

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

Calibration Acceptance Criteria: > 0.995 Correlation

0022



(EPA 200.8) BLANK *

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

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

QC Batch Number: MB-R32297[illegible]

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION
(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 11/5/03

Standard Code:
MST031105G

LEEMAN LABS

MST031105G

Concentration Units: ug/L

[illegible]

ICV Limits: 90 -110%

CCV Limits: 85 -115%



(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERIFICATION
(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 11/5/03

Initial Calibration Verification:

Source:
LEEMAN LABS

Standard Code:
MST031105G

Continuing Calibration Verification:

LEEMAN LABS

MST031105G

Concentration Units: ug/L

[illegible]

ICV Limits: 90 -110%

CCV Limits: 85 -115%





ATL Number: 065631

Instrument ID: ICP4 Internal Standard ID: MST031104A

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

QC Batch: R32297

Lab ID	Sample Description	Lithium		Sc		Ge		In		Terbium	
		Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec
	Calibration Blank		---	616968	---		---		---		---
	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%

ICP-MS : Turbidity Check and Sample Preparation Log

Date Read / Digested: 11-5-03

Lab Number: R32297

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

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	0.10 ml	1 ppm	MS031105A	10	NJ	
MSD	+							
Method Blank	-							
LCS	-		0.10 ml	1 ppm	MS031105F			
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	065631-010A	0.06	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\Elan\data03Sept\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-	> R32298	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							
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							
8		CCB							
29		065632-038A							
30		065632-039A							
31		065632-040A							
32		065632-036AMS							
33		065632-036AMSD							
7		CCV							
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							
8		CCB							
42		MB-	> R32297	NS 11/6/03					
43		LCS-							
44		065631-001A							
45		065631-002A							
46		065631-003A							
47		065631-004A							

CAL: HSTD31105 B/20
C/10
D/15
E/0.5

ICV/CCV: HSTD31105 G

LCS: HSTD31105 F

MS/MSD: HSTD31105 A

ISL69 { LCS: HSP030220A
MS/MSD: HSP030414Q

0028

ICP4
11/11/03

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

Instrument Tuning Report

File Name: 110503.tun

File Path: D:\ELAN\Elan\data03Sept\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	

0030

Report Date/Time: Wednesday, November 05, 2003 09:48:11

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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
 ☐ In Sampling
 ☐ NDE

Sweeps / Reading:
 Est. Reading Time: 0:00:28.175
 Readings / Replicate:
 Est. Replicate Time: 0:00:28.175
 Replicates:
 Est. Sample Time: 0:02:49.050

Tuning File:
 Optimization File:
☐ Enable Short

	Analyte (z)	Begin Mass (amu)	End Mass (amu)	Scan Mode (m)	MCA Channels	Dwell Time per AMU (ms)	Int Time
1		5	10	Scanning	20	20	32.00
2		22	26	Scanning	20	20	32.00
3		102	104	Scanning	20	20	32.00
4		139	141	Scanning	20	20	32.00
5		206	209	Scanning	20	20	32.00

☒ Tune Mass Spec
 ☐ Peak Width Only

Peak Search Window (amu):
 Resolution DAC:

 for Analyte:

	Analyte	Mass (amu)	Measured Mass (amu)	Mass Calibration DAC Value	Resolution DAC Value	Meas Width
1	Be	9.0122	8.977	2045	2040	0.035
2	Mg	23.985	23.9787	5698	2020	0.061
3	Rh	102.905	102.879	24965	1965	0.027
4	Ce	139.905	139.879	33963	2025	0.027
5	Pb	207.977	207.978	50416	2270	0.027
6	U	238.05	238.024	57622	2435	0.027

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\Eladata03Sept\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\Eladata03Sept\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	%

0034

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 10:12:15

Dataset File: D:\ELAN\Elan\data03\Sept\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\Elan\data03Sep\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\Eladata03Sept\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

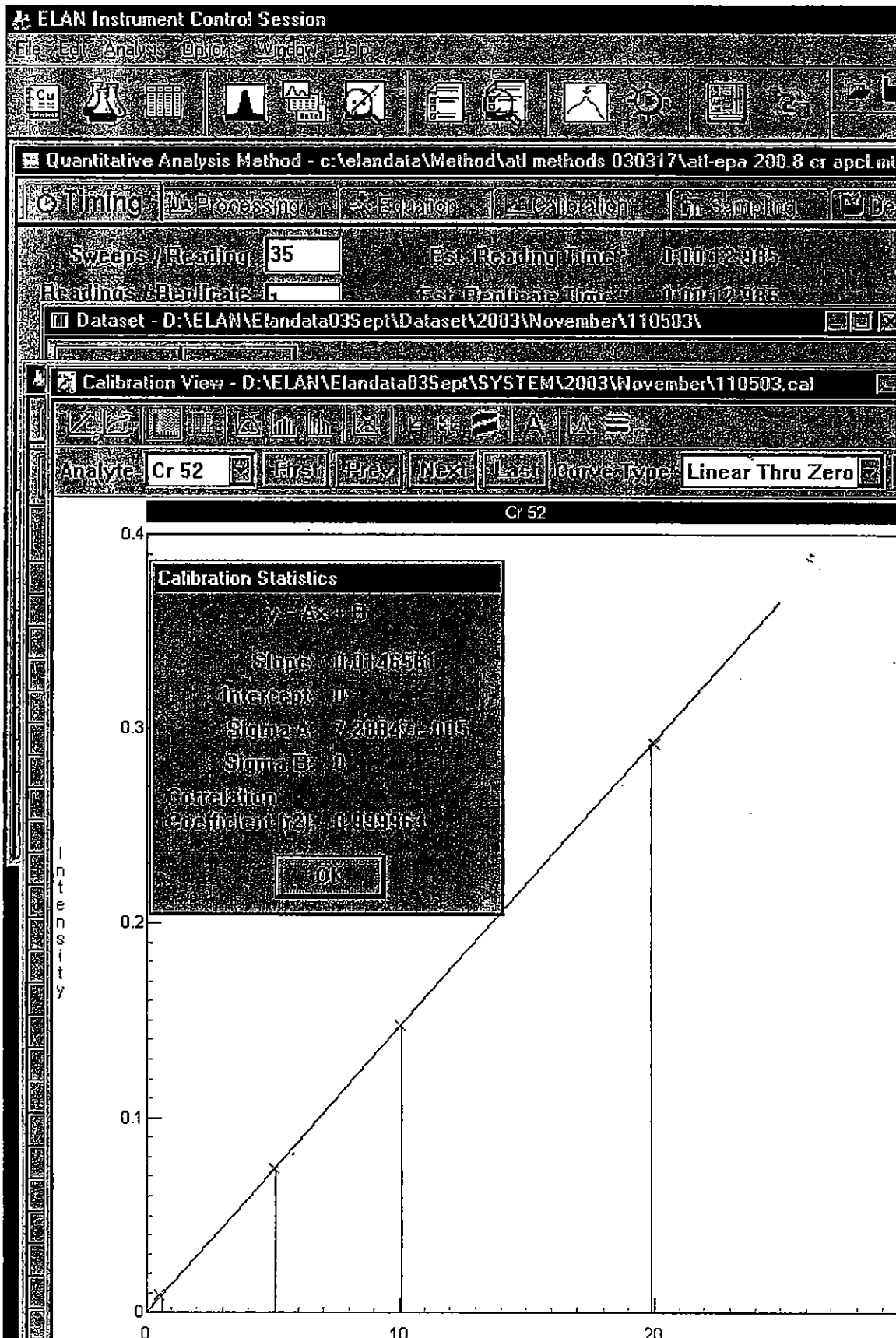
Number of Replicates: 3

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	%



Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 10:20:36

Dataset File: D:\ELAN\Elan\data03Sept\Dataset\2003\November\110503\CV.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\Elan\data03Sept\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\Eladata03Sept\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\Eladata03Sept\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\Elan\data03\Sept\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- 1132297 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\Elan\data03Sept\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\Eladata03Sept\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	%
[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\Eladata03Sept\Dataset\2003\November\110503\065631-002A.052

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 or 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\Eladata03Sept\Dataset\2003\November\110503\065631-003A.053

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 or apl.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\Eladata03Sept\Dataset\2003\November\110503\065631-004A.054

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 cr apci.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\Eladata03Sept\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\Elan\data03Sept\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\Eladata03Sept\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\Elan\data03Sept\Dataset\2003\November\110503\065631-008A.058

Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 or 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	%

0052

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 12:53:41

Dataset File: D:\ELAN\Eladata03Sept\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\Eladata03Sept\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\Elan\data03Sept\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\Elan\data03\Sept\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\Eladata03Sept\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\Eladata03Sept\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	%

0058

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:08:52

Dataset File: D:\ELAN\Eladata03Sept\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\Eladata03Sept\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	%

0060

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:13:46

Dataset File: D:\ELAN\Elan\data03\Sept\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	%

0061

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:16:14

Dataset File: D:\ELAN\Elan\data03\Sept\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	%

0062

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:18:45

Dataset File: D:\ELAN\Eladata03Sept\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	%

0063

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 13:21:19

Dataset File: D:\ELAN\Eladata03Sept\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	%

0064

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:23:28

Dataset File: D:\ELAN\Eladata03Sept\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	%

0065

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:25:57

Dataset File: D:\ELAN\Eladata03Sept\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	%

0066

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:28:26

Dataset File: D:\ELAN\Eladata03Sept\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	%

0067

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:30:56

Dataset File: D:\ELAN\Eladata03Sept\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	%

0068

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:33:26

Dataset File: D:\ELAN\Eladata03Sept\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	%

0069

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:35:57

Dataset File: D:\ELAN\Elan\data03\Sept\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	%

0070

Quantitative Analysis Summary

Sample Date/Time: Wednesday, November 05, 2003 14:38:29

Dataset File: D:\ELAN\Eladata03Sept\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\Elan\data03Sept\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	%

0072

Metals Working Standard Prep Log

Date	Standard Name	Working Std Code	Stock Info		Preparation	
			Stock Std Code	Stock Concentration	Amount Taken from Stock	
10-3-03	ICPMS - ICP/CCW @ 10	HIST031031G	HIST031031F	1 ppm	0.5	
11-4-03	ICPMS - Internal Std.	HIST031104A	HIST030247A	1000 ppm	1	
			B Ge			
			C Tb			
			D Sc			
			E In			
			F Tm			
	ICPMS - STD ₁	HIST031104B	HIST030402A	10 ppm	5	
	-20		HIST031104B	1 ppm	1	
	-10		C	20 ppb	25	
	-5		D	10 ppb	25	
	-0.5		E	5 ppb	5	
	ICPMS - LCS ₁		HIST021210D	10 ppm	5	
	I ICP/CCW @ 10		HIST031104	1 ppm	0.5	
11-5-03	ICPMS - STD ₁	HIST031105A	HIST030402A	10 ppm	5	
	-20		HIST031105A	1 ppm	1	
	-10		B	20 ppb	25	
	-5		C	10 ppb	25	
	-0.5		D	5 ppb	5	
	ICPMS - LCS ₁		HIST021210D	10 ppm	5	

Metals Working Standard Prep Log

Preparation			Expiration Dates		Comments	Initials
Final Vol. (ml)	Final Conc. (ug/ml)	Diluent Matrix (ie H ₂ O)	Working STD *	Exp Date		
50	10 ppb	DI H ₂ O + 1% HNO ₃	01-29-04	01-29-04		WJ
100	10 ppm	DI H ₂ O + 1% HNO ₃	02-02-04	02-02-04		WJ
50	1 ppm	DI H ₂ O + 1% HNO ₃	02-02-04	02-02-04		WJ
	20 ppb					
	10 ppb					
	5 ppb					
	0.5 ppb					
	1 ppm					
	10 ppb					
50	1 ppm	DI H ₂ O + 1% HNO ₃	02-02-04	02-02-04		WJ
	20 ppb					
	10 ppb					
	5 ppb					
	0.5 ppb					
	1 ppm					

1 5 10 15 20

Metals Working Standard Prep. Log

[illegible]

Check working std versus all manufacturer's

Advanced Technology Laboratories
Logbook 3
Page: 517 of 100

Metals Working Standard Prep Log

Date	Standard Name	Working Std Code	Stock Info		Preparation	
			Stock Std Code	Stock Concentration	Amount Taken from Stock	
10-24-03	ICPMS - 500	MST031021H	MST031021G	1000 ppb	25	
↓	↓ - 100	↓ I	↓ H	500 ppb	10	
↓	ICPMS - ICP/KW@500	↓ J	↓ E	1 ppm/10 ppm	2.5	
10-27-03	ICPMS - Tuning Stock Soln	MST031017L	MST-00523E Mg	1000 ppm	0.5	
↓	↓	↓	MST030414H Cu	↓	↓	
↓	↓	↓	MST030417J Pb	↓	↓	
↓	↓	↓	MST030414E Cd	↓	↓	
↓	↓	↓	↓ C Ba	↓	↓	
↓	↓	↓	MST030417G Ce	↓	↓	
↓	↓	↓	MST030414F Pb	↓	↓	
↓	↓	↓	↓ D Be	↓	↓	
↓	↓	↓	↓ G Co	↓	↓	
↓	↓	↓	MST030217H TL	↓	↓	
↓	↓	↓	↓ I W	↓	↓	
↓	↓	↓	↓ E In	↓	↓	
↓	10 ppb Tuning Solution	MST031017H	MST031017L	1 ppm	5	
10-23-03	ICPMS - STD,	MST031023A	MST030402A MST030402B	10 ppm 1000 ppm	5 0.05	
↓	↓ - 20	↓ B	MST031023A	1 ppm	1	
↓	↓ - 10	↓ C	↓ B	20 ppb	25	
↓	↓ - 5	↓ D	↓ C	10 ppb	25	

0077

Metals Working Standard Prep Log

[illegible]

Check working std versus all manufacturer's

Advanced Technology Laboratories

Page: 487 of 100

Advanced Technology Laboratories

Standard LOG

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

Stock Source		Base Units	Final Volume:	Amount Added
Analytes	CAS	Conc:	500 mL	
			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
Date Prepared: 11/29/03
Date Expires: 11/29/03
Department: ICPMS_PR
Vendor: LEEMAN LABS
Lot Number: 549701

Type: Stock
BY: Nancy Sibucan

Status: New

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
Submitted to:

GEOFON, Inc.

Attention: Brad Shojacee

22632 Golden Spring Dr Ste 270

Diamond Bar 91765

Tel: (909) 396-7662 Fax: (909) 396-1455

APCL Analytical Report

Service ID #: 801-035876

Received: 10/29/03

Collected by: Jr

Extracted: N/A

Collected on: 10/22-29/03

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	DUPE-3-4Q03	DUPE-6-4Q03	EB-1-10-22-03
				03-05876-1	03-05876-2	03-05876-3	03-05876-4

CHROMIUM ^(a)

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

CHROMIUM ^(a)

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

CHROMIUM ^(a)

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

CHROMIUM ^(a)

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

CHROMIUM ^(a)

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-18-3	MW-18-4	MW-18-5	MW-19-1
				03-05876-21	03-05876-22	03-05876-23	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	MW-19-3	MW-19-4	MW-19-5
				03-05876-25	03-05876-26	03-05876-27	03-05876-28

CHROMIUM ^(a)

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

CHROMIUM ^(a)

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

CHROMIUM ^(a)

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

CHROMIUM ^(a)

Component Analyzed	Method	Unit	PQL	Analysis Result			
				MW-24-3	MW-24-4	MW-24-5	
				03-05876-41	03-05876-42	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.

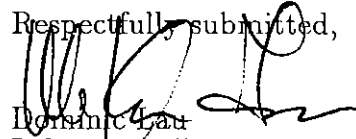
"-": Analysis is not required.

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



GEOFON
INCORPORATED
22632 GOLDEN SPRINGS DR., SUITE 270
DIAMOND BAR CA 91785 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

0671

11/20

GEOFON LAB COORDINATOR

LAB COORDINATOR'S PHONE

LAB COORDINATOR'S FAX

PROJECT NAME

PROJECT LOCATION

PROJECT FAX

LABORATORY SERVICE ID

LABORATORY CONTACT

MAIL REPORT (COMPANY NAME)

909 396 7662

909 396 1455

PROJECT NUMBER
04-4428.10

LABORATORY PHONE
909 590 1828

LABORATORY FAX
909 590 1498

Corazon, Inc.
104 Ford

PROJECT CONTACT

PROJECT PHONE NUMBER
914 920 8729

PROJECT FAX
909 396 1455

LABORATORY ADDRESS
137600 Magnolia Ave.

CITY, STATE AND ZIP CODE
Chino, CA 91710

ADDRESS
22632 Golden Spr. Dr.

CITY, STATE AND ZIP CODE
Diamond Bar, CA 91765

PROJECT ADDRESS

CITY, STATE AND ZIP CODE
Pacoima, CA

CLIENT
US NAVY SWINTV

CITY, STATE AND ZIP CODE
Chino, CA 91710

LABORATORY ADDRESS
22632 Golden Spr. Dr.

CITY, STATE AND ZIP CODE
Diamond Bar, CA 91765

PROJECT MANAGER

PROJECT MANAGER'S PHONE

PROJECT MANAGER'S FAX

LABORATORY ADDRESS
Chino, CA 91710

CITY, STATE AND ZIP CODE
Diamond Bar, CA 91765

PROJECT ADDRESS

CITY, STATE AND ZIP CODE
Pacoima, CA

CLIENT
US NAVY SWINTV

CITY, STATE AND ZIP CODE
Chino, CA 91710

LABORATORY ADDRESS
22632 Golden Spr. Dr.

CITY, STATE AND ZIP CODE
Diamond Bar, CA 91765

LABORATORY ADDRESS
Chino, CA 91710

5876

Comments

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	Analyses	524.2 (Voc)	519.0 (Pachometer)	520.8 (Leak Check)
1	H10-20-5	H20	10/24/03	0733	NON	34	III	Normal	X	X	X	X
2	H10-20-4			0800		15			X	X	X	X
3	H10-20-3			0841					X	X	X	X
4	H10-20-2			0919					X	X	X	X
5	H10-20-1			0949					X	X	X	X
6	18-3-10-24-03					2			X			
7	18-3-10-24-03			0841		5			X	X	X	X
8	18-3-10-24-03			0929		4			X	X	X	X
9	H10-20-5			10/24/03	0822	1	III	Normal	X	X	X	X
10						2			X			

SAMPLES COLLECTED BY: J. Robinson

COURIER AND AIR BILL NUMBER:

RELINQUISHED BY

RECEIVED BY

DATE

TIME

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

J. Robinson

J. Robinson

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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CHAIN-OF-CUSTODY RECORD

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DIAMOND BAR, CA 91765 • (909) 396-7662 • FAX (909) 396-1455

MW-11

GEOPHON, LAB COORDINATOR

LAB COORDINATOR'S PHONE

LABORATORY SERVICE ID

LABORATORY CONTACT

MAIL REPORT (COMPANY NAME)

PROJECT NAME: Sweet Butte

LAB COORDINATOR'S PHONE: 909 396 7662

LAB COORDINATOR'S FAX: 909 396 1455

LABORATORY PHONE: 909 590 1828

LABORATORY FAX: 909 590 1498

RECIPIENT NAME: Cocofon

PROJECT CONTACT: SPC Geo Hb-11003

PROJECT LOCATION: MW-11

PROJECT NUMBER: 04-4428.10

LABORATORY ADDRESS: 13760 Magnolia Ave.

LABORATORY CITY, STATE AND ZIP CODE: Glenn, CA 91716

ADDRESS: 22632 Golden Springs Dr.

PROJECT ADDRESS: 4800 East Coast Dr.

CITY, STATE AND ZIP CODE: Pasadena, CA

CLIENT: US Navy Substr

CITY, STATE AND ZIP CODE: Glenn, CA 91716

ADDRESS: 22632 Golden Springs Dr.

CITY, STATE AND ZIP CODE: Diamond Bar, CA 91765

PROJECT MANAGER: Tony Ford

PROJECT MANAGER'S PHONE: 909 396 7662

PROJECT MANAGER'S FAX: 909 396 1455

ANALYSES: 524.2 (C10-3)
314.0 (C10-4)
250.8 (C10-5)
219.6 (C10-6)

Item

Sample Identifier

Matrix

Date

Time

Preserved

of Cont

QC Level

T.A.T

Analyses

Comments

1 MW-11-5

W

10/22/03

0748

5

III

Normal

X

X

X

X

X

X

X

X

X

2 MW-11-4

W

0810

5

III

Normal

X

X

X

X

X

X

X

X

X

3 MW-11-3

W

0817

5

III

Normal

X

X

X

X

X

X

X

X

X

4 MW-11-2

W

0910

5

III

Normal

X

X

X

X

X

X

X

X

X

5 MW-11-1

W

0932

5

III

Normal

X

X

X

X

X

X

X

X

X

6 LB-1-10-22-03

W

0900

5

III

Normal

X

X

X

X

X

X

X

X

X

7 LB-1-10-22-03

W

0900

5

III

Normal

X

X

X

X

X

X

X

X

X

8 LB-1-10-22-03

W

0900

5

III

Normal

X

X

X

X

X

X

X

X

X

9 LB-1-10-22-03

W

0900

5

III

Normal

X

X

X

X

X

X

X

X

X

10 LB-1-10-22-03

W

0900

5

III

Normal

X

X

X

X

X

X

X

X

X

SAMPLES COLLECTED BY: SP

COURIER AND AIR BILL NUMBER:

RECEIVED BY: AW

DATE: 10-22-03

TIME: 1435

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

REINQUISHED BY: AW

DATE: 10-22-03

TIME: 1435

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

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

Comments

5876

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments

Comments



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

Dele

MU-22

GEOFON LAB COORDINATOR: Scott Bummer LAB COORDINATOR'S PHONE: 909 396 7662 LAB COORDINATOR'S FAX: 909 396 1455

PROJECT NAME: SEA GARDEN HON-4003 PROJECT LOCATION: MU-22 PROJECT NUMBER: 04-4428.10 LABORATORY SERVICE ID: Kenny Chan LABORATORY CONTACT: George Ford MAIL REPORT (COMPANY NAME): George Ford

PROJECT CONTACT: Brad Shapiro PROJECT PHONE NUMBER: 909 396 7662 PROJECT FAX: 909 396 1455 LABORATORY ADDRESS: 18710 Magnolia Ave. Chino, CA 91710 CITY, STATE AND ZIP CODE: Chino, CA 91710

PROJECT ADDRESS: 4800 Oak Grove Dr. CITY, STATE AND ZIP CODE: Diamond Bar, CA 91765

PROJECT MANAGER: Long Ford PROJECT MANAGER'S PHONE: 909 396 7662 PROJECT MANAGER'S FAX: 909 396 1455

Item	Sample Identifier	Matrix		Date		Time		Preserved	# of Cont	QC Level	T.A.T	Analyses		Comments
		W	10p403	1021	1021	1041	1041					529.2 (Vond)	314.0 (C101)	
1	MU-22-5							5	III	Normal				
2	MU-22-4													
3	MU-22-3													
4	MU-22-2													
5	MU-22-1													
6														
7														
8														
9														
10														

SAMPLES COLLECTED BY: SN COURIER AND AIR BILL NUMBER: 10.22.03 COOLER TEMPERATURE UPON RECEIPT: 10.22.03

RECEIVED BY: Stanley B DATE: 10-22-03 TIME: 1304 SAMPLE'S CONDITION UPON RECEIPT: 10-22-03 1210

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



GEOFON
INCORPORATED

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

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

LAB-4

2059

GEOFON - LAB COORDINATOR

LAB COORDINATOR'S PHONE

LAB COORDINATOR'S FAX

LABORATORY SERVICE ID

LABORATORY CONTACT

MAIL REPORT (COMPANY NAME)

Scott Babin

909 396 7662

909 396 1455

LABORATORY PHONE

Kenny Chan

GEOFON

PROJECT NAME

PROJECT LOCATION

PROJECT NUMBER

LABORATORY ADDRESS

LABORATORY FAX

RECIPIENT NAME

SPL Gas Mon - 48003

LAB-4

D4-4428-10

LABORATORY PHONE

909 590 1828

LABORATORY FAX

PROJECT CONTACT

PROJECT PHONE NUMBER

PROJECT FAX

LABORATORY ADDRESS

LABORATORY CONTACT

RECIPIENT NAME

Brad Shapiro

909 396 7662

909 396 1455

LABORATORY ADDRESS

LABORATORY CONTACT

RECIPIENT NAME

PROJECT ADDRESS

CITY, STATE AND ZIP CODE

CLIENT

LABORATORY ADDRESS

LABORATORY CONTACT

RECIPIENT NAME

4800 Del Gato Ave.

Pasadena, CA

US NA09, Sublin

CITY, STATE AND ZIP CODE

LABORATORY ADDRESS

RECIPIENT NAME

PROJECT MANAGER

PROJECT MANAGER'S PHONE

PROJECT MANAGER'S FAX

LABORATORY ADDRESS

LABORATORY CONTACT

RECIPIENT NAME

Tony Ford

909 396 7662

909 396 1455

LABORATORY ADDRESS

LABORATORY CONTACT

RECIPIENT NAME

Item

Sample Identifier

Matrix

Date

Time

Preserved

1

HWS-4-5

W

10/27/03

0744

HCl

2

HWS-4-4

0839

HCl

HWS

3

HWS-4-3

0901

HCl

HWS

4

HWS-4-2

0920

HCl

HWS

5

HWS-4-1

0946

HCl

HWS

6

Suppl-3-4-0003

0812

HCl

HWS

7

IB-4-10-27-03

0812

HCl

HWS

8

IB-4-10-27-03

0859

HCl

HWS

9

IB-4-10-27-03

0859

HCl

HWS

10

IB-4-10-27-03

0859

HCl

HWS

SAMPLES COLLECTED BY

RELINQUISHED BY

COURIER AND AIR BILL NUMBER

RECEIVED BY

DATE

TIME

10-27-03 11:36

10-27-03 12:30

10-27-03 12:30

10-27-03 12:30

10-27-03 12:30

10-27-03 12:30

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

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SAMPLE'S CONDITION UPON RECEIPT

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

5876



GEOFON
INCORPORATED

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

Doc 8

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

GEOFON LAB COORDINATOR

LAB COORDINATOR'S PHONE

LAB COORDINATOR'S FAX

LABORATORY SERVICE ID

LABORATORY CONTACT

MAIL REPORT (COMPANY NAME)

Scott Butman

909 396 7662

909 396 1455

LABORATORY PHONE

Kenny Chan

GEOFON

PROJECT NAME:

PROJECT LOCATION:

PROJECT NUMBER

LABORATORY FAX

LABORATORY CONTACT

RECIPIENT NAME

SPR CAL MON-4003

MU-24

04.4428.10

909 396 1828

909 396 1498

Tony Ford

PROJECT CONTACT

PROJECT PHONE NUMBER

PROJECT FAX

LABORATORY ADDRESS

LABORATORY CONTACT

ADDRESS

Brian Shapiro

909 396 7662

909 396 1455

13760 Magnolia Ave.

Chino, CA 91710

22432 Golden Springs Dr. Ste 270

PROJECT ADDRESS

CITY, STATE AND ZIP CODE

CLIENT

CITY, STATE AND ZIP CODE

LABORATORY ADDRESS

CITY, STATE AND ZIP CODE

4800 Oak Grove Dr.

Pasadena, CA

US Navy Subdiv

Chino, CA 91710

Chino, CA 91710

Diamond Bar, CA 91765

PROJECT MANAGER

PROJECT MANAGER'S PHONE

PROJECT MANAGER'S FAX

LABORATORY ADDRESS

LABORATORY CONTACT

ADDRESS

Tony Ford

909 396 7662

909 396 1455

Chino, CA 91710

Chino, CA 91710

Diamond Bar, CA 91765

5876
Comments

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont	QC Level	T.A.T	Analyses		
									324.2 (VOC)	314.0 (VOC)	200.8 (VOC)
1	MU-24-5	W	10/28/03	0758	HCl	5	III	Normal	X	X	X
2	MU-24-4			0829	HCl	5	III	Normal	X	X	X
3	MU-24-3			0921	HCl	5	IV	Normal	X	X	X
4	MU-24-2			0946	HCl	5	III	Normal	X	X	X
5	MU-24-1			1011	HCl	5	III	Normal	X	X	X
6	MU-24-0			1041	HCl	5	III	Normal	X	X	X
7	MU-24-0			1041	HCl	5	III	Normal	X	X	X
8	MU-24-0			1030	HCl	5	III	Normal	X	X	X
9	MU-24-0			1030	HCl	5	III	Normal	X	X	X
10	MU-24-0			1030	HCl	5	III	Normal	X	X	X

SAMPLES COLLECTED BY: ST COOLER AND AIR BILL NUMBER: _____

RELINQUISHED BY: _____ RECEIVED BY: _____ DATE: _____ TIME: _____

SAMPLE'S CONDITION UPON RECEIPT: _____

COOLER TEMPERATURE UPON RECEIPT: _____

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



CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

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

MWS-18

GEOFON LAB COORDINATOR

LAB COORDINATOR'S PHONE

LAB COORDINATOR'S FAX

LABORATORY SERVICE ID

LABORATORY CONTACT

MAIL REPORT (COMPANY NAME)

PROJECT NAME:
SPL Geo Hor-4003 MWS-18

PROJECT LOCATION

PROJECT NUMBER

LABORATORY PHONE

LABORATORY FAX

RECIPIENT NAME

PROJECT CONTACT

PROJECT PHONE NUMBER

PROJECT FAX

LABORATORY ADDRESS

CITY, STATE AND ZIP CODE

ADDRESS

PROJECT ADDRESS

CITY, STATE AND ZIP CODE

CLIENT

LABORATORY PHONE

LABORATORY FAX

RECIPIENT NAME

PROJECT MANAGER

PROJECT MANAGER'S PHONE

PROJECT MANAGER'S FAX

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CITY, STATE AND ZIP CODE

ADDRESS

PROJECT ADDRESS

CITY, STATE AND ZIP CODE

CLIENT

LABORATORY ADDRESS

CITY, STATE AND ZIP CODE

ADDRESS

5876

Comments

SAMPLES COLLECTED BY: SN
COURIER AND AIR BILL NUMBER:
RECEIVED BY: DATE: TIME: COOLER TEMPERATURE UPON RECEIPT: SAMPLE'S CONDITION UPON RECEIPT:

RELINQUISHED BY:

RECEIVED BY:

DATE:

COOLER TEMPERATURE UPON RECEIPT:

SAMPLE'S CONDITION UPON RECEIPT:

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



GEOFON
INCORPORATED

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

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

Mus-19

0065

GEOFON LAB COORDINATOR

LAB COORDINATOR'S PHONE

LAB COORDINATOR'S FAX

LABORATORY SERVICE ID

LABORATORY CONTACT

MAIL REPORT (COMPANY NAME)

Scott Brunner

909 396 7662

909 396 1455

LABORATORY PHONE

Kenny Chan

Geocon

PROJECT NAME: JPL Case Mus-1903

PROJECT LOCATION: Mus-19

PROJECT NUMBER: 04-4428.10

LABORATORY FAX

909 590 1828

RECIPIENT NAME: Tony Ford

PROJECT CONTACT: Brock Shapiro

PROJECT PHONE NUMBER: 909 396 7662

PROJECT FAX: 909 396 1455

LABORATORY ADDRESS

13710 Magnolia Ave.

ADDRESS

PROJECT ADDRESS: 4800 Oak Grove Dr.

CITY, STATE AND ZIP CODE: Pasadena, CA

CLIENT: US Navy SubIV

CITY, STATE AND ZIP CODE: Chino, CA

91710

22632 Golden Springs Dr. Ste 270

PROJECT MANAGER: Tony Ford

PROJECT MANAGER'S PHONE: 909 396 7662

PROJECT MANAGER'S FAX: 909 396 1455

LABORATORY ADDRESS

22632 Golden Springs Dr. Ste 270

CITY, STATE AND ZIP CODE: Diamond Bar, CA 91765

Item	Sample Identifier	Matrix			Preserved	# of Cont	QC Level		T.A.T.	Analysis Results									
		Date	Time																
1	Mus-19-5	10/21/03	11/17	W	10/23/03	25	III	Normal		5876									
2	Mus-19-4																		
3	Mus-19-3									MS 1MS1									
4	Mus-19-2																		
5	Mus-19-1																		
6																			
7																			
8																			
9																			
10																			

SAMPLES COLLECTED BY: JK										COURIER AND AIR BILL NUMBER:									
REINQUISHED BY:										RECEIVED BY:									
DATE: 10/21/03										TIME: 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 / JPL

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 ☐ NO₃ 48hr ☐ BOD 48hr
☐ Cl₂ 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 Stays ☐ Std (7-10 days) ☐ Not Marked

8. Sample Matrix

☐ Drinking H₂O ☐ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☒ Ground H₂O ☐ 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: 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.

Document File: [neal.textfiles]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: Gaslon / JPL

1. Sample Arrival

Date/Time Received 10/22/03 1425 Date/Time Opened 10/22/03 1425 By (name): Adam Wood
 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 ☐ NO₃ 48hr ☐ BOD 48hr
☐ Cl₂ 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 H₂O ☒ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☐ Ground H₂O ☐ 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: Adam Wood 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.

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: Geobon JPL

1. Sample Arrival

Date/Time Received 10/24/03 1720 Date/Time Opened 10/24/03 1720 By (name): Vernon 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 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 36
(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 ☐ NO₃⁻ 48hr ☐ BOD 48hr
☐ Cl₂ 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 H₂O ☐ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☒ Ground H₂O ☐ 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: Vernon Chan 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.

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: Geston / JPL

1. Sample Arrival

Date/Time Received 10/28/03 1235 Date/Time Opened 10/28/03 1235 By (name): Kenny 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 ☐ NO₃ 48hr ☐ BOD 48hr
☐ Cl₂ 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 H₂O ☐ Other Liq ☐ Soil ☐ Wipe ☐ Polymer ☐ Air ☐ Other: _____
☒ Ground H₂O ☐ 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.

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:

Gedon / JPL

1. Sample Arrival

Date/Time Received

10/29/03

Date/Time Opened

10/29/03

By (name):

Krypin

Custody Transfer:

☐ Client

☐ Golden State

☐ UPS

☐ US Mail

☐ FedEx

☒ APCL Empl:

Richard Starn

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

4.1

(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

☐ NO₃⁻ 48hr

☐ BOD 48hr

☐ Cl₂ 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 H₂O

☐ Other Liq

☐ Soil

☐ Wipe

☐ Polymer

☐ Air

☐ Other:

☒ Ground H₂O

☐ 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:

Krypin

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.

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
	CDC 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 ☐

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