

SEVERN
TRENT

STL

STL Denver
4955 Yarrow Street
Arvada, CO 80002

Tel: 303 736 0100 Fax: 303 431 7171
www.stl-inc.com

ANALYTICAL REPORT

Raton Basin Baseline STD, CO
73407

Lot #: D7B260110

Tom Melland

Petroglyph
124 N Main
PO Box 979
La Veta, CO

SEVERN TRENT LABORATORIES, INC.

Chris Elliott
for Donna Rydberg
Project Manager

March 9, 2007

This report shall not be reproduced except in full, without the written approval of the laboratory

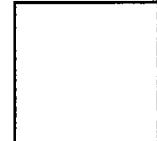
Table Of Contents

Standard Deliverables

| Report Contents | Total Number of Pages |
|------------------------|----------------------------------|
|------------------------|----------------------------------|

Standard Deliverables

The Cover Letter and the Report Cover page are considered integral parts of this Standard Deliverable package. This report is incomplete unless all pages indicated in this Table of Contents are included.



- **Table of Contents**
- **Case Narrative**
- **Executive Summary – Detection Highlights**
- **Methods Summary**
- **Method/Analyst Summary**
- **Sample Summary**
- **Analytical Results**
- **QC Data Association Summary**
- **QC Evaluation and/or Data Reports**
- **Chain-of-Custody**

CASE NARRATIVE

D7B260110

The following report contains the analytical results for two water samples submitted to STL Denver by Norwest Corporation for the Raton Basin Baseline site. The sample was received February 24, 2007 according to documented sample acceptance procedures.

Dilution factors and footnotes have been provided on each data sheet to assist in the interpretation of the results. In some cases, due to interference or analytes present above the linear calibration curve, samples must be analyzed at a dilution. For samples analyzed at a dilution, the reporting limits are adjusted relative to the dilution required. Dilutions made for reasons other than the presence of target compound(s) are addressed in the Supplemental Information Section.

STL Denver utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameters listed on the methods summary page in accordance with the methods indicated. A summary of QC data for these analyses is included near the end of the report.

The results included in this report have been reviewed for compliance with the laboratory QA/QC plan and meet all requirements of NELAC. All data have been found to be compliant with laboratory protocol, with the exception of any items noted below.

Supplemental QC Information

Sample Arrival and Receipt

The samples presented in this report were received at the laboratory at a temperature of 2.8°C.

One of two 1-liter amber bottles for sample CRAMER, A. WW was received broken. All other sample containers were received intact.

The laboratory received two vials labeled for isotope analyses that were not listed on the accompanying Chain of Custody. At the client's request, the vials were returned as they were shipped by mistake.

Method RSK SOP-175 – GC Volatiles

Sample "HURLEY, MWW" was analyzed at a dilution to bring target compounds within the linear calibration range of the instrument. Reporting limits were raised accordingly.

Matrix Spike samples were not requested and they could not be performed due to insufficient sample volume. The associated LCS and LCSD were in control and demonstrate that operating procedures were in control. Method precision and accuracy were demonstrated.

No other anomalies were observed.

Method 8015B/DRO

Matrix Spike samples were not requested and they could not be performed due to insufficient sample volume. The acceptable LCS analyte recoveries provide evidence that the laboratory is performing the method within acceptable guidelines.

No other anomalies were observed.

Lot D7B260110 continued

Method 200.8/200.7 – Dissolved Metals

The MS/MSD recoveries for Sodium in prep batch 7058569 were not calculated due to the concentration in the parent sample at a level greater than four times the spiked amount.

The Continuing Calibration Verification (CCV) standards associated with batch 7058569 exhibited a percent recovery value out of range, biased high, for Iron. This is an indicator that data may be biased high. As no detectable concentrations of Iron are present in the associated samples above the reporting limit, corrective action is deemed unnecessary.

No other anomalies were observed.

General Chemistry – Various

Due to a laboratory error, the holding time for Nitrate and Nitrite by method 300.0A for samples HURLEY, MWW and CRAMER, A. WW expired prior to analysis. Analyses were performed at the request of the client. Please note that the sample results should be considered estimated.

A low level of Alkalinity is present in the method blank associated with QC batch 7061268. Because the concentration in the method blank is not present at a level greater than the reporting limit, corrective action is deemed unnecessary. Associated results in the analytical report have been flagged with a "J".

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D7B260110

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | ANALYTICAL METHOD |
|---|-----------|-----------------|----------|-------------------|
| HURLEY, MWW 02/23/07 10:30 001 | | | | |
| Methane | 3800 | 50 | ug/L | RSK SOP-175 |
| Boron - DISSOLVED | 0.12 | 0.10 | mg/L | MCAWW 200.7 |
| Calcium - DISSOLVED | 4.4 | 0.20 | mg/L | MCAWW 200.7 |
| Iron - DISSOLVED | 0.037 B | 0.10 | mg/L | MCAWW 200.7 |
| Magnesium - DISSOLVED | 1.9 | 0.20 | mg/L | MCAWW 200.7 |
| Potassium - DISSOLVED | 2.1 B | 3.0 | mg/L | MCAWW 200.7 |
| Sodium - DISSOLVED | 290 | 5.0 | mg/L | MCAWW 200.7 |
| Zinc - DISSOLVED | 0.0081 B | 0.020 | mg/L | MCAWW 200.7 |
| Arsenic - DISSOLVED | 0.00051 B | 0.0050 | mg/L | MCAWW 200.8 |
| Barium - DISSOLVED | 0.13 | 0.0010 | mg/L | MCAWW 200.8 |
| Copper - DISSOLVED | 0.0022 | 0.0020 | mg/L | MCAWW 200.8 |
| Manganese - DISSOLVED | 0.0084 | 0.0010 | mg/L | MCAWW 200.8 |
| pH | 8.2 | 0.10 | No Units | MCAWW 150.1 |
| Total Dissolved Solids | 730 | 10 | mg/L | MCAWW 160.1 |
| Total Suspended Solids | 15 | 4.0 | mg/L | MCAWW 160.2 |
| Carbonate, as CaCO ₃ | 24 | 5.0 | mg/L | MCAWW 310.1 |
| Chloride | 19 | 3.0 | mg/L | MCAWW 300.0A |
| Sulfate | 27 | 5.0 | mg/L | MCAWW 300.0A |
| Fluoride | 2.7 | 0.50 | mg/L | MCAWW 300.0A |
| Bromide | 0.21 | 0.20 | mg/L | MCAWW 300.0A |
| Total Sulfide | 0.87 | 0.050 | mg/L | MCAWW 376.2 |
| Bicarbonate, as CaCO ₃ | 570 | 5.0 | mg/L | MCAWW 310.1 |
| Total Alkalinity | 600 J | 5.0 | mg/L | MCAWW 310.1 |
| CRAMER, A. WW 02/23/07 11:00 002 | | | | |
| Methane | 8.1 | 5.0 | ug/L | RSK SOP-175 |
| Boron - DISSOLVED | 0.055 B | 0.10 | mg/L | MCAWW 200.7 |
| Calcium - DISSOLVED | 1.7 | 0.20 | mg/L | MCAWW 200.7 |
| Magnesium - DISSOLVED | 0.24 | 0.20 | mg/L | MCAWW 200.7 |
| Potassium - DISSOLVED | 1.9 B | 3.0 | mg/L | MCAWW 200.7 |
| Sodium - DISSOLVED | 360 | 5.0 | mg/L | MCAWW 200.7 |
| Zinc - DISSOLVED | 0.015 B | 0.020 | mg/L | MCAWW 200.7 |
| Barium - DISSOLVED | 0.044 | 0.0010 | mg/L | MCAWW 200.8 |
| Copper - DISSOLVED | 0.030 | 0.0020 | mg/L | MCAWW 200.8 |
| Lead - DISSOLVED | 0.00040 B | 0.0010 | mg/L | MCAWW 200.8 |
| Manganese - DISSOLVED | 0.00045 B | 0.0010 | mg/L | MCAWW 200.8 |
| pH | 8.8 | 0.10 | No Units | MCAWW 150.1 |
| Total Dissolved Solids | 850 | 10 | mg/L | MCAWW 160.1 |
| Carbonate, as CaCO ₃ | 73 | 5.0 | mg/L | MCAWW 310.1 |

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

D7B260110

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>ANALYTICAL METHOD</u> |
|---|---------------|----------------------------|--------------|------------------------------|
| CRAMER, A. WW 02/23/07 11:00 002 | | | | |
| Chloride | 9.5 | 3.0 | mg/L | MCAWW 300.0A |
| Sulfate | 100 Q | 25 | mg/L | MCAWW 300.0A |
| Fluoride | 1.1 | 0.50 | mg/L | MCAWW 300.0A |
| Nitrate | 0.38 B | 0.50 | mg/L | MCAWW 300.0A |
| Nitrite | 0.067 B | 0.50 | mg/L | MCAWW 300.0A |
| Bicarbonate, as CaCO ₃ | 560 | 5.0 | mg/L | MCAWW 310.1 |
| Total Alkalinity | 630 J | 5.0 | mg/L | MCAWW 310.1 |

METHODS SUMMARY

D7B260110

| <u>PARAMETER</u> | <u>ANALYTICAL METHOD</u> | <u>PREPARATION METHOD</u> |
|---|------------------------------|-------------------------------|
| pH (Electrometric) | MCAWW 150.1 | MCAWW 150.1 |
| Alkalinity | MCAWW 310.1 | MCAWW 310.1 |
| Bicarbonate Alkalinity | MCAWW 310.1 | MCAWW 310.1 |
| Bromide | MCAWW 300.0A | MCAWW 300.0A |
| Carbonate Alkalinity | MCAWW 310.1 | MCAWW 310.1 |
| Chloride | MCAWW 300.0A | MCAWW 300.0A |
| Dissolved Gases in Water | RSK SOP-175 | RSK RSKSOP-175 |
| Dissolved ICP Metals | MCAWW 200.7 | MCAWW 200.7 |
| Extractable Petroleum Hydrocarbons | SW846 8015B | SW846 3510 |
| Filterable Residue (TDS) | MCAWW 160.1 | MCAWW 160.1 |
| Fluoride | MCAWW 300.0A | MCAWW 300.0A |
| Hydroxide Alkalinity | MCAWW 310.1 | MCAWW 310.1 |
| ICP-Mass Spectrometry ICP-Mass SPectrometry | MCAWW 200.8 | MCAWW 200.8 |
| Nitrate as N | MCAWW 300.0A | MCAWW 300.0A |
| Nitrite as N | MCAWW 300.0A | MCAWW 300.0A |
| Non-Filterable Residue (TSS) | MCAWW 160.2 | MCAWW 160.2 |
| Sulfate | MCAWW 300.0A | MCAWW 300.0A |
| Sulfide (Colorimetric,MB) | MCAWW 376.2 | MCAWW 376.2 |

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- RSK Sample Prep and Calculations for Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibration Technique, RSKSOP-175, REV. 0, 8/11/94, USEPA Research Lab
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

METHOD / ANALYST SUMMARY

D7B260110

| <u>ANALYTICAL METHOD</u> | <u>ANALYST</u> | <u>ANALYST ID</u> |
|------------------------------|---------------------|-----------------------|
| MCAWW 150.1 | Danielle M. Fougere | 006481 |
| MCAWW 160.1 | Kevin Bloom | 006134 |
| MCAWW 160.2 | Kevin Bloom | 006134 |
| MCAWW 200.7 | Lynn-Anne Trudell | 6645 |
| MCAWW 200.8 | Thomas Lill | 6929 |
| MCAWW 300.0A | Ewa Kudla | 001167 |
| MCAWW 310.1 | Elizabeth Pryor | 009450 |
| MCAWW 376.2 | Kim Bertha | 007985 |
| RSK SOP-175 | Patrick Quirk | 006795 |
| SW846 8015B | Heather Dybas | 038161 |

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.
- RSK Sample Prep and Calculations for Dissolved Gas Analysis in Water Samples Using a GC Headspace Equilibration Technique, RSKSOP-175, REV. 0, 8/11/94, USEPA Research Lab
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

D7B260110

| WO # | SAMPLE# | CLIENT SAMPLE ID | SAMPLED DATE | SAMP TIME |
|-------|---------|------------------|--------------|-----------|
| JP4AW | 001 | HURLEY, MWW | 02/23/07 | 10:30 |
| JP4A2 | 002 | CRAMER, A. WW | 02/23/07 | 11:00 |

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Applied Hydrology Associates Inc

Client Sample ID: HURLEY, MWW

GC Volatiles

Lot-Sample #....: D7B260110-001 **Work Order #....:** JP4AW1AR **Matrix.....:** WATER
Date Sampled....: 02/23/07 10:30 **Date Received...:** 02/24/07
Prep Date.....: 02/27/07 **Analysis Date...:** 02/27/07
Prep Batch #....: 7060531 **Analysis Time...:** 14:10
Dilution Factor: 10

Method.....: RSK SOP-175

| PARAMETER | RESULT | REPORTING | UNITS | MDL |
|----------------|-------------|-----------|-------------|------------|
| Ethane | ND | 50 | ug/L | 2.4 |
| Ethene | ND | 50 | ug/L | 4.0 |
| Methane | 3800 | 50 | ug/L | 2.2 |

Applied Hydrology Associates Inc

Client Sample ID: CRAMER, A. WW

GC Volatiles

Lot-Sample #....: D7B260110-002 **Work Order #....:** JP4A21A4 **Matrix.....:** WATER
Date Sampled....: 02/23/07 11:00 **Date Received...:** 02/24/07
Prep Date.....: 02/27/07 **Analysis Date...:** 02/27/07
Prep Batch #....: 7060531 **Analysis Time...:** 11:56
Dilution Factor: 1

Method.....: RSK SOP-175

| PARAMETER | RESULT | REPORTING | | |
|----------------|------------|------------|-------------|-------------|
| | | LIMIT | UNITS | MDL |
| Ethane | ND | 5.0 | ug/L | 0.24 |
| Ethene | ND | 5.0 | ug/L | 0.40 |
| Methane | 8.1 | 5.0 | ug/L | 0.22 |

Applied Hydrology Associates Inc

Client Sample ID: HURLEY, MWW

GC Semivolatiles

Lot-Sample #....: D7B260110-001 **Work Order #....:** JP4AW1AT **Matrix.....:** WATER
Date Sampled....: 02/23/07 10:30 **Date Received...:** 02/24/07
Prep Date.....: 02/27/07 **Analysis Date...:** 03/02/07
Prep Batch #....: 7058422 **Analysis Time...:** 21:18
Dilution Factor: 1

Method.....: SW846 8015B

| PARAMETER | RESULT | REPORTING | | |
|-----------------------|---------------|------------------|--------------|------------|
| | | LIMIT | UNITS | MDL |
| Diesel Range Organics | ND | 0.25 | mg/L | 0.032 |
| SURROGATE | PERCENT | RECOVERY | | |
| o-Terphenyl | RECOVERY | LIMITS | | |
| | 80 | (48 - 117) | | |

Applied Hydrology Associates Inc

Client Sample ID: CRAMER, A. WW

GC Semivolatiles

Lot-Sample #....: D7B260110-002 **Work Order #....:** JP4A21A5 **Matrix.....:** WATER
Date Sampled....: 02/23/07 11:00 **Date Received...:** 02/24/07
Prep Date.....: 02/27/07 **Analysis Date...:** 03/02/07
Prep Batch #....: 7058422 **Analysis Time...:** 21:57
Dilution Factor: 1
Method.....: SW846 8015B

| PARAMETER | RESULT | REPORTING | | |
|-----------------------|-----------------|------------------|--------------|------------|
| | | LIMIT | UNITS | MDL |
| Diesel Range Organics | ND | 0.25 | mg/L | 0.032 |
| <hr/> | | | | |
| SURROGATE | PERCENT | RECOVERY | | |
| | RECOVERY | LIMITS | | |
| o-Terphenyl | 101 | (48 - 117) | | |

Applied Hydrology Associates Inc

Client Sample ID: HURLEY, MW

DISSOLVED Metals

Lot-Sample #....: D7B260110-001

Matrix.....: WATER

Date Sampled...: 02/23/07 10:30 **Date Received...:** 02/24/07

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|----------------------------------|------------------|--------------------|-------------|-------------------------|-------------------------------|-----------------|
| Prep Batch #....: 7058560 | | | | | | |
| Arsenic | 0.00051 B | 0.0050 | mg/L | MCAWW 200.8 | 03/08/07 | JP4AW1A6 |
| | | Dilution Factor: 1 | | Analysis Time...: 21:16 | MDL..... | : 0.00050 |
| Barium | 0.13 | 0.0010 | mg/L | MCAWW 200.8 | 03/08/07 | JP4AW1A7 |
| | | Dilution Factor: 1 | | Analysis Time...: 21:16 | MDL..... | : 0.00012 |
| Copper | 0.0022 | 0.0020 | mg/L | MCAWW 200.8 | 03/08/07 | JP4AW1A8 |
| | | Dilution Factor: 1 | | Analysis Time...: 21:16 | MDL..... | : 0.00020 |
| Lead | ND | 0.0010 | mg/L | MCAWW 200.8 | 03/08/07 | JP4AW1A9 |
| | | Dilution Factor: 1 | | Analysis Time...: 21:16 | MDL..... | : 0.00010 |
| Manganese | 0.0084 | 0.0010 | mg/L | MCAWW 200.8 | 03/08/07 | JP4AW1CA |
| | | Dilution Factor: 1 | | Analysis Time...: 21:16 | MDL..... | : 0.00012 |
| Selenium | ND | 0.0050 | mg/L | MCAWW 200.8 | 03/08/07 | JP4AW1CC |
| | | Dilution Factor: 1 | | Analysis Time...: 21:16 | MDL..... | : 0.0010 |
| Prep Batch #....: 7058569 | | | | | | |
| Boron | 0.12 | 0.10 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1AU |
| | | Dilution Factor: 1 | | Analysis Time...: 14:53 | MDL..... | : 0.0059 |
| Cadmium | ND | 0.0050 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1AV |
| | | Dilution Factor: 1 | | Analysis Time...: 14:53 | MDL..... | : 0.00045 |
| Calcium | 4.4 | 0.20 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1AW |
| | | Dilution Factor: 1 | | Analysis Time...: 14:53 | MDL..... | : 0.034 |
| Chromium | ND | 0.010 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1AX |
| | | Dilution Factor: 1 | | Analysis Time...: 14:53 | MDL..... | : 0.0026 |
| Iron | 0.037 B | 0.10 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1AO |
| | | Dilution Factor: 1 | | Analysis Time...: 14:53 | MDL..... | : 0.022 |
| Magnesium | 1.9 | 0.20 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1A1 |
| | | Dilution Factor: 1 | | Analysis Time...: 14:53 | MDL..... | : 0.043 |
| Potassium | 2.1 B | 3.0 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1A2 |
| | | Dilution Factor: 1 | | Analysis Time...: 14:53 | MDL..... | : 0.24 |

(Continued on next page)

Applied Hydrology Associates Inc

Client Sample ID: HURLEY, MWW

DISSOLVED Metals

Lot-Sample #....: D7B260110-001

Matrix.....: WATER

| PARAMETER | RESULT | REPORTING | | | METHOD | PREPARATION- | WORK |
|-----------|----------|-----------|-------|------------------|-------------------------|----------------|----------|
| | | LIMIT | UNITS | Dilution Factor: | | | |
| Silver | ND | 0.010 | mg/L | 1 | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1A3 |
| | | | | | Analysis Time...: 14:53 | MDL..... | : 0.0028 |
| Sodium | 290 | 5.0 | mg/L | 1 | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1A4 |
| | | | | | Analysis Time...: 14:53 | MDL..... | : 0.092 |
| Zinc | 0.0081 B | 0.020 | mg/L | 1 | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1A5 |
| | | | | | Analysis Time...: 14:53 | MDL..... | : 0.0045 |

NOTE(S) :

B Estimated result. Result is less than RL.

Applied Hydrology Associates Inc

Client Sample ID: CRAMER, A. WW

DISSOLVED Metals

Lot-Sample #....: D7B260110-002

Matrix.....: WATER

Date Sampled...: 02/23/07 11:00 Date Received...: 02/24/07

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|----------------------------------|------------------|----------------------------|--------------|--|--|--------------------------------------|
| Prep Batch #....: 7058560 | | | | | | |
| Arsenic | ND | 0.0050 | mg/L | MCAWW 200.8 Dilution Factor: 1 | Analysis Time...: 21:20 03/08/07 | JP4A21AH MDL.....: 0.00050 |
| Barium | 0.044 | 0.0010 | mg/L | MCAWW 200.8 Dilution Factor: 1 | 03/08/07 Analysis Time...: 21:20 | JP4A21AJ MDL.....: 0.00012 |
| Copper | 0.030 | 0.0020 | mg/L | MCAWW 200.8 Dilution Factor: 1 | 03/08/07 Analysis Time...: 21:20 | JP4A21AK MDL.....: 0.00020 |
| Lead | 0.00040 B | 0.0010 | mg/L | MCAWW 200.8 Dilution Factor: 1 | 03/08/07 Analysis Time...: 21:20 | JP4A21AL MDL.....: 0.00010 |
| Manganese | 0.00045 B | 0.0010 | mg/L | MCAWW 200.8 Dilution Factor: 1 | 03/08/07 Analysis Time...: 21:20 | JP4A21CA MDL.....: 0.00012 |
| Selenium | ND | 0.0050 | mg/L | MCAWW 200.8 Dilution Factor: 1 | 03/08/07 Analysis Time...: 21:20 | JP4A21CC MDL.....: 0.0010 |
| Prep Batch #....: 7058569 | | | | | | |
| Boron | 0.055 B | 0.10 | mg/L | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 15:19 | JP4A21A6 MDL.....: 0.0059 |
| Cadmium | ND | 0.0050 | mg/L | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 15:19 | JP4A21A7 MDL.....: 0.00045 |
| Calcium | 1.7 | 0.20 | mg/L | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 15:19 | JP4A21A8 MDL.....: 0.034 |
| Chromium | ND | 0.010 | mg/L | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 15:19 | JP4A21A9 MDL.....: 0.0026 |
| Iron | ND | 0.10 | mg/L | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 15:19 | JP4A21AA MDL.....: 0.022 |
| Magnesium | 0.24 | 0.20 | mg/L | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 15:19 | JP4A21AC MDL.....: 0.043 |
| Potassium | 1.9 B | 3.0 | mg/L | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 15:19 | JP4A21AD MDL.....: 0.24 |

(Continued on next page)

Applied Hydrology Associates Inc

Client Sample ID: CRAMER, A. WW

DISSOLVED Metals

Lot-Sample #....: D7B260110-002

Matrix.....: WATER

| PARAMETER | RESULT | REPORTING | | | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------|--------------------|-------|------------------------|----------------|-------------------------------|-----------------|
| | | LIMIT | UNITS | | | | |
| Silver | ND | 0.010 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP4A21AE | |
| | | Dilution Factor: 1 | | Analysis Time..: 15:19 | | MDL.....: 0.0028 | |
| Sodium | 360 | 5.0 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP4A21AF | |
| | | Dilution Factor: 1 | | Analysis Time..: 15:19 | | MDL.....: 0.092 | |
| Zinc | 0.015 B | 0.020 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP4A21AG | |
| | | Dilution Factor: 1 | | Analysis Time..: 15:19 | | MDL.....: 0.0045 | |

NOTE(S) :

B Estimated result. Result is less than RL.

Applied Hydrology Associates Inc

Client Sample ID: HURLEY, MWW

General Chemistry

Lot-Sample #....: D7B260110-001 Work Order #....: JP4AW Matrix.....: WATER
Date Sampled...: 02/23/07 10:30 Date Received...: 02/24/07

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- | PREP |
|-----------------------------------|---------------|--------------------|--------------|-------------------------|----------------------|-------------|
| | | | | | ANALYSIS DATE | |
| pH | 8.2 | 0.10 | No Units | MCAWW 150.1 | 02/27/07 | 7058532 |
| | | Dilution Factor: 1 | | Analysis Time...: 14:13 | MDL..... | |
| Bicarbonate, as CaCO ₃ | 570 | 5.0 | mg/L | MCAWW 310.1 | 03/01/07 | 7061275 |
| 3 | | Dilution Factor: 1 | | Analysis Time...: 17:00 | MDL..... | 1.1 |
| Bromide | 0.21 | 0.20 | mg/L | MCAWW 300.0A | 02/26/07 | 7058223 |
| | | Dilution Factor: 1 | | Analysis Time...: 10:44 | MDL..... | 0.11 |
| Carbonate, as CaCO ₃ | 24 | 5.0 | mg/L | MCAWW 310.1 | 03/01/07 | 7061278 |
| | | Dilution Factor: 1 | | Analysis Time...: 17:00 | MDL..... | 1.1 |
| Chloride | 19 | 3.0 | mg/L | MCAWW 300.0A | 02/26/07 | 7058220 |
| | | Dilution Factor: 1 | | Analysis Time...: 10:44 | MDL..... | 0.25 |
| Fluoride | 2.7 | 0.50 | mg/L | MCAWW 300.0A | 02/26/07 | 7058221 |
| | | Dilution Factor: 1 | | Analysis Time...: 10:44 | MDL..... | 0.060 |
| Hydroxide, as CaCO ₃ | ND | 5.0 | mg/L | MCAWW 310.1 | 03/01/07 | 7061279 |
| | | Dilution Factor: 1 | | Analysis Time...: 17:00 | MDL..... | 1.1 |
| Nitrate | ND | 0.50 | mg/L | MCAWW 300.0A | 02/26/07 | 7058224 |
| | | Dilution Factor: 1 | | Analysis Time...: 10:44 | MDL..... | 0.042 |
| Nitrite | ND | 0.50 | mg/L | MCAWW 300.0A | 02/26/07 | 7058225 |
| | | Dilution Factor: 1 | | Analysis Time...: 10:44 | MDL..... | 0.049 |
| Sulfate | 27 | 5.0 | mg/L | MCAWW 300.0A | 02/26/07 | 7058222 |
| | | Dilution Factor: 1 | | Analysis Time...: 10:44 | MDL..... | 0.23 |
| Total Alkalinity | 600 J | 5.0 | mg/L | MCAWW 310.1 | 03/01/07 | 7061268 |
| | | Dilution Factor: 1 | | Analysis Time...: 17:00 | MDL..... | 1.1 |
| Total Dissolved Solids | 730 | 10 | mg/L | MCAWW 160.1 | 02/28/07 | 7059535 |
| | | Dilution Factor: 1 | | Analysis Time...: 14:10 | MDL..... | 4.7 |
| Total Sulfide | 0.87 | 0.050 | mg/L | MCAWW 376.2 | 02/27/07 | 7058511 |
| | | Dilution Factor: 1 | | Analysis Time...: 16:00 | MDL..... | 0.0071 |

(Continued on next page)

Applied Hydrology Associates Inc

Client Sample ID: HURLEY, MW

General Chemistry

Lot-Sample #....: D7B260110-001 Work Order #....: JP4AW Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>RL</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION-</u> <u>ANALYSIS DATE</u> | <u>PREP</u> <u>BATCH #</u> |
|-------------------------------|---------------|------------|--------------|--------------------|---|-------------------------------|
| Total Suspended Solids | 15 | 4.0 | mg/L | MCAWW 160.2 | 02/28/07 | 7059526 |

Dilution Factor: 1 Analysis Time...: 14:00 MDL.....: 1.1

NOTE(S) :

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Applied Hydrology Associates Inc

Client Sample ID: CRAMER, A. WW

General Chemistry

Lot-Sample #....: D7B260110-002 **Work Order #....:** JP4A2 **Matrix.....:** WATER
Date Sampled...: 02/23/07 11:00 **Date Received...:** 02/24/07

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- | PREP |
|-----------------------------------|---------|--------------------|----------|------------------------|------------------|---------|
| | | | | | ANALYSIS DATE | BATCH # |
| pH | 8.8 | 0.10 | No Units | MCAWW 150.1 | 02/27/07 | 7058532 |
| | | Dilution Factor: 1 | | Analysis Time..: 14:15 | MDL..... | |
| Bicarbonate, as CaCO ₃ | 560 | 5.0 | mg/L | MCAWW 310.1 | 03/01/07 | 7061275 |
| | | Dilution Factor: 1 | | Analysis Time..: 17:00 | MDL.....: 1.1 | |
| Bromide | ND | 0.20 | mg/L | MCAWW 300.0A | 02/26/07 | 7058223 |
| | | Dilution Factor: 1 | | Analysis Time..: 11:34 | MDL.....: 0.11 | |
| Carbonate, as CaCO ₃ | 73 | 5.0 | mg/L | MCAWW 310.1 | 03/01/07 | 7061278 |
| | | Dilution Factor: 1 | | Analysis Time..: 17:00 | MDL.....: 1.1 | |
| Chloride | 9.5 | 3.0 | mg/L | MCAWW 300.0A | 02/26/07 | 7058220 |
| | | Dilution Factor: 1 | | Analysis Time..: 11:34 | MDL.....: 0.25 | |
| Fluoride | 1.1 | 0.50 | mg/L | MCAWW 300.0A | 02/26/07 | 7058221 |
| | | Dilution Factor: 1 | | Analysis Time..: 11:34 | MDL.....: 0.060 | |
| Hydroxide, as CaCO ₃ | ND | 5.0 | mg/L | MCAWW 310.1 | 03/01/07 | 7061279 |
| | | Dilution Factor: 1 | | Analysis Time..: 17:00 | MDL.....: 1.1 | |
| Nitrate | 0.38 B | 0.50 | mg/L | MCAWW 300.0A | 02/26/07 | 7058224 |
| | | Dilution Factor: 1 | | Analysis Time..: 11:34 | MDL.....: 0.042 | |
| Nitrite | 0.067 B | 0.50 | mg/L | MCAWW 300.0A | 02/26/07 | 7058225 |
| | | Dilution Factor: 1 | | Analysis Time..: 11:34 | MDL.....: 0.049 | |
| Sulfate | 100 Q | 25 | mg/L | MCAWW 300.0A | 03/05/07 | 7065158 |
| | | Dilution Factor: 5 | | Analysis Time..: 15:53 | MDL.....: 1.2 | |
| Total Alkalinity | 630 J | 5.0 | mg/L | MCAWW 310.1 | 03/01/07 | 7061268 |
| | | Dilution Factor: 1 | | Analysis Time..: 17:00 | MDL.....: 1.1 | |
| Total Dissolved Solids | 850 | 10 | mg/L | MCAWW 160.1 | 02/28/07 | 7059535 |
| | | Dilution Factor: 1 | | Analysis Time..: 14:10 | MDL.....: 4.7 | |
| Total Sulfide | ND | 0.050 | mg/L | MCAWW 376.2 | 02/27/07 | 7058511 |
| | | Dilution Factor: 1 | | Analysis Time..: 16:00 | MDL.....: 0.0071 | |

(Continued on next page)

Applied Hydrology Associates Inc

Client Sample ID: CRAMER, A. WW

General Chemistry

Lot-Sample #....: D7B260110-002 Work Order #....: JP4A2 Matrix.....: WATER

| PARAMETER | RESULT | RL | UNITS | METHOD | PREPARATION- | PREP |
|------------------------|---------------|--------------------|--------------|-------------------------|----------------------|----------------|
| | | | | | ANALYSIS DATE | BATCH # |
| Total Suspended Solids | ND | 4.0 | mg/L | MCAWW 160.2 | 02/28/07 | 7059526 |
| | | Dilution Factor: 1 | | Analysis Time...: 14:00 | | MDL.....: 1.1 |

NOTE(S) :

RL Reporting Limit

B Estimated result. Result is less than RL.

Q Elevated reporting limit. The reporting limit is elevated due to high analyte levels.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

QC DATA ASSOCIATION SUMMARY

D7B260110

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL METHOD</u> | <u>LEACH BATCH #</u> | <u>PREP BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001 | WATER | MCAWW 150.1 | | 7058532 | 7059247 |
| | WATER | MCAWW 160.1 | | 7059535 | 7061211 |
| | WATER | MCAWW 160.2 | | 7059526 | 7060147 |
| | WATER | MCAWW 200.7 | | 7058569 | 7058329 |
| | WATER | MCAWW 310.1 | | 7061278 | |
| | WATER | MCAWW 300.0A | | 7058220 | 7058138 |
| | WATER | MCAWW 300.0A | | 7058222 | 7058145 |
| | WATER | MCAWW 300.0A | | 7058221 | 7058136 |
| | WATER | MCAWW 300.0A | | 7058224 | 7058142 |
| | WATER | MCAWW 300.0A | | 7058223 | 7058141 |
| | WATER | MCAWW 300.0A | | 7058225 | 7058140 |
| | WATER | SW846 8015B | | 7058422 | |
| | WATER | RSK SOP-175 | | 7060531 | |
| | WATER | MCAWW 310.1 | | 7061279 | |
| | WATER | MCAWW 200.8 | | 7058560 | 7058321 |
| | WATER | MCAWW 376.2 | | 7058511 | 7058299 |
| | WATER | MCAWW 310.1 | | 7061275 | |
| | WATER | MCAWW 310.1 | | 7061268 | 7061178 |
| 002 | WATER | MCAWW 150.1 | | 7058532 | 7059247 |
| | WATER | MCAWW 160.1 | | 7059535 | 7061211 |
| | WATER | MCAWW 160.2 | | 7059526 | 7060147 |
| | WATER | MCAWW 200.7 | | 7058569 | 7058329 |
| | WATER | MCAWW 310.1 | | 7061278 | |
| | WATER | MCAWW 300.0A | | 7058220 | 7058138 |
| | WATER | MCAWW 300.0A | | 7065158 | 7065134 |
| | WATER | MCAWW 300.0A | | 7058221 | 7058136 |
| | WATER | MCAWW 300.0A | | 7058224 | 7058142 |
| | WATER | MCAWW 300.0A | | 7058223 | 7058141 |
| | WATER | MCAWW 300.0A | | 7058225 | 7058140 |
| | WATER | SW846 8015B | | 7058422 | |
| | WATER | RSK SOP-175 | | 7060531 | |
| | WATER | MCAWW 310.1 | | 7061279 | |
| | WATER | MCAWW 200.8 | | 7058560 | 7058321 |
| | WATER | MCAWW 376.2 | | 7058511 | 7058299 |
| | WATER | MCAWW 310.1 | | 7061275 | |
| | WATER | MCAWW 310.1 | | 7061268 | 7061178 |

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: D7B260110
MB Lot-Sample #: D7C010000-531
Analysis Date...: 02/27/07
Dilution Factor: 1

Work Order #....: JQCN31AA
Prep Date.....: 02/27/07
Prep Batch #....: 7060531

Matrix.....: WATER
Analysis Time...: 10:22

| PARAMETER | REPORTING | | | |
|-----------|-----------|-------|-------|-------------|
| | RESULT | LIMIT | UNITS | METHOD |
| Methane | ND | 5.0 | ug/L | RSK SOP-175 |
| Ethane | ND | 5.0 | ug/L | RSK SOP-175 |
| Ethene | ND | 5.0 | ug/L | RSK SOP-175 |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: D7B260110 **Work Order #....:** JQCN31AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D7C010000-531 **JQCN31AD-LCSD**
Prep Date.....: 02/27/07 **Analysis Date...:** 02/27/07
Prep Batch #....: 7060531 **Analysis Time...:** 10:12
Dilution Factor: 1

| PARAMETER | PERCENT | RECOVERY | RPD | LIMITS | METHOD |
|------------------|------------|------------|-------------|---------------|-------------|
| | RECOVERY | LIMITS | | | |
| Acetylene | 102 | (75 - 125) | 5.6 | (0-20) | RSK SOP-175 |
| | 108 | (75 - 125) | | | RSK SOP-175 |
| Ethane | 94 | (75 - 125) | 0.54 | (0-20) | RSK SOP-175 |
| | 93 | (75 - 125) | | | RSK SOP-175 |
| Ethene | 97 | (75 - 125) | 0.56 | (0-20) | RSK SOP-175 |
| | 97 | (75 - 125) | | | RSK SOP-175 |
| Methane | 91 | (75 - 125) | | | RSK SOP-175 |
| | 90 | (75 - 125) | 0.51 | (0-20) | RSK SOP-175 |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: D7B260110 Work Order #....: JQCN31AC-LCS Matrix.....: WATER
LCS Lot-Sample#: D7C010000-531 JQCN31AD-LCSD
Prep Date.....: 02/27/07 Analysis Date...: 02/27/07
Prep Batch #....: 7060531 Analysis Time...: 10:12
Dilution Factor: 1

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCENT RECOVERY | RPD | METHOD |
|------------------|-----------------|--------------------|-------------|---------------------|-------------|--------------------|
| Acetylene | 118 | 120 | ug/L | 102 | | RSK SOP-175 |
| | 118 | 127 | ug/L | 108 | 5.6 | RSK SOP-175 |
| Ethane | 137 | 128 | ug/L | 94 | | RSK SOP-175 |
| | 137 | 128 | ug/L | 93 | 0.54 | RSK SOP-175 |
| Ethene | 127 | 123 | ug/L | 97 | | RSK SOP-175 |
| | 127 | 124 | ug/L | 97 | 0.56 | RSK SOP-175 |
| Methane | 73.0 | 66.3 | ug/L | 91 | | RSK SOP-175 |
| | 73.0 | 66.0 | ug/L | 90 | 0.51 | RSK SOP-175 |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #....: D7B260110
MB Lot-Sample #: D7B270000-422
Analysis Date...: 03/02/07
Dilution Factor: 1

Work Order #....: JP6M21AA
Prep Date.....: 02/27/07
Prep Batch #....: 7058422

Matrix.....: WATER
Analysis Time..: 20:02

| PARAMETER | REPORTING | | |
|-----------------------|------------------|--------------|--------------|
| | RESULT | LIMIT | UNITS |
| Diesel Range Organics | ND | 0.25 | mg/L |
| SURROGATE | PERCENT | RECOVERY | |
| o-Terphenyl | RECOVERY | LIMITS | |
| | 101 | (48 - 117) | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: D7B260110 Work Order #....: JP6M21AC Matrix.....: WATER
LCS Lot-Sample#: D7B270000-422
Prep Date.....: 02/27/07 Analysis Date...: 03/02/07
Prep Batch #....: 7058422 Analysis Time...: 20:40
Dilution Factor: 1

| PARAMETER | PERCENT <u>RECOVERY</u> | RECOVERY <u>LIMITS</u> | METHOD |
|------------------------------|----------------------------|---------------------------|--------------------|
| Diesel Range Organics | 96 | (54 - 115) | SW846 8015B |
| SURROGATE | PERCENT <u>RECOVERY</u> | RECOVERY <u>LIMITS</u> | |
| o-Terphenyl | 86 | (50 - 115) | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: D7B260110 **Work Order #....:** JP6M21AC **Matrix.....:** WATER
LCS Lot-Sample#: D7B270000-422
Prep Date.....: 02/27/07 **Analysis Date...:** 03/02/07
Prep Batch #....: 7058422 **Analysis Time...:** 20:40
Dilution Factor: 1

| <u>PARAMETER</u> | <u>SPIKE</u> | <u>MEASURED</u> | <u>PERCENT</u> | <u>RECOVERY</u> | <u>METHOD</u> |
|------------------------------|---------------|-----------------|-----------------|-------------------|--------------------|
| | <u>AMOUNT</u> | <u>AMOUNT</u> | <u>UNITS</u> | | |
| Diesel Range Organics | 2.00 | 1.91 | mg/L | 96 | SW846 8015B |
| <u>SURROGATE</u> | | <u>PERCENT</u> | <u>RECOVERY</u> | | |
| o-Terphenyl | | 86 | LIMITS | (50 - 115) | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

METHOD BLANK REPORT

DISSOLVED Metals

Client Lot #....: D7B260110

Matrix.....: WATER

| PARAMETER | RESULT | REPORTING LIMIT | UNITS | METHOD | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|---------------|----------------------------|--------------|---------------|---------------------------------------|-------------------------|
| MB Lot-Sample #: D7B270000-560 Prep Batch #....: 7058560 | | | | | | |
| Arsenic | ND | 0.0050 | mg/L | MCAWW 200.8 | 03/08/07 | JP67K1AA |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 20:21 | | | | |
| Barium | ND | 0.0010 | mg/L | MCAWW 200.8 | 03/08/07 | JP67K1AU |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 20:21 | | | | |
| Copper | ND | 0.0020 | mg/L | MCAWW 200.8 | 03/08/07 | JP67K1AE |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 20:21 | | | | |
| Lead | ND | 0.0010 | mg/L | MCAWW 200.8 | 03/08/07 | JP67K1AF |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 20:21 | | | | |
| Manganese | ND | 0.0010 | mg/L | MCAWW 200.8 | 03/08/07 | JP67K1AV |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 20:21 | | | | |
| Selenium | ND | 0.0050 | mg/L | MCAWW 200.8 | 03/08/07 | JP67K1AH |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 20:21 | | | | |

MB Lot-Sample #: D7B270000-569 **Prep Batch #....:** 7058569

| | | | | | | |
|----------|----|-------------------------|------|-------------|----------------|----------|
| Boron | ND | 0.10 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP6821AA |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 13:42 | | | | |
| Cadmium | ND | 0.0050 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP6821AC |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 13:42 | | | | |
| Calcium | ND | 0.20 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP6821AD |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 13:42 | | | | |
| Chromium | ND | 0.010 | mg/L | MCAWW 200.7 | 03/01-03/02/07 | JP6821AE |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 13:42 | | | | |

(Continued on next page)

METHOD BLANK REPORT**DISSOLVED Metals****Client Lot #...: D7B260110****Matrix.....: WATER**

| PARAMETER | RESULT | REPORTING | | | METHOD | PREPARATION- | WORK |
|-----------|--------|-------------------------|-------|---------------|--------|----------------|----------|
| | | LIMIT | UNITS | ANALYSIS DATE | | | |
| Iron | ND | 0.10 | mg/L | MCAWW 200.7 | | 03/01-03/02/07 | JP6821AF |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 13:42 | | | | | |
| Magnesium | ND | 0.20 | mg/L | MCAWW 200.7 | | 03/01-03/02/07 | JP6821AG |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 13:42 | | | | | |
| Potassium | ND | 3.0 | mg/L | MCAWW 200.7 | | 03/01-03/02/07 | JP6821AH |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 13:42 | | | | | |
| Silver | ND | 0.010 | mg/L | MCAWW 200.7 | | 03/01-03/02/07 | JP6821AJ |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 13:42 | | | | | |
| Sodium | ND | 5.0 | mg/L | MCAWW 200.7 | | 03/01-03/02/07 | JP6821AK |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 13:42 | | | | | |
| Zinc | ND | 0.020 | mg/L | MCAWW 200.7 | | 03/01-03/02/07 | JP6821AL |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 13:42 | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: D7B260110

Matrix.....: WATER

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>METHOD</u> | <u>PREPARATION-ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---------------------------------------|-------------------------|------------------------|-----------------------------------|---|---------------------|
| LCS Lot-Sample#: D7B270000-560 | | | Prep Batch #....: 7058560 | | |
| Arsenic | 103 | (89 - 111) | MCAWW 200.8 Dilution Factor: 1 | 03/08/07 Analysis Time...: 20:25 | JP67K1AK |
| Barium | 101 | (89 - 117) | MCAWW 200.8 Dilution Factor: 1 | 03/08/07 Analysis Time...: 20:25 | JP67K1AW |
| Copper | 102 | (90 - 117) | MCAWW 200.8 Dilution Factor: 1 | 03/08/07 Analysis Time...: 20:25 | JP67K1AN |
| Lead | 104 | (88 - 119) | MCAWW 200.8 Dilution Factor: 1 | 03/08/07 Analysis Time...: 20:25 | JP67K1AP |
| Manganese | 106 | (87 - 124) | MCAWW 200.8 Dilution Factor: 1 | 03/08/07 Analysis Time...: 20:25 | JP67K1AX |
| Selenium | 103 | (82 - 114) | MCAWW 200.8 Dilution Factor: 1 | 03/08/07 Analysis Time...: 20:25 | JP67K1AR |
| LCS Lot-Sample#: D7B270000-569 | | | Prep Batch #....: 7058569 | | |
| Boron | 95 | (86 - 110) | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 13:49 | JP6821AM |
| Cadmium | 98 | (88 - 111) | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 13:49 | JP6821AN |
| Calcium | 98 | (90 - 111) | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 13:49 | JP6821AP |
| Chromium | 97 | (90 - 113) | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 13:49 | JP6821AQ |
| Iron | 96 | (89 - 116) | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 13:49 | JP6821AR |
| Magnesium | 97 | (90 - 113) | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 13:49 | JP6821AT |
| Potassium | 102 | (89 - 114) | MCAWW 200.7 Dilution Factor: 1 | 03/01-03/02/07 Analysis Time...: 13:49 | JP6821AU |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: D7B260110

Matrix.....: WATER

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>METHOD</u> | <u>PREPARATION-</u> | <u>ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|------------------|-------------------------|------------------------|---------------|---------------------|----------------------|---------------------|
| Silver | 109 | (86 - 120) | MCAWW 200.7 | | 03/01-03/02/07 | JP6821AV |
| | | Dilution Factor: 1 | | Analysis Time...: | 13:49 | |
| Sodium | 98 | (90 - 117) | MCAWW 200.7 | | 03/01-03/02/07 | JP6821AW |
| | | Dilution Factor: 1 | | Analysis Time...: | 13:49 | |
| Zinc | 98 | (84 - 111) | MCAWW 200.7 | | 03/01-03/02/07 | JP6821AX |
| | | Dilution Factor: 1 | | Analysis Time...: | 13:49 | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #....: D7B260110

Matrix.....: WATER

| PARAMETER | SPIKE AMOUNT | MEASURED AMOUNT | UNITS | PERCNT RECVRY | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|--|-----------------|--------------------|-------|--------------------|--|-------------------------|
| LCS Lot-Sample#: D7B270000-560 Prep Batch #....: 7058560 | | | | | | |
| Arsenic | 0.0400 | 0.0414 | mg/L | 103 | MCAWW 200.8 Analysis Time...: 20:25 | 03/08/07 JP67K1AK |
| | | | | Dilution Factor: 1 | | |
| Barium | 0.0400 | 0.0403 | mg/L | 101 | MCAWW 200.8 Analysis Time...: 20:25 | 03/08/07 JP67K1AW |
| | | | | Dilution Factor: 1 | | |
| Copper | 0.0400 | 0.0408 | mg/L | 102 | MCAWW 200.8 Analysis Time...: 20:25 | 03/08/07 JP67K1AN |
| | | | | Dilution Factor: 1 | | |
| Lead | 0.0400 | 0.0416 | mg/L | 104 | MCAWW 200.8 Analysis Time...: 20:25 | 03/08/07 JP67K1AP |
| | | | | Dilution Factor: 1 | | |
| Manganese | 0.0400 | 0.0425 | mg/L | 106 | MCAWW 200.8 Analysis Time...: 20:25 | 03/08/07 JP67K1AX |
| | | | | Dilution Factor: 1 | | |
| Selenium | 0.0400 | 0.0414 | mg/L | 103 | MCAWW 200.8 Analysis Time...: 20:25 | 03/08/07 JP67K1AR |
| | | | | Dilution Factor: 1 | | |
| LCS Lot-Sample#: D7B270000-569 Prep Batch #....: 7058569 | | | | | | |
| Boron | 1.00 | 0.948 | mg/L | 95 | MCAWW 200.7 Analysis Time...: 13:49 | 03/01-03/02/07 JP6821AM |
| | | | | Dilution Factor: 1 | | |
| Cadmium | 0.100 | 0.0980 | mg/L | 98 | MCAWW 200.7 Analysis Time...: 13:49 | 03/01-03/02/07 JP6821AN |
| | | | | Dilution Factor: 1 | | |
| Calcium | 50.0 | 48.9 | mg/L | 98 | MCAWW 200.7 Analysis Time...: 13:49 | 03/01-03/02/07 JP6821AP |
| | | | | Dilution Factor: 1 | | |
| Chromium | 0.200 | 0.195 | mg/L | 97 | MCAWW 200.7 Analysis Time...: 13:49 | 03/01-03/02/07 JP6821AQ |
| | | | | Dilution Factor: 1 | | |
| Iron | 1.00 | 0.960 | mg/L | 96 | MCAWW 200.7 Analysis Time...: 13:49 | 03/01-03/02/07 JP6821AR |
| | | | | Dilution Factor: 1 | | |
| Magnesium | 50.0 | 48.6 | mg/L | 97 | MCAWW 200.7 Analysis Time...: 13:49 | 03/01-03/02/07 JP6821AT |
| | | | | Dilution Factor: 1 | | |
| Potassium | 50.0 | 50.8 | mg/L | 102 | MCAWW 200.7 Analysis Time...: 13:49 | 03/01-03/02/07 JP6821AU |
| | | | | Dilution Factor: 1 | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT**DISSOLVED Metals****Client Lot #....:** D7B260110**Matrix.....:** WATER

| PARAMETER | SPIKE | MEASURED | UNITS | PERCNT | | METHOD | PREPARATION- | WORK | ORDER # |
|-----------|--------|----------|--------------------|--------|--------|-------------------------|----------------|----------|---------|
| | AMOUNT | AMOUNT | | RECVRY | METHOD | | ANALYSIS DATE | WORK | |
| Silver | 0.0500 | 0.0544 | mg/L | 109 | MCAWW | 200.7 | 03/01-03/02/07 | JP6821AV | |
| | | | Dilution Factor: 1 | | | Analysis Time...: 13:49 | | | |
| Sodium | 50.0 | 48.9 | mg/L | 98 | MCAWW | 200.7 | 03/01-03/02/07 | JP6821AW | |
| | | | Dilution Factor: 1 | | | Analysis Time...: 13:49 | | | |
| Zinc | 0.500 | 0.492 | mg/L | 98 | MCAWW | 200.7 | 03/01-03/02/07 | JP6821AX | |
| | | | Dilution Factor: 1 | | | Analysis Time...: 13:49 | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #....: D7B260110

Matrix.....: WATER

Date Sampled...: 02/23/07 **Date Received...:** 02/23/07

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|--|-----------------------------|----------------------------|------------|-----------------------|---------------|---------------------------------------|-------------------------|
| MS Lot-Sample #: D7B230396-001 Prep Batch #....: 7058560 | | | | | | | |
| Arsenic | 118 | (79 - 120) | | | MCAWW 200.8 | 03/08/07 | JP2N71CR |
| | 118 | (79 - 120) 0.28 (0-30) | | | MCAWW 200.8 | 03/08/07 | JP2N71CT |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 20:32 | | | | | |
| Barium | 95 | (83 - 118) | | | MCAWW 200.8 | 03/08/07 | JP2N71DL |
| | 98 | (83 - 118) 1.0 (0-30) | | | MCAWW 200.8 | 03/08/07 | JP2N71DM |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 20:32 | | | | | |
| Copper | 97 | (82 - 114) | | | MCAWW 200.8 | 03/08/07 | JP2N71C0 |
| | 97 | (82 - 114) 0.22 (0-30) | | | MCAWW 200.8 | 03/08/07 | JP2N71C1 |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 20:32 | | | | | |
| Lead | 102 | (79 - 119) | | | MCAWW 200.8 | 03/08/07 | JP2N71C2 |
| | 103 | (79 - 119) 1.3 (0-30) | | | MCAWW 200.8 | 03/08/07 | JP2N71C3 |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 20:32 | | | | | |
| Manganese | 103 | (57 - 149) | | | MCAWW 200.8 | 03/08/07 | JP2N71DP |
| | 105 | (57 - 149) 1.4 (0-35) | | | MCAWW 200.8 | 03/08/07 | JP2N71DQ |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 20:32 | | | | | |
| Selenium | 134 | (64 - 134) | | | MCAWW 200.8 | 03/08/07 | JP2N71C6 |
| | 132 | (64 - 134) 1.4 (0-35) | | | MCAWW 200.8 | 03/08/07 | JP2N71C7 |
| | | Dilution Factor: 1 | | | | | |
| | | Analysis Time...: 20:32 | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #...: D7B260110

Matrix.....: WATER

Date Sampled...: 02/23/07 **Date Received...:** 02/23/07

| PARAMETER | SAMPLE | SPIKE | MEASRD | PERCNT | | | PREPARATION- ANALYSIS DATE | WORK ORDER # | | |
|---|-------------------------|--------|--------|--------|--------|------|-------------------------------|-------------------|--|--|
| | AMOUNT | AMT | AMOUNT | UNITS | RECVRY | RPD | | | | |
| MS Lot-Sample #: D7B230396-001 Prep Batch #...: 7058560 | | | | | | | | | | |
| Arsenic | | | | | | | | | | |
| | 0.0013 | 0.0400 | 0.0486 | mg/L | 118 | | MCAWW 200.8 | 03/08/07 JP2N71CR | | |
| | 0.0013 | 0.0400 | 0.0485 | mg/L | 118 | 0.28 | MCAWW 200.8 | 03/08/07 JP2N71CT | | |
| | Dilution Factor: 1 | | | | | | | | | |
| | Analysis Time...: 20:32 | | | | | | | | | |
| Barium | | | | | | | | | | |
| | 0.081 | 0.0400 | 0.119 | mg/L | 95 | | MCAWW 200.8 | 03/08/07 JP2N71DL | | |
| | 0.081 | 0.0400 | 0.120 | mg/L | 98 | 1.0 | MCAWW 200.8 | 03/08/07 JP2N71DM | | |
| | Dilution Factor: 1 | | | | | | | | | |
| | Analysis Time...: 20:32 | | | | | | | | | |
| Copper | | | | | | | | | | |
| | 0.00047 | 0.0400 | 0.0392 | mg/L | 97 | | MCAWW 200.8 | 03/08/07 JP2N71C0 | | |
| | 0.00047 | 0.0400 | 0.0392 | mg/L | 97 | 0.22 | MCAWW 200.8 | 03/08/07 JP2N71C1 | | |
| | Dilution Factor: 1 | | | | | | | | | |
| | Analysis Time...: 20:32 | | | | | | | | | |
| Lead | | | | | | | | | | |
| | ND | 0.0400 | 0.0408 | mg/L | 102 | | MCAWW 200.8 | 03/08/07 JP2N71C2 | | |
| | ND | 0.0400 | 0.0414 | mg/L | 103 | 1.3 | MCAWW 200.8 | 03/08/07 JP2N71C3 | | |
| | Dilution Factor: 1 | | | | | | | | | |
| | Analysis Time...: 20:32 | | | | | | | | | |
| Manganese | | | | | | | | | | |
| | 0.026 | 0.0400 | 0.0673 | mg/L | 103 | | MCAWW 200.8 | 03/08/07 JP2N71DP | | |
| | 0.026 | 0.0400 | 0.0683 | mg/L | 105 | 1.4 | MCAWW 200.8 | 03/08/07 JP2N71DQ | | |
| | Dilution Factor: 1 | | | | | | | | | |
| | Analysis Time...: 20:32 | | | | | | | | | |
| Selenium | | | | | | | | | | |
| | ND | 0.0400 | 0.0544 | mg/L | 134 | | MCAWW 200.8 | 03/08/07 JP2N71C6 | | |
| | ND | 0.0400 | 0.0537 | mg/L | 132 | 1.4 | MCAWW 200.8 | 03/08/07 JP2N71C7 | | |
| | Dilution Factor: 1 | | | | | | | | | |
| | Analysis Time...: 20:32 | | | | | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

DISSOLVED Metals

Client Lot #...: D7B260110

Matrix.....: WATER

Date Sampled...: 02/23/07 **Date Received...:** 02/24/07

| <u>PARAMETER</u> | <u>PERCENT RECOVERY</u> | <u>RECOVERY LIMITS</u> | <u>RPD</u> | <u>RPD LIMITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|---|-----------------------------|----------------------------|------------|-----------------------|-------------------------|---------------------------------------|-------------------------|
| MS Lot-Sample #: D7B260110-001 Prep Batch #...: 7058569 | | | | | | | |
| Boron | 94 | (86 - 110) | | MCAWW 200.7 | | 03/01-03/02/07 | JP4AW1CP |
| | 94 | (86 - 110) 0.17 (0-20) | | MCAWW 200.7 | Dilution Factor: 1 | 03/01-03/02/07 | JP4AW1CQ |
| | | | | | Analysis Time...: 15:07 | | |
| Cadmium | 102 | (88 - 111) | | MCAWW 200.7 | | 03/01-03/02/07 | JP4AW1CR |
| | 102 | (88 - 111) 0.47 (0-20) | | MCAWW 200.7 | Dilution Factor: 1 | 03/01-03/02/07 | JP4AW1CT |
| | | | | | Analysis Time...: 15:07 | | |
| Calcium | 100 | (90 - 111) | | MCAWW 200.7 | | 03/01-03/02/07 | JP4AW1CU |
| | 100 | (90 - 111) 0.29 (0-20) | | MCAWW 200.7 | Dilution Factor: 1 | 03/01-03/02/07 | JP4AW1CV |
| | | | | | Analysis Time...: 15:07 | | |
| Chromium | 102 | (90 - 113) | | MCAWW 200.7 | | 03/01-03/02/07 | JP4AW1CW |
| | 101 | (90 - 113) 0.47 (0-20) | | MCAWW 200.7 | Dilution Factor: 1 | 03/01-03/02/07 | JP4AW1CX |
| | | | | | Analysis Time...: 15:07 | | |
| Iron | 102 | (89 - 116) | | MCAWW 200.7 | | 03/01-03/02/07 | JP4AW1C0 |
| | 99 | (89 - 116) 2.2 (0-20) | | MCAWW 200.7 | Dilution Factor: 1 | 03/01-03/02/07 | JP4AW1C1 |
| | | | | | Analysis Time...: 15:07 | | |
| Magnesium | 101 | (90 - 113) | | MCAWW 200.7 | | 03/01-03/02/07 | JP4AW1C2 |
| | 99 | (90 - 113) 1.3 (0-20) | | MCAWW 200.7 | Dilution Factor: 1 | 03/01-03/02/07 | JP4AW1C3 |
| | | | | | Analysis Time...: 15:07 | | |
| Potassium | 107 | (89 - 114) | | MCAWW 200.7 | | 03/01-03/02/07 | JP4AW1C4 |
| | 106 | (89 - 114) 0.45 (0-20) | | MCAWW 200.7 | Dilution Factor: 1 | 03/01-03/02/07 | JP4AW1C5 |
| | | | | | Analysis Time...: 15:07 | | |
| Silver | 109 | (86 - 120) | | MCAWW 200.7 | | 03/01-03/02/07 | JP4AW1C6 |
| | 109 | (86 - 120) 0.45 (0-20) | | MCAWW 200.7 | Dilution Factor: 1 | 03/01-03/02/07 | JP4AW1C7 |
| | | | | | Analysis Time...: 15:07 | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT**DISSOLVED Metals****Client Lot #...:** D7B260110**Matrix.....:** WATER**Date Sampled...:** 02/23/07 10:30 **Date Received..:** 02/24/07

| PARAMETER | PERCENT | RECOVERY | RPD | METHOD | PREPARATION- | WORK |
|-----------|----------|-------------------------|--------|-------------|----------------|----------|
| | RECOVERY | LIMITS | RPD | | ANALYSIS DATE | ORDER # |
| Sodium | NC, MSB | (90 - 117) | | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1C8 |
| | NC, MSB | (90 - 117) | (0-20) | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1C9 |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 15:07 | | | | |
| Zinc | 100 | (84 - 111) | | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1DA |
| | 100 | (84 - 111) 0.06 | (0-20) | MCAWW 200.7 | 03/01-03/02/07 | JP4AW1DC |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 15:07 | | | | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #....: D7B260110

Matrix.....: WATER

Date Sampled....: 02/23/07 10:30 **Date Received...:** 02/24/07

| PARAMETER | SAMPLE | SPIKE | MEASRD | PERCNT | | | PREPARATION- | WORK | | | |
|--|--------|-------|--------|-------------------|--------|------|--------------|-------|-------------------------|--|--|
| | AMOUNT | AMT | AMOUNT | UNITS | RECVRY | RPD | | | | | |
| MS Lot-Sample #: D7B260110-001 Prep Batch #....: 7058569 | | | | | | | | | | | |
| Boron | | | | | | | | | | | |
| | 0.12 | 1.00 | 1.06 | mg/L | 94 | | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1CP | | |
| | 0.12 | 1.00 | 1.06 | mg/L | 94 | 0.17 | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1CQ | | |
| | | | | Dilution Factor: | 1 | | | | | | |
| | | | | Analysis Time...: | 15:07 | | | | | | |
| Cadmium | | | | | | | | | | | |
| | ND | 0.100 | 0.102 | mg/L | 102 | | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1CR | | |
| | ND | 0.100 | 0.102 | mg/L | 102 | 0.47 | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1CT | | |
| | | | | Dilution Factor: | 1 | | | | | | |
| | | | | Analysis Time...: | 15:07 | | | | | | |
| Calcium | | | | | | | | | | | |
| | 4.4 | 50.0 | 54.7 | mg/L | 100 | | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1CU | | |
| | 4.4 | 50.0 | 54.5 | mg/L | 100 | 0.29 | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1CV | | |
| | | | | Dilution Factor: | 1 | | | | | | |
| | | | | Analysis Time...: | 15:07 | | | | | | |
| Chromium | | | | | | | | | | | |
| | ND | 0.200 | 0.204 | mg/L | 102 | | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1CW | | |
| | ND | 0.200 | 0.203 | mg/L | 101 | 0.47 | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1CX | | |
| | | | | Dilution Factor: | 1 | | | | | | |
| | | | | Analysis Time...: | 15:07 | | | | | | |
| Iron | | | | | | | | | | | |
| | 0.037 | 1.00 | 1.05 | mg/L | 102 | | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1C0 | | |
| | 0.037 | 1.00 | 1.03 | mg/L | 99 | 2.2 | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1C1 | | |
| | | | | Dilution Factor: | 1 | | | | | | |
| | | | | Analysis Time...: | 15:07 | | | | | | |
| Magnesium | | | | | | | | | | | |
| | 1.9 | 50.0 | 52.2 | mg/L | 101 | | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1C2 | | |
| | 1.9 | 50.0 | 51.5 | mg/L | 99 | 1.3 | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1C3 | | |
| | | | | Dilution Factor: | 1 | | | | | | |
| | | | | Analysis Time...: | 15:07 | | | | | | |
| Potassium | | | | | | | | | | | |
| | 2.1 | 50.0 | 55.6 | mg/L | 107 | | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1C4 | | |
| | 2.1 | 50.0 | 55.3 | mg/L | 106 | 0.45 | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1C5 | | |
| | | | | Dilution Factor: | 1 | | | | | | |
| | | | | Analysis Time...: | 15:07 | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

DISSOLVED Metals

Client Lot #....: D7B260110

Matrix.....: WATER

Date Sampled....: 02/23/07 10:30 **Date Received..:** 02/24/07

| PARAMETER | SAMPLE | SPIKE | MEASRD | PERCNT | RECVRY | RPD | METHOD | PREPARATION- | WORK |
|---------------|------------------------|--------|------------------------|--------|--------|------|--------|---------------|-------------------------|
| | AMOUNT | AMT | AMOUNT | | UNITS | | | ANALYSIS DATE | ORDER # |
| Silver | | | | | | | | | |
| | ND | 0.0500 | 0.0549 | mg/L | 109 | | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1C6 |
| | ND | 0.0500 | 0.0547 | mg/L | 109 | 0.45 | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1C7 |
| | Dilution Factor: 1 | | | | | | | | |
| | Analysis Time..: 15:07 | | | | | | | | |
| Sodium | | | | | | | | | |
| | 290 | 50.0 | 365 | mg/L | | | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1C8 |
| | | | Qualifiers: NC,MSB | | | | | | |
| | 290 | 50.0 | 350 | mg/L | | | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1C9 |
| | | | Qualifiers: NC,MSB | | | | | | |
| | | | Dilution Factor: 1 | | | | | | |
| | | | Analysis Time..: 15:07 | | | | | | |
| Zinc | | | | | | | | | |
| | 0.0081 | 0.500 | 0.506 | mg/L | 100 | | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1DA |
| | 0.0081 | 0.500 | 0.507 | mg/L | 100 | 0.06 | MCAWW | 200.7 | 03/01-03/02/07 JP4AW1DC |
| | | | Dilution Factor: 1 | | | | | | |
| | | | Analysis Time..: 15:07 | | | | | | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

NC The recovery and/or RPD were not calculated.

MSB The recovery and RPD were not calculated because the sample amount was greater than four times the spike amount.

METHOD BLANK REPORT

General Chemistry

Client Lot #....: D7B260110

Matrix.....: WATER

| PARAMETER | RESULT | REPORTING | | | METHOD | PREPARATION-ANALYSIS DATE | PREP BATCH # |
|-----------------------------------|--------|--------------------------------|-------|-------------------------------|-------------------------|---------------------------|--------------|
| | | LIMIT | UNITS | | | | |
| Bicarbonate, as CaCO ₃ | ND | Work Order #: JQED01AA 5.0 | mg/L | MB Lot-Sample #: MCAWW 310.1 | Dilution Factor: 1 | D7C020000-275 03/01/07 | 7061275 |
| | | | | | Analysis Time...: 00:00 | | |
| Bromide | ND | Work Order #: JP5VA1AA 0.20 | mg/L | MB Lot-Sample #: MCAWW 300.0A | Dilution Factor: 1 | D7B270000-223 02/26/07 | 7058223 |
| | | | | | Analysis Time...: 09:37 | | |
| Carbonate, as CaCO ₃ | ND | Work Order #: JQEF01AA 5.0 | mg/L | MB Lot-Sample #: MCAWW 310.1 | Dilution Factor: 1 | D7C020000-278 03/01/07 | 7061278 |
| | | | | | Analysis Time...: 17:00 | | |
| Chloride | ND | Work Order #: JP5T21AA 3.0 | mg/L | MB Lot-Sample #: MCAWW 300.0A | Dilution Factor: 1 | D7B270000-220 02/26/07 | 7058220 |
| | | | | | Analysis Time...: 09:37 | | |
| Fluoride | ND | Work Order #: JP5TR1AA 0.50 | mg/L | MB Lot-Sample #: MCAWW 300.0A | Dilution Factor: 1 | D7B270000-221 02/26/07 | 7058221 |
| | | | | | Analysis Time...: 09:37 | | |
| Hydroxide, as CaCO ₃ | ND | Work Order #: JQEG11AA 5.0 | mg/L | MB Lot-Sample #: MCAWW 310.1 | Dilution Factor: 1 | D7C020000-279 03/01/07 | 7061279 |
| | | | | | Analysis Time...: 17:00 | | |
| Nitrate | ND | Work Order #: JP5VD1AA 0.50 | mg/L | MB Lot-Sample #: MCAWW 300.0A | Dilution Factor: 1 | D7B270000-224 02/26/07 | 7058224 |
| | | | | | Analysis Time...: 09:37 | | |
| Nitrite | ND | Work Order #: JP5T61AA 0.50 | mg/L | MB Lot-Sample #: MCAWW 300.0A | Dilution Factor: 1 | D7B270000-225 02/26/07 | 7058225 |
| | | | | | Analysis Time...: 09:37 | | |
| Sulfate | ND | Work Order #: JP5VN1AA 5.0 | mg/L | MB Lot-Sample #: MCAWW 300.0A | Dilution Factor: 1 | D7B270000-222 02/26/07 | 7058222 |
| | | | | | Analysis Time...: 09:37 | | |

(Continued on next page)

METHOD BLANK REPORT**General Chemistry****Client Lot #....:** D7B260110**Matrix.....:** WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION- ANALYSIS DATE</u> | <u>PREP BATCH #</u> |
|------------------------|---------------|----------------------------|------------------|---------------|---------------------------------------|-------------------------|
| Sulfate | | Work Order #: JQHRQ1AA | MB Lot-Sample #: | D7C060000-158 | | |
| | ND | 5.0 | mg/L | MCAWW 300.0A | 03/05/07 | 7065158 |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 14:30 | | | | |
| Total Alkalinity | | Work Order #: JQEAE51AA | MB Lot-Sample #: | D7C020000-268 | | |
| | 1.1 B | 5.0 | mg/L | MCAWW 310.1 | 03/01/07 | 7061268 |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 17:00 | | | | |
| Total Dissolved Solids | | Work Order #: JQEMR1AA | MB Lot-Sample #: | D7B280000-535 | | |
| | ND | 10 | mg/L | MCAWW 160.1 | 02/28/07 | 7059535 |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 14:10 | | | | |
| Total Sulfide | | Work Order #: JP60T1AA | MB Lot-Sample #: | D7B270000-511 | | |
| | ND | 0.050 | mg/L | MCAWW 376.2 | 02/27/07 | 7058511 |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 16:00 | | | | |
| Total Suspended Solids | | Work Order #: JQAEL1AA | MB Lot-Sample #: | D7B280000-526 | | |
| | ND | 4.0 | mg/L | MCAWW 160.2 | 02/28/07 | 7059526 |
| | | Dilution Factor: 1 | | | | |
| | | Analysis Time...: 14:00 | | | | |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #....: D7B260110

Matrix.....: WATER

| PARAMETER | PERCENT | RECOVERY | RPD | METHOD | PREPARATION- | PREP |
|-----------|----------|------------|--------------------|--------------------------------|-------------------------|----------------------------|
| | RECOVERY | LIMITS | RPD | | ANALYSIS DATE | BATCH # |
| pH | | | | WO#:JP82D1AA-LCS/JP82D1AC-LCSD | LCS | Lot-Sample#: D7B270000-532 |
| | 100 | (97 - 102) | | MCAWW | 150.1 | 02/27/07 7058532 |
| | 100 | (97 - 102) | 0.14 (0-5.0) | MCAWW | 150.1 | 02/27/07 7058532 |
| | | | Dilution Factor: 1 | | Analysis Time...: 09:40 | |
| Bromide | | | | WO#:JP5VA1AC-LCS/JP5VA1AD-LCSD | LCS | Lot-Sample#: D7B270000-223 |
| | 101 | (90 - 110) | | MCAWW | 300.0A | 02/26/07 7058223 |
| | 101 | (90 - 110) | 0.55 (0-10) | MCAWW | 300.0A | 02/26/07 7058223 |
| | | | Dilution Factor: 1 | | Analysis Time...: 09:03 | |
| Chloride | | | | WO#:JP5T21AC-LCS/JP5T21AD-LCSD | LCS | Lot-Sample#: D7B270000-220 |
| | 101 | (90 - 110) | | MCAWW | 300.0A | 02/26/07 7058220 |
| | 99 | (90 - 110) | 1.5 (0-10) | MCAWW | 300.0A | 02/26/07 7058220 |
| | | | Dilution Factor: 1 | | Analysis Time...: 09:03 | |
| Fluoride | | | | WO#:JP5TR1AC-LCS/JP5TR1AD-LCSD | LCS | Lot-Sample#: D7B270000-221 |
| | 99 | (90 - 110) | | MCAWW | 300.0A | 02/26/07 7058221 |
| | 98 | (90 - 110) | 0.80 (0-10) | MCAWW | 300.0A | 02/26/07 7058221 |
| | | | Dilution Factor: 1 | | Analysis Time...: 09:03 | |
| Nitrate | | | | WO#:JP5VD1AC-LCS/JP5VD1AD-LCSD | LCS | Lot-Sample#: D7B270000-224 |
| | 97 | (90 - 110) | | MCAWW | 300.0A | 02/26/07 7058224 |
| | 95 | (90 - 110) | 1.5 (0-10) | MCAWW | 300.0A | 02/26/07 7058224 |
| | | | Dilution Factor: 1 | | Analysis Time...: 09:03 | |
| Nitrite | | | | WO#:JP5T61AC-LCS/JP5T61AD-LCSD | LCS | Lot-Sample#: D7B270000-225 |
| | 94 | (90 - 110) | | MCAWW | 300.0A | 02/26/07 7058225 |
| | 94 | (90 - 110) | 0.01 (0-10) | MCAWW | 300.0A | 02/26/07 7058225 |
| | | | Dilution Factor: 1 | | Analysis Time...: 09:03 | |
| Sulfate | | | | WO#:JP5VN1AC-LCS/JP5VN1AD-LCSD | LCS | Lot-Sample#: D7B270000-222 |
| | 101 | (90 - 110) | | MCAWW | 300.0A | 02/26/07 7058222 |
| | 99 | (90 - 110) | 2.0 (0-10) | MCAWW | 300.0A | 02/26/07 7058222 |
| | | | Dilution Factor: 1 | | Analysis Time...: 09:03 | |
| Sulfate | | | | WO#:JQHRQ1AC-LCS/JQHRQ1AD-LCSD | LCS | Lot-Sample#: D7C060000-158 |
| | 95 | (90 - 110) | | MCAWW | 300.0A | 03/05/07 7065158 |
| | 96 | (90 - 110) | 0.49 (0-10) | MCAWW | 300.0A | 03/05/07 7065158 |
| | | | Dilution Factor: 1 | | Analysis Time...: 13:57 | |

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #....: D7B260110

Matrix.....: WATER

| <u>PARAMETER</u> | <u>PERCENT</u> | <u>RECOVERY</u> | <u>RPD</u> | <u>LIMITS</u> | <u>RPD</u> | <u>LIMITS</u> | <u>METHOD</u> | <u>PREPARATION-</u> | <u>PREP</u> |
|------------------------|----------------|-----------------|------------|--------------------------------|------------|---------------|-------------------|----------------------|----------------|
| | | | | | | | | <u>ANALYSIS DATE</u> | <u>BATCH #</u> |
| Total Alkalinity | | | | WO#:JQEA51AC-LCS/JQEA51AD-LCSD | | LCS | Lot-Sample#: | D7C020000-268 | |
| | 95 | (90 - 110) | | | | MCAWW 310.1 | | 03/01/07 | 7061268 |
| | 96 | (90 - 110) | 0.52 | (0-10) | | MCAWW 310.1 | | 03/01/07 | 7061268 |
| | | | | Dilution Factor: 1 | | | Analysis Time...: | 17:00 | |
| Total Dissolved Solids | | | | WO#:JQEMR1AC-LCS/JQEMR1AD-LCSD | | LCS | Lot-Sample#: | D7B280000-535 | |
| | 103 | (86 - 106) | | | | MCAWW 160.1 | | 02/28/07 | 7059535 |
| | 104 | (86 - 106) | 0.57 | (0-20) | | MCAWW 160.1 | | 02/28/07 | 7059535 |
| | | | | Dilution Factor: 1 | | | Analysis Time...: | 14:10 | |
| Total Sulfide | | | | WO#:JP60T1AC-LCS/JP60T1AD-LCSD | | LCS | Lot-Sample#: | D7B270000-511 | |
| | 104 | (83 - 112) | | | | MCAWW 376.2 | | 02/27/07 | 7058511 |
| | 108 | (83 - 112) | 3.3 | (0-10) | | MCAWW 376.2 | | 02/27/07 | 7058511 |
| | | | | Dilution Factor: 1 | | | Analysis Time...: | 16:00 | |
| Total Suspended Solids | | | | WO#:JQAEL1AC-LCS/JQAEL1AD-LCSD | | LCS | Lot-Sample#: | D7B280000-526 | |
| | 94 | (86 - 114) | | | | MCAWW 160.2 | | 02/28/07 | 7059526 |
| | 94 | (86 - 114) | 0.0 | (0-20) | | MCAWW 160.2 | | 02/28/07 | 7059526 |
| | | | | Dilution Factor: 1 | | | Analysis Time...: | 14:00 | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #....: D7B260110

Matrix.....: WATER

| PARAMETER | SPIKE | MEASURED | PERCNT | | | METHOD | PREPARATION- | PREP |
|-----------|--------|----------|--------------------------------|--------|--------------|-------------------------|---------------|---------|
| | AMOUNT | AMOUNT | UNITS | RECVRY | RPD | | ANALYSIS DATE | BATCH # |
| pH | | | WO#:JP82D1AA-LCS/JP82D1AC-LCSD | LCS | Lot-Sample#: | D7B270000-532 | | |
| | 7.00 | 7.02 | No Units | 100 | | MCAWW 150.1 | 02/27/07 | 7058532 |
| | 7.00 | 7.03 | No Units | 100 | 0.14 | MCAWW 150.1 | 02/27/07 | 7058532 |
| | | | Dilution Factor: | 1 | | Analysis Time...: 09:40 | | |
| Bromide | | | WO#:JP5VA1AC-LCS/JP5VA1AD-LCSD | LCS | Lot-Sample#: | D7B270000-223 | | |
| | 5.00 | 5.07 | mg/L | 101 | | MCAWW 300.0A | 02/26/07 | 7058223 |
| | 5.00 | 5.04 | mg/L | 101 | 0.55 | MCAWW 300.0A | 02/26/07 | 7058223 |
| | | | Dilution Factor: | 1 | | Analysis Time...: 09:03 | | |
| Chloride | | | WO#:JP5T21AC-LCS/JP5T21AD-LCSD | LCS | Lot-Sample#: | D7B270000-220 | | |
| | 25.0 | 25.2 | mg/L | 101 | | MCAWW 300.0A | 02/26/07 | 7058220 |
| | 25.0 | 24.9 | mg/L | 99 | 1.5 | MCAWW 300.0A | 02/26/07 | 7058220 |
| | | | Dilution Factor: | 1 | | Analysis Time...: 09:03 | | |
| Fluoride | | | WO#:JP5TR1AC-LCS/JP5TR1AD-LCSD | LCS | Lot-Sample#: | D7B270000-221 | | |
| | 5.00 | 4.96 | mg/L | 99 | | MCAWW 300.0A | 02/26/07 | 7058221 |
| | 5.00 | 4.92 | mg/L | 98 | 0.80 | MCAWW 300.0A | 02/26/07 | 7058221 |
| | | | Dilution Factor: | 1 | | Analysis Time...: 09:03 | | |
| Nitrate | | | WO#:JP5VD1AC-LCS/JP5VD1AD-LCSD | LCS | Lot-Sample#: | D7B270000-224 | | |
| | 5.00 | 4.83 | mg/L | 97 | | MCAWW 300.0A | 02/26/07 | 7058224 |
| | 5.00 | 4.76 | mg/L | 95 | 1.5 | MCAWW 300.0A | 02/26/07 | 7058224 |
| | | | Dilution Factor: | 1 | | Analysis Time...: 09:03 | | |
| Nitrite | | | WO#:JP5T61AC-LCS/JP5T61AD-LCSD | LCS | Lot-Sample#: | D7B270000-225 | | |
| | 5.00 | 4.71 | mg/L | 94 | | MCAWW 300.0A | 02/26/07 | 7058225 |
| | 5.00 | 4.71 | mg/L | 94 | 0.01 | MCAWW 300.0A | 02/26/07 | 7058225 |
| | | | Dilution Factor: | 1 | | Analysis Time...: 09:03 | | |
| Sulfate | | | WO#:JP5VN1AC-LCS/JP5VN1AD-LCSD | LCS | Lot-Sample#: | D7B270000-222 | | |
| | 25.0 | 25.2 | mg/L | 101 | | MCAWW 300.0A | 02/26/07 | 7058222 |
| | 25.0 | 24.7 | mg/L | 99 | 2.0 | MCAWW 300.0A | 02/26/07 | 7058222 |
| | | | Dilution Factor: | 1 | | Analysis Time...: 09:03 | | |
| Sulfate | | | WO#:JQHRQ1AC-LCS/JQHRQ1AD-LCSD | LCS | Lot-Sample#: | D7C060000-158 | | |
| | 25.0 | 23.8 | mg/L | 95 | | MCAWW 300.0A | 03/05/07 | 7065158 |
| | 25.0 | 23.9 | mg/L | 96 | 0.49 | MCAWW 300.0A | 03/05/07 | 7065158 |
| | | | Dilution Factor: | 1 | | Analysis Time...: 13:57 | | |

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #....: D7B260110

Matrix.....: WATER

| PARAMETER | SPIKE | MEASURED | PERCNT | | | METHOD | PREPARATION- | PREP |
|------------------------|--------|----------|--------------------------------|--------|------|--------|------------------|------------------|
| | AMOUNT | AMOUNT | UNITS | RECVRY | RPD | | ANALYSIS DATE | BATCH # |
| Total Alkalinity | | | WO#:JQEA51AC-LCS/JQEA51AD-LCSD | | | LCS | Lot-Sample#: | D7C020000-268 |
| | 200 | 190 | mg/L | 95 | | MCAWW | 310.1 | 03/01/07 7061268 |
| | 200 | 191 | mg/L | 96 | 0.52 | MCAWW | 310.1 | 03/01/07 7061268 |
| | | | Dilution Factor: 1 | | | | Analysis Time..: | 17:00 |
| Total Dissolved Solids | | | WO#:JQEMR1AC-LCS/JQEMR1AD-LCSD | | | LCS | Lot-Sample#: | D7B280000-535 |
| | 500 | 517 | mg/L | 103 | | MCAWW | 160.1 | 02/28/07 7059535 |
| | 500 | 520 | mg/L | 104 | 0.57 | MCAWW | 160.1 | 02/28/07 7059535 |
| | | | Dilution Factor: 1 | | | | Analysis Time..: | 14:10 |
| Total Sulfide | | | WO#:JP60T1AC-LCS/JP60T1AD-LCSD | | | LCS | Lot-Sample#: | D7B270000-511 |
| | 0.538 | 0.560 | mg/L | 104 | | MCAWW | 376.2 | 02/27/07 7058511 |
| | 0.538 | 0.579 | mg/L | 108 | 3.3 | MCAWW | 376.2 | 02/27/07 7058511 |
| | | | Dilution Factor: 1 | | | | Analysis Time..: | 16:00 |
| Total Suspended Solids | | | WO#:JQAEL1AC-LCS/JQAEL1AD-LCSD | | | LCS | Lot-Sample#: | D7B280000-526 |
| | 100 | 94.0 | mg/L | 94 | | MCAWW | 160.2 | 02/28/07 7059526 |
| | 100 | 94.0 | mg/L | 94 | 0.0 | MCAWW | 160.2 | 02/28/07 7059526 |
| | | | Dilution Factor: 1 | | | | Analysis Time..: | 14:00 |

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: D7B260110

Matrix.....: WATER

Date Sampled...: 02/19/07 17:00 **Date Received...:** 02/23/07

| PARAMETER | PERCENT | RECOVERY | RPD | METHOD | PREPARATION- | PREP |
|-----------|----------|------------|-------------------------------|-------------------------|---------------|---------------|
| | RECOVERY | LIMITS | RPD | | ANALYSIS DATE | BATCH # |
| Bromide | | | WO#: JP4AW1CH-MS/JP4AW1CJ-MSD | MS | Lot-Sample #: | D7B260110-001 |
| | 88 | (80 - 120) | | MCAWW 300.0A | 02/26/07 | 7058223 |
| | 91 | (80 - 120) | 2.7 (0-20) | MCAWW 300.0A | 02/26/07 | 7058223 |
| | | | | Dilution Factor: 1 | | |
| | | | | Analysis Time...: 11:00 | | |
| Chloride | | | WO#: JP4AW1CF-MS/JP4AW1CG-MSD | MS | Lot-Sample #: | D7B260110-001 |
| | 112 | (80 - 120) | | MCAWW 300.0A | 02/26/07 | 7058220 |
| | 115 | (80 - 120) | 1.4 (0-20) | MCAWW 300.0A | 02/26/07 | 7058220 |
| | | | | Dilution Factor: 1 | | |
| | | | | Analysis Time...: 11:00 | | |
| Fluoride | | | WO#: JP4AW1CD-MS/JP4AW1CE-MSD | MS | Lot-Sample #: | D7B260110-001 |
| | 102 | (80 - 120) | | MCAWW 300.0A | 02/26/07 | 7058221 |
| | 104 | (80 - 120) | 1.7 (0-20) | MCAWW 300.0A | 02/26/07 | 7058221 |
| | | | | Dilution Factor: 1 | | |
| | | | | Analysis Time...: 11:00 | | |
| Nitrate | | | WO#: JP4AW1DG-MS/JP4AW1DH-MSD | MS | Lot-Sample #: | D7B260110-001 |
| | 98 | (80 - 120) | | MCAWW 300.0A | 02/26/07 | 7058224 |
| | 100 | (80 - 120) | 2.4 (0-20) | MCAWW 300.0A | 02/26/07 | 7058224 |
| | | | | Dilution Factor: 1 | | |
| | | | | Analysis Time...: 10:44 | | |
| Nitrite | | | WO#: JP4AW1DJ-MS/JP4AW1DK-MSD | MS | Lot-Sample #: | D7B260110-001 |
| | 98 | (80 - 120) | | MCAWW 300.0A | 02/26/07 | 7058225 |
| | 100 | (80 - 120) | 2.6 (0-20) | MCAWW 300.0A | 02/26/07 | 7058225 |
| | | | | Dilution Factor: 1 | | |
| | | | | Analysis Time...: 10:44 | | |
| Sulfate | | | WO#: JP1MA1CT-MS/JP1MA1CU-MSD | MS | Lot-Sample #: | D7B230276-001 |
| | 104 | (80 - 120) | | MCAWW 300.0A | 03/05/07 | 7065158 |
| | 109 | (80 - 120) | 2.6 (0-20) | MCAWW 300.0A | 03/05/07 | 7065158 |
| | | | | Dilution Factor: 5 | | |
| | | | | Analysis Time...: 20:36 | | |
| Sulfate | | | WO#: JP4AW1CK-MS/JP4AW1CL-MSD | MS | Lot-Sample #: | D7B260110-001 |
| | 115 | (80 - 120) | | MCAWW 300.0A | 02/26/07 | 7058222 |
| | 118 | (80 - 120) | 1.2 (0-20) | MCAWW 300.0A | 02/26/07 | 7058222 |
| | | | | Dilution Factor: 1 | | |
| | | | | Analysis Time...: 11:00 | | |

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #....: D7B260110

Matrix.....: WATER

Date Sampled....: 02/19/07 17:00 **Date Received..:** 02/23/07

| PARAMETER | PERCENT | RECOVERY | RPD | | | METHOD | PREPARATION- | PREP | BATCH # |
|---------------|----------|------------|------|--------------------------|------------------|-------------------|---------------|---------------|---------|
| | RECOVERY | LIMITS | RPD | LIMITS | | | ANALYSIS | DATE | |
| Total Sulfide | | | WO#: | JP4AW1CM-MS/JP4AW1CN-MSD | | MS | Lot-Sample #: | D7B260110-001 | |
| | 73 | (20 - 156) | | | | MCAWW | 376.2 | 02/27/07 | 7058511 |
| | 83 | (20 - 156) | 4.1 | (0-30) | | MCAWW | 376.2 | 02/27/07 | 7058511 |
| | | | | | Dilution Factor: | 1 | | | |
| | | | | | | Analysis Time...: | 16:00 | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #...: D7B260110

Matrix.....: WATER

Date Sampled...: 02/19/07 17:00 **Date Received...:** 02/23/07

| PARAMETER | SAMPLE | SPIKE | MEASRD | | PERCNT | | | PREPARATION- | | PREP |
|-----------|--------|-------|-------------------------|--------------------------|--------------------------|-----|---------------|---------------|---------------|----------|
| | AMOUNT | AMT | AMOUNT | UNITS | RECVRY | RPD | METHOD | ANALYSIS | DATE | BATCH # |
| Bromide | | | | | | | | | | |
| | | | | WO#: | JP4AW1CH-MS/JP4AW1CJ-MSD | | MS | Lot-Sample #: | D7B260110-001 | |
| | 0.21 | 5.00 | 4.61 | mg/L | | 88 | | MCAWW | 300.0A | 02/26/07 |
| | 0.21 | 5.00 | 4.74 | mg/L | | 91 | 2.7 | MCAWW | 300.0A | 02/26/07 |
| | | | Dilution Factor: 1 | | | | | | | |
| | | | Analysis Time...: 11:00 | | | | | | | |
| Chloride | | | | | | | | | | |
| | | | WO#: | JP4AW1CF-MS/JP4AW1CG-MSD | | MS | Lot-Sample #: | D7B260110-001 | | |
| | 19 | 25.0 | 47.0 | mg/L | | 112 | | MCAWW | 300.0A | 02/26/07 |
| | 19 | 25.0 | 47.7 | mg/L | | 115 | 1.4 | MCAWW | 300.0A | 02/26/07 |
| | | | Dilution Factor: 1 | | | | | | | |
| | | | Analysis Time...: 11:00 | | | | | | | |
| Fluoride | | | | | | | | | | |
| | | | WO#: | JP4AW1CD-MS/JP4AW1CE-MSD | | MS | Lot-Sample #: | D7B260110-001 | | |
| | 2.7 | 5.00 | 7.79 | mg/L | | 102 | | MCAWW | 300.0A | 02/26/07 |
| | 2.7 | 5.00 | 7.93 | mg/L | | 104 | 1.7 | MCAWW | 300.0A | 02/26/07 |
| | | | Dilution Factor: 1 | | | | | | | |
| | | | Analysis Time...: 11:00 | | | | | | | |
| Nitrate | | | | | | | | | | |
| | | | WO#: | JP4AW1DG-MS/JP4AW1DH-MSD | | MS | Lot-Sample #: | D7B260110-001 | | |
| | ND | 5.00 | 4.89 | mg/L | | 98 | | MCAWW | 300.0A | 02/26/07 |
| | ND | 5.00 | 5.01 | mg/L | | 100 | 2.4 | MCAWW | 300.0A | 02/26/07 |
| | | | Dilution Factor: 1 | | | | | | | |
| | | | Analysis Time...: 10:44 | | | | | | | |
| Nitrite | | | | | | | | | | |
| | | | WO#: | JP4AW1DJ-MS/JP4AW1DK-MSD | | MS | Lot-Sample #: | D7B260110-001 | | |
| | ND | 5.00 | 4.89 | mg/L | | 98 | | MCAWW | 300.0A | 02/26/07 |
| | ND | 5.00 | 5.02 | mg/L | | 100 | 2.6 | MCAWW | 300.0A | 02/26/07 |
| | | | Dilution Factor: 1 | | | | | | | |
| | | | Analysis Time...: 10:44 | | | | | | | |
| Sulfate | | | | | | | | | | |
| | | | WO#: | JP1MA1CT-MS/JP1MA1CU-MSD | | MS | Lot-Sample #: | D7B230276-001 | | |
| | 110 | 125 | 239 | mg/L | | 104 | | MCAWW | 300.0A | 03/05/07 |
| | 110 | 125 | 246 | mg/L | | 109 | 2.6 | MCAWW | 300.0A | 03/05/07 |
| | | | Dilution Factor: 5 | | | | | | | |
| | | | Analysis Time...: 20:36 | | | | | | | |
| Sulfate | | | | | | | | | | |
| | | | WO#: | JP4AW1CK-MS/JP4AW1CL-MSD | | MS | Lot-Sample #: | D7B260110-001 | | |
| | 27 | 25.0 | 56.1 | mg/L | | 115 | | MCAWW | 300.0A | 02/26/07 |
| | 27 | 25.0 | 56.8 | mg/L | | 118 | 1.2 | MCAWW | 300.0A | 02/26/07 |
| | | | Dilution Factor: 1 | | | | | | | |
| | | | Analysis Time...: 11:00 | | | | | | | |

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

General Chemistry

Client Lot #....: D7B260110

Matrix.....: WATER

Date Sampled....: 02/19/07 17:00 **Date Received..:** 02/23/07

| <u>SAMPLE</u> | <u>SPIKE</u> | <u>MEASRD</u> | <u>PERCNT</u> | | | <u>PREPARATION-</u> | <u>PREP</u> | |
|------------------|---------------|---------------|-------------------------|---------------|---------------|---------------------|----------------------|----------------|
| <u>PARAMETER</u> | <u>AMOUNT</u> | <u>AMOUNT</u> | <u>UNITS</u> | <u>RECVRY</u> | <u>RPD</u> | <u>METHOD</u> | <u>ANALYSIS DATE</u> | <u>BATCH #</u> |
| Total Sulfide | | | WO#: | JP4AW1CM-MS | /JP4AW1CN-MSD | MS Lot-Sample #: | D7B260110-001 | |
| | 0.87 | 0.538 | 1.26 | mg/L | 73 | MCAWW 376.2 | 02/27/07 | 7058511 |
| | 0.87 | 0.538 | 1.31 | mg/L | 83 | 4.1 MCAWW 376.2 | 02/27/07 | 7058511 |
| | | | Dilution Factor: 1 | | | | | |
| | | | Analysis Time...: 16:00 | | | | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: D7B260110

Work Order #....: JPX80-SMP

Matrix.....: WATER

JPX80-DUP

Date Sampled....: 02/22/07

Date Received...: 02/22/07

| <u>PARAM</u> | <u>RESULT</u> | <u>DUPLICATE</u> | <u>UNITS</u> | <u>RPD</u> | <u>RPD</u> | <u>LIMIT</u> | <u>METHOD</u> | <u>PREPARATION-</u> | <u>PREP</u> | <u>ANALYSIS</u> | <u>DATE</u> | <u>BATCH #</u> |
|--------------|---------------|------------------|--------------|--------------------|------------|--------------|---------------|---------------------|---------------|-----------------|-------------|----------------|
| pH | 7.6 | 7.6 | No Units | 0.0 | (0-5.0) | MCAWW | 150.1 | SD Lot-Sample #: | D7B220135-006 | 02/27/07 | 7058532 | |
| | | | | Dilution Factor: 1 | | | | Analysis Time...: | 12:54 | | | |

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: D7B260110

Work Order #....: JP53H-SMP

JP53H-DUP

Matrix.....: WATER

Date Sampled....: 02/26/07 15:20 **Date Received...:** 02/27/07

| <u>PARAM</u> | <u>RESULT</u> | <u>DUPPLICATE</u> | <u>UNITS</u> | <u>RPD</u> | <u>RPD</u> | <u>METHOD</u> | <u>PREPARATION-</u> | <u>PREP</u> |
|------------------------|---------------|-------------------|--------------|--------------------|--------------|---------------|--------------------------------|-------------|
| | | | | | <u>LIMIT</u> | | <u>ANALYSIS</u> | <u>DATE</u> |
| Total Suspended Solids | ND | ND | mg/L | 0 | (0-20) | MCAWW | SD Lot-Sample #: D7B270184-003 | 02/28/07 |
| | | | | | | 160.2 | | 7059527 |
| | | | | Dilution Factor: 1 | | | Analysis Time...: 14:00 | |

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: D7B260110 **Work Order #....:** JP5MX-SMP
 JP5MX-DUP

Date Sampled....: 02/25/07 13:50 **Date Received..:** 02/27/07

| <u>PARAM</u> | <u>RESULT</u> | <u>DUPLICATE</u> | <u>RESULT</u> | <u>UNITS</u> | <u>RPD</u> | <u>RPD</u> | <u>LIMIT</u> | <u>METHOD</u> | <u>PREPARATION-</u> | <u>PREP</u> |
|------------------------|---------------|------------------|---------------|------------------|------------|------------|--------------|------------------|----------------------|----------------|
| | | | | | | | | | <u>ANALYSIS DATE</u> | <u>BATCH #</u> |
| Total Dissolved Solids | | | | | | | | SD Lot-Sample #: | D7B270130-001 | |
| | 51 | | 48 | mg/L | 6.1 | (0-20) | MCAWW 160.1 | | 02/28/07 | 7059535 |
| | | | | Dilution Factor: | 1 | | | Analysis Time..: | 14:10 | |

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: D7B260110

Work Order #....: JPX5X-SMP
JPX5X-DUP

Matrix.....: WATER

Date Sampled....: 02/22/07

Date Received...: 02/22/07

| <u>PARAM</u> | <u>RESULT</u> | <u>DUPPLICATE</u> | <u>UNITS</u> | <u>RPD</u> | <u>RPD</u> | <u>LIMIT</u> | <u>METHOD</u> | <u>PREPARATION-</u> | <u>PREP</u> | <u>ANALYSIS DATE</u> | <u>BATCH #</u> |
|------------------|---------------|-------------------|--------------|------------|--------------------|--------------|------------------|---------------------|-------------|----------------------|----------------|
| Total Alkalinity | 72 J | 73 | mg/L | 1.7 | (0-10) | MCAWW 310.1 | SD Lot-Sample #: | D7B220135-005 | 03/01/07 | 7061268 | |
| | | | | | Dilution Factor: 1 | | | Analysis Time...: | 17:00 | | |

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Denver
Sample Receiving Checklist

Lot #: D7B260110 Date/Time Received: 2/24/07 0920

Company Name & Sampling Site: Applied Hydrology Ass.

PM to Complete This Section: Yes No
Residual chlorine check required:

Quote #: 73407

Special Instructions:

Time Zone:

• EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

Unpacking Checks:

Cooler #(s): 1

Temperatures (°C): 2.8

N/A Yes No

Initials

P5

- 1. Cooler seals intact? (N/A if hand delivered) If no, document on CUR.
- 2. Chain of custody present? If no, document on CUR.
- 3. Bottles broken and/or are leaking? If yes, document on CUR.
- 4. Multiphasic samples obvious? If yes, document on CUR.
- 5. Proper container & preservatives used? (ref. Attachment D of SOP# DEN-QA-0003) If no, document on CUR.
- 6. pH of all samples checked and meet requirements? If no, document on CUR.
- 7. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DEN-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 8. Did chain of custody agree with labels ID and samples received? If no, document on CUR.
- 9. Were VOA samples without headspace? If no, document on CUR.
- 10. Were VOA vials preserved? Preservative HCl 4±2°C Sodium Thiosulfate Ascorbic Acid
 11. Did samples require preservation with sodium thiosulfate?
- 12. If yes to #11, did the samples contain residual chlorine? If yes, document on CUR.
- 13. Sediment present in dissolved/filtered bottles? If yes, document on CUR.
- 14. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 15. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.
- 16. Are analyses with short holding times requested?
- 17. Was a quick Turn Around (TAT) requested?

STL Denver
Sample Receiving Checklist

Lot # D7B260110

Login Checks:

N/A Yes No

Initials
LB

- 18. Sufficient volume provided for all analysis requested? (ref. Attachment D of SOP# DEN-QA-0003) If no, document on CUR, and contact PM before proceeding.
- 19. Is sufficient volume provided for client requested MS, MSD or matrix duplicates? If no, document on CUR, and contact PM before proceeding.
- 20. Did the chain of custody includes "received by" and "relinquished" by signatures, dates, and times?
- 21. Were special log in instructions read and followed?
- 22. Were AFCEE metals logged for refrigerated storage?
- 23. Were tests logged checked against the COC? Which samples were confirmed? 1
- 24. Was a Rush form completed for quick TAT?
- 25. Was a Short Hold form completed for any short holds?
- 26. Is "Strict ICOC" required?
- 27. Were special archiving instructions indicated in the General Comments? If so, what were they?

Labeling and Storage Checks:

Initials
DR

- 28. Was the subcontract COC signed and sent with samples to bottle prep?
- 29. Were sample labels double-checked by a second person?
- 30. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?
- 31. Did the sample ID, Date, and Time from label match what was logged?
- 32. Were stickers for special archiving instructions affixed to each box and to the ICOC? See #27
- 33. Were AFCEE metals stored refrigerated?
- 34. Were "Strict ICOC" copies given to satellite storage areas?

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).

**Chain of
Custody Record**

20490

SEVERN
TRENT

Severn Trent Laboratories, Inc.

STL Denver
4955 Yarrow Street
Arvada, CO 80002

STL-4124 (0901)

Comments

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy