojaei	PROJECT PHONE NUMBER: 909 396 7662	PROJECT FAX: 909 396 1455	LABORATORY ADDRESS: 13760 Magnolia Ave.		ADDRESS: 22632 Golden Spgs. Dr. Ste 270
PROJECT ADDRESS: 4800 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA	CLIENT: US NAVY, SWDIV	CITY, STATE AND ZIPCODE: Chino, CA 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA 91765
PROJECT MANAGER: Tony Ford	PROJECT MANAGER'S PHONE: 909 396 7662	PROJECT MANAGER'S FAX: 909 396 1455			

5876

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 524.2 (VOCs)	314.0 (ClO4)	200.8 (Total Cr)	7196 (Cr (VI))					Comments
1	MW-4-5	W	10/27/03	0744	HCl HNO3 None	5	III	Normal	X	X	X	X					
2	MW-4-4			0839					X	X	X	X					
3	MW-4-3			0901					X	X	X	X					
4	MW-4-2			0920					X	X	X	X					
5	MW-4-1			0946					X	X	X	X					
6	Dupe-3-4-Q03			0812 ~~0812~~			IV		X	X	X	X					
7	TB-4-10-27-03			—	HCl	2	III		X								
8	EB-4-10-27-03			0959	HCl HNO3 None	5			X	X	X	X					
9																	
10																	

10-27-03

SAMPLES COLLECTED BY: [illegible]

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
[illegible]	[illegible]	10-27-03	11:36
		10-27-03	12:53

SAMPLE'S CONDITION UPON RECEIPT

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

D068

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-24

GEOFON's LAB COORDINATOR: Scott Buhmer	LAB COORDINATOR'S PHONE: 909 396 7662	LAB COORDINATOR'S FAX: 909 396 1455	LABORATORY SERVICE ID	LABORATORY CONTACT: Kenny Chan	MAIL REPORT (COMPANY NAME): Geofon
PROJECT NAME: SPL GW Mon-4Q03	PROJECT LOCATION: MW-24	PROJECT NUMBER: 04.4428.10	LABORATORY PHONE: 909 590 1828	LABORATORY FAX: 909 590 1498	RECIPIENT NAME: Tony Ford
PROJECT CONTACT: Brad Shipple	PROJECT PHONE NUMBER: 909 396 7662	PROJECT FAX: 909 396 1455	LABORATORY ADDRESS: 13760 Magnolia Ave.		ADDRESS: 22632 Golden Springs Dr. Ste 270
PROJECT ADDRESS: 4800 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA	CLIENT: US Navy SWDIV	CITY, STATE AND ZIPCODE: Chino, CA 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA 91765
PROJECT MANAGER: Tony Ford	PROJECT MANAGER'S PHONE: 909 396 7662	PROJECT MANAGER'S FAX: 909 396 1455			

5876

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses: 524.2 (VOCs)	314.0 (ClO4)	200.8 (Cr)	7196A (Cr VI)					Comments
1	MW-24-5	W	10/28/03	0758	HCl HNO3 NONE	5	III	Normal	X	X	X	X					
2	MW-24-4			0829	HCl HNO3 NONE	5	III	Normal	X	X	X	X					
3	Dupe-1-4Q03			0921		5	IV	Normal	X	X	X	X					
4	MW-24-3			0946			III		X	X	X	X					
5	MW-24-2			1011					X	X	X	X					
6	MW-24-1			1041					X	X	X	X					
7	TB-5-10-28-03			—	HCl	2			X								
8	EB-5-10-28-03			1030	HCl HNO3 NONE	5			X	X	X	X					
9																	
10							10.28.03										

SAMPLES COLLECTED BY: JR

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
[signature]	[signature]	10-28-03	11:30
[signature]	[signature]	10-28-03	12:35

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

0064

GEOFON INCORPORATED

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CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-18

GEOFON's LAB COORDINATOR: Scott Buhner	LAB COORDINATOR'S PHONE: 909 396 7662	LAB COORDINATOR'S FAX: 909 396 1455	LABORATORY SERVICE ID	LABORATORY CONTACT: Kenny Chan	MAIL REPORT (COMPANY NAME): Geofon
PROJECT NAME: SPL Gas Mon-4003 MW-18	PROJECT LOCATION	PROJECT NUMBER: 04.4428.10	LABORATORY PHONE: 909 590 1828	LABORATORY FAX: 909 590 1498	RECIPIENT NAME: Tony Ford
PROJECT CONTACT: Brad Shipper	PROJECT PHONE NUMBER: 909 396 7662	PROJECT FAX: 909 396 1455	LABORATORY ADDRESS: 13760 Magnolia Ave.		ADDRESS: 22632 Golden Springs Dr. Suite 270
PROJECT ADDRESS: 4800 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA	CLIENT: US NAVY SWDIV	CITY, STATE AND ZIPCODE: Chino, CA 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA 91765
PROJECT MANAGER: Tony Ford	PROJECT MANAGER'S PHONE: 909 396 7662	PROJECT MANAGER'S FAX: 909 396 1455			

5876

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses: 524.2 (VOCs)	314.0 (Cl/Br)	200.8 (Total Cr)	7196 (Cr (VI))					Comments
1	MW-18-5	W	10.29.03	0746	HNO3 NaOH	5	III	Normal	X	X	X	X					
2	MW-18-4			0814	HCl HNO3 NaOH	5			X	X	X	X					
3	MW-18-3			0841					X	X	X	X					
4	MW-18-2			0906					X	X	X	X					MS/MSD
5	MW-18-1			0955					X	X	X	X					
6	~~Trip blank~~ TB-6-10-29-03			—	HCl	2			X								
7	EB-6-10-29-03			0945	HCl HNO3 NaOH	5			X	X	X	X					
8																	
9								10.29.03									
10																	

SAMPLES COLLECTED BY: SR

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
		10/29/03	1341
		10/29/03	1341
		10/29/03	1428

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

0065

GEOFON INCORPORATED

22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-19

GEOFON's LAB COORDINATOR: Scott Buhmer	LAB COORDINATOR'S PHONE: 909 396 7662	LAB COORDINATOR'S FAX: 909 396 1455	LABORATORY SERVICE ID	LABORATORY CONTACT: Kenny Chan	MAIL REPORT (COMPANY NAME): Geofon
PROJECT NAME: JPL Gw Mon-4Q03	PROJECT LOCATION: MW-19	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: 909 590 1828	LABORATORY FAX: 909 590 1498	RECIPIENT NAME: Tony Ford
PROJECT CONTACT: Brad Shojaee	PROJECT PHONE NUMBER: 909 396 7662	PROJECT FAX: 909 396 1455	LABORATORY ADDRESS: 13710 Magnolia Ave.		ADDRESS: 22632 Golden Springs Dr. Ste 270
PROJECT ADDRESS: 4800 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA	CLIENT: US Navy SWDIV	CITY, STATE AND ZIPCODE: Chino, CA 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA 91765
PROJECT MANAGER: Tony Ford	PROJECT MANAGER'S PHONE: 909 396 7662	PROJECT MANAGER'S FAX: 909 396 1455			

5876

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses: 8260B (4)	8011 (4)	524.2 (VOCs)	314.0 (Clo4)					Comments
1	MW-19-5	W	10/29/03	1117	HNO3 NONE	25	III	Normal	X	X	X	X					
2	MW-19-4			1140					X	X	X	X					
3	MW-19-3			1210					X	X	X	X					MS/MSD
4	MW-19-2			1250					X	X	X	X					
5	MW-19-1			1313					X	X	X	X					
6																	
7																	
8																	
9																	
10																	

10.29.03

SAMPLES COLLECTED BY: JK

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
		10/29/03	1341
		10/29/03	1341
		10/29/03	1428

Distribution: White - Laboratory (To be returned with Analytical Report); Goldenrod - Project File; Yellow - Project Data Manager

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

Sample Receiving Checklist

APCL ServiceID: 5876 **Client Name/Project:** Geofon / NPL

1. Sample Arrival

Date/Time Received 10/27/03 1230 Date/Time Opened 10/27/03 1200 By (name): Jason N.

Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☒ APCL Empl: SB

2. Chain-of-Custody (CoC)

☒ With Samples? ☐ Faxed? ☒ Client has Copy? ☐ Signed, dated? By:

☒ Project ID? ☒ Analyses Clear? ☐ Hold Samples? #on Hold ____ # Received ____

☐ CoC/Docs Zip-Locked under lid? ☐ Compos.#: ___ ☒ #Samples OK?

☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs):

3. Shipping Container/Cooler

☒ Cooler Used? # of 1 Cooled by: ☒ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 4.1

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = ____ Preserved by: ☐ Client ☐ APCL ☐ Third Party

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☒ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr

☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP

☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☒ Intact? ☐ Broken? ☐ Documented? Number: ____

Type: ☒ plastic ☒ glass ☐ Tube: brass/SS ☐ Tedlar Bag

☒ Quantity OK? ☐ Leaking? ☐ Anomaly?

☒ Caps tight? ☐ Air Bubbles? ☐ Ahomaly?

Labels: ☒ Unique ID? ☒ Date/Time ☐ Preserved?

7. Turn Around Time

☒ RUSH TAT 5 days ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☐ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: ____

☒ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☒ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:____)Date/Time:____

Received/Checked by: ____ Printed: 27 Oct 2003 7:18 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

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

Sample Receiving Checklist

APCL ServiceID: 5876 **Client Name/Project:** Geosfon / JPL

1. Sample Arrival

Date/Time Received 10/22/03 1425 Date/Time Opened 10/22/03 1425 By (name): Thuy Chem

Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☑ APCL Empl: Adam Wood

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☐ Signed, dated? By:
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold ____ # Received 12
☐ CoC/Docs Zip-Locked under lid? ☐ Compos.#: ☑ #Samples OK?
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs):

3. Shipping Container/Cooler

☑ Cooler Used? # of 1 Cooled by: ☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 34

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = ____ Preserved by: ☐ Client ☐ APCL ☐ Third Party

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☑ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number: ____

Type: ☑ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?

Labels: ☑ Unique ID? ☑ Date/Time ☐ Preserved?

7. Turn Around Time

☐ RUSH TAT: ____ ☑ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☑ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: ____
☐ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:____)Date/Time:____

Received/Checked by: [signature] Printed: 22 Oct 2003 7:28 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

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

Sample Receiving Checklist

APCL ServiceID: 5876 **Client Name/Project:** Geotor JPL

1. Sample Arrival

Date/Time Received 10/24/03 1720 Date/Time Opened 10/24/03 1720 By (name): Kenny Chen

Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☑ APCL Empl: Scott B.

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☐ Signed, dated? By: ____

☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold ____ # Received 9

☐ CoC/Docs Zip-Locked under lid? ☐ Compos.#: ___ ☑ #Samples OK? ____

☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): ____

3. Shipping Container/Cooler

☑ Cooler Used? # of 1 Cooled by: ☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 3.6 ____ ____ ____ ____ ____

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = ____ Preserved by: ☐ Client ☐ APCL ☐ Third Party ____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☑ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr

☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP

☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number: ____

Type: ☑ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag

☑ Quantity OK? ☐ Leaking? ☐ Anomaly?

☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?

Labels: ☑ Unique ID? ☑ Date/Time ☐ Preserved?

7. Turn Around Time

☐ RUSH TAT: ____ ☑ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☐ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: ____

☑ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:____)Date/Time:____

Received/Checked by: [signature] Printed: 24 Oct 2003 7:20 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

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

Sample Receiving Checklist

APCL ServiceID: 5876 **Client Name/Project:** Geotor / JPL

1. Sample Arrival

Date/Time Received 10/28/03 1235 Date/Time Opened 10/28/03 1235 By (name): Kem Chan

Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☑ APCL Empl: Scott B

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☐ Signed, dated? By: ____
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold ____ # Received 8
☐ CoC/Docs Zip-Locked under lid? ☐ Compos.#: ___ ☑ #Samples OK? ____
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): ____

3. Shipping Container/Cooler

☑ Cooler Used? # of 1 Cooled by: ☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 3.8

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = ____ Preserved by: ☐ Client ☐ APCL ☐ Third Party ____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☑ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number: ____

Type: ☑ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?

Labels: ☑ Unique ID? ☑ Date/Time ☐ Preserved?

7. Turn Around Time

☐ RUSH TAT: ____ ☑ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☐ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: ____
☑ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:____)Date/Time:____

Received/Checked by: [signature] Printed: 28 Oct 2003 7:17 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

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

Sample Receiving Checklist

APCL ServiceID: 5876 **Client Name/Project:** Geotor / JPL

1. Sample Arrival

Date/Time Received 10/29/03 1428 Date/Time Opened 10/29/03 1428 By (name): [illegible]

Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☑ APCL Empl: Richard Simon

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☑ Client has Copy? ☐ Signed, dated? By: _____
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received 12
☐ CoC/Docs Zip-Locked under lid? ☐ Compos.#: _ ☑ #Samples OK? _____
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs): _____

3. Shipping Container/Cooler

☑ Cooler Used? # of 1 Cooled by: ☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 4.7 _____ _____ _____ _____ _____

(Cooler temperature measured from temp blank if present, otherwise measured from the cooler).

Cooler Custody Seal? ☐ Absent ☐ Intact ☐ Tampered?

4. Sample Preservation

☐ **pH <2** ☐ pH >12

If Not, pH = _____ Preserved by: ☐ Client ☐ APCL ☐ Third Party _____

5. Holding-time Requirements

☐ pH 24hr ☐ BACT 6/24hr ☑ Cr^{VI} 24hr ☐ NO_3^- 48hr ☐ BOD 48hr
☐ Cl_2 ASAP ☐ Turbidity 48hr ☐ DO ASAP ☐ Fe(II) ASAP
☐ HT Expired? ☐ Client notified?

6. Sample Container Condition

☑ Intact? ☐ Broken? ☐ Documented? Number: _____

Type: ☑ plastic ☑ glass ☐ Tube: brass/SS ☐ Tedlar Bag
☑ Quantity OK? ☐ Leaking? ☐ Anomaly?
☑ Caps tight? ☐ Air Bubbles? ☐ Anomaly?

Labels: ☑ Unique ID? ☑ Date/Time ☐ Preserved?

7. Turn Around Time

☐ RUSH TAT: _____ ☑ Std. (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H_2O ☐ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☑ Ground H_2O ☐ Sludge ☐ Filter ☐ Oil/Petro ☐ Paint ☐ W. Water ☐ Extract ☐ Unknown

9. Pre-Login Check List Completed & OK?

☑ ALL OK? (if not, attach docs) ☐ Client Contact? (Name:_____)Date/Time:_____

Received/Checked by: [illegible] Printed: 29 Oct 2003 7:22 a.m.

*HT: Samples must be analyzed for results to reflect total concentrations. Results generated outside required of holding times are considered minimal values and may be used to define waste as hazardous but not as non-hazardous.

DocumentFile: [neal.texfiles]smprcl.tex.

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

Sample Login: Check List

03-05876 (0470_ 182) (2202777_ 182)

10/29/03

Part 1: General Information

☐	Company Information	Name:	*GEOFON, Inc.*
		Address:	*22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765*
☐	Project Information	Project Description:	*JPL*
		Project #:	*04.4428.10*
☐	Billing Information	P.O. #:	
		Bill Address:	*22632 Golden Spring Dr Ste 270 ,Diamond Bar ,CA 91765*
		Lab Project ID:	
		Client Database #:	*3*
☐	Receiving Information	Who Received Sample?	*Kenny Chan*
		Receiving Date/Time:	*10/29/03 1428*
		COC No.	*0068 0059 0060 0066 0071 0064 0065*
☐	Shipping Information	Shipping Company	*APCL pick up*
		Packing Information:	*Cooler/Ice Chester*
		Cooler Temperature:	*4.7 3.6 3.4 4.1 3.8 °C*
☐	Container Information	Container Provider:	*Client*
☐	Sampling Information	Sampling Person:	*Jr*
		Sampling Company:	*Client*
☐	Turn-Around-Time Option:		*Rush 5 working day(s)*
☐	QC Option:		*NEESA C*
☐	Disposal Option:		*Not specify*

Part 2: Sample Information

Seq. #	Sample ID (on COC)	Sample Sub-ID	APCL Sample ID	Matrix	Cont-tainer	Preser-vative	Vol, ml Am. g	# of Replica	Condition G, L, B	Collected mmddyy	Hold ?	Composite Group	TAT Days	
1	MW-24-5	Cr	03-05876-43	W	P	N	500	1	G	102803	N	0	7	☐
2	MW-24-4	Cr	03-05876-42	W	P	N	500	1	G	102803	N	0	7	☐
3	MW-24-3	Cr	03-05876-41	W	P	N	500	1	G	102803	N	0	7	☐
4	MW-24-2	Cr	03-05876-40	W	P	N	500	1	G	102803	N	0	7	☐
5	MW-24-1	Cr	03-05876-39	W	P	N	500	1	G	102803	N	0	7	☐
6	DUPE-1-4Q03	Cr	03-05876-1	W	P	N	500	1	G	102803	N	0	7	☐
7	EB-5-10-28-03	Cr	03-05876-7	W	P	N	500	1	G	102803	N	0	7	☐
8	MW-4-5	Cr	03-05876-13	W	P	N	500	1	G	102703	N	0	7	☐
9	MW-4-4	Cr	03-05876-12	W	P	N	500	1	G	102703	N	0	7	☐
10	MW-4-3	Cr	03-05876-11	W	P	N	500	1	G	102703	N	0	7	☐
11	MW-4-2	Cr	03-05876-10	W	P	N	500	1	G	102703	N	0	7	☐
12	MW-4-1	Cr	03-05876-9	W	P	N	500	1	G	102703	N	0	7	☐
13	DUPE-3-4Q03	Cr	03-05876-2	W	P	N	500	1	G	102703	N	0	7	☐
14	EB-4-10-27-03	Cr	03-05876-6	W	P	N	500	1	G	102703	N	0	7	☐
15	MW-11-5	Cr	03-05876-18	W	P	N	500	1	G	102203	N	0	7	☐
16	MW-11-4	Cr	03-05876-17	W	P	N	500	1	G	102203	N	0	7	☐
17	MW-11-3	Cr	03-05876-16	W	P	N	500	1	G	102203	N	0	7	☐
18	MW-11-2	Cr	03-05876-15	W	P	N	500	1	G	102203	N	0	7	☐
19	MW-11-1	Cr	03-05876-14	W	P	N	500	1	G	102203	N	0	7	☐
20	EB-1-10-22-03	Cr	03-05876-4	W	P	N	500	1	G	102203	N	0	7	☐
21	MW-22-5	Cr	03-05876-38	W	P	N	500	1	G	102203	N	0	7	☐
22	MW-22-4	Cr	03-05876-37	W	P	N	500	1	G	102203	N	0	7	☐
23	MW-22-3	Cr	03-05876-36	W	P	N	500	1	G	102203	N	0	7	☐
24	MW-22-2	Cr	03-05876-35	W	P	N	500	1	G	102203	N	0	7	☐
25	MW-22-1	Cr	03-05876-34	W	P	N	500	1	G	102203	N	0	7	☐
26	MW-20-5	Cr	03-05876-33	W	P	N	500	1	G	102403	N	0	7	☐
27	MW-20-4	Cr	03-05876-32	W	P	N	500	1	G	102403	N	0	7	☐
28	MW-20-3	Cr	03-05876-31	W	P	N	500	1	G	102403	N	0	7	☐
29	MW-20-2	Cr	03-05876-30	W	P	N	500	1	G	102403	N	0	7	☐
30	MW-20-1	Cr	03-05876-29	W	P	N	500	1	G	102403	N	0	7	☐
31	DUPE-6-4Q03	Cr	03-05876-3	W	P	N	500	1	G	102403	N	0	7	☐
32	EB-3-10-24-03	Cr	03-05876-5	W	P	N	500	1	G	102403	N	0	7	☐
33	MW-18-5	Cr	03-05876-23	W	P	N	500	1	G	102903	N	0	7	☐
34	MW-18-4	Cr	03-05876-22	W	P	N	500	1	G	102903	N	0	7	☐
35	MW-18-3	Cr	03-05876-21	W	P	N	500	1	G	102903	N	0	7	☐
36	MW-18-2	Cr	03-05876-20	W	P	N	500	2	G	102903	N	0	7	☐
37	MW-18-1	Cr	03-05876-19	W	P	N	500	1	G	102903	N	0	7	☐
38	EB-6-10-29-03	Cr	03-05876-8	W	P	N	500	1	G	102903	N	0	7	☐
39	MW-19-5	Cr	03-05876-28	W	P	N	500	1	G	102903	N	0	7	☐
40	MW-19-4	Cr	03-05876-27	W	P	N	500	1	G	102903	N	0	7	☐
41	MW-19-3	Cr	03-05876-26	W	P	N	500	2	G	102903	N	0	7	☐
42	MW-19-2	Cr	03-05876-25	W	P	N	500	1	G	102903	N	0	7	☐

43	MW-19-1	Cr	03-05876-24	W	P	N	500	1	G	102903	N	0	7	☐

Part 3: Analysis Information

Test Items: ☐ *200.7/6010B* Chromium, Cr, by ICP

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	CR	
1	MW-24-5	Cr	03-05876-43	W	X	☐
2	MW-24-4	Cr	03-05876-42	W	X	☐
3	MW-24-3	Cr	03-05876-41	W	X	☐
4	MW-24-2	Cr	03-05876-40	W	X	☐
5	MW-24-1	Cr	03-05876-39	W	X	☐
6	DUPE-1-4Q03	Cr	03-05876-1	W	X	☐
7	EB-5-10-28-03	Cr	03-05876-7	W	X	☐
8	MW-4-5	Cr	03-05876-13	W	X	☐
9	MW-4-4	Cr	03-05876-12	W	X	☐
10	MW-4-3	Cr	03-05876-11	W	X	☐
11	MW-4-2	Cr	03-05876-10	W	X	☐
12	MW-4-1	Cr	03-05876-9	W	X	☐
13	DUPE-3-4Q03	Cr	03-05876-2	W	X	☐
14	EB-4-10-27-03	Cr	03-05876-6	W	X	☐
15	MW-11-5	Cr	03-05876-18	W	X	☐
16	MW-11-4	Cr	03-05876-17	W	X	☐
17	MW-11-3	Cr	03-05876-16	W	X	☐
18	MW-11-2	Cr	03-05876-15	W	X	☐
19	MW-11-1	Cr	03-05876-14	W	X	☐
20	EB-1-10-22-03	Cr	03-05876-4	W	X	☐
21	MW-22-5	Cr	03-05876-38	W	X	☐
22	MW-22-4	Cr	03-05876-37	W	X	☐
23	MW-22-3	Cr	03-05876-36	W	X	☐
24	MW-22-2	Cr	03-05876-35	W	X	☐
25	MW-22-1	Cr	03-05876-34	W	X	☐
26	MW-20-5	Cr	03-05876-33	W	X	☐
27	MW-20-4	Cr	03-05876-32	W	X	☐
28	MW-20-3	Cr	03-05876-31	W	X	☐
29	MW-20-2	Cr	03-05876-30	W	X	☐
30	MW-20-1	Cr	03-05876-29	W	X	☐
31	DUPE-6-4Q03	Cr	03-05876-3	W	X	☐
32	EB-3-10-24-03	Cr	03-05876-5	W	X	☐
33	MW-18-5	Cr	03-05876-23	W	X	☐
34	MW-18-4	Cr	03-05876-22	W	X	☐
35	MW-18-3	Cr	03-05876-21	W	X	☐
36	MW-18-2	Cr	03-05876-20	W	X	☐
37	MW-18-1	Cr	03-05876-19	W	X	☐
38	EB-6-10-29-03	Cr	03-05876-8	W	X	☐

39	MW-19-5	Cr	03-05876-28	W	X	☐
40	MW-19-4	Cr	03-05876-27	W	X	☐
41	MW-19-3	Cr	03-05876-26	W	X	☐
42	MW-19-2	Cr	03-05876-25	W	X	☐
43	MW-19-1	Cr	03-05876-24	W	X	☐

MS/MSD on # 20, 26

Login By JASON M. NARIO

Check By BY