Applied P & Ch Laboratories
Project: JPL, #3484

ATL Work Order: 063531

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

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Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Subcontract Chain of Custody

Please Print in pen Page ____ of ____

Subcontract Lab: ATL Contact: Puri Tel #: (562) 989-4045 Fax #: (562) 989-4040
Address: 3275 Walnut Ave. City: Signal Hill State: CA Zip code: 90807
APCL Client: # 3484 APCL Contact:
Project Name/Code JPL Job #
BILL TO APCL Sub Quotation #
Due Date: ☒ regular ☐ rush: ___ days ___ hours Sampled by: Leo Williamson

Analysis Items

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	Cr 200.8	Pb 200.8										Remarks
MW-22-5		5/8/03	0800	W	HNO3	500ml	X	X										
MW-22-4			0840				X	X										Level 4 pkg
MW-22-3			0925				X	X										and EDD
MW-22-2			1000				X	X										
MW-22-1			1105			2x500ml	X	X										← MS/MSD
EB-12-5/8/03			0850			500ml	X	X										
MW-18-5		5/13/03	0810				X	X										
MW-18-4			0925				X	X										
MW-18-3			1010				X	X										
MW-18-2			1050				X	X										
MW-18-1			1130				X	X										
EB-13-5/13/03			1020				X	X										
Dupe-72603			—				X	X										
MW-13		5/27/03	0830				X	X										
MW-16			1050				X	X										

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (Please specify)

Sample Disposal: ☐ Return ☐ Disposal by APCL ☐ Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☒ Intact; ☐ Broken. Cooler Seal: ☐ Intact; ☐ Broken; ☒ None. Tag # _____ Temperature: ☐ Room ☒ Cold (5.4 °C).

Relinquished by [signature] Date/Time 6/25/03 / 1700 Received by [signature] Date/Time 06/25/03 / 2:12pm

Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

APCL Form 4-101, Ver. 4.0, Jan. 15, 2002

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710
Tel: (909) 590-1828 Fax: (909) 590-1498

Subcontract Chain of Custody

Please Print in pen Page ____ of ____

Subcontract Lab: ATL Contact: Puri Tel #: (562) 989-4045 Fax #: (562) 989-4040
Address: 3275 Walnut Ave. City: Signal Hill State: CA Zip code: 90807
APCL Client: # APCL Contact:
Project Name/Code Job #
BILL TO APCL Sub Quotation #
Due Date: ☒ regular ☐ rush: ____ days ____ hours Sampled by:

White – With report
Yellow – Lab copy
Pink – Originator

Field Sample ID No.	Sample Description	Date Collected	Time Collected	Sample Matrix	Preservation	# of Containers	Analysis Items: Cr 200.8	Pb 200.8	Remarks
MW-5		5/28/03	0830	W	HNO_3	500ml	X	X	Level 4 pkg
MW-8		↓	1115			500ml	X	X	and EDD
MW-6		5/29/03	1025			2x500ml	X	X	← MS/MSD
MW-7			1220			2x500ml	X	X	← MS/MSD
MW-15		↓	1315			500ml	X	X	
MW-10		5/30/03	0735				X	X	
MW-1			0950				X	X	
MW-9		↓	1150	↓	↓	↓	X	X	

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☐ NEESA ___ (E, C or D); ☐ Other _____ (Please specify)

Sample Disposal: ☐ Return ☐ Disposal by APCL ☐ Hold for _____ days after receiving date. **If not specified, samples will be discarded 45 days after samples are received.**

Sample Conditions: ☒ Intact; ☐ Broken. Cooler Seal: ☐ Intact; ☐ Broken; ☒ None. Tag # _____ Temperature: ☐ Room ☒ Cold (5.4 °C).

Relinquished by [signature] Date/Time 6/25/03 / 1700 Received by [signature] Date/Time 06/26/03 / 2:17pm
Relinquished by Date/Time / Received by Date/Time /

APCL USE ONLY Service # Note:

Clients understand that all terms described in the proposals, quotations for this project, and/or the general terms provided in the current APCL price schedules will be followed. APCL reserves the right to terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have been broken.

Advanced Technology Laboratories

Date: *03-Jul-03*

CLIENT: Applied P & Ch Laboratories
Project: JPL, #3484
Lab Order: 063531
Contract No:

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received	Date Reported
063531-001A	MW-22-5	Water	5/8/2003	6/26/2003	7/3/2003
063531-002A	MW-22-4	Water	5/8/2003	6/26/2003	7/3/2003
063531-003A	MW-22-3	Water	5/8/2003	6/26/2003	7/3/2003
063531-004A	MW-22-2	Water	5/8/2003	6/26/2003	7/3/2003
063531-005A	MW-22-1	Water	5/8/2003	6/26/2003	7/3/2003
063531-006A	EB-12-5/8/03	Water	5/8/2003	6/26/2003	7/3/2003
063531-007A	MW-18-5	Water	5/13/2003	6/26/2003	7/3/2003
063531-008A	MW-18-4	Water	5/13/2003	6/26/2003	7/3/2003
063531-009A	MW-18-3	Water	5/13/2003	6/26/2003	7/3/2003
063531-010A	MW-18-2	Water	5/13/2003	6/26/2003	7/3/2003
063531-011A	MW-18-1	Water	5/13/2003	6/26/2003	7/3/2003
063531-012A	EB-13-5/13/03	Water	5/13/2003	6/26/2003	7/3/2003
063531-013A	Dupe-72Q03	Water	5/13/2003	6/26/2003	7/3/2003
063531-014A	MW-13	Water	5/27/2003	6/26/2003	7/3/2003
063531-015A	MW-16	Water	5/27/2003	6/26/2003	7/3/2003
063531-016A	MW-5	Water	5/28/2003	6/26/2003	7/3/2003
063531-017A	MW-8	Water	5/28/2003	6/26/2003	7/3/2003
063531-018A	MW-6	Water	5/29/2003	6/26/2003	7/3/2003
063531-019A	MW-7	Water	5/29/2003	6/26/2003	7/3/2003
063531-020A	MW-15	Water	5/29/2003	6/26/2003	7/3/2003
063531-021A	MW-10	Water	5/30/2003	6/26/2003	7/3/2003
063531-022A	MW-1	Water	5/30/2003	6/26/2003	7/3/2003
063531-023A	MW-9	Water	5/30/2003	6/26/2003	7/3/2003

Advanced Technology Laboratories
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Advanced Technology Laboratories **Date:** *03-Jul-03*

CLIENT: Applied P & Ch Laboratories
Project: JPL, #3484
Lab Order: 063531

CASE NARRATIVE

QC Batch R28956 (EPA 200.8)

Matrix Spike (MS) and /or Matrix Spike Duplicate (MSD) are outside recovery criteria; however, the analytical batch was validated by the Laboratory Control Sample (LCS).

005

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *03-Jul-03*

CLIENT: Applied P & Ch Laboratories
Project: JPL, #3484
Lab Order: 063531

Lab ID: 063531-001
Client Sample ID: MW-22-5
Collection Date: 5/8/2003 8:00:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	ND	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-002
Client Sample ID: MW-22-4
Collection Date: 5/8/2003 8:40:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	2.4	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-003
Client Sample ID: MW-22-3
Collection Date: 5/8/2003 9:25:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	ND	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceding holding time

Results are wet unless othewise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *03-Jul-03*

CLIENT: Applied P & Ch Laboratories
Project: JPL, #3484
Lab Order: 063531

Lab ID: 063531-004
Client Sample ID: MW-22-2
Collection Date: 5/8/2003 10:00:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	ND	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-005
Client Sample ID: MW-22-1
Collection Date: 5/8/2003 11:05:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	1.9	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-006
Client Sample ID: EB-12-5/8/03
Collection Date: 5/8/2003 8:50:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	ND	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Qualifiers:

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H-Sample exceding holding time

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Advanced Technology Laboratories

Date: *03-Jul-03*

CLIENT: Applied P & Ch Laboratories
Project: JPL, #3484
Lab Order: 063531

Lab ID: 063531-007
Client Sample ID: MW-18-5
Collection Date: 5/13/2003 8:10:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	ND	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-008
Client Sample ID: MW-18-4
Collection Date: 5/13/2003 9:25:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	2.0	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-009
Client Sample ID: MW-18-3
Collection Date: 5/13/2003 10:10:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	5.4	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Qualifiers:

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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
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R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceding holding time

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Advanced Technology Laboratories

Date: *03-Jul-03*

CLIENT: Applied P & Ch Laboratories
Project: JPL, #3484
Lab Order: 063531

Lab ID: 063531-010
Client Sample ID: MW-18-2
Collection Date: 5/13/2003 10:50:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	ND	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-011
Client Sample ID: MW-18-1
Collection Date: 5/13/2003 11:30:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	ND	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-012
Client Sample ID: EB-13-5/13/03
Collection Date: 5/13/2003 10:20:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	1.1	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Qualifiers:

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- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H-Sample exceding holding time

Results are wet unless othewise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *03-Jul-03*

CLIENT: Applied P & Ch Laboratories
Project: JPL, #3484
Lab Order: 063531

Lab ID: 063531-013
Collection Date: 5/13/2003
Client Sample ID: Dupe-72Q03
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	2.2	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-014
Collection Date: 5/27/2003 8:30:00 AM
Client Sample ID: MW-13
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	16	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-015
Collection Date: 5/27/2003 10:50:00 AM
Client Sample ID: MW-16
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	4.5	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Qualifiers:

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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceding holding time

Results are wet unless othewise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *03-Jul-03*

CLIENT: Applied P & Ch Laboratories
Project: JPL, #3484
Lab Order: 063531

Lab ID: 063531-016
Client Sample ID: MW-5
Collection Date: 5/28/2003 8:30:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	3.1	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-017
Client Sample ID: MW-8
Collection Date: 5/28/2003 11:15:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	1.4	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-018
Client Sample ID: MW-6
Collection Date: 5/29/2003 10:25:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
				EPA 200.8		
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	7.1	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds Maximum Contaminant Level
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range
- H-Sample exceding holding time

Results are wet unless othewise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *03-Jul-03*

CLIENT: Applied P & Ch Laboratories
Project: JPL, #3484
Lab Order: 063531

Lab ID: 063531-019 **Collection Date:** 5/29/2003 12:20:00 PM
Client Sample ID: MW-7 **Matrix:** WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030702B	QC Batch: R28957			PrepDate:		Analyst: **NS**
Chromium	4.9	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-020 **Collection Date:** 5/29/2003 1:15:00 PM
Client Sample ID: MW-15 **Matrix:** WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	3.9	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-021 **Collection Date:** 5/30/2003 7:35:00 AM
Client Sample ID: MW-10 **Matrix:** WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030702A	QC Batch: R28956			PrepDate:		Analyst: **NS**
Chromium	8.1	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceding holding time

Results are wet unless othewise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Date: *03-Jul-03*

CLIENT: Applied P & Ch Laboratories
Project: JPL, #3484
Lab Order: 063531

Lab ID: 063531-022
Client Sample ID: MW-1
Collection Date: 5/30/2003 9:50:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030702B	QC Batch: R28957			PrepDate:		Analyst: **NS**
Chromium	2.4	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Lab ID: 063531-023
Client Sample ID: MW-9
Collection Date: 5/30/2003 11:50:00 AM
Matrix: WATER

Analyte	Result	PQL	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
			EPA 200.8			
RunID: ICP4_030702B	QC Batch: R28957			PrepDate:		Analyst: **NS**
Chromium	4.3	1.0		µg/L	1	7/2/2003
Lead	ND	1.0		µg/L	1	7/2/2003

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H-Sample exceding holding time

Results are wet unless othewise specified

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 063531

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: N/A
Digestion Method: N/A

Dilution Factor: 1
Matrix: Water
Date Analyzed: 07/02/2003

QC Batch Number: R28956

Analyte	DLR	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C
Chromium	1	0.208		0.132		0.042		0.086		0.104	
Lead	1	0.009		0.022		0.020		0.045		-0.001	

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 063531

(EPA 200.8) BLANK *

Instrument ID: ICP 4
Date Digested: N/A
Digestion Method: N/A

Dilution Factor: 1
Matrix: Water
Date Analyzed: 07/02/2003

QC Batch Number: R28957

Analyte	DLR	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L) 1	C	2	C	3	C	Prepa-ration Blank	C
Chromium	1	0.208		0.086		0.062				-0.129	
Lead	1	0.009		0.045		0.036				0.057	

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Advanced Technology Laboratories

Date: *03-Jul-03*

CLIENT: Applied P & Ch Laboratories
Work Order: 063531
Project: JPL, #3484

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **MB-R28956** SampType: **MBLK** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702A**
Client ID: **ZZZZZ** Batch ID: **R28956** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436380**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									
Lead	ND	1.0									

Sample ID: **MB-R28957** SampType: **MBLK** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702B**
Client ID: **ZZZZZ** Batch ID: **R28957** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436387**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	1.0									
Lead	ND	1.0									

Sample ID: **LCS-R28956** SampType: **LCS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702A**
Client ID: **ZZZZZ** Batch ID: **R28956** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436379**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10.45	1.0	10	0	104	85	115	0	0		
Lead	10.07	1.0	10	0	101	85	115	0	0		

Sample ID: **LCS-R28957** SampType: **LCS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702B**
Client ID: **ZZZZZ** Batch ID: **R28957** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436386**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	10	1.0	10	0	100	85	115	0	0		
Lead	10.34	1.0	10	0	103	85	115	0	0		

Sample ID: **063531-005AMS** SampType: **MS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702A**
Client ID: **MW-22-1** Batch ID: **R28956** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436360**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

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CLIENT: Applied P & Ch Laboratories
Work Order: 063531
Project: JPL, #3484

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **063531-005AMS** SampType: **MS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702A**
Client ID: **MW-22-1** Batch ID: **R28956** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436360**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.387	1.0	10	1.886	75	80	120	0	0		S
Lead	9.478	1.0	10	0	94.8	80	120	0	0		

Sample ID: **063531-018AMS** SampType: **MS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702A**
Client ID: **MW-6** Batch ID: **R28956** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436375**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	14.83	1.0	10	7.127	77	80	120	0	0		S
Lead	9.566	1.0	10	0	95.7	80	120	0	0		

Sample ID: **063531-019AMS** SampType: **MS** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702B**
Client ID: **MW-7** Batch ID: **R28957** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436382**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	13.39	1.0	10	4.868	85.2	80	120	0	0		
Lead	9.939	1.0	10	0	99.4	80	120	0	0		

Sample ID: **063531-005AMSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702A**
Client ID: **MW-22-1** Batch ID: **R28956** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436361**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	9.279	1.0	10	1.886	73.9	80	120	9.387	1.16	20	S
Lead	9.557	1.0	10	0	95.6	80	120	9.478	0.830	20	

Sample ID: **063531-018AMSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702A**
Client ID: **MW-6** Batch ID: **R28956** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436376**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	14.95	1.0	10	7.127	78.3	80	120	14.83	0.839	20	S

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

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CLIENT: Applied P & Ch Laboratories
Work Order: 063531
Project: JPL, #3484

ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8_W

Sample ID: **063531-018AMSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702A**
Client ID: **MW-6** Batch ID: **R28956** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436376**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Lead	9.484	1.0	10	0	94.8	80	120	9.566	0.861	20	

Sample ID: **063531-019AMSD** SampType: **MSD** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702B**
Client ID: **MW-7** Batch ID: **R28957** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436383**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	13.45	1.0	10	4.868	85.8	80	120	13.39	0.432	20	
Lead	9.767	1.0	10	0	97.7	80	120	9.939	1.75	20	

Sample ID: **063531-005ADUP** SampType: **DUP** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702A**
Client ID: **MW-22-1** Batch ID: **R28956** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436388**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	1.802	1.0	0	0	0	0	0	1.886	4.56	30	
Lead	ND	1.0	0	0	0	0	0	0	0	30	

Sample ID: **063531-018ADUP** SampType: **DUP** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702A**
Client ID: **MW-6** Batch ID: **R28956** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436389**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	7.198	1.0	0	0	0	0	0	7.127	0.991	30	
Lead	ND	1.0	0	0	0	0	0	0	0	30	

Sample ID: **063531-019ADUP** SampType: **DUP** TestCode: **200.8_W** Units: **µg/L** Prep Date: Run ID: **ICP4_030702B**
Client ID: **MW-7** Batch ID: **R28957** TestNo: **EPA 200.8** Analysis Date: **7/2/2003** SeqNo: **436406**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	4.852	1.0	0	0	0	0	0	4.868	0.329	30	
Lead	ND	1.0	0	0	0	0	0	0	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
S - Spike Recovery outside accepted recovery limits
B - Analyte detected in the associated Method Blank
Calculations are based on raw values
DO- Surrogate dilute out
H - Sample exceeded holding time

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Advanced Technology Laboratories

Date: 03-Jul-03

Test Code: 200.8_W
Test Number: EPA 200.8
Test Name: ICPMS METALS
Matrix: Aqueous **Units:** µg/L

METHOD DETECTION / REPORTING LIMITS

Updated: 13-Feb-03

Type	Analyte	MDL	PQL
A	Aluminum	1.66	10
A	Antimony	0.0309	0.5
A	Arsenic	0.0309	1
A	Barium	0.0638	1
A	Beryllium	0.0349	0.5
A	Cadmium	0.0319	0.5
A	Calcium	10.5	50
A	Chromium	0.111	0.5
A	Cobalt	0.0353	0.5
A	Copper	0.0785	1
A	Iron	4.73	10
A	Lead	0.134	1
A	Magnesium	7.09	50
A	Manganese	0.216	1
A	Mercury	0.467	1
A	Molybdenum	0.0409	0.5
A	Nickel	0.0711	1
A	Potassium	8.66	50
A	Selenium	0.188	0.5
A	Silver	0.0377	0.5
A	Sodium	9.70	50
A	Thallium	0.0304	0.5
A	Tin	5.00	10
A	Vanadium	0.0606	1
A	Zinc	3.34	10

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Method 200.8

Sample/Batch Report

User Name: Nancy
Computer Name: ICPMS PE 6100
Sample File: D:\ELAN\Sample\2003\July\030702.sam
Report Date/Time: Wednesday, July 02, 2003 10:16:40

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							
10		LCS > R28956 NS 7/2/03							
11		063531-001A							
12		063531-002A							
13		063531-003A							
14		063531-004A							
15		063531-005A							
16		063531-005ADUP							
17		063531-005AMS							
18		063531-005AMSD							
7		CCV							
8		CCB							
19		063531-006A							
20		063531-007A							
21		063531-008A							
22		063531-009A							
23		063531-010A							
24		063531-011A							
25		063531-012A							
26		063531-013A							
27		063531-014A							
28		063531-015A							
7		CCV							
8		CCB							
29		063531-016A							
30		063531-017A							
31		063531-018A							
32		063531-018ADUP							
33		063531-018AMS							
34		063531-018AMSD							
35		063531-020A							
36		063531-021A							
37		MB- > R28957							
38		LCS-							
7		CCV							
8		CCB							
39		063531-019A							
40		063531-019ADUP							
41		063531-019AMS							
42		063531-019AMSD							
43		063531-022A							
44		063531-023A							
7		CCV							
8		CCB							

CAL: MST030702 B/20
C/10
D/5
E/0.5

ICU/CCU: MST030702 G

LCS: MST030702 F

M/MSD: MST030702 A

ICP4
NS, 7/2/03

021

QC Number: R28956

ICP-MS : Turbidity Check and Sample Preparation Log

Date Read / Digested: 7/2/03

Method (Circle one):	Turb. Calibration	Matrix (Circle one):		Acid Lot #
1) 200.8	100 NTU: 10NTU	1) Drinking Water	4) Soil	Hydrochloric N/A
2) 3010A	Std Code: SCR-0022	2) Ground Water	5) Solid	Nitric N/A
3) 3050B	Initials: NS	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 63531-005A/018A	0.09/0.05	10	0.10ml	1ppm	1ST030702A	10	NS	
	MSD 63531-005A/018A	↓	↓	↓	↓	↓	↓	↓	
	Method Blank	–	↓	–	–	–	↓	↓	
	LCS	–	↓	0.10ml	1ppm	1ST030702F	↓	↓	
	Blank MS								
	Blank MSD								
1	63531-001A	0.12	10				10	NS	
2	-002	0.09	↓				↓	↓	
3	-003	0.12	↓				↓	↓	
4	-004	0.15	↓				↓	↓	
5	-005	0.07	↓				↓	↓	
6	-006	0.06	↓				↓	↓	
7	-007	0.32	↓				↓	↓	
8	-008	0.16	↓				↓	↓	
9	-009	0.04	↓				↓	↓	
10	-010	0.10	↓				↓	↓	
11	-011	0.26	↓				↓	↓	
12	-012	0.03	↓				↓	↓	
13	-013	0.10	↓				↓	↓	
14	-014	0.08	↓				↓	↓	
15	-015	0.06	↓				↓	↓	
16	-016	0.10	↓				↓	↓	
17	-017	0.18	↓				↓	↓	
18	-018	0.05	↓				↓	↓	
19	-020	0.05	↓				↓	↓	
20	-021	0.07	↓				↓	↓	
DUP	63531-005A / -018A	0.09 / 0.06	↓				↓	↓	

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

Advanced Technology Laboratories, Logbook # 6

ICP-MS : Turbidity Check and Sample Preparation Log

QC Number: R28957

Date Read / Digested: 7/2/03

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-0022	2) Ground Water	5) Solid	Nitric N/A
3) 3050B	Initials: NS	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 63531-019A	0.13	10	0.10 ml	1 ppm	MS030702A	10	NS	
MSD "	"	"	"	"	"	"	"	
Method Blank	—	"	—	—	—	"	"	
LCS	—	"	0.10 ml	1 ppm	MS030702F	"	"	
Blank MS								
Blank MSD								
1 63531-019A	0.13	10				10	NS	
2 " -022A	0.03	"				"	"	
3 " -023A	0.36	"				"	"	
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
DUP 63531-019A	0.05	10				10	NS	

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

Advanced Technology Laboratories, Logbook # 6

Instrument Tuning Report

File Name: 030702.tun
File Path: D:\ELAN\TUNING\2003\July

Analyte	Exact Mass	Meas. Mass	Mass DAC	Res. DAC	Meas. Pk. Width	Custom Res.
Be	9.012	9.026	2048	2040	0.751	
Mg	23.985	23.979	5694	2020	0.752	
Rh	102.905	102.928	24980	1955	0.780	
Ce	139.905	139.929	33967	2010	0.806	
Pb	207.977	207.979	50417	2270	0.789	
U	238.050	238.026	57615	2435	0.801	

024

Daily Performance Report

Sample ID: 030702-daily
Sample Date/Time: Wednesday, July 02, 2003 09:44:44
Sample Description:
Method File: c:\elandata\Method\Daily.mth
Dataset File: d:\elan\daily performance\2003\july\030702-daily.010
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	55618.4	55618.364	1172.464	2.1
	Rh	102.9	166374.5	166374.488	3189.923	1.9
	In	114.9	203541.6	203541.642	5208.013	2.6
	Pb	208.0	85889.6	85889.589	1902.495	2.2
⌈>	Ba	137.9	170809.5	170809.526	3060.149	1.8
⌊	Ba++	69.0	4493.4	0.026	0.000	1.2
⌈>	Ce	139.9	208749.5	208749.484	4302.774	2.1
⌊	CeO	155.9	5892.4	0.028	0.000	1.1
	Bkgd	220.0	3.2	3.233	0.480	14.9

Current Optimization File Data

Current Value	Description
0.86	Nebulizer Gas Flow
7.00	Lens Voltage
1100.00	ICP RF Power
-1875.00	Analog Stage Voltage
1775.00	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	5	5.5	5694.8
Co	59	5	6.0	101332.1
In	115	5	6.5	250316.0

025

ATL Number: 063531

(EPA 200.8) - INITIAL CALIBRATION

Instrument ID: ICP4

Date(s) Analyzed: 07/02/03

Initial Calibration:

		INTENSITY			
ANALYTE	LEVEL I	LEVEL II	LEVEL III	LEVEL IV	r2
CHROMIUM	20665.000	57905	99283	179085.000	0.999905
LEAD	2471.000	1855	35355	69441.000	0.999854

Standard Concentration:	0.5 ppb	5 ppb	10 ppb	20 ppb
Standard ID:	MST030702E	MST030702D	MST030702C	MST030702B

Calibration Acceptance Criteria: > 0.995 Correlation

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ATL Number: 063531

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

Instrument ID: ICP4

Date Analyzed: 07/02/2003

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS.	MST030702G
Continuing Calibration Verification:	LEEMAN LABS	MST030702G

QC BATCH NO.: R28956

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV1	Continuing Calibration %R(1)	Continuing Calibration Found CCV2	Continuing Calibration %R(1)	
Chromium	10.0	10.263	103	10.0	9.839	98	9.662	97	
Lead	10.0	9.933	99	10.0	10.331	103	10.312	103	

ICV Limits: 90 -110%

CCV Limits: 85 -115%

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ATL Number: 063531

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERFICATION

(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 07/02/2003

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS.	MST030702G
Continuing Calibration Verification:	LEEMAN LABS	MST030702G

QC BATCH NO. R28956

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV3	Continuing Calibration %R(1)	Found CCV4	%R(1)	
Chromium	10.0	10.263	103	10.0	9.937	99			
Lead	10.0	9.9330	99	10.0	10.360	104			

ICV Limits: 90 -110%

CCV Limits: 85 -115%

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ATL Number: 063531

(EPA 200.8) INITIAL AND CONTINUING CALIBRATION VERFICATION

(EXTERNAL REFERENCE STANDARD)

Instrument ID: ICP4

Date Analyzed: 07/02/2003

	Source:	Standard Code:
Initial Calibration Verification:	LEEMAN LABS.	MST030702G
Continuing Calibration Verification:	LEEMAN LABS	MST030702G

QC BATCH NO. R28957

Concentration Units: ug/L

Analyte	Initial Calibration True	Initial Calibration Found	Initial Calibration %R(1)	Continuing Calibration True	Continuing Calibration Found CCV1	Continuing Calibration %R(1)	Continuing Calibration Found CCV2	Continuing Calibration %R(1)	
Chromium	10.0	10.263	103	10.0	9.937	99	9.960	100	
Lead	10.0	9.9330	99	10.0	10.360	104	10.389	104	

ICV Limits: 90 -110%

CCV Limits: 85 -115%

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 063531

Instrument ID: ICP4 Internal Standard ID: MST030606A

Date Analyzed: 07/02/2003 Standard Concentration: 10 mg/L

QC Batch: R28956

		Lithium		Sc		Ge		In		Terbium	
		Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec
Calibration Blank			---	656991	---		---		---	1097775	---
Lab ID	Sample Description										
MB-R28956	MB-R28956			653261	99					1090166	99
LCS-R28956	LCS-R28956			653297	99					1116668	102
063531-001A				772876	118					1121588	102
063531-002A				814689	124					1135475	103
063531-003A				794350	121					1132817	103
063531-004A				802364	122					1114564	102
063531-005A				777776	118					1092177	99
063531-005ADUP				757127	115					1078105	98
063531-005AMS				735575	112					1062831	97
063531-005AMSD				736738	112					1066796	97
063531-006A				608934	93					1040453	95
063531-007A				684289	104					1064138	97
063531-008A				705184	107					1069813	97
063531-009A				705238	107					1083626	99
063531-010A				694687	106					1070070	97
063531-011A				744428	113					1084138	99
063531-012A				631492	96					1073158	98
063531-013A				714560	109					1095447	100
063531-014A				773195	118					1082737	99
063531-015A				761248	116					1081807	99
063531-016A				709869	108					1082664	99

* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 063531

Instrument ID: ICP4 Internal Standard ID: MST030606A

Date Analyzed: 07/02/2003 Standard Concentration: 10 mg/L

QC Batch: R28956

		Lithium		Sc		Ge		In		Terbium	
		Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec
Calibration Blank			---	656991	---		---		---	1097775	---
Lab ID	Sample Description										
063531-017A				718771	109					1087200	99
063531-018A				775354	118					1094198	100
063531-018ADUP				793818	121					1133247	103
063531-018AMS				791493	120					1139305	104
063531-018AMSD				801966	122					1151446	105
063531-020A				741578	113					1146947	104
063531-021A				768963	117					1143779	104

* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

ATL Number: 063531

Instrument ID: ICP4 Internal Standard ID: MST030606A

Date Analyzed: 07/02/2003 Standard Concentration: 10 mg/L

QC Batch: R28957

		Lithium		Sc		Ge		In		Terbium	
		Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec	Intensity	% Rec
Calibration Blank			---	656991	---		---		---	1097775	---
Lab ID	Sample Description										
MB-R28957	MB-R28957			632244	96					1130678	103
LCS-R28957	LCS-R28957			637515	97					1128138	103
063531-019A				772853	118					1175835	107
063531-019ADUP				778643	119					1210032	110
063531-019AMS				799773	122					1229732	112
063531-019AMSD				788329	120					1197717	109
063531-022A				779234	119					1205710	110
063531-023A				802173	122					1208464	110

* Outside Acceptance Criteria

Acceptance Criteria: 60 - 125%

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

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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
4-18-03	ICPMS - Internal Std	MST030418 A	MST030217D Sc	1000 ppm	1 ml
			E In		
			F Tm		
4-18-03	ICPMS - Tuning Stock Sol'n.	MST030418B	MST-010523E Mg	1000 ppm	0.5 ml
			MST-030414H Cu		
			MST030217J Rh		
			MST030414E Cd		
			MST030414C Ba		
			MST030217G Ce		
			MST030414P Pb		
			MST030414D Be		
			MST030414G Co		
			MST030217H Tl		
			MST030217I U		
			MST030217E In		
4-21-03	ICPMS - 10 ppb Tuning Sol'n.	MST030421A	MST030418B	1 ppm	10 ml
4-22-03	ICPMS - STD 1	MST030422A	MST030402A MST030402B	10 ppm 1000 ppm	5 ml 0.05
	- 20	B	MST030422	1 ppm	1 ml
	- 10	C		20 ppb	25
	- 5	D		10 ppb	25

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Page ~~22~~ 23 A 8/21/03

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
1	100 ml	10 ppm	DI H_2O + 2% HNO_3	7-17-03	High Purity		NS
	↓	↓	↓	↓	↓		↓
	↓	↓	↓	↓	↓		↓
	500 ml	1 ppm	DI H_2O + 2% HNO_3	7-17-03	Ultra Scientific		NS
5	↓	↓	↓	↓	High Purity		↓
10							
	↓	↓	↓	↓	↓		↓
15	1000 ml	10 ppb	DI H_2O + 2% HNO_3	7-20-03	Ultra Scientific/High Purity		NS
	50	1 ppm	DI H_2O + 2% HNO_3	7-21-03	Leeman		NS
	↓	20 ppb	↓	↓	↓		↓
		10 ppb					
20		5 ppb					

* Check working std versus all manufacturer's

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Metals Working Standard Prep Log

Date	Standard Name	Working Std Code	Stock Std Code	Stock Concentration	Amount Taken from Stock
			Stock Info	Preparation	
06-09-03	ICPMS - 50	MST030609 I	MST030609 H	100ppb	25
	" - 10	" J	" I	50 ppb	10
	ICPMS - IW/CW @ 50	" K	MST030609 F	1 ppm	2.5
06-10-03	ICPM - STD1	MST030610A	MST030402A	10 ppm	5
	" - 10	" B	MST030610 A	1 ppm	0.5
	ICPM - LCS1	" C	MST021216D	10 ppm	5
	" - IW/CW @ 10	" D	MST030610C	1 ppm	0.5
~~6-12-03~~	~~ICPMS - 10ppb Tuning Soln.~~	~~MST030612G~~	~~MST-030418B~~	~~1 ppm~~	~~5~~
6-13-03	ICPM - STD1	MST030613 G	MST030402A MST030402B	10 ppm 1000 ppm	5 0.05
	" - 20	" H	MST030613G	1 ppm	1
	" - 10	" I	" H	20 ppb	25
	" - 5	" J	" I	10 ppb	25
	" - 0.5	" K	" J	5 ppb	5
	ICPM - LCS1	" L	MST021216D MST021216B	10 ppm 1000 ppm	5 0.05
	" - IW/CW @ 10	" M	MST030613 L	1 ppm	0.5
6-24-03	ICPMS - STD1	MST030624 A	MST030402A	10 ppm	5
	" - 20	" B	MST030624 A	1 ppm	1
	" - 10	" C	" B	20 ppb	25
	" - 5	" D	" C	10 ppb	25
	" - 0.5	" E	" D	5 ppb	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	50ppb	DI H_2O + 2% HNO_3	09-07-03	Leeman		NS
		10ppb					
		50ppb			Leeman		
	50	1ppm	DI H_2O + 2% HNO_3	09-08-03	Leeman	Al	NS
5		10ppb					
		1ppm			Leeman		
		10ppb					
	~~500~~	~~10ppb~~	~~DI H_2O + 2% HNO_3~~	~~09-10-03~~	~~Ultra Scientific High Purity~~		~~NS~~
	50	1ppm	DI H_2O + 2% HNO_3	09-11-03	Leeman		NS
10		20ppb					
		10ppb					
		5ppb					
		0.5ppb					
		1ppm			Leeman		
15		10ppb					
	50	1ppm	DI H_2O + 2% HNO_3	09-22-03	Leeman		NS
		20ppb				Cu	
		10ppb					
		5ppb					
20		0.5ppb					

*Check working std versus all manufacturer's

Metals Working Standard Prep Log

Date	Standard Name	Working Std Code	Stock Info: Stock Std Code	Preparation: Stock Concentration	Preparation: Amount Taken from Stock
06-05-03	ICPM - 10	MST030605 C	MST030605 B	20 ppb	25
	- 5	D	C	10 ppb	25
	- 0.5	E	D	5 ppb	5
	ICPM - LCS,	F	MST021216 D MST021216 B	10 ppm 1000 ppm	5 0.05
	- ICV/CCV @10	G	~~MS~~ MS 1-(-03) MST030605	1 ppm	0.5
~~06-06-03~~	~~ICPMS - Internal Std.~~	~~MST030606A~~	~~MST030297A~~ h	~~1000 ppm~~	~~1 ml~~
			B Ge		
			C Tb		
			D Sc		
			E In		
			F Tm		
06-05-03	Ag - MS/MSD /10 ppm	MSP030605 A	MSP030414R	1000 ppm	0.5
06-09-03	ICPMS - STD,	MST030609 A	MST030402A MST030402B ~~MST030409A~~	10 ppm 1000 ppm 10 ppm	5 0.05 5
	- 20	B	MST030609 A	1 ppm	1
	- 10	C	B	20 ppb	25
	- 5	D	C	10 ppb	25
	- 0.5	E	D	5 ppb	5
	ICPM - LCS,	F	MST021216 D MST021216 B MST030407B	10 ppm 1000 ppm 10 ppm	5 0.05 5
	- ICV/CCV @ 10	G	MST030609 F	1 ppm	0.5
	ICPM - 100	H	MST030609 A	1 ppm	5

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
1	50	10ppb	DI H_2O + 2% HNO_3	09-03-03	Leeman		NJ
		5ppb					
		0.5ppb					
		1ppm			Leeman		
5		10ppb					
	100	10ppm	DI H_2O + 2% HNO_3	09-04-03	High Purity		NJ
10							
	~~50~~ 100 NJ	10ppm	DI H_2O + 2% HNO_3	~~09-04-03~~ ~~09-03-03~~	~~Leeman~~ High Purity	NJ 6-6-03	NJ
	50	10ppm	DI H_2O + 2% HNO_3	09-03-03 ~~09-07-03~~	Leeman ~~High Purity~~	NJ 6-11-03	NJ
	50	10ppm ~~20ppb~~	DI H_2O + 2% HNO_3	09-07-03	Leeman High Purity		
	NJ 6-9-03	20 10ppb					
15		10 ~~5~~ ppb					
		5 ~~0.5~~ ppb					
		0.5 ppb ~~1ppm~~					
		1 ppm ~~10ppb~~			Leeman + Science		
		10 ppb					
20		100 ppb			Leeman High Purity		

* 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 Std Code	Stock Concentration	Amount Taken from Stock
			Stock Info	**Preparation**	
6-24-03	ICPMS - LCS,	MST030624F	MST021216D	10 ppm	5
↓	↓ - ICV/CCV @ 10	↓ G	MST030624F	1 ppm	0.5
06-25-03	ICPMS - STD,	MST030625A	MST030402A MST030402B MST030407B A NS	10 ppm 1000 ppm 10 ppm	5 0.05 5
	- 400	~~A~~ B NS	MST030625 A	1 ppm	20
	- 200	C	B	400 ppb	25
	- 50	D	C	200 ppb	12.5
	ICPMS - LCS,	E	MST021216 D MST021216 B MST030407B	10 ppm 1000 ppm 10 ppm	5 0.05
	↓ - ICV/CCV @ 200	F	MST030625 E	1 ppm	10
6-26-03	ICPMS - STD,	MST030626 A	MST030402A MST030402B	10 ppm 1000 ppm	5 0.05
	- 20	B	MST030626 A	1 ppm	1
	- 10	C	B	20 ppb	25
	- 5	D	C	10 ppb	25
	- 0.5	E	D	5 ppb	5
	ICPM - LCS,	F	MST021216D MST021216B	10 ppm 1000 ppm	5 0.05
↓	↓ - ICV/CCV @ 10	G	MST030626 F	1 ppm	0.5
7-2-03	ICPMS - STD,	MST030702 A	MST030402B MST030402A	1000 ppm 10 ppm	0.05 5
	- 20	B	MST030702 A	1 ppm	1
	- 10	C	B	20 ppb	25
	- 5	D	C	10 ppb	25
	- 0.5	E	D	5 ppb	5

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
1	50	1ppm	DI H_2O + 2% HNO_3	09-22-03	leeman		NJ
	↓	10ppb	↓	↓	↓		↓
	50	1ppm	DI H_2O + 2% HNO_3	09-23-03	leeman high purity		NJ
	↓	400ppb	↓	↓	↓		↓
		200ppb					
5		50ppb					
		1ppm			leeman ultra-pure high		
	↓	200ppb	↓	↓	↓		↓
	50	1ppm	DI H_2O + 2% HNO_3	9-24-03	leeman		NJ
	↓	20ppb	↓	↓	↓		↓
10		10ppb					
		5ppb					
		0.5ppb			↓		
		1ppm			leeman		
	↓	10ppb	↓	↓	↓		↓
15	50	1ppm	DI H_2O + 2% HNO_3	9-30-03	leeman		NJ
	↓	20ppb	↓	↓	↓		↓
		10ppb					
		5ppb					
	↓	0.5ppb	↓	↓	↓		↓

* Check working std versus all manufacturer's

Metals Working Standard Prep Log

			Stock Info	Preparation	
Date	Standard Name	Working Std Code	Stock Std Code	Stock Concentration	Amount Taken from Stock
7-2-03	I [redacted]	MST030702F	MST021216D MST021216B	10 ppm 1000 ppm	5 0.05
1	([redacted] @ 10	1 G	MST030702F	1 ppm	0.5

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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
1	50	1 ppm	DI H2O + 2% HNO3	9-30-03	Leeman		RM
	⊥	10 ppb	⊥	⊥	⊥		⊥
5							
10							
15							
20							

* Check working std versus all manufacturer's

Advanced Technology Laboratories
Logbook 3 Page: 338 of 100

ELAN Instrument Control Session

Date Only Method - c:\elandata\Method\ATL-TUNING250.mth

Calibration

35

1

6

	5	10	Scanning	20	20
	22	26	Scanning	20	20
	102	104	Scanning	20	20
	139	141	Scanning	20	20
	206	209	Scanning	20	20

Tuning - D:\ELAN\TUNING\2003\July\030702.tun

1

2040

Be	9.0122	9.026	2048	2040	0.751
Mg	23.985	23.9785	5694	2020	0.752
Rh	102.905	102.928	24980	1955	0.780
Ce	139.905	139.929	33967	2010	0.806
Pb	207.977	207.979	50417	2270	0.789
U	238.05	238.026	57615	2435	0.801

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:19:08
Dataset File: D:\ELAN\Dataset\2003\July\030702\Blank.001
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
>	**Sc-1**	45		656991	0.3			ug/L	%
	Cr	52		15120	2.6			ug/L	%
	Cr	53		93861	3.3			ug/L	%
>	**Tb**	159		1097775	1.8			ug/L	%
	Pb	207		225	2.5			ug/L	%
	Pb	208		1083	2.7			ug/L	%

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:21:26
Dataset File: D:\ELAN\Dataset\2003\July\030702\Standard 1.002
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	662428	0.8			ug/L	%
|	**Cr**	52	15120	20665	2.1	**0.500**	0.031	ug/L	6.1 %
⌊	**Cr**	53	93861	104422	1.6	**0.500**	0.061	ug/L	12.1 %
⌈>	**Tb**	159	1097775	1096944	0.9			ug/L	%
|	**Pb**	207	225	2471	0.8	**0.500**	0.003	ug/L	0.6 %
⌊	**Pb**	208	1083	11511	1.0	**0.500**	0.005	ug/L	1.0 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:23:59
Dataset File: D:\ELAN\Dataset\2003\July\030702\Standard 2.003
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	662923	0.4			ug/L	%
|	**Cr**	52	15120	57905	1.2	**4.987**	0.104	ug/L	2.1 %
⌊	**Cr**	53	93861	112003	1.7	**4.780**	0.640	ug/L	13.4 %
⌈>	**Tb**	159	1097775	1110084	0.6			ug/L	%
|	**Pb**	207	225	18555	1.0	**4.988**	0.033	ug/L	0.7 %
⌊	**Pb**	208	1083	85731	0.2	**4.988**	0.017	ug/L	0.4 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:26:34
Dataset File: D:\ELAN\Dataset\2003\July\030702\Standard 3.004
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: Standard 3
Sample Type:

Summary

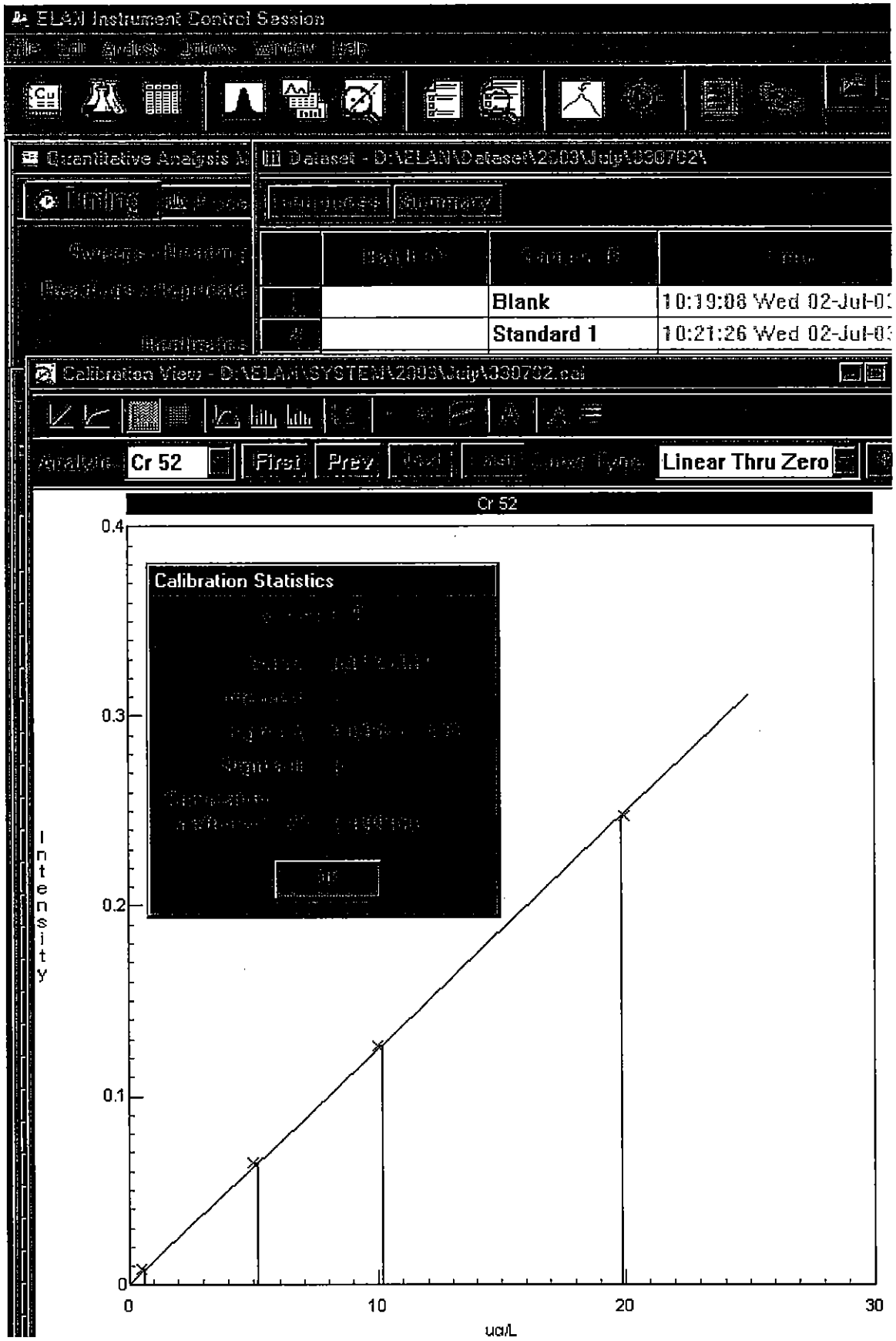
	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	663011	1.0			ug/L	%
|	**Cr**	52	15120	99283	1.0	**9.964**	0.045	ug/L	0.4 %
⌊	**Cr**	53	93861	118596	2.2	**9.060**	1.349	ug/L	14.9 %
⌈>	**Tb**	159	1097775	1119471	0.6			ug/L	%
|	**Pb**	207	225	35355	1.1	**9.891**	0.112	ug/L	1.1 %
⌊	**Pb**	208	1083	164573	0.9	**9.906**	0.035	ug/L	0.4 %

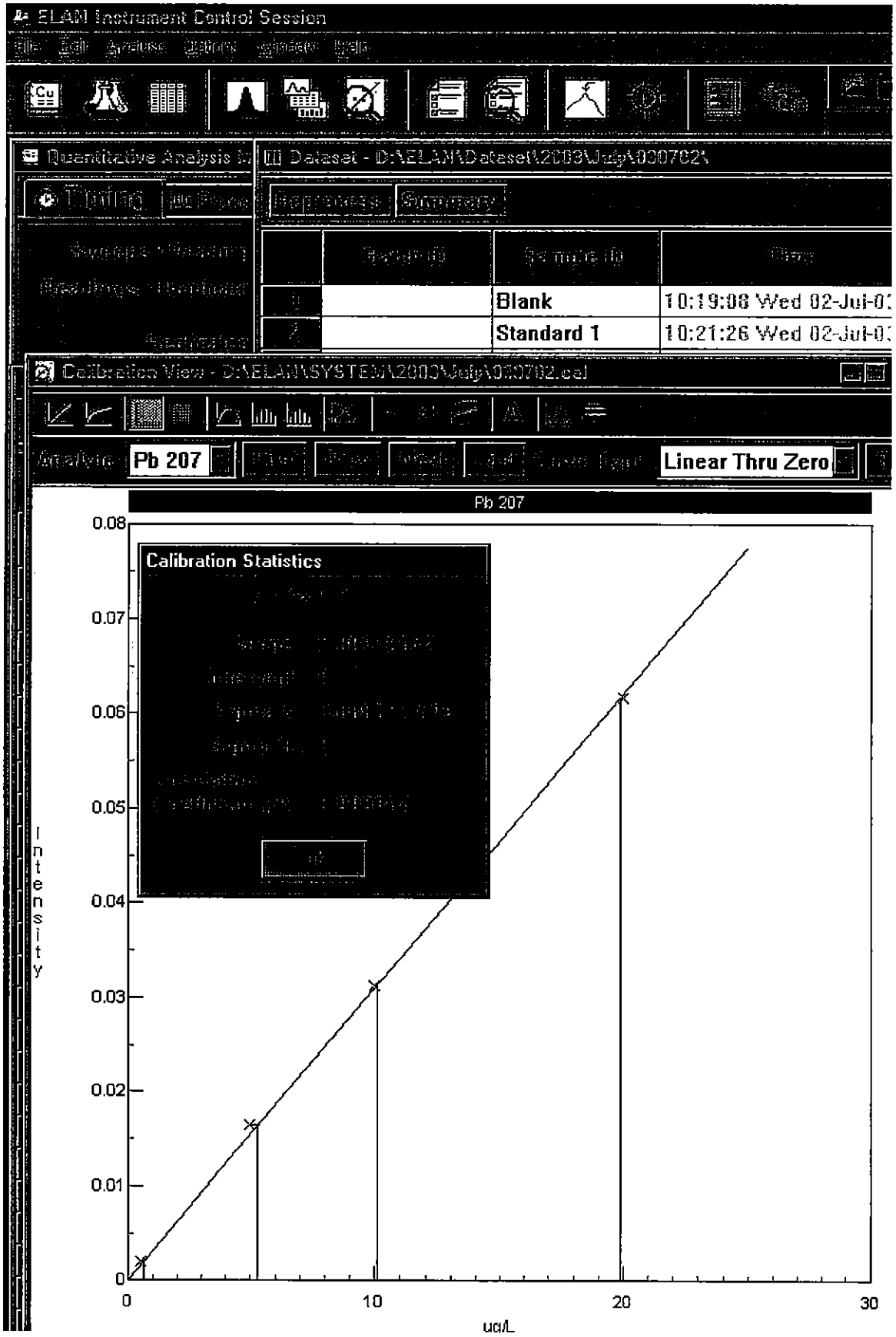
Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:29:09
Dataset File: D:\ELAN\Dataset\2003\July\030702\Standard 4.005
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	662070	1.1			ug/L	%
|	**Cr**	52	15120	179085	0.9	**19.868**	0.155	ug/L	0.8 %
⌊	**Cr**	53	93861	130290	1.7	**17.963**	0.377	ug/L	2.1 %
⌈>	**Tb**	159	1097775	1121797	0.2			ug/L	%
|	**Pb**	207	225	69441	1.8	**19.866**	0.362	ug/L	1.8 %
⌊	**Pb**	208	1083	322753	1.3	**19.867**	0.264	ug/L	1.3 %


ELAN Instrument Control Session
Quantitative Analysis
Dataset - D:\ELAN\Dataset\2003\July\030702\
Summary
Blank
10:19:08 Wed 02-Jul-0
Standard 1
10:21:26 Wed 02-Jul-0
Calibration View - D:\ELAN\SYSTEM\2003\July\030702.cal
Cr 52
First
Prev
Linear Thru Zero
Cr 52
Calibration Statistics
Intensity
0.4
0.3
0.2
0.1
0
0
10
20
30
ug/L


ELAN Instrument Control Session
Quantitative Analysis
Dataset - D:\ELAN\Dataset\2003\July\030702\
Blank
10:19:08 Wed 02-Jul-0
Standard 1
10:21:26 Wed 02-Jul-0
Calibration View - D:\ELAN\SYSTEM\2003\July\030702.cal
Analyte
Pb 207
Linear Thru Zero
Pb 207
Calibration Statistics
Intensity
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
10
20
30
ug/L

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:31:46
Dataset File: D:\ELAN\Dataset\2003\July\030702\ICV.006
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
>	**Sc-1**	45	656991	658471	0.9			ug/L	%
	Cr	52	15120	99325	0.3	**10.263**	0.138	ug/L	1.3 %
	Cr	53	93861	121127	1.6	**13.687**	0.747	ug/L	5.5 %
>	**Tb**	159	1097775	1110589	0.9			ug/L	%
	Pb	207	225	34490	2.1	**9.933**	0.186	ug/L	1.9 %
	Pb	208	1083	161500	1.5	**10.008**	0.184	ug/L	1.8 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:34:06
Dataset File: D:\ELAN\Dataset\2003\July\030702\ICB.007
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	657022	0.6			ug/L	%
|	**Cr**	52	15120	16822	0.4	**0.208**	0.020	ug/L	9.5 %
⌊	**Cr**	53	93861	113456	1.2	**9.937**	1.001	ug/L	10.1 %
⌈>	**Tb**	159	1097775	1118639	0.7			ug/L	%
|	**Pb**	207	225	260	4.7	**0.009**	0.004	ug/L	45.9 %
⌊	**Pb**	208	1083	1215	1.3	**0.007**	0.001	ug/L	20.0 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:45:06
Dataset File: D:\ELAN\Dataset\2003\July\030702\MB.008
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: MB - 128956 RS 7/2/03
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	653261	0.5			ug/L	%
|	**Cr**	52	15120	15883	1.5	**0.104**	0.024	ug/L	23.4 %
⌊	**Cr**	53	93861	102259	2.7	**4.554**	1.364	ug/L	30.0 %
⌈>	**Tb**	159	1097775	1090166	1.8			ug/L	%
|	**Pb**	207	225	219	6.3	**-0.001**	0.005	ug/L	370.7 %
⌊	**Pb**	208	1083	1020	2.6	**-0.004**	0.003	ug/L	77.4 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:47:48
Dataset File: D:\ELAN\Dataset\2003\July\030702\LCS.009
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: LCS - L28956 NS 7/2/03
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
[>	**Sc-1**	45	656991	653297	0.4			ug/L	%
|	**Cr**	52	15120	100047	0.7	**10.446**	0.055	ug/L	0.5 %
|	**Cr**	53	93861	124328	1.4	**15.805**	0.799	ug/L	5.1 %
[>	**Tb**	159	1097775	1116668	1.5			ug/L	%
|	**Pb**	207	225	35147	1.2	**10.070**	0.194	ug/L	1.9 %
|	**Pb**	208	1083	161816	0.9	**9.974**	0.207	ug/L	2.1 %

054

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:50:06
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-001A.010
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-001A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	772876	1.0			ug/L	%
|	**Cr**	52	15120	17529	0.6	**-0.027**	0.027	ug/L	101.4 %
⌊	**Cr**	53	93861	17156	4.5	**-40.198**	0.404	ug/L	1.0 %
⌈>	**Tb**	159	1097775	1121588	1.4			ug/L	%
|	**Pb**	207	225	495	4.8	**0.076**	0.005	ug/L	7.2 %
⌊	**Pb**	208	1083	2373	2.4	**0.078**	0.002	ug/L	2.0 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:52:24
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-002A.011
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-002A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	814689	0.6			ug/L	%
|	**Cr**	52	15120	43075	0.5	**2.397**	0.040	ug/L	1.7 %
⌊	**Cr**	53	93861	13651	1.5	**-42.013**	0.112	ug/L	0.3 %
⌈>	**Tb**	159	1097775	1135475	0.7			ug/L	%
|	**Pb**	207	225	459	8.4	**0.064**	0.012	ug/L	18.4 %
⌊	**Pb**	208	1083	2108	3.3	**0.060**	0.005	ug/L	7.6 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:54:42
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-003A.012
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-003A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	794350	0.4			ug/L	%
|	**Cr**	52	15120	26447	0.5	**0.825**	0.008	ug/L	1.0 %
⌊	**Cr**	53	93861	10657	1.1	**-43.126**	0.040	ug/L	0.1 %
⌈>	**Tb**	159	1097775	1132817	0.7			ug/L	%
|	**Pb**	207	225	437	1.5	**0.058**	0.002	ug/L	3.4 %
⌊	**Pb**	208	1083	2065	2.4	**0.058**	0.002	ug/L	4.2 %

157

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:57:01
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-004A.013
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-004A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	802364	0.3			ug/L	%
|	**Cr**	52	15120	24730	1.1	**0.627**	0.035	ug/L	5.5 %
⌊	**Cr**	53	93861	9272	1.4	**-43.745**	0.054	ug/L	0.1 %
⌈>	**Tb**	159	1097775	1114564	1.4			ug/L	%
|	**Pb**	207	225	449	2.2	**0.064**	0.001	ug/L	1.8 %
⌊	**Pb**	208	1083	2044	1.9	**0.059**	0.001	ug/L	2.5 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 10:59:20
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-005A.014
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-005A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
[>	**Sc-1**	45	656991	777776	2.0			ug/L	%
	Cr	52	15120	36170	1.3	**1.886**	0.069	ug/L	3.7 %
	Cr	53	93861	11331	0.8	**-42.740**	0.124	ug/L	0.3 %
[>	**Tb**	159	1097775	1092177	0.1			ug/L	%
	Pb	207	225	610	2.8	**0.114**	0.005	ug/L	4.5 %
	Pb	208	1083	2773	0.8	**0.108**	0.001	ug/L	1.3 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:01:40
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-005ADUP.015
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-005ADUP
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	757127	0.9			ug/L	%
|	**Cr**	52	15120	34414	1.8	**1.802**	0.072	ug/L	4.0 %
⌊	**Cr**	53	93861	11056	0.8	**-42.731**	0.032	ug/L	0.1 %
⌈>	**Tb**	159	1097775	1078105	0.5			ug/L	%
|	**Pb**	207	225	484	8.6	**0.078**	0.012	ug/L	15.2 %
⌊	**Pb**	208	1083	2253	1.7	**0.076**	0.003	ug/L	3.7 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:04:00
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-005AMS.016
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-005AMS
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
>	**Sc-1**	45	656991	735575	0.8			ug/L	%
	Cr	52	15120	102947	1.3	**9.387**	0.056	ug/L	0.6 %
	Cr	53	93861	21103	0.1	**-38.037**	0.078	ug/L	0.2 %
>	**Tb**	159	1097775	1062831	0.3			ug/L	%
	Pb	207	225	31503	1.1	**9.478**	0.073	ug/L	0.8 %
	Pb	208	1083	146823	1.0	**9.503**	0.077	ug/L	0.8 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:06:21
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-005AMSD.017
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-005AMSD
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	736738	0.9			ug/L	%
|	**Cr**	52	15120	102102	0.4	**9.279**	0.147	ug/L	1.6 %
⌊	**Cr**	53	93861	21029	1.1	**-38.087**	0.023	ug/L	0.1 %
⌈>	**Tb**	159	1097775	1066796	1.7			ug/L	%
|	**Pb**	207	225	31884	2.1	**9.557**	0.128	ug/L	1.3 %
⌊	**Pb**	208	1083	147558	1.3	**9.516**	0.041	ug/L	0.4 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:08:43
Dataset File: D:\ELAN\Dataset\2003\July\030702\CCV.018
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	572578	0.8			ug/L	%
|	**Cr**	52	15120	83358	1.9	**9.839**	0.137	ug/L	1.4 %
⌊	**Cr**	53	93861	114698	4.1	**19.129**	2.236	ug/L	11.7 %
⌈>	**Tb**	159	1097775	1023253	1.1			ug/L	%
|	**Pb**	207	225	33038	1.3	**10.331**	0.143	ug/L	1.4 %
⌊	**Pb**	208	1083	154182	1.2	**10.372**	0.124	ug/L	1.2 %

n63

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:11:06
Dataset File: D:\ELAN\Dataset\2003\July\030702\CCB.019
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	577535	1.1			ug/L	%
|	**Cr**	52	15120	14240	0.8	**0.132**	0.023	ug/L	17.8 %
⌊	**Cr**	53	93861	117585	2.6	**20.239**	1.979	ug/L	9.8 %
⌈>	**Tb**	159	1097775	1020193	1.0			ug/L	%
|	**Pb**	207	225	280	4.9	**0.022**	0.004	ug/L	17.6 %
⌊	**Pb**	208	1083	1299	4.3	**0.020**	0.003	ug/L	15.1 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:13:29
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-006A.020
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-006A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
[>	**Sc-1**	45	656991	608934	0.3			ug/L	%
[	**Cr**	52	15120	7498	0.5	**-0.859**	0.007	ug/L	0.9 %
[	**Cr**	53	93861	17249	6.1	**-38.157**	0.604	ug/L	1.6 %
[>	**Tb**	159	1097775	1040453	0.5			ug/L	%
[	**Pb**	207	225	939	4.7	**0.225**	0.013	ug/L	5.7 %
[	**Pb**	208	1083	4438	1.2	**0.227**	0.002	ug/L	0.9 %

065

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:15:50
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-007A.021
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-007A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
[>	**Sc-1**	45	656991	684289	1.5			ug/L	%
	Cr	52	15120	19330	0.1	**0.421**	0.035	ug/L	8.3 %
	Cr	53	93861	10800	2.3	**-42.336**	0.201	ug/L	0.5 %
[>	**Tb**	159	1097775	1064138	2.9			ug/L	%
	Pb	207	225	509	4.9	**0.088**	0.004	ug/L	4.0 %
	Pb	208	1083	2384	4.3	**0.087**	0.004	ug/L	4.3 %

066

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:18:12
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-008A.022
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-008A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	705184	0.2			ug/L	%
|	**Cr**	52	15120	33645	0.7	**1.983**	0.033	ug/L	1.7 %
⌊	**Cr**	53	93861	10182	1.2	**-42.785**	0.066	ug/L	0.2 %
⌈>	**Tb**	159	1097775	1069813	1.1			ug/L	%
|	**Pb**	207	225	687	3.0	**0.141**	0.006	ug/L	4.1 %
⌊	**Pb**	208	1083	3260	1.7	**0.143**	0.002	ug/L	1.4 %

067

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:20:35
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-009A.023
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-009A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	705238	0.8			ug/L	%
|	**Cr**	52	15120	63447	1.3	**5.375**	0.134	ug/L	2.5 %
⌊	**Cr**	53	93861	11931	0.3	**-41.959**	0.035	ug/L	0.1 %
⌈>	**Tb**	159	1097775	1083626	0.4			ug/L	%
|	**Pb**	207	225	528	6.4	**0.091**	0.010	ug/L	10.8 %
⌊	**Pb**	208	1083	2454	1.0	**0.089**	0.001	ug/L	1.4 %

068

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:22:58
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-010A.024
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-010A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	694687	0.2			ug/L	%
|	**Cr**	52	15120	24208	0.9	**0.950**	0.031	ug/L	3.3 %
⌊	**Cr**	53	93861	6785	1.2	**-44.341**	0.043	ug/L	0.1 %
⌈>	**Tb**	159	1097775	1070070	0.5			ug/L	%
|	**Pb**	207	225	459	4.1	**0.072**	0.006	ug/L	8.8 %
⌊	**Pb**	208	1083	2160	2.0	**0.072**	0.003	ug/L	4.8 %

069

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:25:18
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-011A.025
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-011A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
>	**Sc-1**	45	656991	744428	1.2			ug/L	%
	Cr	52	15120	21265	0.8	**0.446**	0.041	ug/L	9.1 %
	Cr	53	93861	6418	0.3	**-44.723**	0.030	ug/L	0.1 %
>	**Tb**	159	1097775	1084138	0.3			ug/L	%
	Pb	207	225	423	1.9	**0.060**	0.003	ug/L	4.3 %
	Pb	208	1083	2050	1.1	**0.063**	0.001	ug/L	2.3 %

070

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:27:34
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-012A.026
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-012A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	**Conc. Mean**	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	631492	0.7			ug/L	%
|	**Cr**	52	15120	23345	1.1	**1.120**	0.017	ug/L	1.5 %
⌊	**Cr**	53	93861	7415	0.8	**-43.683**	0.037	ug/L	0.1 %
⌈>	**Tb**	159	1097775	1073158	0.9			ug/L	%
|	**Pb**	207	225	1030	5.7	**0.243**	0.019	ug/L	8.0 %
⌊	**Pb**	208	1083	4845	1.4	**0.244**	0.006	ug/L	2.3 %

071

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:29:50
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-013A.027
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-013A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	714560	0.7			ug/L	%
|	**Cr**	52	15120	35817	0.2	**2.177**	0.030	ug/L	1.4 %
⌊	**Cr**	53	93861	7301	0.3	**-44.191**	0.016	ug/L	0.0 %
⌈>	**Tb**	159	1097775	1095447	0.5			ug/L	%
|	**Pb**	207	225	673	2.2	**0.132**	0.004	ug/L	3.4 %
⌊	**Pb**	208	1083	3102	1.8	**0.128**	0.004	ug/L	2.9 %

072

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:32:08
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-014A.028
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-014A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
[>	**Sc-1**	45	656991	773195	0.4			ug/L	%
	Cr	52	15120	171760	0.4	**15.986**	0.128	ug/L	0.8 %
	Cr	53	93861	25071	1.3	**-36.793**	0.110	ug/L	0.3 %
[>	**Tb**	159	1097775	1082737	1.6			ug/L	%
	Pb	207	225	311	10.1	**0.026**	0.008	ug/L	31.0 %
	Pb	208	1083	1427	4.6	**0.023**	0.003	ug/L	13.2 %

073

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:34:25
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-015A.029
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-015A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	761248	0.7			ug/L	%
|	**Cr**	52	15120	60131	2.2	**4.494**	0.163	ug/L	3.6 %
⌊	**Cr**	53	93861	11473	1.3	**-42.574**	0.098	ug/L	0.2 %
⌈>	**Tb**	159	1097775	1081807	0.8			ug/L	%
|	**Pb**	207	225	403	4.7	**0.054**	0.007	ug/L	12.2 %
⌊	**Pb**	208	1083	1919	0.8	**0.055**	0.002	ug/L	2.9 %

074

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:36:46
Dataset File: D:\ELAN\Dataset\2003\July\030702\CCV.030
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	593793	0.1			ug/L	%
|	**Cr**	52	15120	85128	1.3	**9.662**	0.164	ug/L	1.7 %
⌊	**Cr**	53	93861	112223	4.7	**15.369**	2.980	ug/L	19.4 %
⌈>	**Tb**	159	1097775	1043620	1.5			ug/L	%
|	**Pb**	207	225	33639	2.1	**10.312**	0.090	ug/L	0.9 %
⌊	**Pb**	208	1083	156757	1.4	**10.339**	0.088	ug/L	0.9 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:39:09
Dataset File: D:\ELAN\Dataset\2003\July\030702\CCB.031
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	602415	0.2			ug/L	%
|	**Cr**	52	15120	14176	2.2	**0.042**	0.040	ug/L	97.0 %
⌊	**Cr**	53	93861	120234	2.8	**18.897**	1.864	ug/L	9.9 %
⌈>	**Tb**	159	1097775	1049658	1.2			ug/L	%
|	**Pb**	207	225	280	2.0	**0.020**	0.003	ug/L	14.0 %
⌊	**Pb**	208	1083	1319	1.0	**0.019**	0.002	ug/L	9.5 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:41:30
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-016A.032
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-016A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	709869	0.7			ug/L	%
|	**Cr**	52	15120	43980	2.8	**3.127**	0.164	ug/L	5.2 %
⌊	**Cr**	53	93861	22983	5.5	**-36.806**	0.661	ug/L	1.8 %
⌈>	**Tb**	159	1097775	1082664	1.0			ug/L	%
|	**Pb**	207	225	415	6.5	**0.057**	0.007	ug/L	12.9 %
⌊	**Pb**	208	1083	1961	4.5	**0.057**	0.005	ug/L	9.5 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:43:49
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-017A.033
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-017A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	718771	0.7			ug/L	%
|	**Cr**	52	15120	29397	1.9	**1.436**	0.083	ug/L	5.8 %
⌊	**Cr**	53	93861	13208	3.5	**-41.473**	0.252	ug/L	0.6 %
⌈>	**Tb**	159	1097775	1087200	0.8			ug/L	%
|	**Pb**	207	225	410	5.4	**0.055**	0.006	ug/L	11.3 %
⌊	**Pb**	208	1083	1902	3.2	**0.053**	0.003	ug/L	5.7 %

078

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:46:08
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-018A.034
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-018A
Sample Type: .

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	775354	0.5			ug/L	%
|	**Cr**	52	15120	86679	0.5	**7.127**	0.013	ug/L	0.2 %
⌊	**Cr**	53	93861	18670	1.0	**-39.573**	0.117	ug/L	0.3 %
⌈>	**Tb**	159	1097775	1094198	1.0			ug/L	%
|	**Pb**	207	225	406	7.8	**0.054**	0.010	ug/L	19.4 %
⌊	**Pb**	208	1083	1880	0.9	**0.051**	0.002	ug/L	4.2 %

079

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:48:27
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-018ADUP.035
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-018ADUP
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	793818	0.6			ug/L	%
|	**Cr**	52	15120	89447	1.5	**7.198**	0.116	ug/L	1.6 %
⌊	**Cr**	53	93861	18380	0.2	**-39.882**	0.057	ug/L	0.1 %
⌈>	**Tb**	159	1097775	1133247	0.4			ug/L	%
|	**Pb**	207	225	411	2.1	**0.051**	0.003	ug/L	5.7 %
⌊	**Pb**	208	1083	1951	1.5	**0.051**	0.001	ug/L	2.7 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:50:47
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-018AMS.036
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-018AMS
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	791493	0.6			ug/L	%
|	**Cr**	52	15120	164415	0.6	**14.829**	0.141	ug/L	1.0 %
⌊	**Cr**	53	93861	28299	0.3	**-35.684**	0.037	ug/L	0.1 %
⌈>	**Tb**	159	1097775	1139305	0.6			ug/L	%
|	**Pb**	207	225	34083	1.5	**9.566**	0.096	ug/L	1.0 %
⌊	**Pb**	208	1083	157965	0.8	**9.538**	0.029	ug/L	0.3 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:53:08
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-018AMSD.037
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-018AMSD
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	801966	0.6			ug/L	%
|	**Cr**	52	15120	167837	0.4	**14.954**	0.152	ug/L	1.0 %
⌊	**Cr**	53	93861	28602	0.8	**-35.713**	0.067	ug/L	0.2 %
⌈>	**Tb**	159	1097775	1151446	0.8			ug/L	%
|	**Pb**	207	225	34153	1.1	**9.484**	0.042	ug/L	0.4 %
⌊	**Pb**	208	1083	159036	0.7	**9.502**	0.051	ug/L	0.5 %

082

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 11:55:29
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-020A.038
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-020A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
[>	**Sc-1**	45	656991	741578	0.3			ug/L	%
	Cr	52	15120	52841	1.0	**3.873**	0.048	ug/L	1.2 %
	Cr	53	93861	11058	0.5	**-42.628**	0.027	ug/L	0.1 %
[>	**Tb**	159	1097775	1146947	0.7			ug/L	%
	Pb	207	225	782	5.3	**0.153**	0.011	ug/L	6.9 %
	Pb	208	1083	3568	3.0	**0.147**	0.006	ug/L	3.9 %

083

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:11:13
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-021A.040
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-021A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
>	**Sc-1**	45	656991	768963	1.1			ug/L	%
	Cr	52	15120	95604	0.5	**8.134**	0.054	ug/L	0.7 %
	Cr	53	93861	17983	0.5	**-39.804**	0.057	ug/L	0.1 %
>	**Tb**	159	1097775	1143779	0.7			ug/L	%
	Pb	207	225	774	5.2	**0.152**	0.011	ug/L	7.1 %
	Pb	208	1083	3578	1.8	**0.148**	0.004	ug/L	2.7 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:13:35
Dataset File: D:\ELAN\Dataset\2003\July\030702\MB-.041
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: MB- R 28957 MS 7/2/03
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	632244	1.0			ug/L	%
|	**Cr**	52	15120	13537	3.6	**-0.129**	0.048	ug/L	37.2 %
⌊	**Cr**	53	93861	105067	5.6	**7.754**	2.686	ug/L	34.6 %
⌈>	**Tb**	159	1097775	1130678	1.4			ug/L	%
|	**Pb**	207	225	432	4.1	**0.057**	0.006	ug/L	10.4 %
⌊	**Pb**	208	1083	1997	4.3	**0.054**	0.007	ug/L	12.6 %

085

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:15:57
Dataset File: D:\ELAN\Dataset\2003\July\030702\LCS-.042
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: LCS- 1L28457 WS 7/2/03
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
[>	**Sc-1**	45	656991	637515	1.1			ug/L	%
	Cr	52	15120	94107	1.4	**10.003**	0.077	ug/L	0.8 %
	Cr	53	93861	140998	2.7	**26.078**	1.232	ug/L	4.7 %
[>	**Tb**	159	1097775	1128138	0.8			ug/L	%
	Pb	207	225	36476	1.1	**10.345**	0.121	ug/L	1.2 %
	Pb	208	1083	170037	1.3	**10.375**	0.119	ug/L	1.1 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:18:20
Dataset File: D:\ELAN\Dataset\2003\July\030702\CCV.043
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	639026	0.2			ug/L	%
|	**Cr**	52	15120	93809	1.3	**9.937**	0.137	ug/L	1.4 %
⌊	**Cr**	53	93861	147606	2.8	**29.355**	2.044	ug/L	7.0 %
⌈>	**Tb**	159	1097775	1120635	1.2			ug/L	%
|	**Pb**	207	225	36285	1.7	**10.360**	0.188	ug/L	1.8 %
⌊	**Pb**	208	1083	168643	1.4	**10.359**	0.160	ug/L	1.5 %

087

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:20:43
Dataset File: D:\ELAN\Dataset\2003\July\030702\CCB.044
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	639585	0.7			ug/L	%
|	**Cr**	52	15120	15405	2.4	**0.086**	0.032	ug/L	37.6 %
⌊	**Cr**	53	93861	141238	2.6	**25.967**	1.358	ug/L	5.2 %
⌈>	**Tb**	159	1097775	1130118	1.6			ug/L	%
|	**Pb**	207	225	391	2.5	**0.045**	0.004	ug/L	9.7 %
⌊	**Pb**	208	1083	1816	2.2	**0.043**	0.004	ug/L	9.2 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:23:06
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-019A.045
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-019A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	772853	0.9			ug/L	%
|	**Cr**	52	15120	64650	0.5	**4.868**	0.048	ug/L	1.0 %
⌊	**Cr**	53	93861	36479	3.9	**-31.872**	0.542	ug/L	1.7 %
⌈>	**Tb**	159	1097775	1175835	0.8			ug/L	%
|	**Pb**	207	225	595	4.9	**0.097**	0.008	ug/L	8.1 %
⌊	**Pb**	208	1083	2780	2.1	**0.095**	0.005	ug/L	4.8 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:25:26
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-019ADUP.046
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-019ADUP
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	778643	0.3			ug/L	%
|	**Cr**	52	15120	64981	0.3	**4.852**	0.012	ug/L	0.3 %
⌊	**Cr**	53	93861	24453	2.7	**-37.132**	0.291	ug/L	0.8 %
⌈>	**Tb**	159	1097775	1210032	0.9			ug/L	%
|	**Pb**	207	225	586	3.7	**0.090**	0.004	ug/L	5.0 %
⌊	**Pb**	208	1083	2809	0.4	**0.092**	0.001	ug/L	1.1 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:27:42
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-019AMS.047
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-019AMS
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
[>	**Sc-1**	45	656991	799773	0.2			ug/L	%
[	**Cr**	52	15120	151815	1.0	**13.391**	0.127	ug/L	0.9 %
[	**Cr**	53	93861	31975	0.5	**-34.276**	0.037	ug/L	0.1 %
[>	**Tb**	159	1097775	1229732	0.6			ug/L	%
[	**Pb**	207	225	38211	0.7	**9.939**	0.023	ug/L	0.2 %
[	**Pb**	208	1083	177082	0.4	**9.909**	0.034	ug/L	0.3 %

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:29:58
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-019AMSD.048
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-019AMSD
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	788329	0.7			ug/L	%
|	**Cr**	52	15120	150208	0.5	**13.449**	0.041	ug/L	0.3 %
⌊	**Cr**	53	93861	29947	0.4	**-34.939**	0.113	ug/L	0.3 %
⌈>	**Tb**	159	1097775	1197717	0.2			ug/L	%
|	**Pb**	207	225	36578	0.8	**9.767**	0.059	ug/L	0.6 %
⌊	**Pb**	208	1083	170245	0.6	**9.780**	0.049	ug/L	0.5 %

192

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:32:15
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-022A.049
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-022A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	779234	0.6			ug/L	%
|	**Cr**	52	15120	40790	1.6	**2.355**	0.048	ug/L	2.1 %
⌊	**Cr**	53	93861	12032	1.7	**-42.451**	0.077	ug/L	0.2 %
⌈>	**Tb**	159	1097775	1205710	0.1			ug/L	%
|	**Pb**	207	225	811	2.4	**0.151**	0.006	ug/L	3.7 %
⌊	**Pb**	208	1083	3824	1.8	**0.151**	0.004	ug/L	2.7 %

093

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:34:33
Dataset File: D:\ELAN\Dataset\2003\July\030702\063531-023A.050
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.mth
Optimization File: c:\elandata\Optimize\default.dac
Number of Replicates: 3
Sample ID: 063531-023A
Sample Type:

Summary

	Analyte	Mass	Blank Intensity	Meas. Intensity	Int. RSD	Conc. Mean	Conc. SD		Conc. RSD
⌈>	**Sc-1**	45	656991	802173	0.6			ug/L	%
|	**Cr**	52	15120	61207	1.0	**4.278**	0.066	ug/L	1.5 %
⌊	**Cr**	53	93861	12885	0.7	**-42.244**	0.067	ug/L	0.2 %
⌈>	**Tb**	159	1097775	1208464	0.5			ug/L	%
|	**Pb**	207	225	2080	1.6	**0.488**	0.008	ug/L	1.6 %
⌊	**Pb**	208	1083	9737	2.6	**0.490**	0.012	ug/L	2.5 %

094

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:36:53
Dataset File: D:\ELAN\Dataset\2003\July\030702\CCV.051
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	677603	0.8			ug/L	%
|	**Cr**	52	15120	99662	0.5	**9.960**	0.048	ug/L	0.5 %
⌊	**Cr**	53	93861	123103	5.0	**12.946**	3.440	ug/L	26.6 %
⌈>	**Tb**	159	1097775	1166803	0.3			ug/L	%
|	**Pb**	207	225	37886	0.3	**10.389**	0.044	ug/L	0.4 %
⌊	**Pb**	208	1083	175489	0.5	**10.353**	0.088	ug/L	0.8 %

095

Quantitative Analysis Summary

Sample Date/Time: Wednesday, July 02, 2003 12:39:16
Dataset File: D:\ELAN\Dataset\2003\July\030702\CCB.052
Method File: c:\elandata\Method\atl methods 030317\atl-epa 200.8 crpbapcl.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
⌈>	**Sc-1**	45	656991	675684	0.7			ug/L	%
|	**Cr**	52	15120	16073	1.8	**0.062**	0.020	ug/L	32.6 %
⌊	**Cr**	53	93861	136864	3.6	**19.877**	2.001	ug/L	10.1 %
⌈>	**Tb**	159	1097775	1177489	0.7			ug/L	%
|	**Pb**	207	225	374	4.7	**0.036**	0.006	ug/L	15.2 %
⌊	**Pb**	208	1083	1662	1.5	**0.029**	0.002	ug/L	7.2 %

096

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: Leo Williamson
22632 Golden Spring Dr Ste 270
Diamond Bar 91765
Tel: (909)396-7662 Fax: (909)396-1455

Service ID #: 801-033112
Collected by:
Collected on:04/28-05/07/03

Received: 04/28/03
Extracted: N/A
Tested: N/A
Reported: 05/30/03

Sample Description: Water
Project Description: 04-4428.10 JPL

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result DUPE-4-2Q03 03-03112-1	DUPE-5-2Q03 03-03112-2	DUPE-6-2Q03 03-03112-3	EB-6-4/28/03 03-03112-4
CHROMIUM [a]							
LEAD [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result EB-7-4/29/03 03-03112-5	EB-8-4/30/03 03-03112-6	EB-9-5/1/03 03-03112-7	EB-10-5/6/03 03-03112-8
CHROMIUM [a]							
LEAD [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result EB-11-5/7/03 03-03112-9	MW-3-1 03-03112-10	MW-3-2 03-03112-11	MW-3-3 03-03112-12
CHROMIUM [a]							
LEAD [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-3-4 03-03112-13	MW-3-5 03-03112-14	MW-11-1 03-03112-15	MW-11-2 03-03112-16
CHROMIUM [a]							
LEAD [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-11-3 03-03112-17	MW-11-4 03-03112-18	MW-11-5 03-03112-19	MW-12-1 03-03112-20
CHROMIUM [a]							
LEAD [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-12-2 03-03112-21	MW-12-3 03-03112-22	MW-12-4 03-03112-23	MW-12-5 03-03112-24
CHROMIUM [a]							
LEAD [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-17-1 03-03112-25	MW-17-2 03-03112-26	MW-17-3 03-03112-27	MW-17-4 03-03112-28
CHROMIUM [a]							
LEAD [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-17-5 03-03112-29	MW-23-1 03-03112-30	MW-23-2 03-03112-31	MW-23-3 03-03112-32
CHROMIUM [a]							
LEAD [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-23-4 03-03112-33	MW-23-5 03-03112-34	MW-24-1 03-03112-35	MW-24-2 03-03112-36
CHROMIUM [a]							
LEAD [a]							

Component Analyzed	Method	Unit	PQL	Analysis Result MW-24-3 03-03112-37	MW-24-4 03-03112-38	MW-24-5 03-03112-39
CHROMIUM [a]						
LEAD [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 91765 • (909) 396-7662 • FAX (909) 396-1455

CHAIN-OF-CUSTODY RECORD

LABORATORY COPY

MW-17 0023

GEOFON's LAB COORDINATOR: Brad Shojaee	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: GW MON-2Q03	PROJECT LOCATION: MW-17 (Harriet & Casitas)	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: (909) 590-1828	LABORATORY FAX: (909) 590-1498	RECIPIENT NAME: Leo W. Williamson
PROJECT CONTACT: Leo W. Williamson	PROJECT PHONE NUMBER: (714) 920-8729	PROJECT FAX: (909) 396-1455	LABORATORY ADDRESS: 13760 Magnolia Ave		ADDRESS: 22632 Golden Springs 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: Asgar Faheem	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	524.2 (VOCs)	200.7 & 200.9 (Minerals)	7196 (Hex Chrome)	SIM 23208 (Carb/Bicarb)	300.0 (Cl/SO4/NO3)	314.0 (Perchlorate)	160.1 (TDS)	200.8 (Cr+Pb)	Comments
1	MW-17-5	H_2O	4/28/03	800	HCl + NONE HNO_3	3+1+ 1+1	III	NORMAL	X	X	X	X	X	X	X	X	MINERALS: Na/K/Ca/As/Mg/Fe
2	MW-17-4	↓	↓	950	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
3	MW-17-3	↓	↓	1035	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
4	MW-17-2	↓	↓	1150	↓	↓	↓	↓	X	X	X	X	X	X	X	X	MS/MSD
5	MW-17-1	↓	↓	1230	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
6																	
7	TB-6-4/28/03	H_2O	—	—	HCl	2	III	NORMAL	X								3112
8	EB-6-4/28/03	↓	4/28/03	1050	HCl NONE HNO_3	3+1+ 1+1	↓	↓	X	X	X	X	X	X	X	X	
9																	
10																	

SAMPLES COLLECTED BY: Leo W. Williamson

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
Leo W. Williamson	[signature]	4/28/03	1400
[signature]	[signature]	4/28/03	1510

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

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 0025

GEOFON's LAB COORDINATOR: Brad Shojaee	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: JPL GW MON-2Q03	PROJECT LOCATION: MW-24 (E. of Security Bldg.)	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: (909) 590-1828	LABORATORY FAX: (909) 590-1498	RECIPIENT NAME: Leo W. Williamson
PROJECT CONTACT: Leo W. Williamson	PROJECT PHONE NUMBER: (714) 920-8729	PROJECT FAX: (909) 396-1455	LABORATORY ADDRESS: 13760 Magnolia Ave		ADDRESS: 22632 Golden Springs 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 Faheem	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.	524.2 (VOCs)	200.7 & 200.9 (Metals)	7196 (Hex Chrome)	SIM 2320B (Carb. / Bicarb.)	300.0 (Cl / SO4 / NO3)	314.0 (Perchlorate)	160.1 (TDS) + 9040B (pH)	200.8 (Cr + Pb)	Comments
1	MW-24-5	H_2O	4/29/03	840	HCl NONE HNO_3	3+1+ 1+1	III	NORMAL	X	X	X	X	X	X	X	X	NORMAL: Na/K/Ca/As/Mg/Fe
2	MW-24-4	↓	↓	935	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
3	MW-24-3	↓	↓	1040	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
4	MW-24-2	↓	↓	1210	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
5	MW-24-1	↓	↓	1400	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
6																	
7	TB-7-4/29/03	H_2O	—	—	HCl	2	III	NORMAL	X								
8	EB-7-4/29/03	↓	4/29/03	955	HCl NONE HNO_3	3+1 +1+1	↓	↓	X	X	X	X	X	X	X	X	
9	DUPE-4-2Q03	↓	↓	—	↓	↓	IV	↓	X	X	X	X	X	X	X	X	
10																	

3112

SAMPLES COLLECTED BY: Leo W. Williamson

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
Leo W. Williamson	[signature]	4/29/03	1450
[signature]	[signature]	4/29/03	1455

SAMPLE'S CONDITION UPON RECEIPT

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

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-23 0027

GEOFON's LAB COORDINATOR: Brad Shojaee	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: JPL GW MON-2903	PROJECT LOCATION: MW-23 (N. of Bl 233)	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: (909) 590-1828	LABORATORY FAX: (909) 590-1498	RECIPIENT NAME: Leo W. Williamson
PROJECT CONTACT: Leo W. Williamson	PROJECT PHONE NUMBER: (914) 920-8729	PROJECT FAX: (909) 396-1455	LABORATORY ADDRESS: 13760 Magnolia Ave		ADDRESS: 22632 Golden Springs 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 Faheem	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	524.2 (VOCs)	200.7 & 200.9 (Metals)	7196 (Hex. Chrome)	SM 2320B (Carb./Bicarb.)	300.0 (Cl/SO4/NO3)	314.0 (Perchlorate)	160.1 (TDS) + 9040B (pH)	200.8 (Cr+Pb)	Comments
1	MW-23-5	H_2O	4/30/03	820	NONE HNO3	3+1 1+1	III	NORMAL	X	X	X	X	X	X	X	X	MINERALS: Na/K/Ca/As/Mg/Fe MS/MSD
2	MW-23-4	↓	↓	900	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
3	MW-23-3			940					X	X	X	X	X	X	X	X	
4	MW-23-2			1025					X	X	X	X	X	X	X	X	
5	MW-23-1			1100					X	X	X	X	X	X	X	X	
6																	
7	TB-8-4/30/03	H_2O	4/30/03	—	HCl	2	III	NORMAL	X								
8	EB-8-4/30/03	↓	↓	835	HCl NONE HNO3	3+1 1+1	↓	↓	X	X	X	X	X	X	X	X	
9																	
10																	

3112

SAMPLES COLLECTED BY: Leo W. Williamson

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
Leo W. Williamson	[illegible]	4/30/03	1135
[illegible]	[illegible]	4/30/03	1220

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

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-3 0028

GEOFON's LAB COORDINATOR: Leo W. Williamson	LAB COORDINATOR'S PHONE: (909) 396-7662	LAB COORDINATOR'S FAX: (909) 396-1455	LABORATORY SERVICE ID: –	LABORATORY CONTACT: Kenny Ehan	MAIL REPORT (COMPANY NAME): GEOFON, INC.
PROJECT NAME: JPL GW MON-2Q03	PROJECT LOCATION: MW-3 (Settling Ponds)	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: (909) 590-1828	LABORATORY FAX: (909) 590-1498	RECIPIENT NAME: Leo W. Williamson
PROJECT CONTACT: Leo W. Williamson	PROJECT PHONE NUMBER: (714) 920-8729	PROJECT FAX: (909) 396-1455	LABORATORY ADDRESS: 13760 Magnolia Ave.		ADDRESS: 22632 Golden Springs Dr. #270
PROJECT ADDRESS: 4800 Oak Grove Dr.	CITY, STATE AND ZIPCODE: Pasadena, CA.	CLIENT: US NAVY Swolv	CITY, STATE AND ZIPCODE: Chino, CA. 91710		CITY, STATE AND ZIPCODE: Diamond Bar, CA. 91765
PROJECT MANAGER: Asrar Faheem	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.	524.2 (VOCs)	200.7 & 200.9 (Minerals)	7196 (Hex Chrome)	SM 2320B (Carbonate/Bicarbonate)	300.0 (Cl/SO4/NO3)	314.0 (Perchlorate)	160.1 (TDS) + 9040B (pH)	200.8 (Cr & Pb)	Comments
1	MW-3-5	H_2O	5/1/03	750	HCl NONE HNO_3	3+1 + 1+1	III	NORMAL	X	X	X	X	X	X	X	X	MINERALS: Na / K / Ca / As / Mg / Fe
2	MW-3-4	↓	↓	945	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
3	MW-3-3	↓	↓	925	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
4	MW-3-2	↓	↓	1050	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
5	MW-3-1	↓	↓	1130	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
6																	
7	TB-9-5/1/03	H_2O	—	—	HCl	2	III	NORMAL	X								
8	EB-9-5/1/03	↓	5/1/03	805	HCl NONE HNO_3	3+1 + 1+1	↓	↓	X	X	X	X	X	X	X	X	
9	DUPE-5-2Q03	↓	↓	—	↓	↓	IV	↓	X	X	X	X	X	X	X	X	
10																	

3112

SAMPLES COLLECTED BY: Leo W. Williamson

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
Leo W. Williamson	[signature]	5/1/03	1240
[signature]	[signature]	5/1/03	1405

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

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 0029

GEOFON's LAB COORDINATOR	LAB COORDINATOR'S PHONE	LAB COORDINATOR'S FAX	LABORATORY SERVICE ID	LABORATORY CONTACT	MAIL REPORT (COMPANY NAME)
Brad Shojaee	(909) 396-7662	(909) 396-1455	–	Kenny Chan	GEOFON, INC.

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY PHONE	LABORATORY FAX	RECIPIENT NAME
JPL GW MON-2003	MW-11 (S. of B1 277)	04-4428.10	(909) 590-1328	(909) 590-1498	Leo W. Williamson

PROJECT CONTACT	PROJECT PHONE NUMBER	PROJECT FAX	LABORATORY ADDRESS	ADDRESS
Leo W. Williamson	(714) 920-8729	(909) 396-1455	13760 Magnolia Ave	22632 Golden Springs Dr. #270

PROJECT ADDRESS	CITY, STATE AND ZIPCODE	CLIENT	CITY, STATE AND ZIPCODE	CITY, STATE AND ZIPCODE
4800 Oak Grove Dr.	Pasadena, CA.	US NAVY SWDIV	Chino, CA 91710	Diamond Bar, CA. 91765

PROJECT MANAGER	PROJECT MANAGER'S PHONE	PROJECT MANAGER'S FAX
Asrar Faheem	(909) 396-7662	(909) 396-1455

Item	Sample Identifier	Matrix	Date	Time	Preserved	# of Cont.	QC Level	T.A.T.	524.2 (VOCs)	200.7 & 200.9 (Minerals)	7196 (Hex. Chrome)	SM2320B (Carb. Alkalinity)	300.0 (Cl/SO4/NO3)	314.0 (Perchlorate)	160.1 (TDS) + 9040B (pH)	200.8 (Cr+Pb)	Comments
1	MW-11-5	H_2O	5/6/03	755	HCl NONE HNO_3	3+1+ 1+1	III	NORMAL	X	X	X	X	X	X	X	X	MINERALS: Na/K/Ca/As/Mg/Fe
2	MW-11-4	↓	↓	840	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
3	MW-11-3	↓	↓	950	↓	↓	↓	↓	X	X	X	X	X	X	X	X	MS/MSD
4	MW-11-2	↓	↓	1030	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
5	MW-11-1	↓	↓	1105	↓	↓	↓	↓	X	X	X	X	X	X	X	X	
6																	
7	TB-10-5/6/03	H_2O	—	—	HCl	2	III	NORMAL	X								
8	EB-10-5/6/03	↓	5/6/03	855	HCl NONE HNO_3	3+1+ 1+1	↓	↓	X	X	X	X	X	X	X	X	
9																	
10																	

3112

SAMPLES COLLECTED BY: Leo W. Williamson

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
Leo W. Williamson	[illegible]	5/6/03	1230
[illegible]	[illegible]	5/6/03	1315

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

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-12 0030

GEOFON's LAB COORDINATOR: Brad Shojaee	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: JDL GW Mon-2Q03	PROJECT LOCATION: MW-12 (E. of B1 302)	PROJECT NUMBER: 04-4428.10	LABORATORY PHONE: (909) 590-1828	LABORATORY FAX: (909) 590-1498	RECIPIENT NAME: Leo W. Williamson
PROJECT CONTACT: Leo W. Williamson	PROJECT PHONE NUMBER: (714) 920-8729	PROJECT FAX: (909) 396-1455	LABORATORY ADDRESS: 13760 Magnolia Ave		ADDRESS: 22632 Golden Springs 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 Faheem	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	624.2 (VOC)	200.7 & 200.9 (Minerals)	7196 (Hex Chrome)	SM 2320B (Carb. Bicarb)	300.0 (Cl/SO4/NO3)	314.0 (Perchlorate)	160.1 (TDS)	160.2 (Total Susp.)	200.8 (Cr+ Pb)	Comments
1	MW-12-5	H_2O	5/7/03	750	HCl + NONE HNO_3	3+1+ 1+1	III	NORMAL	X	X	X	X	X	X	X	X		MINERALS: Na/K/Ca/As/Mg/Fe
2	MW-12-4			830					X	X	X	X	X	X	X	X		
3	MW-12-3			940					X	X	X	X	X	X	X	X		
4	MW-12-2			1020					X	X	X	X	X	X	X	X		
5	MW-12-1			1100					X	X	X	X	X	X	X	X		
6																		
7	TB-11-5/7/03	H_2O	—	—	HCl	1	III	NORMAL	X									
8	EB-11-5/7/03		5/7/03	850	HCl NONE HNO_3	3+1+ 1+1			X	X	X	X	X	X	X	X		
9	DUPE-6-2Q03			—			IV		X	X	X	X	X	X	X	X		
10																		

3112

SAMPLES COLLECTED BY: Leo W. Williamson

COURIER AND AIR BILL NUMBER:

COOLER TEMPERATURE UPON RECEIPT

SAMPLE'S CONDITION UPON RECEIPT

RELINQUISHED BY	RECEIVED BY	DATE	TIME
Leo W. Williamson	[illegible]	5/7/03	1134
[illegible]	[illegible]	5/7/03	1225

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: 3112 **Client Name/Project:** Geofon

1. Sample Arrival

Date/Time Received 4/28/03 1510 Date/Time Opened 4/28/03 1510 By (name): Kenn Chan

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 8
☑ CoC/Docs Zip-Locked under lid? ☐ Compos.#: ☑ #Samples OK?
☐ Discrepancies? ☐ Client notified? ☐ Response (attach docs):

3. Shipping Container/Cooler

☑ Cooler Used? # of 2 Cooled by: ☑ Ice ☐ Blue Ice ☐ Dry Ice ☐ None

Temp °C 3.8 4.2

(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: 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: [signature] Date: 28 Apr 2003 Time: 7:30 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: [ncal.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: 3112 **Client Name/Project:** Geofon JPL

1. Sample Arrival

Date/Time Received 4/29/03 1555 Date/Time Opened 4/29/03 1555 By (name): Kenn Shon

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 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 3.9

(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] Date: 29 Apr 2003 Time: 7:46 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: 3112 **Client Name/Project:** Geotn JPL

1. Sample Arrival

Date/Time Received 4/30/03 1220 Date/Time Opened 4/30/03 1220 By (name): Kenny Chan

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

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☐ Client has Copy? ☐ Signed, dated? By:
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold ____ # Received 7
☑ 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 4.5

(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] Date: 30 Apr 2003 Time: 7:42 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: 3112 **Client Name/Project:** Geotor

1. Sample Arrival

Date/Time Received 5/1/03 1405 Date/Time Opened 5/1/03 1405 By (name): Kenny Chan

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 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 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? ☐ 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] Date: 1 May 2003 Time: 7:42 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: [ncal.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: 3112 **Client Name/Project:** Geofon

1. Sample Arrival

Date/Time Received 5/6/03 1315 Date/Time Opened 5/6/03 1315 By (name): Kenny Chan

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

2. Chain-of-Custody (CoC)

☑ With Samples? ☐ Faxed? ☐ Client has Copy? ☐ Signed, dated? By: _____
☑ Project ID? ☑ Analyses Clear? ☐ Hold Samples? #on Hold _____ # Received 7
☑ 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? ☐ 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] Date: 6 May 2003 Time: 7:38 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 3112 **Client Name/Project:** Geofon JPL

1. Sample Arrival

Date/Time Received 5/7/03 1225 Date/Time Opened 5/7/03 1225 By (name): Kenny Chan
Custody Transfer: ☐ Client ☐ Golden State ☐ UPS ☐ US Mail ☐ FedEx ☑ APCL Empl: Adam Abed

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 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? ☐ 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: Kenny Chan Date: 7 May 2003 Time: 7:40 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

03-03112 (0470_ 140) (2202777_ 140)

05/07/03

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:	*04/28/03 1510*
	COC No.	
☐ Shipping Information	Shipping Company	*APCL pick up*
	Packing Information:	*Cooler/Ice Chester*
	Cooler Temperature:	*3.8 4.2 °C*
☐ Container Information	Container Provider:	*Client*
☐ Sampling Information	Sampling Person:	
	Sampling Company:	*Client*
☐ Turn-Around-Time Option:		*Rush 5 working day(s)*
☐ QC Option:		*NEESA D*
☐ 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-17-5	Metal	03-03112-29	W	P	N	500	1	G	042803	N	0	6	☐
2	MW-17-4	Metal	03-03112-28	W	P	N	500	1	G	042803	N	0	6	☐
3	MW-17-3	Metal	03-03112-27	W	P	N	500	1	G	042803	N	0	6	☐
4	MW-17-2	Metal	03-03112-26	W	P	N	500	2	G	042803	N	0	6	☐
5	MW-17-1	Metal	03-03112-25	W	P	N	500	1	G	042803	N	0	6	☐
6	EB-6-4/28/03	Metal	03-03112-4	W	P	N	500	1	G	042803	N	0	6	☐
7	MW-24-5	Metal	03-03112-39	W	P	N	500	1	G	042903	N	0	6	☐
8	MW-24-4	Metal	03-03112-38	W	P	N	500	1	G	042903	N	0	6	☐
9	MW-24-3	Metal	03-03112-37	W	P	N	500	1	G	042903	N	0	6	☐
10	MW-24-2	Metal	03-03112-36	W	P	N	500	1	G	042903	N	0	6	☐
11	MW-24-1	Metal	03-03112-35	W	P	N	500	1	G	042903	N	0	6	☐
12	EB-7-4/29/03	Metal	03-03112-5	W	P	N	500	1	G	042903	N	0	6	☐
13	DUPE-4-2Q03	Metal	03-03112-1	W	P	N	500	1	G	042903	N	0	6	☐
14	MW-23-5	Metal	03-03112-34	W	P	N	500	2	G	043003	N	0	6	☐
15	MW-23-4	Metal	03-03112-33	W	P	N	500	1	G	043003	N	0	6	☐
16	MW-23-3	Metal	03-03112-32	W	P	N	500	1	G	043003	N	0	6	☐
17	MW-23-2	Metal	03-03112-31	W	P	N	500	1	G	043003	N	0	6	☐
18	MW-23-1	Metal	03-03112-30	W	P	N	500	1	G	043003	N	0	6	☐
19	EB-8-4/30/03	Metal	03-03112-6	W	P	N	500	1	G	043003	N	0	6	☐
20	MW-3-5	Metal	03-03112-14	W	P	N	500	1	G	050103	N	0	6	☐
21	MW-3-4	Metal	03-03112-13	W	P	N	500	1	G	050103	N	0	6	☐
22	MW-3-3	Metal	03-03112-12	W	P	N	500	1	G	050103	N	0	6	☐
23	MW-3-2	Metal	03-03112-11	W	P	N	500	1	G	050103	N	0	6	☐
24	MW-3-1	Metal	03-03112-10	W	P	N	500	1	G	050103	N	0	6	☐
25	EB-9-5/1/03	Metal	03-03112-7	W	P	N	500	1	G	050103	N	0	6	☐
26	DUPE-5-2Q03	Metal	03-03112-2	W	P	N	500	1	G	050103	N	0	6	☐
27	MW-11-5	Metal	03-03112-19	W	P	N	500	1	G	050603	N	0	6	☐
28	MW-11-4	Metal	03-03112-18	W	P	N	500	1	G	050603	N	0	6	☐
29	MW-11-3	Metal	03-03112-17	W	P	N	500	2	G	050603	N	0	6	☐
30	MW-11-2	Metal	03-03112-16	W	P	N	500	1	G	050603	N	0	6	☐
31	MW-11-1	Metal	03-03112-15	W	P	N	500	1	G	050603	N	0	6	☐
32	EB-10-5/6/03	Metal	03-03112-8	W	P	N	500	1	G	050603	N	0	6	☐
33	MW-12-5	Metal	03-03112-24	W	P	N	500	1	G	050703	N	0	6	☐
34	MW-12-4	Metal	03-03112-23	W	P	N	500	1	G	050703	N	0	6	☐
35	MW-12-3	Metal	03-03112-22	W	P	N	500	1	G	050703	N	0	6	☐
36	MW-12-2	Metal	03-03112-21	W	P	N	500	1	G	050703	N	0	6	☐
37	MW-12-1	Metal	03-03112-20	W	P	N	500	1	G	050703	N	0	6	☐
38	EB-11-5/7/03	Metal	03-03112-9	W	P	N	500	1	G	050703	N	0	6	☐
39	DUPE-6-2Q03	Metal	03-03112-3	W	P	N	500	1	G	050703	N	0	6	☐

Part 3: Analysis Information

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

☐ 200.7/6010B Lead, Pb, by ICP

Seq. #	Client"s Sample ID (as given on COC)	Sample Sub-ID	APCL Sample ID	Matrix	CR	PB	
1	MW-17-5	Metal	03-03112-29	W	X	X	☐
2	MW-17-4	Metal	03-03112-28	W	X	X	☐
3	MW-17-3	Metal	03-03112-27	W	X	X	☐
4	MW-17-2	Metal	03-03112-26	W	X	X	☐
5	MW-17-1	Metal	03-03112-25	W	X	X	☐
6	EB-6-4/28/03	Metal	03-03112-4	W	X	X	☐
7	MW-24-5	Metal	03-03112-39	W	X	X	☐
8	MW-24-4	Metal	03-03112-38	W	X	X	☐
9	MW-24-3	Metal	03-03112-37	W	X	X	☐
10	MW-24-2	Metal	03-03112-36	W	X	X	☐
11	MW-24-1	Metal	03-03112-35	W	X	X	☐
12	EB-7-4/29/03	Metal	03-03112-5	W	X	X	☐
13	DUPE-4-2Q03	Metal	03-03112-1	W	X	X	☐
14	MW-23-5	Metal	03-03112-34	W	X	X	☐
15	MW-23-4	Metal	03-03112-33	W	X	X	☐
16	MW-23-3	Metal	03-03112-32	W	X	X	☐
17	MW-23-2	Metal	03-03112-31	W	X	X	☐
18	MW-23-1	Metal	03-03112-30	W	X	X	☐
19	EB-8-4/30/03	Metal	03-03112-6	W	X	X	☐
20	MW-3-5	Metal	03-03112-14	W	X	X	☐
21	MW-3-4	Metal	03-03112-13	W	X	X	☐
22	MW-3-3	Metal	03-03112-12	W	X	X	☐
23	MW-3-2	Metal	03-03112-11	W	X	X	☐
24	MW-3-1	Metal	03-03112-10	W	X	X	☐
25	EB-9-5/1/03	Metal	03-03112-7	W	X	X	☐
26	DUPE-5-2Q03	Metal	03-03112-2	W	X	X	☐
27	MW-11-5	Metal	03-03112-19	W	X	X	☐
28	MW-11-4	Metal	03-03112-18	W	X	X	☐
29	MW-11-3	Metal	03-03112-17	W	X	X	☐
30	MW-11-2	Metal	03-03112-16	W	X	X	☐
31	MW-11-1	Metal	03-03112-15	W	X	X	☐
32	EB-10-5/6/03	Metal	03-03112-8	W	X	X	☐
33	MW-12-5	Metal	03-03112-24	W	X	X	☐
34	MW-12-4	Metal	03-03112-23	W	X	X	☐
35	MW-12-3	Metal	03-03112-22	W	X	X	☐
36	MW-12-2	Metal	03-03112-21	W	X	X	☐
37	MW-12-1	Metal	03-03112-20	W	X	X	☐
38	EB-11-5/7/03	Metal	03-03112-9	W	X	X	☐
39	DUPE-6-2Q03	Metal	03-03112-3	W	X	X	☐

☐ Client"s Requirement: **RUN MS/MSD ON SAMPLE** # 17, 26, 34

Login By En-Yu Paul Kou

Check By PK