

Advanced Technology Laboratories

Sample Receipt Checklist

Client Name APCL

Date and Time Received: 1/25/02 5:58:02 PM

Work Order Number 055085

Received by: CC

Checklist completed by scaldum 01/25/02
Signature Date

Reviewed by: RA 1/28/02
Initials Date

Cooler Temp (Deg C): 4.9

Carrier name: Walk-In

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
Chain of custody present?	Yes ☒	No ☐	
Chain of custody signed when relinquished and received?	Yes ☒	No ☐	
Chain of custody agrees with sample labels?	Yes ☒	No ☐	
Samples in proper container/bottle?	Yes ☒	No ☐	
Sample containers intact?	Yes ☒	No ☐	
Sufficient sample volume for indicated test?	Yes ☒	No ☐	
All samples received within holding time?	Yes ☒	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☒	No ☐	NA ☐ (Soil/Oils/Liquid)

pH >12 for (CN ,S) ; pH <2 for (OG, 418.1 and Metal)

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Advanced Technology Laboratories

WORK ORDER SUMMARY

25-Jan-02

Work Order: 055085

Client ID: APCL

Project: Sota Environmental

Work Order Comments: with EDD ; * Level 4 Package

QC Level: ~~RTNE~~ IV

Date Received: 01/25/2002

Sample ID	Client Sample ID	Collection Date	Due Date	Pres	Matrix	Test Code	Comments	Storage
055085-001A	MW-21-5	01/18/2002 1	01/31/2002	N	Water	200.8_W		NS
055085-002A	MW-21-4	01/18/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-003A	MW-21-3	01/08/2002 1	01/31/2002	N	Water	200.8_W		NS
055085-004A	MW-21-2	01/08/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-005A	MW-21-1	01/08/2002 2:	01/31/2002	N	Water	200.8_W		NS
055085-006A	ER-1 (Equipment Rinsat	01/09/2002 1	01/31/2002	N	Water	200.8_W		NS
055085-007A	MW-17-5	01/10/2002 9:	01/31/2002	N	Water	200.8_W		NS
055085-008A	MW-17-4	01/10/2002 1	01/31/2002	N	Water	200.8_W		NS
055085-009A	MW-17-3	01/10/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-010A	MW-17-2	01/10/2002 3:	01/31/2002	N	Water	200.8_W		NS

WORK ORDER SUMMARY

25-Jan-02

Work Order: 055085

Client ID: APCL

Project: Sota Environmental

QC Level: RTNE

Date Received: 01/25/2002

Work Order Comments: with EDD ; * Level 4 Package

Sample ID	Client Sample ID	Collection Date	Due Date	Pres	Matrix	Test Code	Comments	Storage
055085-010A	MW-17-2	01/10/2002 3:	01/31/2002	N	Water	3010_W_MS		NS
055085-011A	MW-17-1	01/10/2002 3:	01/31/2002	N	Water	200.8_W		NS
		01/10/2002 3:	01/31/2002	N	Water	3010_W_MS		NS
055085-012A	ER-2	01/10/2002 2:	01/31/2002	N	Water	200.8_W		NS
		01/10/2002 2:	01/31/2002	N	Water	3010_W_MS		NS
055085-013A	MW-3-5	01/11/2002 9:	01/31/2002	N	Water	200.8_W		NS
		01/11/2002 9:	01/31/2002	N	Water	3010_W_MS		NS
055085-014A	MW-3-4	01/11/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/11/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-015A	MW-3-3	01/11/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/11/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-016A	MW-3-2	01/11/2002 1	01/31/2002	N	Water	200.8_W	MS/MSD	NS
		01/11/2002 1	01/31/2002	N	Water	3010_W_MS	MS/MSD	NS
055085-017A	MW-3-1	01/11/2002 1:	01/31/2002	N	Water	200.8_W		NS
		01/11/2002 1:	01/31/2002	N	Water	3010_W_MS		NS
055085-018A	ER-3	01/11/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/11/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-019A	MW-18-5	01/14/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/14/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-020A	MW-18-4	01/14/2002 1	01/31/2002	N	Water	200.8_W		NS

WORK ORDER SUMMARY

25-Jan-02

Work Order: 055085

Client ID: APCL

Project: Sota Environmental

QC Level: RTNE

Date Received: 01/25/2002

Work Order Comments: with EDD ; * Level 4 Package

Sample ID	Client Sample ID	Collection Date	Due Date	Pres	Matrix	Test Code	Comments	Storage
055085-020A	MW-18-4	01/14/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-021A	MW-18-3	01/14/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/14/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-022A	MW-18-3D	01/14/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/14/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-023A	MW-18-2	01/14/2002 2:	01/31/2002	N	Water	200.8_W		NS
		01/14/2002 2:	01/31/2002	N	Water	3010_W_MS		NS
055085-024A	ER-4 (Equipment Rinsate)	01/14/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/14/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-025A	MW-19-5	01/15/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/15/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-026A	MW-19-4	01/15/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/15/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-027A	MW-19-3	01/15/2002 1	01/31/2002	N	Water	200.8_W	MS/MSD	NS
		01/15/2002 1	01/31/2002	N	Water	3010_W_MS	MS/MSD	NS
055085-028A	MW-19-3D	01/15/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/15/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-029A	MW-19-2	01/15/2002 2:	01/31/2002	N	Water	200.8_W		NS
		01/15/2002 2:	01/31/2002	N	Water	3010_W_MS		NS
055085-030A	MW-19-1	01/15/2002 3:	01/31/2002	N	Water	200.8_W		NS

WORK ORDER SUMMARY

25-Jan-02

Work Order: 055085

Client ID: APCL

Project: Sota Environmental

QC Level: RTNE

Date Received: 01/25/2002

Work Order Comments: with EDD ; * Level 4 Package

Sample ID	Client Sample ID	Collection Date	Due Date	Pres	Matrix	Test Code	Comments	Storage
055085-030A	MW-19-1	01/15/2002 3:	01/31/2002	N	Water	3010_W_MS		NS
055085-031A	ER-5	01/15/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/15/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-032A	MW-20-5	01/16/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/16/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-033A	MW-20-4	01/16/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/16/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-034A	MW-20-3	01/16/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/16/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-035A	MW-20-2	01/16/2002 2:	01/31/2002	N	Water	200.8_W		NS
		01/16/2002 2:	01/31/2002	N	Water	3010_W_MS		NS
055085-036A	MW-20-1	01/16/2002 3:	01/31/2002	N	Water	200.8_W		NS
		01/16/2002 3:	01/31/2002	N	Water	3010_W_MS		NS
055085-037A	ER-6	01/16/2002 1	01/31/2002	N	Water	200.8_W		NS
		01/16/2002 1	01/31/2002	N	Water	3010_W_MS		NS
055085-038A	folder		01/31/2002			FOLDER		LAB

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-3-5

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/11/02 9:15:00 AM

Lab ID: 055085-013A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B

BatchID: R15074

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA
028 13



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-3-4
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/11/02 10:03:00 AM
Lab ID: 055085-014A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
RunID: ICP4_020130B	BatchID: R15074	EPA 200.8		PrepDate:	Analyst: NS	
Chromium	ND	20		µg/L	4.0	1/30/02
Lead	ND	4.0		µg/L	4.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interference.
J - Analyte detected below quantitation limits H - Samples exceeding analytical holding time
B - Analyte detected in the associated Method Blank E - Value above quantitation range
DO - Surrogate Diluted Out M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-3-3
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/11/02 10:57:00 AM
Lab ID: 055085-015A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B	BatchID: R15074	PrepDate:	Analyst: NS		
Chromium	ND	5.0	µg/L	1.0	1/30/02
Lead	ND	1.0	µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA
P3015



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-3-2
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/11/02 12:05:00 PM
Lab ID: 055085-016A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS		EPA 200.8				
RunID: ICP4_020130B	BatchID: R15074	PrepDate:		Analyst: NS		
Chromium	ND	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

031 16



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-3-1

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/11/02 1:06:00 PM

Lab ID: 055085-017A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B

BatchID: R15074

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA



Advanced Technology
Laboratories

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

032

17

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: ER-3

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/11/02 11:04:00 AM

Lab ID: 055085-018A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B

BatchID: R15074

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-17-5
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/10/02 9:45:00 AM
Lab ID: 055085-007A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B	BatchID: R15074	PrepDate:	Analyst: NS		
Chromium	ND	5.0	µg/L	1.0	1/30/02
Lead	2.8	1.0	µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interference.
J - Analyte detected below quantitation limits H - Samples exceeding analytical holding time
B - Analyte detected in the associated Method Blank E - Value above quantitation range
DO - Surrogate Diluted Out M - Not Monitored. Highly Reactive

Initials: *RA*
622

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-17-4
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/10/02 10:57:00 AM
Lab ID: 055085-008A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B	BatchID: R15074	PrepDate:	Analyst: NS		
Chromium	ND	5.0	µg/L	1.0	1/30/02
Lead	ND	1.0	µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interference.
J - Analyte detected below quantitation limits H - Samples exceeding analytical holding time
B - Analyte detected in the associated Method Blank E - Value above quantitation range
DO - Surrogate Diluted Out M - Not Monitored. Highly Reactive

Initials **RA**
023
8



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories Client Sample ID: MW-17-3
Lab Order: 055085
Project: Sota Environmental Collection Date: 1/10/02 11:47:00 AM
Lab ID: 055085-009A Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B

BatchID: R15074

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

024⁹



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-17-2

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/10/02 3:05:00 PM

Lab ID: 055085-010A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B

BatchID: R15074

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials:

RD
0250



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-17-1

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/10/02 3:55:00 PM

Lab ID: 055085-011A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B

BatchID: R15074

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA
026 11



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: ER-2

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/10/02 2:25:00 PM

Lab ID: 055085-012A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B

BatchID: R15074

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA
027 12



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-18-5
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/14/02 10:48:00 AM
Lab ID: 055085-019A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS		EPA 200.8				
RunID: ICP4_020130B	BatchID: R15074	PrepDate:		Analyst: NS		
Chromium	ND	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interference.
J - Analyte detected below quantitation limits H - Samples exceeding analytical holding time
B - Analyte detected in the associated Method Blank E - Value above quantitation range
DO - Surrogate Diluted Out M - Not Monitored. Highly Reactive

Initials: RA



Advanced Technology
Laboratories

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

034¹⁹

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-18-4
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/14/02 11:55:00 AM
Lab ID: 055085-020A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
----------	--------	-------	------	-------	----	---------------

ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B	BatchID: R15074	PrepDate:	Analyst: NS		
Chromium	5.6	5.0	µg/L	1.0	1/30/02
Lead	ND	1.0	µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-18-3

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/14/02 12:40:00 PM

Lab ID: 055085-021A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS		EPA 200.8				
RunID: ICP4_020130A	BatchID: R15040	PrepDate:		Analyst: NS		
Chromium	5.6	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.

H - Samples exceeding analytical holding time

E - Value above quantitation range

M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-18-3D
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/14/02 12:40:00 PM
Lab ID: 055085-022A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS		EPA 200.8				
RunID: ICP4_020130A	BatchID: R15040	PrepDate:		Analyst: NS		
Chromium	5.3	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interference.
J - Analyte detected below quantitation limits H - Samples exceeding analytical holding time
B - Analyte detected in the associated Method Blank E - Value above quantitation range
DO - Surrogate Diluted Out M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-18-2

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/14/02 2:40:00 PM

Lab ID: 055085-023A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130A

BatchID: R15040

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.

H - Samples exceeding analytical holding time

E - Value above quantitation range

M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** ER-4 (Equip. Rinsate)
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/14/02 12:28:00 PM
Lab ID: 055085-024A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130A

BatchID: R15040

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA



Advanced Technology
Laboratories

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

039²⁴

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-19-5

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/15/02 10:42:00 AM

Lab ID: 055085-025A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130A

BatchID: R15040

PrepDate:

Analyst: NS

Chromium

5.1

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA



Advanced Technology
Laboratories

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

040

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Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories Client Sample ID: MW-19-4
Lab Order: 055085
Project: Sota Environmental Collection Date: 1/15/02 11:33:00 AM
Lab ID: 055085-026A Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130A	BatchID: R15040	PrepDate:	Analyst: NS		
Chromium	ND	5.0	µg/L	1.0	1/30/02
Lead	ND	1.0	µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interference.
J - Analyte detected below quantitation limits H - Samples exceeding analytical holding time
B - Analyte detected in the associated Method Blank E - Value above quantitation range Initials: RA
DO - Surrogate Diluted Out M - Not Monitored. Highly Reactive



Advanced Technology
Laboratories

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Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-19-3
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/15/02 12:37:00 PM
Lab ID: 055085-027A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS		EPA 200.8				
RunID: ICP4_020130A	BatchID: R15040	PrepDate:				Analyst: NS
Chromium	5.3	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interference.
J - Analyte detected below quantitation limits H - Samples exceeding analytical holding time
B - Analyte detected in the associated Method Blank E - Value above quantitation range
DO - Surrogate Diluted Out M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories Client Sample ID: MW-19-3D
Lab Order: 055085
Project: Sota Environmental Collection Date: 1/15/02 12:37:00 PM
Lab ID: 055085-028A Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130A BatchID: R15040 PrepDate: Analyst: NS

Chromium	5.6	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-19-2

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/15/02 2:07:00 PM

Lab ID: 055085-029A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130A

BatchID: R15040

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-19-1

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/15/02 3:33:00 PM

Lab ID: 055085-030A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130A

BatchID: R15040

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

045 Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories Client Sample ID: ER-5
Lab Order: 055085
Project: Sota Environmental Collection Date: 1/15/02 12:06:00 PM
Lab ID: 055085-031A Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
RunID: ICP4_020130A	BatchID: R15040	EPA 200.8				
				PrepDate:		Analyst: NS
Chromium	ND	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: **CAC** RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-20-5
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/16/02 10:09:00 AM
Lab ID: 055085-032A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130A

BatchID: R15040

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

047

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-20-4
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/16/02 11:12:00 AM
Lab ID: 055085-033A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS						
RunID: ICP4_020130A	BatchID: R15040	EPA 200.8				
				PrepDate:		Analyst: NS
Chromium	ND	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

643

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interference.
J - Analyte detected below quantitation limits H - Samples exceeding analytical holding time
B - Analyte detected in the associated Method Blank E - Value above quantitation range **Initials:** RA
DO - Surrogate Diluted Out M - Not Monitored. Highly Reactive

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** MW-20-3
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/16/02 12:09:00 PM
Lab ID: 055085-034A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS		EPA 200.8				
RunID: ICP4_020130A	BatchID: R15040	PrepDate:				Analyst: NS
Chromium	ND	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

149

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interference.
J - Analyte detected below quantitation limits H - Samples exceeding analytical holding time
B - Analyte detected in the associated Method Blank E - Value above quantitation range **Initials:** RA
DO - Surrogate Diluted Out M - Not Monitored. Highly Reactive

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-20-2

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/16/02 2:48:00 PM

Lab ID: 055085-035A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130A

BatchID: R15040

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

050

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.

H - Samples exceeding analytical holding time

E - Value above quantitation range

M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-20-1

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/16/02 3:43:00 PM

Lab ID: 055085-036A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130A

BatchID: R15040

PrepDate:

Analyst: NS

Chromium

ND

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

051

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories Client Sample ID: ER-6
Lab Order: 055085
Project: Sota Environmental Collection Date: 1/16/02 11:30:00 AM
Lab ID: 055085-037A Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130A	BatchID: R15040	PrepDate:	Analyst: NS		
Chromium	ND	5.0	µg/L	1.0	1/30/02
Lead	ND	1.0	µg/L	1.0	1/30/02

052

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interference.
J - Analyte detected below quantitation limits H - Samples exceeding analytical holding time
B - Analyte detected in the associated Method Blank E - Value above quantitation range
DO - Surrogate Diluted Out M - Not Monitored. Highly Reactive

Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-21-1

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/8/02 2:37:00 PM

Lab ID: 055085-005A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS		EPA 200.8				
RunID: ICP4_020130B	BatchID: R15074	PrepDate:		Analyst: NS		
Chromium	ND	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

020 5



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-21-2

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/8/02 1:55:00 PM

Lab ID: 055085-004A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B

BatchID: R15074

PrepDate:

Analyst: NS

Chromium

5.8

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA



Advanced Technology
Laboratories

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

019 4

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-21-3

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/8/02 12:02:00 PM

Lab ID: 055085-003A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
----------	--------	-------	------	-------	----	---------------

ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B

BatchID: R15074

PrepDate:

Analyst: NS

Chromium

7.0

5.0

µg/L

1.0

1/30/02

Lead

ND

1.0

µg/L

1.0

1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

013 Initials: RA

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Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories Client Sample ID: MW-21-4
Lab Order: 055085
Project: Sota Environmental Collection Date: 1/8/02 11:10:00 AM
Lab ID: 055085-002A Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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ICP-MS METALS

EPA 200.8

RunID: ICP4_020130B	BatchID: R15074	PrepDate:	Analyst: NS		
Chromium	6.9	5.0	µg/L	1.0	1/30/02
Lead	ND	1.0	µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA
C17 2



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-21-5

Lab Order: 055085

Project: Sota Environmental

Collection Date: 1/8/02 10:20:00 AM

Lab ID: 055085-001A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS		EPA 200.8				
RunID: ICP4_020130B	BatchID: R15074	PrepDate:			Analyst: NS	
Chromium	7.5	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA



Advanced Technology
Laboratories

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

Advanced Technology Laboratories

Print Date: 2/4/02

CLIENT: Applied P & Ch Laboratories **Client Sample ID:** ER-1 (Equip. Rinsate)
Lab Order: 055085
Project: Sota Environmental **Collection Date:** 1/9/02 12:15:00 PM
Lab ID: 055085-006A **Matrix:** Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS		EPA 200.8				
RunID: ICP4_020130B	BatchID: R15074	PrepDate:		Analyst: NS		
Chromium	ND	5.0		µg/L	1.0	1/30/02
Lead	ND	1.0		µg/L	1.0	1/30/02

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike/Surrogate outside of limits due to matrix interference.
J - Analyte detected below quantitation limits H - Samples exceeding analytical holding time
B - Analyte detected in the associated Method Blank E - Value above quantitation range
DO - Surrogate Diluted Out M - Not Monitored. Highly Reactive

Initials: RA
021

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Advanced Technology
Laboratories

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

Applied P & Ch Laboratory

13760 Magnolia Ave. Chino CA 91710

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

APCL Analytical Report

Submitted to:

SOTA Environmental

Attention: Yu Zeng

16835 W. Bernardo Dr, Ste. 212

San Diego CA 92127

Tel: (858)485-8100 Fax: (858)485-0812

Service ID #: 801-021731

Collected by:

Collected on: 02/22/02

Sample Description: Water

Project Description: 00HW019 JPL

Received: 02/22/02

Extracted: N/A

Tested: N/A

Reported: 03/14/02

Analysis of Water Samples

Component Analyzed	Method	Unit	PQL	Analysis Result
				MW-7
				02-01731-1
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

RECEIVED

MAR 15 2002

SOTA ENVIRONMENTAL

Client:	SOTA Envir. Tech., Inc.	Contact:	MISS SAYRE	Tel #:	858-485-8100	Fax #:	858-485-0812
Address:	16835 W. BERNARDO DR. #212	City:	SAN DIEGO	State:	CA	Zip code:	92127
Bill to:	SOTA						

Project Name/Code JPL Job # 00HWA019 P.O. # _____

Project Address	PASADENA, CALIFORNIA	APCL Quotation #
-----------------	----------------------	------------------

Due Date: ☐ regular ☐ rush: ___ days ___ hours Sampled by: MS

Field Sample	Sample	E	D	A

Field Sample	Sample	Date	Time	Sample	Preser- ✓	# of
--------------	--------	------	------	--------	--------------	------

ID No.	Description	Collected	Matrix	variation	Contain
AA-15					

MW-1	MW-1	2/27/02	1147	WATER	HCl	3
------	------	---------	------	-------	-----	---

2	203				
---	-----	--	--	--	--

[illegible][illegible]

1

A blank sheet of graph paper with a grid pattern. The grid consists of horizontal and vertical lines forming squares. There are approximately 20 columns and 10 rows visible. A diagonal line runs from the bottom-left towards the top-right, intersecting several grid squares.

[illegible][illegible][illegible][illegible]

Journal of Management Education 36(10) 1133-1150

[illegible][illegible][illegible][illegible][illegible][illegible]

QC requirement: ☐ regular, ☐ QA/QC report, ☐ WIP, ☐ Raw Data, ☐ Extended Raw Data, ☐ CLP;

sample Disposal: ☐ Return ☐ Disposal by APCL ☐ Hold for _____ days after receiving date. If

Sample Conditions:	Intact; ☐ Broken.	Cooler Seal:	Intact; ☐ Broken;	Tag #
ample Conditions:	☐ Intact; ☒ Broken.	Cooler Seal:	☐ Intact; ☐ Broken;	None . ☐ None .

Relinquished by _____ Date/Time 7/22/11 2:20 Received _____

7/24/2013 8:53 received

Relinquished by	Date/Time	Received

[illegible]

licants understand that all terms described in the proposals, quotations for this project, and/or the general terms pro

terminate its service or withhold delivery of any reports, if in APCL's sole discretion the terms of the project have

1991. Woom 4:101 Var 4 0 Dec 20, 1994.

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

Please Print in pen
Page 1 of 1

Bill to (if different from above) APCL Quotation # _____ Sample disposition: Date _____ ☐ client; ☐ APCL
 Due date ☒ regular ☐ rush P.O.# _____

Sample Description	Collected	Matrix	Fres.		Filtered	Analysis items	Unit Price*
			Y/N	Y/N			
MW-7	2/12/02						APCL Lab In

[illegible]

Relinquished by	Date/Time	Received by	Date/Time
Joseph A. Bellino	2/26/02	1100	2/26/02

[illegible]

* APCL must be notified if unit price is incorrect.

Advanced Technology Laboratories

Print Date: 3/1/02

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-7

Lab Order: 055580

Project: JPL/00HW019

Collection Date: 2/22/02 11:47:00 AM

Lab ID: 055580-001A

Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
ICP-MS METALS				EPA 200.8		
RunID: ICP4_020228B	BatchID: R15818			PrepDate:		Analyst: NS
Chromium	9.8	5.0		µg/L	1.0	2/28/02
Lead	ND	1.0		µg/L	1.0	2/28/02

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: RA

1



Advanced Technology
Laboratories

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



Advanced Technology Laboratories

CLIENT: Applied P & Ch Laboratories
Work Order: 055580
Project: JPL/00HW019

Date: 01-Mar-02

QC SUMMARY REPORT

Method Blank

Sample ID	MB-R15818	Batch ID	R15818	Test Name	ICPMS	METALS	Units	µg/L	Analysis Date	2/28/02	Prep Date:
MBLK							SeqNo:	242922			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium	ND	5.0		0				0			
Lead	ND	1.0		0				0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference

Initials: JCA /

All calculations are based on raw values.



Advanced Technology Laboratories

CLIENT: Applied P & Ch Laboratories
Work Order: 055580
Project: JPL/00HW019

Date: 01-Mar-02

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID 055580-001AMS Batch ID: R15818		Test Name ICPMS METALS				Units µg/L		Analysis Date: 2/28/02		Prep Date:	
MS						SeqNo: 242926					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Limit	RPD Ref Val	%RPD	RPDLimit
Chromium	19	5.0	10	9.8	92	80	120		0		
Lead	9.9	1.0	10	0	99	80	120		0		
Sample ID 055580-001AMS Batch ID: R15818		Test Name ICPMS METALS				Units µg/L		Analysis Date: 2/28/02		Prep Date:	
MSD						SeqNo: 242927					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Limit	RPD Ref Val	%RPD	RPDLimit
Chromium	18	5.0	10	9.8	81	80	120		19	6	20
Lead	9.5	1.0	10	0	95	80	120		9.9	4	20

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out
Initials: RA

All calculations are based on raw values.

Date: *01-Mar-02*

Advanced Technology Laboratories

CLIENT: Applied P & Ch Laboratories

Work Order: 055580

Project: JPL/00HW019

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID		LCS-R15818		Batch ID: R15818		Test Name ICPMS METALS				Units µg/L		Analysis Date: 2/28/02		Prep Date:	
LCS										SeqNo: 242923					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual				
Chromium	10	5.0	10	0	102	85	115	0							
Lead	10	1.0	10	0	100	85	115	0							

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits

D - Analyte detected in the associated Method Blank

M - Not Monitored. Highly Reactive

S - Spike/Surrogate outside of limits due to matrix interference

DO - Surrogate Diluted Out

Initials:

3

All calculations are based on raw values.