

**Applied P & Ch Laboratories**  
**Project: JPL GW Mon, 04.4428.10**

**ATL Work Order: 065632**

0001



*Advanced Technology*  
*Laboratories*

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

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0002



## Advanced Technology Laboratories

Date: 19-Nov-03

CLIENT: Applied P & Ch Laboratories

Project: JPL GW Mon, 04-4428.10

Lab Order: 065632

## CASE NARRATIVE

Results were J-Flag. "J" is used to flag those results that are between the PQL (Practical Quantitation Limit) and the calculated MDL (Method Detection Limit). Results that are "J" flagged are estimated values since it becomes difficult to accurately quantitate the analyte near the MDL.



# 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 1 of 3

Subcontract Lab: ATL Contact: Puri Tel #: (562) 989-4045 Fax #: (562) 989-4040  
Address: 3275 Walnut Avenue City: Signal Hill State: CA Zip code: 90807  
APCL Client: #5876 APCL Contact: Kenny Chan  
Project Name/Code: JPL GW Mon Job # 04-442810  
BILL TO APCL Sub Quotation # ---

| Field Sample ID No. | Sample Description (ID) | Date Collected | Sample Matrix | Preservation     | # of Containers | Analysis Items | White - With report<br>Yellow - Lab copy<br>Pink - Originator | Remarks |
|---------------------|-------------------------|----------------|---------------|------------------|-----------------|----------------|---------------------------------------------------------------|---------|
|                     | MW-20-5                 | 10/24/03 0733  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | MW-20-4                 | 10/24/03 0800  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | MW-20-3                 | 10/24/03 0849  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | MW-20-2                 | 10/24/03 0911  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | MW-20-1                 | 10/24/03 0949  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | EB-3-10-24-03           | 10/24/03 0841  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | Dupe-6-4-003            | 10/24/03 0929  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | MW-11-5                 | 10/22/03 0748  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | MW-11-4                 | 10/22/03 0810  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | MW-11-3                 | 10/22/03 0847  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | MW-11-2                 | 10/22/03 0910  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | MW-11-1                 | 10/22/03 0932  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | EB-1-10-22-03           | 10/22/03 0906  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | MW-22-5                 | 10/22/03 1021  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |
|                     | MW-22-4                 | 10/22/03 1041  | W             | HNO <sub>3</sub> | 1               |                |                                                               |         |

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☒ AFCEE ☒ NEESA D (E, C or D); ☐ Other 500 (Please specify)

Sample Disposal: ☐ Return ☐ Disposal by APCL ☐ Hold for --- days after receiving date.

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

Relinquished by [Signature] Date/Time 10/31/03 Received by [Signature] Date/Time 10/31/03

Relinquished by [Signature] Date/Time 10/31/03 Received by [Signature] Date/Time 10/31/03

APCL USE ONLY Service # --- Note: ---

Client's 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 materials if in default.

# Applied P & Ch Laboratory

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

# Subcontract Chain of Custody

Please Print in pen Page 2 of 3

Subcontract Lab: ATL Contact: Puri Tel #: (562) 989-4045 Fax #: (562) 989-4040  
 Address: 3235 Walnut Avenue City: Signal Hill State: CA Zip code: 90807  
 APCL Client: #5876 APCL Contact: Kenny Chan  
 Project Name/Code: JR GWO Mon Job # 04-4428-10  
 BILL TO APCL Sub Quotation # ---

| Field Sample ID No. | Sample Description | Date Collected | Sample Matrix | Preservation     | # of Containers | Analysis | Items | White - With report<br>Yellow - Lab copy<br>Pink - Originator | Remarks |
|---------------------|--------------------|----------------|---------------|------------------|-----------------|----------|-------|---------------------------------------------------------------|---------|
| NW-22-3             |                    | 102203 1100    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| NW-22-2             |                    | 102203 1120    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| NW-22-1             |                    | 102203 1140    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| NW-4-5              |                    | 102703 0714    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| NW-4-4              |                    | 102703 0839    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| NW-4-3              |                    | 102703 0901    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| NW-4-2              |                    | 102703 0920    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| NW-4-1              |                    | 102703 0946    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| Dupe-3-4-QQ3        |                    | 102703 0812    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| EB-4-10-27-Q3       |                    | 102703 0959    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| NW-24-5             |                    | 102803 0718    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| NW-24-4             |                    | 102803 0829    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| Dupe-1-4-QQ3        |                    | 102803 0821    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| NW-24-3             |                    | 102803 0946    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |
| NW-24-2             |                    | 102803 1011    | W             | HNO <sub>3</sub> | 1               |          |       |                                                               |         |

QC Requirement: ☐ Regular; ☐ QA/QC Report; ☐ WIP; ☐ Raw Data; ☐ Extended Raw Data ☐ CLP; ☐ ACE ☐ AFCEE ☒ NRESA ☐ (E, C or D); ☒ Other 500 (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 (24.0°C)

Relinquished by [Signature] Date/Time 10/21/13 Received by [Signature] Date/Time 10/21/13

Relinquished by [Signature] Date/Time 10/21/13 Received by [Signature] Date/Time 10/21/13

APCL USE ONLY Service # ---

Note: Client understands that all terms described in the proposal, 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 a party's default.



**Advanced Technology Laboratories**

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories**Project:** JPL GW Mon, 04-4428.10**Lab Order:** 065632**Contract No:****Work Order Sample Summary**

| Lab Sample ID | Client Sample ID | Matrix | Collection Date | Date Received | Date Reported |
|---------------|------------------|--------|-----------------|---------------|---------------|
| 065632-001A   | MW-20-5          | Water  | 10/24/2003      | 10/31/2003    | 11/10/2003    |
| 065632-002A   | MW-20-4          | Water  | 10/24/2003      | 10/31/2003    | 11/10/2003    |
| 065632-003A   | MW-20-3          | Water  | 10/24/2003      | 10/31/2003    | 11/10/2003    |
| 065632-004A   | MW-20-2          | Water  | 10/24/2003      | 10/31/2003    | 11/10/2003    |
| 065632-005A   | MW-20-1          | Water  | 10/24/2003      | 10/31/2003    | 11/10/2003    |
| 065632-006A   | EB-3-10-24-03    | Water  | 10/24/2003      | 10/31/2003    | 11/10/2003    |
| 065632-007A   | Dupe-6-4-Q03     | Water  | 10/24/2003      | 10/31/2003    | 11/10/2003    |
| 065632-008A   | MW-11-5          | Water  | 10/22/2003      | 10/31/2003    | 11/10/2003    |
| 065632-009A   | MW-11-4          | Water  | 10/22/2003      | 10/31/2003    | 11/10/2003    |
| 065632-010A   | MW-11-3          | Water  | 10/22/2003      | 10/31/2003    | 11/10/2003    |
| 065632-011A   | MW-11-2          | Water  | 10/22/2003      | 10/31/2003    | 11/10/2003    |
| 065632-012A   | MW-11-1          | Water  | 10/22/2003      | 10/31/2003    | 11/10/2003    |
| 065632-013A   | EB-1-10-22-03    | Water  | 10/22/2003      | 10/31/2003    | 11/10/2003    |
| 065632-014A   | MW-22-5          | Water  | 10/22/2003      | 10/31/2003    | 11/10/2003    |
| 065632-015A   | MW-22-4          | Water  | 10/22/2003      | 10/31/2003    | 11/10/2003    |
| 065632-016A   | MW-22-3          | Water  | 10/22/2003      | 10/31/2003    | 11/10/2003    |
| 065632-017A   | MW-22-2          | Water  | 10/22/2003      | 10/31/2003    | 11/10/2003    |
| 065632-018A   | MW-22-1          | Water  | 10/22/2003      | 10/31/2003    | 11/10/2003    |
| 065632-019A   | MW-4-5           | Water  | 10/27/2003      | 10/31/2003    | 11/10/2003    |
| 065632-020A   | MW-4-4           | Water  | 10/27/2003      | 10/31/2003    | 11/10/2003    |
| 065632-021A   | MW-4-3           | Water  | 10/27/2003      | 10/31/2003    | 11/10/2003    |
| 065632-022A   | MW-4-2           | Water  | 10/27/2003      | 10/31/2003    | 11/10/2003    |
| 065632-023A   | MW-4-1           | Water  | 10/27/2003      | 10/31/2003    | 11/10/2003    |
| 065632-024A   | Dupe-3-4-Q03     | Water  | 10/27/2003      | 10/31/2003    | 11/10/2003    |
| 065632-025A   | EB-4-10-27-03    | Water  | 10/27/2003      | 10/31/2003    | 11/10/2003    |
| 065632-026A   | MW-24-5          | Water  | 10/28/2003      | 10/31/2003    | 11/10/2003    |
| 065632-027A   | MW-24-4          | Water  | 10/28/2003      | 10/31/2003    | 11/10/2003    |
| 065632-028A   | Dupe-1-4Q03      | Water  | 10/28/2003      | 10/31/2003    | 11/10/2003    |
| 065632-029A   | MW-24-3          | Water  | 10/28/2003      | 10/31/2003    | 11/10/2003    |



**CLIENT:** Applied P & Ch Laboratories

**Project:** JPL GW Mon, 04-4428.10

**Lab Order:** 065632

**Contract No:**

## Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date | Date Received | Date Reported |
|---------------|------------------|--------|-----------------|---------------|---------------|
| 065632-030A   | MW-24-2          | Water  | 10/28/2003      | 10/31/2003    | 11/10/2003    |
| 065632-031A   | MW-24-1          | Water  | 10/28/2003      | 10/31/2003    | 11/10/2003    |
| 065632-032A   | EB-5-10-28-03    | Water  | 10/28/2003      | 10/31/2003    | 11/10/2003    |
| 065632-033A   | MW-18-5          | Water  | 10/29/2003      | 10/31/2003    | 11/10/2003    |
| 065632-034A   | MW-18-4          | Water  | 10/29/2003      | 10/31/2003    | 11/10/2003    |
| 065632-035A   | MW-18-3          | Water  | 10/29/2003      | 10/31/2003    | 11/10/2003    |
| 065632-036A   | MW-18-2          | Water  | 10/29/2003      | 10/31/2003    | 11/10/2003    |
| 065632-037A   | MW-18-1          | Water  | 10/29/2003      | 10/31/2003    | 11/10/2003    |
| 065632-038A   | EB-6-10-29-03    | Water  | 10/29/2003      | 10/31/2003    | 11/10/2003    |
| 065632-039A   | MW-19-5          | Water  | 10/29/2003      | 10/31/2003    | 11/10/2003    |
| 065632-040A   | MW-19-4          | Water  | 10/29/2003      | 10/31/2003    | 11/10/2003    |
| 065632-041A   | MW-19-3          | Water  | 10/29/2003      | 10/31/2003    | 11/10/2003    |
| 065632-042A   | MW-19-2          | Water  | 10/29/2003      | 10/31/2003    | 11/10/2003    |
| 065632-043A   | MW-19-1          | Water  | 10/29/2003      | 10/31/2003    | 11/10/2003    |





# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-001A

**Client Sample ID:** MW-20-5  
**Collection Date:** 10/24/2003 7:33:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |     |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031104B  | QC Batch: R32245 |      | PrepDate:        |     |       |                    |                      |
| Chromium             | 1.3              |      | 0.11             | 1.0 | µg/L  | 1                  | 11/4/2003 3:18:39 PM |

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

Results are wet unless otherwise specified

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Advanced Technology  
Laboratories

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

# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-002A

**Client Sample ID:** MW-20-4  
**Collection Date:** 10/24/2003 8:00:00 AM  
**Matrix:** WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031104B | QC Batch: | R32245 | PrepDate: |     |       |             |                      |
| Chromium            | 1.6       |        | 0.11      | 1.0 | µg/L  | 1           | 11/4/2003 3:21:08 PM |

**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-Samples exceed holding time

Results are wet unless otherwise specified

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0011



Advanced Technology  
Laboratories

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

# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-003A

**Client Sample ID:** MW-20-3  
**Collection Date:** 10/24/2003 8:49:00 AM  
**Matrix:** WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031104B | QC Batch: | R32245 | PrepDate: |     |       |             |                      |
| Chromium            | 2.9       |        | 0.11      | 1.0 | µg/L  | 1           | 11/4/2003 3:23:38 PM |

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

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Results are wet unless otherwise specified



Advanced Technology  
Laboratories

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

0012

# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-004A

**Client Sample ID:** MW-20-2  
**Collection Date:** 10/24/2003 9:11:00 AM  
**Matrix:** WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031104B | QC Batch: | R32245 | PrepDate: |     |       |             |                      |
| Chromium            | 1.3       |        | 0.11      | 1.0 | µg/L  | 1           | 11/4/2003 3:26:08 PM |

**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-Samples exceed holding time

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Advanced Technology  
Laboratories

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

0013

# Advanced Technology Laboratories

Date: 17-Nov-03

CLIENT: Applied P & Ch Laboratories  
Lab Order: 065632  
Project: JPL GW Mon, 04-4428.10  
Lab ID: 065632-005A

Client Sample ID: MW-20-1  
Collection Date: 10/24/2003 9:49:00 AM  
Matrix: WATER

| Analyte             | Result           | Qual | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|------------------|------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |                  |      | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031104B | QC Batch: R32245 |      | PrepDate: |     |       |             |                      |
| Chromium            | 1.9              |      | 0.11      | 1.0 | µg/L  | 1           | 11/4/2003 3:28:38 PM |

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

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Advanced Technology  
Laboratories

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

0014

# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-006A

**Client Sample ID:** EB-3-10-24-03

**Collection Date:** 10/24/2003 8:41:00 AM

**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |     |       | Analyst: <b>NS</b> |                      |
| RunID: ICP4_031104B  | QC Batch: R32245 |      | PrepDate:        |     |       |                    |                      |
| Chromium             | ND               |      | 0.11             | 1.0 | µg/L  | 1                  | 11/4/2003 3:31:09 PM |

**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-Samples exceed holding time

Page 1 of 1

Results are wet unless otherwise specified



Advanced Technology  
Laboratories

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

0015

# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-007A

**Client Sample ID:** Dupe-6-4-Q03  
**Collection Date:** 10/24/2003 9:29:00 AM  
**Matrix:** WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031104B | QC Batch: | R32245 | PrepDate: |     |       |             |                      |
| Chromium            | 1.4       |        | 0.11      | 1.0 | µg/L  | 1           | 11/4/2003 3:33:41 PM |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
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\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
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H-Samples exceed holding time

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Advanced Technology  
Laboratories

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

# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-008A

**Client Sample ID:** MW-11-5  
**Collection Date:** 10/22/2003 7:48:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL                | Units | DF | Date Analyzed        |
|----------------------|------------------|------|------------------|--------------------|-------|----|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> | <b>Analyst: NS</b> |       |    |                      |
| RunID: ICP4_031104B  | QC Batch: R32245 |      | PrepDate:        |                    |       |    |                      |
| Chromium             | 1.5              |      | 0.11             | 1.0                | µg/L  | 1  | 11/4/2003 3:36:12 PM |

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

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0017



# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-009A

**Client Sample ID:** MW-11-4  
**Collection Date:** 10/22/2003 8:10:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual             | MDL  | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------------------|------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  | <b>EPA 200.8</b> |      |     |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031104B  | QC Batch: R32245 | PrepDate:        |      |     |       |                    |                      |
| Chromium             | 0.8              | J                | 0.11 | 1.0 | µg/L  | 1                  | 11/4/2003 3:43:54 PM |

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

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0018



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# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-010A

**Client Sample ID:** MW-11-3  
**Collection Date:** 10/22/2003 8:47:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |     |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031104B  | QC Batch: R32245 |      | PrepDate:        |     |       |                    |                      |
| Chromium             | 3.4              |      | 0.11             | 1.0 | µg/L  | 1                  | 11/4/2003 3:46:27 PM |

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

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0019

# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-011A

**Client Sample ID:** MW-11-2  
**Collection Date:** 10/22/2003 9:10:00 AM  
**Matrix:** WATER

| Analyte             | Result           | Qual | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|------------------|------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |                  |      | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031104B | QC Batch: R32245 |      | PrepDate: |     |       |             |                      |
| Chromium            | 1                | J    | 0.22      | 2.0 | µg/L  | 2           | 11/4/2003 4:38:59 PM |

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

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# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-012A

**Client Sample ID:** MW-11-1  
**Collection Date:** 10/22/2003 9:32:00 AM  
**Matrix:** WATER

| Analyte             | Result           | Qual | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|------------------|------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |                  |      | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031104B | QC Batch: R32245 |      | PrepDate: |     |       |             |                      |
| Chromium            | 2                | J    | 0.22      | 2.0 | µg/L  | 2           | 11/4/2003 4:41:32 PM |

**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-Samples exceed holding time

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# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-013A

**Client Sample ID:** EB-1-10-22-03  
**Collection Date:** 10/22/2003 9:00:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |     |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031104B  | QC Batch: R32245 |      | PrepDate:        |     |       |                    |                      |
| Chromium             | ND               |      | 0.11             | 1.0 | µg/L  | 1                  | 11/4/2003 3:56:39 PM |

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

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# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-014A

**Client Sample ID:** MW-22-5

**Collection Date:** 10/22/2003 10:21:00 AM  
**Matrix:** WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031104B | QC Batch: | R32245 | PrepDate: |     |       |             |                      |
| Chromium            | 0.7       | J      | 0.11      | 1.0 | µg/L  | 1           | 11/4/2003 3:59:06 PM |

**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-Samples exceed holding time

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# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-015A

**Client Sample ID:** MW-22-4  
**Collection Date:** 10/22/2003 10:41:00 AM  
**Matrix:** WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031104B | QC Batch: | R32245 | PrepDate: |     |       |             |                      |
| Chromium            | 3.1       |        | 0.22      | 2.0 | µg/L  | 2           | 11/4/2003 4:44:05 PM |

**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-Samples exceed holding time

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# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-016A

**Client Sample ID:** MW-22-3  
**Collection Date:** 10/22/2003 11:00:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |     |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031104B  | QC Batch: R32245 |      | PrepDate:        |     |       |                    |                      |
| Chromium             | 3.2              |      | 0.22             | 2.0 | µg/L  | 2                  | 11/4/2003 4:46:39 PM |

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

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# Advanced Technology Laboratories

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-017A

**Client Sample ID:** MW-22-2  
**Collection Date:** 10/22/2003 11:20:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL       | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----------|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |           |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031104B  | QC Batch: R32245 |      |                  | PrepDate: |       |                    |                      |
| Chromium             | 0.9              | J    | 0.56             | 5.0       | µg/L  | 5                  | 11/4/2003 5:09:44 PM |

**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  
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# Advanced Technology Laboratories

Date: 17-Nov-03

CLIENT: Applied P & Ch Laboratories  
Lab Order: 065632  
Project: JPL GW Mon, 04-4428.10  
Lab ID: 065632-018A

Client Sample ID: MW-22-1  
Collection Date: 10/22/2003 11:40:00 AM  
Matrix: WATER

| Analyte             | Result           | Qual | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|------------------|------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |                  |      | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031104B | QC Batch: R32245 |      | PrepDate: |     |       |             |                      |
| Chromium            | 3                | J    | 0.56      | 5.0 | µg/L  | 5           | 11/4/2003 5:12:14 PM |

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-Samples exceed holding time

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0027

**Advanced Technology Laboratories**

Date: 17-Nov-03

**CLIENT:** Applied P & Ch Laboratories**Client Sample ID:** MW-4-5**Lab Order:** 065632**Project:** JPL GW Mon, 04-4428.10**Collection Date:** 10/27/2003 7:44:00 AM**Lab ID:** 065632-019A**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL       | Units | DF | Date Analyzed        |
|----------------------|------------------|------|------------------|-----------|-------|----|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |           |       |    | <b>Analyst: NS</b>   |
| RunID: ICP4_031104B  | QC Batch: R32245 |      |                  | PrepDate: |       |    |                      |
| Chromium             | 3.5              |      | 0.11             | 1.0       | µg/L  | 1  | 11/4/2003 4:16:39 PM |

**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-Samples exceed holding time

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# Advanced Technology Laboratories

Date: 10-Nov-03

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-4-4

Lab Order: 065632

Project: JPL GW Mon, 04-4428.10

Collection Date: 10/27/2003 8:39:00 AM

Lab ID: 065632-020A

Matrix: WATER

| Analyte             | Result           | Qual | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|------------------|------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |                  |      | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031105C | QC Batch: R32300 |      | PrepDate: |     |       |             |                      |
| Chromium            | 2.4              |      | 0.11      | 1.0 | µg/L  | 1           | 11/5/2003 11:58:43 A |

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

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0029



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# Advanced Technology Laboratories

Date: 10-Nov-03

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-4-3

Lab Order: 065632

Project: JPL GW Mon, 04-4428.10

Collection Date: 10/27/2003 9:01:00 AM

Lab ID: 065632-021A

Matrix: WATER

| Analyte             | Result          | Qual | MDL       | PQL                 | Units       | DF | Date Analyzed        |
|---------------------|-----------------|------|-----------|---------------------|-------------|----|----------------------|
| ICP-MS METALS       |                 |      | EPA 200.8 | (EPA 200.8)         | Analyst: NS |    |                      |
| RunID: ICP4_031105D | QC Batch: 15669 |      |           | PrepDate: 11/5/2003 |             |    |                      |
| Chromium            | 0.4             | J    | 0.11      | 1.0                 | µg/L        | 1  | 11/5/2003 2:28:26 PM |

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-Samples exceed holding time

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0030



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# Advanced Technology Laboratories

Date: 10-Nov-03

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-4-2

Lab Order: 065632

Project: JPL GW Mon, 04-4428.10

Collection Date: 10/27/2003 9:20:00 AM

Lab ID: 065632-022A

Matrix: WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: | R32298 | PrepDate: |     |       |             |                      |
| Chromium            | 3.7       |        | 0.11      | 1.0 | µg/L  | 1           | 11/5/2003 10:38:18 A |

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-Samples exceed holding time

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# Advanced Technology Laboratories

Date: 10-Nov-03

CLIENT: Applied P & Ch Laboratories

Client Sample ID: MW-4-1

Lab Order: 065632

Project: JPL GW Mon, 04-4428.10

Collection Date: 10/27/2003 9:46:00 AM

Lab ID: 065632-023A

Matrix: WATER

| Analyte             | Result           | Qual | MDL       | PQL       | Units | DF          | Date Analyzed        |
|---------------------|------------------|------|-----------|-----------|-------|-------------|----------------------|
| ICP-MS METALS       |                  |      | EPA 200.8 |           |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: R32298 |      |           | PrepDate: |       |             |                      |
| Chromium            | 2.6              |      | 0.11      | 1.0       | µg/L  | 1           | 11/5/2003 10:40:47 A |

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

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0032



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# Advanced Technology Laboratories

Date: 10-Nov-03

CLIENT: Applied P & Ch Laboratories

Client Sample ID: Dupe-3-4-Q03

Lab Order: 065632

Project: JPL GW Mon, 04-4428.10

Collection Date: 10/27/2003 8:12:00 AM

Lab ID: 065632-024A

Matrix: WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: | R32298 | PrepDate: |     |       |             |                      |
| Chromium            | 5.6       |        | 0.11      | 1.0 | µg/L  | 1           | 11/5/2003 10:43:17 A |

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

H-Samples exceed holding time

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0033



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**Advanced Technology Laboratories**

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories**Client Sample ID:** EB-4-10-27-03**Lab Order:** 065632**Project:** JPL GW Mon, 04-4428.10**Collection Date:** 10/27/2003 9:59:00 AM**Lab ID:** 065632-025A**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |     |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031105B  | QC Batch: R32298 |      | PrepDate:        |     |       |                    |                      |
| Chromium             | ND               |      | 0.11             | 1.0 | µg/L  | 1                  | 11/5/2003 10:45:47 A |

**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-Samples exceed holding time

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# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-026A

**Client Sample ID:** MW-24-5  
**Collection Date:** 10/28/2003 7:58:00 AM  
**Matrix:** WATER

| Analyte             | Result           | Qual | MDL       | PQL       | Units | DF          | Date Analyzed        |
|---------------------|------------------|------|-----------|-----------|-------|-------------|----------------------|
| ICP-MS METALS       |                  |      | EPA 200.8 |           |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: R32298 |      |           | PrepDate: |       |             |                      |
| Chromium            | 3.7              |      | 0.11      | 1.0       | µg/L  | 1           | 11/5/2003 10:48:17 A |

**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-Samples exceed holding time

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# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-027A

**Client Sample ID:** MW-24-4  
**Collection Date:** 10/28/2003 8:29:00 AM  
**Matrix:** WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: | R32298 | PrepDate: |     |       |             |                      |
| Chromium            | 1.2       |        | 0.11      | 1.0 | µg/L  | 1           | 11/5/2003 10:50:48 A |

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

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# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-028A

**Client Sample ID:** Dupe-1-4Q03  
**Collection Date:** 10/28/2003 9:21:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |     |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031105B  | QC Batch: R32298 |      | PrepDate:        |     |       |                    |                      |
| Chromium             | 1.1              |      | 0.11             | 1.0 | µg/L  | 1                  | 11/5/2003 10:53:19 A |

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

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**Advanced Technology Laboratories**

Date: 10-Nov-03

CLIENT: Applied P &amp; Ch Laboratories

Client Sample ID: MW-24-3

Lab Order: 065632

Project: JPL GW Mon, 04-4428.10

Collection Date: 10/28/2003 9:46:00 AM

Lab ID: 065632-029A

Matrix: WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: | R32298 | PrepDate: |     |       |             |                      |
| Chromium            | 1.7       |        | 0.11      | 1.0 | µg/L  | 1           | 11/5/2003 10:55:51 A |

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-Samples exceed holding time

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Results are wet unless otherwise specified

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**Advanced Technology Laboratories**

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-030A

**Client Sample ID:** MW-24-2  
**Collection Date:** 10/28/2003 10:11:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL       | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----------|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |           |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031105B  | QC Batch: R32298 |      |                  | PrepDate: |       |                    |                      |
| Chromium             | 2.7              |      | 0.11             | 1.0       | µg/L  | 1                  | 11/5/2003 11:03:33 A |

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

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Results are wet unless otherwise specified

0039



# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-031A

**Client Sample ID:** MW-24-1  
**Collection Date:** 10/28/2003 10:41:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |     |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031105B  | QC Batch: R32298 |      | PrepDate:        |     |       |                    |                      |
| Chromium             | 4.0              |      | 0.11             | 1.0 | µg/L  | 1                  | 11/5/2003 11:08:39 A |

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

Results are wet unless otherwise specified

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Advanced Technology  
Laboratories

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# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-032A

**Client Sample ID:** EB-5-10-28-03  
**Collection Date:** 10/28/2003 10:30:00 AM  
**Matrix:** WATER

| Analyte             | Result           | Qual | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|------------------|------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |                  |      | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: R32298 |      | PrepDate: |     |       |             |                      |
| Chromium            | ND               |      | 0.11      | 1.0 | µg/L  | 1           | 11/5/2003 11:11:13 A |

**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-Samples exceed holding time

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Results are wet unless otherwise specified

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Advanced Technology  
Laboratories

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



# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-033A

**Client Sample ID:** MW-18-5  
**Collection Date:** 10/29/2003 7:46:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |     |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031105B  | QC Batch: R32298 |      | PrepDate:        |     |       |                    |                      |
| Chromium             | 1.0              |      | 0.11             | 1.0 | µg/L  | 1                  | 11/5/2003 11:13:47 A |

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

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Results are wet unless otherwise specified

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Advanced Technology  
Laboratories

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# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-034A

**Client Sample ID:** MW-18-4  
**Collection Date:** 10/29/2003 8:14:00 AM  
**Matrix:** WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: | R32298 | PrepDate: |     |       |             |                      |
| Chromium            | 2.6       |        | 0.11      | 1.0 | µg/L  | 1           | 11/5/2003 11:16:18 A |

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

Results are wet unless otherwise specified

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# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-035A

**Client Sample ID:** MW-18-3  
**Collection Date:** 10/29/2003 8:41:00 AM  
**Matrix:** WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: | R32298 | PrepDate: |     |       |             |                      |
| Chromium            | 5.9       |        | 0.11      | 1.0 | µg/L  | 1           | 11/5/2003 11:18:45 A |

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

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Results are wet unless otherwise specified



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0044

# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-036A

**Client Sample ID:** MW-18-2  
**Collection Date:** 10/29/2003 9:06:00 AM  
**Matrix:** WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: | R32298 | PrepDate: |     |       |             |                      |
| Chromium            | 1.9       |        | 0.11      | 1.0 | µg/L  | 1           | 11/5/2003 11:21:13 A |

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

Results are wet unless otherwise specified

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**Advanced Technology Laboratories**

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-037A

**Client Sample ID:** MW-18-1  
**Collection Date:** 10/29/2003 9:55:00 AM  
**Matrix:** WATER

| Analyte             | Result           | Qual | MDL       | PQL       | Units | DF          | Date Analyzed        |
|---------------------|------------------|------|-----------|-----------|-------|-------------|----------------------|
| ICP-MS METALS       |                  |      | EPA 200.8 |           |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: R32298 |      |           | PrepDate: |       |             |                      |
| Chromium            | 1.5              |      | 0.11      | 1.0       | µg/L  | 1           | 11/5/2003 11:26:10 A |

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

Results are wet unless otherwise specified

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# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-038A

**Client Sample ID:** EB-6-10-29-03  
**Collection Date:** 10/29/2003 9:45:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |     |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031105B  | QC Batch: R32298 |      | PrepDate:        |     |       |                    |                      |
| Chromium             | ND               |      | 0.11             | 1.0 | µg/L  | 1                  | 11/5/2003 11:33:48 A |

**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-Samples exceed holding time

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Results are wet unless otherwise specified

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# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-039A

**Client Sample ID:** MW-19-5  
**Collection Date:** 10/29/2003 11:17:00 AM  
**Matrix:** WATER

| Analyte             | Result    | Qual   | MDL       | PQL | Units | DF          | Date Analyzed        |
|---------------------|-----------|--------|-----------|-----|-------|-------------|----------------------|
| ICP-MS METALS       |           |        | EPA 200.8 |     |       | Analyst: NS |                      |
| RunID: ICP4_031105B | QC Batch: | R32298 | PrepDate: |     |       |             |                      |
| Chromium            | 1.8       |        | 0.11      | 1.0 | µg/L  | 1           | 11/5/2003 11:36:18 A |

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

Results are wet unless otherwise specified

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Laboratories

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# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-040A

**Client Sample ID:** MW-19-4  
**Collection Date:** 10/29/2003 11:40:00 AM  
**Matrix:** WATER

| Analyte              | Result           | Qual      | MDL              | PQL                | Units | DF | Date Analyzed        |
|----------------------|------------------|-----------|------------------|--------------------|-------|----|----------------------|
| <b>ICP-MS METALS</b> |                  |           | <b>EPA 200.8</b> | <b>Analyst: NS</b> |       |    |                      |
| RunID: ICP4_031105B  | QC Batch: R32298 | PrepDate: |                  |                    |       |    |                      |
| Chromium             | 2.4              |           | 0.11             | 1.0                | µg/L  | 1  | 11/5/2003 11:38:48 A |

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

Results are wet unless otherwise specified

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**Advanced Technology Laboratories**

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-041A

**Client Sample ID:** MW-19-3  
**Collection Date:** 10/29/2003 12:10:00 PM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL       | Units | DF | Date Analyzed        |
|----------------------|------------------|------|------------------|-----------|-------|----|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |           |       |    | <b>Analyst: NS</b>   |
| RunID: ICP4_031103A  | QC Batch: R32245 |      |                  | PrepDate: |       |    |                      |
| Chromium             | 4.3              |      | 0.22             | 2.0       | µg/L  | 2  | 11/3/2003 4:54:04 PM |

**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-Samples exceed holding time

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Results are wet unless otherwise specified

0050



# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-042A

**Client Sample ID:** MW-19-2  
**Collection Date:** 10/29/2003 12:50:00 PM  
**Matrix:** WATER

| Analyte              | Result           | Qual      | MDL              | PQL                | Units | DF | Date Analyzed        |
|----------------------|------------------|-----------|------------------|--------------------|-------|----|----------------------|
| <b>ICP-MS METALS</b> |                  |           | <b>EPA 200.8</b> | <b>Analyst: NS</b> |       |    |                      |
| RunID: ICP4_031105C  | QC Batch: R32300 | PrepDate: |                  |                    |       |    |                      |
| Chromium             | 4.0              |           | 0.11             | 1.0                | µg/L  | 1  | 11/5/2003 12:01:16 P |

**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-Samples exceed holding time

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Results are wet unless otherwise specified

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Advanced Technology  
Laboratories

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

# Advanced Technology Laboratories

Date: 10-Nov-03

**CLIENT:** Applied P & Ch Laboratories  
**Lab Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10  
**Lab ID:** 065632-043A

**Client Sample ID:** MW-19-1  
**Collection Date:** 10/29/2003 1:13:00 PM  
**Matrix:** WATER

| Analyte              | Result           | Qual | MDL              | PQL | Units | DF                 | Date Analyzed        |
|----------------------|------------------|------|------------------|-----|-------|--------------------|----------------------|
| <b>ICP-MS METALS</b> |                  |      | <b>EPA 200.8</b> |     |       | <b>Analyst: NS</b> |                      |
| RunID: ICP4_031105C  | QC Batch: R32300 |      | PrepDate:        |     |       |                    |                      |
| Chromium             | 1.2              |      | 0.11             | 1.0 | µg/L  | 1                  | 11/5/2003 12:03:50 P |

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

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Results are wet unless otherwise specified

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# Advanced Technology Laboratories

Date: 10-Nov-03

Advanced Technology  
Laboratories

CLIENT: Applied P & Ch Laboratories  
Work Order: 065632  
Project: JPL GW Mon, 04-4428.10

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8\_W

|                      |                  |                   |             |                          |                                                        |
|----------------------|------------------|-------------------|-------------|--------------------------|--------------------------------------------------------|
| Sample ID: MB-R32245 | SampType: MBLK   | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031103A                                   |
| Client ID: ZZZZZ     | Batch ID: R32245 | TestNo: EPA 200.8 |             | Analysis Date: 11/3/2003 | SeqNo: 480088                                          |
| Analyte              | Result           | PQL               | SPK value   | SPK Ref Val              | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium             | ND               | 1.0               |             |                          |                                                        |

|                      |                  |                   |             |                          |                                                        |
|----------------------|------------------|-------------------|-------------|--------------------------|--------------------------------------------------------|
| Sample ID: MB-R32298 | SampType: MBLK   | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031105B                                   |
| Client ID: ZZZZZ     | Batch ID: R32298 | TestNo: EPA 200.8 |             | Analysis Date: 11/5/2003 | SeqNo: 480810                                          |
| Analyte              | Result           | PQL               | SPK value   | SPK Ref Val              | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium             | ND               | 1.0               |             |                          |                                                        |

|                      |                  |                   |             |                          |                                                        |
|----------------------|------------------|-------------------|-------------|--------------------------|--------------------------------------------------------|
| Sample ID: MB-R32300 | SampType: MBLK   | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031105C                                   |
| Client ID: ZZZZZ     | Batch ID: R32300 | TestNo: EPA 200.8 |             | Analysis Date: 11/5/2003 | SeqNo: 480886                                          |
| Analyte              | Result           | PQL               | SPK value   | SPK Ref Val              | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium             | 0.461            | 1.0               |             |                          |                                                        |

|                     |                 |                               |             |                          |                                                        |
|---------------------|-----------------|-------------------------------|-------------|--------------------------|--------------------------------------------------------|
| Sample ID: MB-15669 | SampType: MBLK  | TestCode: 200.8_W             | Units: µg/L | Prep Date:               | Run ID: ICP4_031105D                                   |
| Client ID: ZZZZZ    | Batch ID: 15669 | TestNo: EPA 200.8 (EPA 200.8) |             | Analysis Date: 11/5/2003 | SeqNo: 480892                                          |
| Analyte             | Result          | PQL                           | SPK value   | SPK Ref Val              | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium            | 0.1825          | 1.0                           |             |                          |                                                        |

|                       |                  |                   |             |                          |                                                        |
|-----------------------|------------------|-------------------|-------------|--------------------------|--------------------------------------------------------|
| Sample ID: LCS-R32245 | SampType: LCS    | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031103A                                   |
| Client ID: ZZZZZ      | Batch ID: R32245 | TestNo: EPA 200.8 |             | Analysis Date: 11/3/2003 | SeqNo: 480087                                          |
| Analyte               | Result           | PQL               | SPK value   | SPK Ref Val              | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium              | 10.15            | 1.0               | 10          | 0                        | 102 85 115 0 0                                         |

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  
DO - Surrogate dilute out  
H - Sample exceeded holding time  
Calculations are based on raw values

0053



CLIENT: Applied P & Ch Laboratories  
Work Order: 065632  
Project: JPL GW Mon, 04-4428.10

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8\_W

|                       |                  |                   |             |                          |                                                        |
|-----------------------|------------------|-------------------|-------------|--------------------------|--------------------------------------------------------|
| Sample ID: LCS-R32298 | Sample Type: LCS | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031105B                                   |
| Client ID: ZZZZZ      | Batch ID: R32298 | TestNo: EPA 200.8 |             | Analysis Date: 11/5/2003 | SeqNo: 480809                                          |
| Analyte               | Result           | PQL               | SPK value   | SPK Ref Val              | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium              | 10.15            | 1.0               | 10          | 0                        | 101 85 115 0 0                                         |

|                       |                  |                   |             |                          |                                                        |
|-----------------------|------------------|-------------------|-------------|--------------------------|--------------------------------------------------------|
| Sample ID: LCS-R32300 | Sample Type: LCS | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031105C                                   |
| Client ID: ZZZZZ      | Batch ID: R32300 | TestNo: EPA 200.8 |             | Analysis Date: 11/5/2003 | SeqNo: 480885                                          |
| Analyte               | Result           | PQL               | SPK value   | SPK Ref Val              | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium              | 10.46            | 1.0               | 10          | 0                        | 105 85 115 0 0                                         |

|                      |                  |                   |             |                          |                                                        |
|----------------------|------------------|-------------------|-------------|--------------------------|--------------------------------------------------------|
| Sample ID: LCS-15669 | Sample Type: LCS | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031105D                                   |
| Client ID: ZZZZZ     | Batch ID: 15669  | TestNo: EPA 200.8 | (EPA 200.8) | Analysis Date: 11/5/2003 | SeqNo: 480891                                          |
| Analyte              | Result           | PQL               | SPK value   | SPK Ref Val              | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium             | 10.42            | 1.0               | 10          | 0                        | 104 85 115 0 0                                         |

|                          |                  |                   |             |                          |                                                        |
|--------------------------|------------------|-------------------|-------------|--------------------------|--------------------------------------------------------|
| Sample ID: 065632-041AMS | Sample Type: MS  | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031103A                                   |
| Client ID: MW-19-3       | Batch ID: R32245 | TestNo: EPA 200.8 |             | Analysis Date: 11/3/2003 | SeqNo: 480085                                          |
| Analyte                  | Result           | PQL               | SPK value   | SPK Ref Val              | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                 | 11.12            | 4.0               | 10          | 4.286                    | 68.4 80 120 0 0 S                                      |

|                          |                  |                   |             |                          |                                                        |
|--------------------------|------------------|-------------------|-------------|--------------------------|--------------------------------------------------------|
| Sample ID: 065632-036AMS | Sample Type: MS  | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031105B                                   |
| Client ID: MW-18-2       | Batch ID: R32298 | TestNo: EPA 200.8 |             | Analysis Date: 11/5/2003 | SeqNo: 480803                                          |
| Analyte                  | Result           | PQL               | SPK value   | SPK Ref Val              | %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual |
| Chromium                 | 10.67            | 1.0               | 10          | 1.936                    | 87.4 80 120 0 0                                        |

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

0054



**CLIENT:** Applied P & Ch Laboratories  
**Work Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10

## ANALYTICAL QC SUMMARY REPORT

**TestCode:** 200.8\_W

|                          |        |                  |           |                   |      |                          |           |             |      |                      |      |               |  |
|--------------------------|--------|------------------|-----------|-------------------|------|--------------------------|-----------|-------------|------|----------------------|------|---------------|--|
| Sample ID: 065632-043AMS |        | SampleType: MS   |           | TestCode: 200.8_W |      | Units: µg/L              |           | Prep Date:  |      | Run ID: ICP4_031105C |      |               |  |
| Client ID: MW-19-1       |        | Batch ID: R32300 |           | TestNo: EPA 200.8 |      | Analysis Date: 11/5/2003 |           |             |      |                      |      | SeqNo: 480888 |  |
| Analyte                  | Result | PQL              | SPK value | SPK Ref Val       | %REC | LowLimit                 | HighLimit | RPD Ref Val | %RPD | RPDLimit             | Qual |               |  |
| Chromium                 | 9.976  | 1.0              | 10        | 1.15              | 88.3 | 80                       | 120       | 0           | 0    | 0                    |      |               |  |

|                          |                 |                   |             |                          |                      |          |           |             |      |          |      |
|--------------------------|-----------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 065632-021AMS | SampType: MS    | TestCode: 200.8_W | Units: µg/L | Prep Date: 11/5/2003     | Run ID: ICP4_031105D |          |           |             |      |          |      |
| Client ID: MW-4-3        | Batch ID: 15669 | TestNo: EPA 200.8 | (EPA 200.8) | Analysis Date: 11/5/2003 | SeqNo: 480894        |          |           |             |      |          |      |
| Analyte                  | Result          | PQL               | SPK value   | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium                 | 9.848           | 1.0               | 10          | 0.3625                   | 94.8                 | 80       | 120       | 0           | 0    | 0        |      |

|                           |                  |                   |             |                          |                      |          |           |             |      |          |      |
|---------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 065632-041AMSD | SampleType: MSD  | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031103A |          |           |             |      |          |      |
| Client ID: MW-19-3        | Batch ID: R32245 | TestNo: EPA 200.8 |             | Analysis Date: 11/3/2003 | SeqNo: 480886        |          |           |             |      |          |      |
| Analyte                   | Result           | PQL               | SPK value   | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium                  | 11.56            | 4.0               | 10          | 4.286                    | 72.8                 | 80       | 120       | 11.12       | 3.88 | 20       | S    |

|                           |                  |                   |             |                          |                      |          |           |             |       |          |      |
|---------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: 065632-036AMSD | SampType: MSD    | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031105B |          |           |             |       |          |      |
| Client ID: MW-18-2        | Batch ID: R32298 | TestNo: EPA 200.8 |             | Analysis Date: 11/5/2003 | SeqNo: 480804        |          |           |             |       |          |      |
| Analyte                   | Result           | PQL               | SPK value   | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Chromium                  | 10.62            | 1.0               | 10          | 1.936                    | 86.8                 | 80       | 120       | 10.67       | 0.526 | 20       |      |

|                           |                  |                   |             |                          |                      |          |           |             |       |          |      |
|---------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: 065632-043AMSD | SampType: MSD    | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031105C |          |           |             |       |          |      |
| Client ID: MW-19-1        | Batch ID: R32300 | TestNo: EPA 200.8 |             | Analysis Date: 11/5/2003 | SeqNo: 480889        |          |           |             |       |          |      |
| Analyte                   | Result           | PQL               | SPK value   | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Chromium                  | 9.952            | 1.0               | 10          | 1.15                     | 88                   | 80       | 120       | 9.976       | 0.241 | 20       |      |

**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  
DO- Surrogate dilute out  
H - Sample exceeded holding time  
Calculations are based on raw values

0055



**CLIENT:** Applied P & Ch Laboratories  
**Work Order:** 065632  
**Project:** JPL GW Mon, 04-4428.10

# ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8\_W

|                           |                 |                   |             |                          |                      |          |           |             |       |          |      |
|---------------------------|-----------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: 065632-021AMSD | SampType: MSD   | TestCode: 200.8_W | Units: µg/L | Prep Date: 11/5/2003     | Run ID: ICP4_031105D |          |           |             |       |          |      |
| Client ID: MW-4-3         | Batch ID: 15669 | TestNo: EPA 200.8 | (EPA 200.8) | Analysis Date: 11/5/2003 | SeqNo: 480895        |          |           |             |       |          |      |
| Analyte                   | Result          | PQL               | SPK value   | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Chromium                  | 9.899           | 1.0               | 10          | 0.3625                   | 95.4                 | 80       | 120       | 9.848       | 0.519 | 20       |      |

|                           |                  |                   |             |                          |                      |          |           |             |      |          |      |
|---------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 065632-041ADUP | SampType: DUP    | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031103A |          |           |             |      |          |      |
| Client ID: MW-19-3        | Batch ID: R32245 | TestNo: EPA 200.8 |             | Analysis Date: 11/3/2003 | SeqNo: 480089        |          |           |             |      |          |      |
| Analyte                   | Result           | PQL               | SPK value   | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium                  | 4.362            | 2.0               | 0           | 0                        | 0                    | 0        | 0         | 4.286       | 1.76 | 30       |      |

|                           |                  |                   |             |                          |                      |          |           |             |      |          |      |
|---------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 065632-010ADUP | SampType: DUP    | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031103A |          |           |             |      |          |      |
| Client ID: MW-11-3        | Batch ID: R32245 | TestNo: EPA 200.8 |             | Analysis Date: 11/3/2003 | SeqNo: 480090        |          |           |             |      |          |      |
| Analyte                   | Result           | PQL               | SPK value   | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium                  | 2.868            | 2.0               | 0           | 0                        | 0                    | 0        | 0         | 3.418       | 17.5 | 30       |      |

|                           |                  |                   |             |                          |                      |          |           |             |      |          |      |
|---------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 065632-036ADUP | SampleType: DUP  | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031105B |          |           |             |      |          |      |
| Client ID: MW-18-2        | Batch ID: R32298 | TestNo: EPA 200.8 |             | Analysis Date: 11/5/2003 | SeqNo: 480811        |          |           |             |      |          |      |
| Analyte                   | Result           | PQL               | SPK value   | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium                  | 2.003            | 1.0               | 0           | 0                        | 0                    | 0        | 0         | 1.936       | 3.40 | 30       |      |

|                           |                  |                   |             |                          |                      |          |           |             |       |          |      |
|---------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|-------|----------|------|
| Sample ID: 065632-030ADUP | SampleType: DUP  | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031105B |          |           |             |       |          |      |
| Client ID: MW-24-2        | Batch ID: R32298 | TestNo: EPA 200.8 |             | Analysis Date: 11/5/2003 | SeqNo: 480812        |          |           |             |       |          |      |
| Analyte                   | Result           | PQL               | SPK value   | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD  | RPDLimit | Qual |
| Chromium                  | 2.719            | 1.0               | 0           | 0                        | 0                    | 0        | 0         | 2.729       | 0.367 | 30       |      |

**Qualifiers:** ND - Not Detected at the Reporting Limit  
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B - Analyte detected in the associated Method Blank  
DO - Surrogate dilute out  
H - Sample exceeded holding time  
Calculations are based on raw values

0056



CLIENT: Applied P & Ch Laboratories  
Work Order: 065632  
Project: JPL GW Mon, 04-4428.10

## ANALYTICAL QC SUMMARY REPORT

TestCode: 200.8\_W

|                           |                  |                   |             |                          |                      |          |           |             |      |          |      |
|---------------------------|------------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 065632-043ADUP | SampType: DUP    | TestCode: 200.8_W | Units: µg/L | Prep Date:               | Run ID: ICP4_031105C |          |           |             |      |          |      |
| Client ID: MW-19-1        | Batch ID: R32300 | TestNo: EPA 200.8 |             | Analysis Date: 11/5/2003 | SeqNo: 480887        |          |           |             |      |          |      |
| Analyte                   | Result           | PQL               | SPK value   | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium                  | 1.009            | 1.0               | 0           | 0                        | 0                    | 0        | 0         | 1.15        | 13.1 | 30       |      |

|                           |                 |                   |             |                          |                      |          |           |             |      |          |      |
|---------------------------|-----------------|-------------------|-------------|--------------------------|----------------------|----------|-----------|-------------|------|----------|------|
| Sample ID: 065632-021ADUP | SampType: DUP   | TestCode: 200.8_W | Units: µg/L | Prep Date: 11/5/2003     | Run ID: ICP4_031105D |          |           |             |      |          |      |
| Client ID: MW-4-3         | Batch ID: 15669 | TestNo: EPA 200.8 | (EPA 200.8) | Analysis Date: 11/5/2003 | SeqNo: 480893        |          |           |             |      |          |      |
| Analyte                   | Result          | PQL               | SPK value   | SPK Ref Val              | %REC                 | LowLimit | HighLimit | RPD Ref Val | %RPD | RPDLimit | Qual |
| Chromium                  | ND              | 1.0               | 0           | 0                        | 0                    | 0        | 0         | 0           | 0    | 0        |      |

Qualifiers: ND - Not Detected at the Reporting Limit  
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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

0057