


## ANALYTICAL REPORT

Lot #: D8J210322

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November 3, 2008

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## *Standard Deliverables*

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### Total Number of Pages

#### ***Standard Deliverables***

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## **Case Narrative**

The results included in this report have been reviewed for compliance with TestAmerica Laboratories, Inc. Quality Assurance/Quality Control (QA/QC) plan. The test results relate only to the samples in this report and meet all requirements of NELAC with any exceptions noted below.

Dilution factors and footnotes have been provided to assist in the interpretation of the results. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interferences or analytes present at concentrations above the linear calibration curve, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica Laboratories, Inc. utilizes USEPA approved methods in all analytical work. The sample presented in this report was analyzed for the parameters listed on the analytical methods summary page in accordance with the methods indicated. A summary of quality control parameters is provided below.

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### **Quality Control Summary for Lot D8J210322**

#### **Sample Receiving**

Two samples were received by TestAmerica Denver under chain of custody on October 21, 2008.

All sample containers were received intact.

#### **GC/MS Volatiles, Method SW846 8260B**

The MS/MSD associated with QC batch 8301550 was performed on an unrelated sample and exhibited an RPD value above the control limits for 1,1-dichloroethene. The acceptable LCS analyses data indicated the analytical system was within control; therefore corrective action was deemed unnecessary.

No other anomalies were observed.

#### **Dissolved Methane Analysis by GC, Method RSK SOP-175**

MS/MSD analyses could not be performed for the batch due to insufficient sample volume submitted. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

No other anomalies were observed.

#### **Total Metals Analysis, Method MCAWW 200.7**

The MS/MSD associated with QC batch 8298327 was performed on sample W-11546. The MS/MSD exhibited percent recoveries below the control limits for calcium, and the MS exhibited a percent recovery below the control limits for sodium. The acceptable LCS analyses data indicate that the analytical system was within control; therefore no corrective action is necessary.

No other anomalies were observed.

**General Chemistry**

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the methods. Due to high constituent concentrations, the Sulfate analyses of both samples and the chloride analyses of sample W-11566 had to be performed at a dilution. The results in the analytical report have been flagged with a "Q", and the reporting limits have been adjusted relative to the dilutions required.

TDS was detected in the Method Blank associated with QC batch 8302314 above the established reporting limit. The sample data was evaluated and found that all sample detections were greater than 10X the reporting limits indicating that laboratory contamination is not an issue; therefore corrective action was deemed unnecessary.

No other anomalies were observed.

# EXECUTIVE SUMMARY - Detection Highlights

D8J210322

| PARAMETER                         | RESULT | REPORTING<br>LIMIT | UNITS    | ANALYTICAL<br>METHOD |
|-----------------------------------|--------|--------------------|----------|----------------------|
| <b>W-11546 10/21/08 11:16 001</b> |        |                    |          |                      |
| Methane                           | 6.3    | 5.0                | ug/L     | RSK SOP-175          |
| Chloride                          | 90 Q   | 15                 | mg/L     | MCAWW 300.0A         |
| Sulfate                           | 370 Q  | 50                 | mg/L     | MCAWW 300.0A         |
| Fluoride                          | 0.96   | 0.50               | mg/L     | MCAWW 300.0A         |
| Nitrate                           | 4.5    | 0.50               | mg/L     | MCAWW 300.0A         |
| Bromide                           | 0.42   | 0.20               | mg/L     | MCAWW 300.0A         |
| Specific Conductance              | 1500   | 2.0                | umhos/cm | SM18 2510 B          |
| Total Dissolved<br>Solids         | 960 J  | 10                 | mg/L     | SM18 2540 C          |
| pH                                | 7.4    | 0.10               | No Units | SM18 4500-H B        |
| <b>W-11546 10/21/08 11:16 002</b> |        |                    |          |                      |
| Potassium                         | 3400   | 3000               | ug/L     | MCAWW 200.7          |
| Calcium                           | 94000  | 200                | ug/L     | MCAWW 200.7          |
| Magnesium                         | 32000  | 200                | ug/L     | MCAWW 200.7          |
| Sodium                            | 170000 | 5000               | ug/L     | MCAWW 200.7          |
| Barium                            | 26     | 10                 | ug/L     | MCAWW 200.7          |
| <b>W-11566 10/21/08 10:12 003</b> |        |                    |          |                      |
| Chloride                          | 90 Q   | 15                 | mg/L     | MCAWW 300.0A         |
| Sulfate                           | 420 Q  | 50                 | mg/L     | MCAWW 300.0A         |
| Fluoride                          | 0.93   | 0.50               | mg/L     | MCAWW 300.0A         |
| Nitrate                           | 2.7    | 0.50               | mg/L     | MCAWW 300.0A         |
| Bromide                           | 0.48   | 0.20               | mg/L     | MCAWW 300.0A         |
| Specific Conductance              | 1500   | 2.0                | umhos/cm | SM18 2510 B          |
| Total Dissolved<br>Solids         | 1000 J | 10                 | mg/L     | SM18 2540 C          |
| pH                                | 7.2    | 0.10               | No Units | SM18 4500-H B        |
| <b>W-11566 10/21/08 10:12 004</b> |        |                    |          |                      |
| Potassium                         | 3400   | 3000               | ug/L     | MCAWW 200.7          |
| Calcium                           | 110000 | 200                | ug/L     | MCAWW 200.7          |
| Iron                              | 330    | 100                | ug/L     | MCAWW 200.7          |
| Magnesium                         | 32000  | 200                | ug/L     | MCAWW 200.7          |
| Sodium                            | 170000 | 5000               | ug/L     | MCAWW 200.7          |
| Barium                            | 32     | 10                 | ug/L     | MCAWW 200.7          |

## METHODS SUMMARY

D8J210322

| PARAMETER                               | ANALYTICAL<br>METHOD | PREPARATION<br>METHOD |
|---|----------------------|-----------------------|
| pH (Electrometric)                      | SM18 4500-H B        | SM18 4500-H B         |
| Bromide                                 | MCAWW 300.0A         | MCAWW 300.0A          |
| Chloride                                | MCAWW 300.0A         | MCAWW 300.0A          |
| Dissolved Gasses in Water               | RSK SOP-175          |                       |
| Fluoride                                | MCAWW 300.0A         | MCAWW 300.0A          |
| Inductively Coupled Plasma (ICP) Metals | MCAWW 200.7          | MCAWW 200.7           |
| Nitrate as N                            | MCAWW 300.0A         | MCAWW 300.0A          |
| Nitrite as N                            | MCAWW 300.0A         | MCAWW 300.0A          |
| Specific Conductance                    | SM18 2510 B          | MCAWW 2510B           |
| Sulfate                                 | MCAWW 300.0A         | MCAWW 300.0A          |
| Total Dissolved Solids                  | SM18 2540 C          | SM18 2540 C           |
| Volatile Organics by GC/MS              | SW846 8260B          | SW846 5030B           |

### 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
- SM18 "Standard Methods for the Examination of Water and  
Wastewater", 18th Edition, 1992.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical  
Methods", Third Edition, November 1986 and its updates.

## METHOD / ANALYST SUMMARY

D8J210322

| ANALYTICAL<br>METHOD | ANALYST          | ANALYST<br>ID |
|----------------------|------------------|---------------|
| MCAWW 200.7          | David Wells      | 005099        |
| MCAWW 200.7          | David Wells      | 5099          |
| MCAWW 300.0A         | Ewa Kudla        | 001167        |
| MCAWW 300.0A         | Kevin Bloom      | 006134        |
| RSK SOP-175          | Brian Ream       | 000323        |
| SM18 2510 B          | Marcia DeRosia   | 002500        |
| SM18 2540 C          | Brandon Domnick  | 018631        |
| SM18 4500-H B        | Elizabeth Fisher | 009292        |
| SW846 8260B          | Rwanda Todea     | 005716        |

### 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

SM18 "Standard Methods for the Examination of Water and  
Wastewater", 18th Edition, 1992.

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical  
Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

D8J210322

| WO #  | SAMPLE# | CLIENT SAMPLE ID | SAMPLED<br>DATE | SAMP<br>TIME |
|-------|---------|------------------|-----------------|--------------|
| K0990 | 001     | W-11546          | 10/21/08        | 11:16        |
| K1AAR | 002     | W-11546          | 10/21/08        | 11:16        |
| K1AAX | 003     | W-11566          | 10/21/08        | 10:12        |
| K1AA1 | 004     | W-11566          | 10/21/08        | 10:12        |

## 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.

Colorado Oil&Gas Conservation Commision

Client Sample ID: W-11546

GC/MS Volatiles

Lot-Sample #....: D8J210322-001    Work Order #....: K09901AM    Matrix.....: WATER  
 Date Sampled....: 10/21/08 11:16    Date Received...: 10/21/08  
 Prep Date.....: 10/26/08    Analysis Date...: 10/26/08  
 Prep Batch #....: 8301550    Analysis Time...: 21:08  
 Dilution Factor: 1  
 Method.....: SW846 8260B

| <u>PARAMETER</u>        | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------------|---------------|----------------------------------|--------------|
| Benzene                 | ND            | 1.0                              | ug/L         |
| Ethylbenzene            | ND            | 1.0                              | ug/L         |
| Methyl tert-butyl ether | ND            | 5.0                              | ug/L         |
| Toluene                 | ND            | 1.0                              | ug/L         |
| Xylenes (total)         | ND            | 2.0                              | ug/L         |

| <u>SURROGATE</u>      | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|-----------------------|-----------------------------------|----------------------------------|
| Dibromofluoromethane  | 111                               | (79 - 120)                       |
| 1,2-Dichloroethane-d4 | 105                               | (65 - 126)                       |
| 4-Bromofluorobenzene  | 86                                | (75 - 120)                       |
| Toluene-d8            | 117                               | (78 - 120)                       |

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\P.i\102608.B\P0470.D  
Lab Smp Id: K09901AM Client Smp ID: W-11546  
Inj Date : 26-OCT-2008 21:08  
Operator : todear Inst ID: P.i  
Smp Info : K09901AM,,D8J210322-01 pH7  
Misc Info :  
Comment :  
Method : \\DenSvr03\Public\chem\MSV\P.i\102608.B\8260B-H2O.m  
Meth Date : 26-Oct-2008 15:13 todear Quant Type: ISTD  
Cal Date : 07-JUL-2008 15:33 Cal File: p8153.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: qk-01.sub  
Target Version: 4.14  
Processing Host: DENPC246

Concentration Formula: Amt \* DF \* Vp/Vs \* CpndVariable

| Name          | Value  | Description               |
|---------------|--------|---------------------------|
| DF            | 1.000  | Dilution Factor           |
| Vp            | 20.000 | Purge Volume (mL)         |
| Vs            | 20.000 | Sample Volume purged (mL) |
| Cpnd Variable |        | Local Compound Variable   |

10/27/08

| Compounds                        | QUANT SIG |      |                        |                |        |          | CONCENTRATIONS |         |
|----------------------------------|-----------|------|------------------------|----------------|--------|----------|----------------|---------|
|                                  |           | MASS | RT                     | EXP RT         | REL RT | RESPONSE | ON-COLUMN      | FINAL   |
|                                  |           |      |                        |                |        |          | ( ug/L)        | ( ug/L) |
| * 56 Fluorobenzene               | 96        |      | 7.700                  | 7.694 (1.000)  |        | 1967204  | 12.5000        |         |
| * 82 Chlorobenzene-d5            | 119       |      | 9.958                  | 9.952 (1.000)  |        | 376603   | 12.5000        |         |
| * 107 1,4-Dichlorobenzene-d4     | 152       |      | 11.785                 | 11.786 (1.000) |        | 374744   | 12.5000        | (Q)     |
| \$ 46 Dibromofluoromethane       | 111       |      | 7.147                  | 7.140 (0.928)  |        | 433117   | 11.6317        | 11.6317 |
| \$ 52 1,2-Dichloroethane-d4      | 65        |      | 7.441                  | 7.435 (0.966)  |        | 348770   | 10.9829        | 10.9829 |
| \$ 70 Toluene-d8                 | 98        |      | 8.887                  | 8.881 (0.892)  |        | 1862178  | 12.2374        | 12.2374 |
| \$ 93 Bromofluorobenzene         | 95        |      | 10.821                 | 10.815 (1.087) |        | 430637   | 9.03712        | 9.03712 |
| M 1 1,2-Dichloroethene (total)   | 96        |      | Compound Not Detected. |                |        |          |                |         |
| M 2 Xylene (total)               | 106       |      | Compound Not Detected. |                |        |          |                |         |
| 3 dichlorodifluoromethane        | 85        |      | Compound Not Detected. |                |        |          |                |         |
| 4 Dichlorotetrafluoroethane      | 85        |      | Compound Not Detected. |                |        |          |                |         |
| 5 Chloromethane                  | 50        |      | Compound Not Detected. |                |        |          |                |         |
| 6 Vinyl Chloride                 | 62        |      | Compound Not Detected. |                |        |          |                |         |
| 7 Ethylene Oxide                 | 43        |      | Compound Not Detected. |                |        |          |                |         |
| 8 Bromomethane                   | 94        |      | Compound Not Detected. |                |        |          |                |         |
| 9 Chloroethane                   | 64        |      | Compound Not Detected. |                |        |          |                |         |
| 10 Dichlorofluoromethane         | 67        |      | Compound Not Detected. |                |        |          |                |         |
| 11 Trichlorofluoromethane        | 101       |      | Compound Not Detected. |                |        |          |                |         |
| 12 Ethanol                       | 45        |      | Compound Not Detected. |                |        |          |                |         |
| 13 1,2-dichloro-1,1,2-trifluoroe | 117       |      | Compound Not Detected. |                |        |          |                |         |
| 14 Ethyl Ether                   | 59        |      | Compound Not Detected. |                |        |          |                |         |
| 15 2,2-dichloro-1,1,1-trifluoroe | 83        |      | Compound Not Detected. |                |        |          |                |         |

| Compounds                    | QUANT SIG<br>MASS |       |        |        |                        |  | CONCENTRATIONS       |                  |
|------------------------------|-------------------|-------|--------|--------|------------------------|--|----------------------|------------------|
|                              |                   | RT    | EXP RT | REL RT | RESPONSE               |  | ON-COLUMN<br>( ug/L) | FINAL<br>( ug/L) |
| =====                        | =====             | ===== | =====  | =====  | =====                  |  | =====                | =====            |
| 16 Acrolein                  | 56                |       |        |        | Compound Not Detected. |  |                      |                  |
| 17 Acetone                   | 43                |       |        |        | Compound Not Detected. |  |                      |                  |
| 18 Trichlorotrifluoroethane  | 151               |       |        |        | Compound Not Detected. |  |                      |                  |
| 19 2-propanol                | 45                |       |        |        | Compound Not Detected. |  |                      |                  |
| 20 1,1-Dichloroethene        | 96                |       |        |        | Compound Not Detected. |  |                      |                  |
| 21 Iodomethane               | 142               |       |        |        | Compound Not Detected. |  |                      |                  |
| 22 Acetonitrile              | 41                |       |        |        | Compound Not Detected. |  |                      |                  |
| 23 Methyl Acetate            | 43                |       |        |        | Compound Not Detected. |  |                      |                  |
| 25 Carbon Disulfide          | 76                |       |        |        | Compound Not Detected. |  |                      |                  |
| 24 Allyl Chloride            | 41                |       |        |        | Compound Not Detected. |  |                      |                  |
| 26 tert-Butyl alcohol        | 59                |       |        |        | Compound Not Detected. |  |                      |                  |
| 27 Methylene Chloride        | 84                |       |        |        | Compound Not Detected. |  |                      |                  |
| 28 Acrylonitrile             | 53                |       |        |        | Compound Not Detected. |  |                      |                  |
| 29 Methyl t-butyl ether      | 73                |       |        |        | Compound Not Detected. |  |                      |                  |
| 30 trans-1,2-Dichloroethene  | 96                |       |        |        | Compound Not Detected. |  |                      |                  |
| 31 Hexane                    | 57                |       |        |        | Compound Not Detected. |  |                      |                  |
| 32 Vinyl acetate             | 43                |       |        |        | Compound Not Detected. |  |                      |                  |
| 33 Isopropyl ether           | 87                |       |        |        | Compound Not Detected. |  |                      |                  |
| 34 1,1-Dichloroethane        | 63                |       |        |        | Compound Not Detected. |  |                      |                  |
| 35 Chloroprene               | 53                |       |        |        | Compound Not Detected. |  |                      |                  |
| 36 ETBE                      | 59                |       |        |        | Compound Not Detected. |  |                      |                  |
| 38 2-Butanone                | 43                |       |        |        | Compound Not Detected. |  |                      |                  |
| 37 Ethyl Acetate             | 43                |       |        |        | Compound Not Detected. |  |                      |                  |
| 40 cis-1,2-Dichloroethene    | 96                |       |        |        | Compound Not Detected. |  |                      |                  |
| 39 Propionitrile             | 54                |       |        |        | Compound Not Detected. |  |                      |                  |
| 41 2,2-Dichloropropane       | 77                |       |        |        | Compound Not Detected. |  |                      |                  |
| 42 Methacrylonitrile         | 41                |       |        |        | Compound Not Detected. |  |                      |                  |
| 43 Bromochloromethane        | 128               |       |        |        | Compound Not Detected. |  |                      |                  |
| 44 Chloroform                | 83                |       |        |        | Compound Not Detected. |  |                      |                  |
| 45 Tetrahydrofuran           | 42                |       |        |        | Compound Not Detected. |  |                      |                  |
| 48 1,1,1-Trichloroethane     | 97                |       |        |        | Compound Not Detected. |  |                      |                  |
| 47 Isobutanol                | 41                |       |        |        | Compound Not Detected. |  |                      |                  |
| 49 Cyclohexane               | 56                |       |        |        | Compound Not Detected. |  |                      |                  |
| 50 1,1-Dichloropropene       | 75                |       |        |        | Compound Not Detected. |  |                      |                  |
| 51 Carbon Tetrachloride      | 117               |       |        |        | Compound Not Detected. |  |                      |                  |
| 53 1,2-Dichloroethane        | 62                |       |        |        | Compound Not Detected. |  |                      |                  |
| 55 Benzene                   | 78                |       |        |        | Compound Not Detected. |  |                      |                  |
| 54 TAME                      | 73                |       |        |        | Compound Not Detected. |  |                      |                  |
| 57 n-Butanol                 | 56                |       |        |        | Compound Not Detected. |  |                      |                  |
| 58 Trichloroethene           | 130               |       |        |        | Compound Not Detected. |  |                      |                  |
| 59 2-Pentanone               | 43                |       |        |        | Compound Not Detected. |  |                      |                  |
| 60 Methyl Methacrylate       | 100               |       |        |        | Compound Not Detected. |  |                      |                  |
| 61 1,2-Dichloropropane       | 63                |       |        |        | Compound Not Detected. |  |                      |                  |
| 62 Methyl Cyclohexane        | 55                |       |        |        | Compound Not Detected. |  |                      |                  |
| 63 1,4-Dioxane               | 88                |       |        |        | Compound Not Detected. |  |                      |                  |
| 64 Dibromomethane            | 93                |       |        |        | Compound Not Detected. |  |                      |                  |
| 65 Bromodichloromethane      | 83                |       |        |        | Compound Not Detected. |  |                      |                  |
| 66 2-nitropropane            | 41                |       |        |        | Compound Not Detected. |  |                      |                  |
| 67 2-Chloroethyl vinyl ether | 63                |       |        |        | Compound Not Detected. |  |                      |                  |
| 68 cis-1,3-Dichloropropene   | 75                |       |        |        | Compound Not Detected. |  |                      |                  |
| 69 4-Methyl-2-pentanone      | 43                |       |        |        | Compound Not Detected. |  |                      |                  |
| 71 Toluene                   | 91                |       |        |        | Compound Not Detected. |  |                      |                  |
| 73 trans-1,3-Dichloropropene | 75                |       |        |        | Compound Not Detected. |  |                      |                  |
| 72 Ethyl methacrylate        | 69                |       |        |        | Compound Not Detected. |  |                      |                  |

| Compounds                       | QUANT SIG<br>MASS |      |          |        |           |  | CONCENTRATIONS       |                  |
|---------------------------------|-------------------|------|----------|--------|-----------|--|----------------------|------------------|
|                                 |                   | RT   | EXP RT   | REL RT | RESPONSE  |  | ON-COLUMN<br>( ug/L) | FINAL<br>( ug/L) |
| =====                           | =====             | ==== | =====    | =====  | =====     |  | =====                | =====            |
| 74 1,1,2-Trichloroethane        | 97                |      | Compound | Not    | Detected. |  |                      |                  |
| 75 2-Hexanone                   | 43                |      | Compound | Not    | Detected. |  |                      |                  |
| 76 1,3-Dichloropropane          | 76                |      | Compound | Not    | Detected. |  |                      |                  |
| 77 Tetrachloroethene            | 164               |      | Compound | Not    | Detected. |  |                      |                  |
| 78 Dibromochloromethane         | 129               |      | Compound | Not    | Detected. |  |                      |                  |
| 79 Tetrahydrothiophene          | 60                |      | Compound | Not    | Detected. |  |                      |                  |
| 80 1,2-Dibromoethane            | 107               |      | Compound | Not    | Detected. |  |                      |                  |
| 81 1-Chlorohexane               | 91                |      | Compound | Not    | Detected. |  |                      |                  |
| 83 Chlorobenzene                | 112               |      | Compound | Not    | Detected. |  |                      |                  |
| 84 1,1,1,2-Tetrachloroethane    | 131               |      | Compound | Not    | Detected. |  |                      |                  |
| 85 Ethylbenzene                 | 106               |      | Compound | Not    | Detected. |  |                      |                  |
| 86 m and p-Xylene               | 106               |      | Compound | Not    | Detected. |  |                      |                  |
| 87 o-Xylene                     | 106               |      | Compound | Not    | Detected. |  |                      |                  |
| 88 Styrene                      | 104               |      | Compound | Not    | Detected. |  |                      |                  |
| 89 Bromoform                    | 173               |      | Compound | Not    | Detected. |  |                      |                  |
| 90 isopropyl benzene            | 105               |      | Compound | Not    | Detected. |  |                      |                  |
| 91 cis-1,4-dichloro-2-butene    | 53                |      | Compound | Not    | Detected. |  |                      |                  |
| 92 Cyclohexanone                | 55                |      | Compound | Not    | Detected. |  |                      |                  |
| 94 1,1,2,2-Tetrachloroethane    | 83                |      | Compound | Not    | Detected. |  |                      |                  |
| 95 t-1,4-Dichloro-2-butene      | 53                |      | Compound | Not    | Detected. |  |                      |                  |
| 96 1,2,3-Trichloropropane       | 110               |      | Compound | Not    | Detected. |  |                      |                  |
| 98 Bromobenzene                 | 156               |      | Compound | Not    | Detected. |  |                      |                  |
| 97 n-Propylbenzene              | 120               |      | Compound | Not    | Detected. |  |                      |                  |
| 100 2-Chlorotoluene             | 126               |      | Compound | Not    | Detected. |  |                      |                  |
| 99 1,3,5-Trimethylbenzene       | 105               |      | Compound | Not    | Detected. |  |                      |                  |
| 101 4-Chlorotoluene             | 126               |      | Compound | Not    | Detected. |  |                      |                  |
| 102 tert-Butylbenzene           | 119               |      | Compound | Not    | Detected. |  |                      |                  |
| 103 1,2,4-Trimethylbenzene      | 105               |      | Compound | Not    | Detected. |  |                      |                  |
| 104 sec-Butylbenzene            | 134               |      | Compound | Not    | Detected. |  |                      |                  |
| 105 4-Isopropyltoluene          | 119               |      | Compound | Not    | Detected. |  |                      |                  |
| 106 m-Dichlorobenzene           | 146               |      | Compound | Not    | Detected. |  |                      |                  |
| 109 p-dichlorobenzene           | 146               |      | Compound | Not    | Detected. |  |                      |                  |
| 108 1,2,3-Trimethylbenzene      | 105               |      | Compound | Not    | Detected. |  |                      |                  |
| 110 n-Butylbenzene              | 91                |      | Compound | Not    | Detected. |  |                      |                  |
| 111 o-Dichlorobenzene           | 146               |      | Compound | Not    | Detected. |  |                      |                  |
| 112 1,2-Dibromo-3-chloropropane | 157               |      | Compound | Not    | Detected. |  |                      |                  |
| 114 1,2,4-Trichlorobenzene      | 180               |      | Compound | Not    | Detected. |  |                      |                  |
| 115 Hexachlorobutadiene         | 225               |      | Compound | Not    | Detected. |  |                      |                  |
| 116 Naphthalene                 | 128               |      | Compound | Not    | Detected. |  |                      |                  |
| 117 1,2,3-Trichlorobenzene      | 180               |      | Compound | Not    | Detected. |  |                      |                  |

# QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: P.i  
 Lab File ID: P0470.D  
 Lab Smp Id: K09901AM  
 Analysis Type: VOA  
 Quant Type: ISTD  
 Operator: todear  
 Method File: \\DenSvr03\Public\chem\MSV\P.i\102608.B\8260B-H2O.m  
 Misc Info:

Calibration Date: 26-OCT-2008  
 Calibration Time: 14:36  
 Client Smp ID: W-11546  
 Level: LOW  
 Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.  
 If Continuing Cal. use Initial Cal. Level 5

| COMPOUND<br>=====     | STANDARD<br>===== | AREA LIMIT |         | SAMPLE<br>===== | %DIFF<br>===== |
|-----------------------|-------------------|------------|---------|-----------------|----------------|
|                       |                   | LOWER      | UPPER   |                 |                |
| 56 Fluorobenzene      | 2367920           | 1183960    | 4735840 | 1967204         | -16.92         |
| 82 Chlorobenzene-d5   | 424435            | 212218     | 848870  | 376603          | -11.27         |
| 107 1,4-Dichlorobenze | 405313            | 202657     | 810626  | 374744          | -7.54          |

| COMPOUND<br>=====     | STANDARD<br>===== | RT LIMIT |       | SAMPLE<br>===== | %DIFF<br>===== |
|-----------------------|-------------------|----------|-------|-----------------|----------------|
|                       |                   | LOWER    | UPPER |                 |                |
| 56 Fluorobenzene      | 7.69              | 7.19     | 8.19  | 7.70            | 0.08           |
| 82 Chlorobenzene-d5   | 9.95              | 9.45     | 10.45 | 9.96            | 0.06           |
| 107 1,4-Dichlorobenze | 11.79             | 11.29    | 12.29 | 11.79           | -0.01          |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

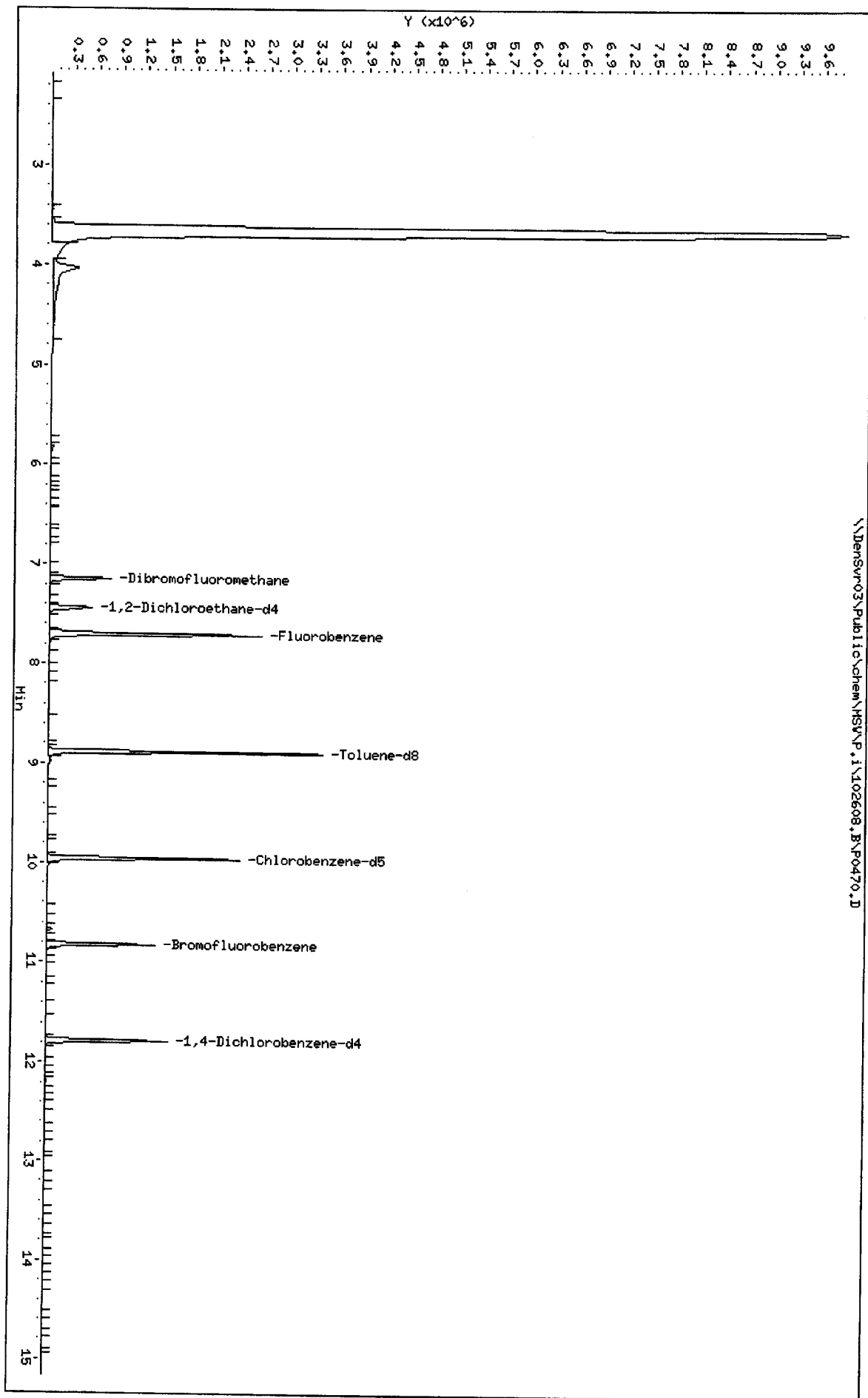
Client Name: Colorado Oil&Gas Con21-OCT-2008 00:00 Client SDG: D8J2103  
Sample Matrix: LIQUID Fraction: VOA  
Lab Smp Id: K09901AM Client Smp ID: W-11546  
Level: LOW Operator: todear  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: dcs2.spk Quant Type: ISTD  
Sublist File: qk-01.sub  
Method File: \\DenSvr03\Public\chem\MSV\P.i\102608.B\8260B-H2O.m  
Misc Info:

| SURROGATE COMPOUND       | CONC<br>ADDED<br>ug/L | CONC<br>RECOVERED<br>ug/L | %<br>RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 46 Dibromofluorometha | 10.5000               | 11.6317                   | 110.78         | 79-120 |
| \$ 52 1,2-Dichloroethane | 10.5000               | 10.9829                   | 104.60         | 65-126 |
| \$ 70 Toluene-d8         | 10.5000               | 12.2374                   | 116.55         | 78-120 |
| \$ 93 Bromofluorobenzene | 10.5000               | 9.03712                   | 86.07          | 75-120 |

Data File: \\Densvr03\Public\chem\HSVP.1\102608.B\PO470.D  
Date: 26-OCT-2008 21:08  
Client ID: W-11546  
Sample Info: K0901AH,,DBJ210322-01 PH7  
Column Phase: DB624

Instrument: P.i  
Operator: todcar  
Column diameter: 0.53

Page 6



**Colorado Oil&Gas Conservation Commision**

**Client Sample ID: W-11566**

**GC/MS Volatiles**

**Lot-Sample #....:** D8J210322-003    **Work Order #....:** K1AAX1AM    **Matrix.....:** WATER  
**Date Sampled....:** 10/21/08 10:12    **Date Received...:** 10/21/08  
**Prep Date.....:** 10/26/08    **Analysis Date...:** 10/26/08  
**Prep Batch #....:** 8301550    **Analysis Time...:** 21:28  
**Dilution Factor:** 1  
**Method.....:** SW846 8260B

| <u>PARAMETER</u>        | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|-------------------------|---------------|----------------------------------|--------------|
| Benzene                 | ND            | 1.0                              | ug/L         |
| Ethylbenzene            | ND            | 1.0                              | ug/L         |
| Methyl tert-butyl ether | ND            | 5.0                              | ug/L         |
| Toluene                 | ND            | 1.0                              | ug/L         |
| Xylenes (total)         | ND            | 2.0                              | ug/L         |

| <u>SURROGATE</u>      | <u>PERCENT</u><br><u>RECOVERY</u> | <u>RECOVERY</u><br><u>LIMITS</u> |
|-----------------------|-----------------------------------|----------------------------------|
| Dibromofluoromethane  | 112                               | (79 - 120)                       |
| 1,2-Dichloroethane-d4 | 106                               | (65 - 126)                       |
| 4-Bromofluorobenzene  | 83                                | (75 - 120)                       |
| Toluene-d8            | 113                               | (78 - 120)                       |

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\P.i\102608.B\P0471.D  
Lab Smp Id: K1AAX1AM Client Smp ID: W-11566  
Inj Date : 26-OCT-2008 21:28  
Operator : todear Inst ID: P.i  
Smp Info : K1AAX1AM, D8J210322-03 pH7  
Misc Info :  
Comment :  
Method : \\DenSvr03\Public\chem\MSV\P.i\102608.B\8260B-H2O.m  
Meth Date : 26-Oct-2008 15:13 todear Quant Type: ISTD  
Cal Date : 07-JUL-2008 15:33 Cal File: p8153.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: qk-01.sub  
Target Version: 4.14  
Processing Host: DENPC246

Concentration Formula: Amt \* DF \* Vp/Vs \* CpndVariable

| Name          | Value  | Description               |
|---------------|--------|---------------------------|
| DF            | 1.000  | Dilution Factor           |
| Vp            | 20.000 | Purge Volume (mL)         |
| Vs            | 20.000 | Sample Volume purged (mL) |
| Cpnd Variable |        | Local Compound Variable   |

12/10/27/08

| Compounds                        | QUANT SIG |      |                        |                |        |          | CONCENTRATIONS       |                  |
|----------------------------------|-----------|------|------------------------|----------------|--------|----------|----------------------|------------------|
|                                  |           | MASS | RT                     | EXP RT         | REL RT | RESPONSE | ON-COLUMN<br>( ug/L) | FINAL<br>( ug/L) |
| * 56 Fluorobenzene               | 96        |      | 7.701                  | 7.694 (1.000)  |        | 1895068  | 12.5000              |                  |
| * 82 Chlorobenzene-d5            | 119       |      | 9.959                  | 9.952 (1.000)  |        | 363694   | 12.5000              |                  |
| * 107 1,4-Dichlorobenzene-d4     | 152       |      | 11.786                 | 11.786 (1.000) |        | 355542   | 12.5000              | (Q)              |
| \$ 46 Dibromofluoromethane       | 111       |      | 7.148                  | 7.140 (0.928)  |        | 421675   | 11.7555              | 11.7555          |
| \$ 52 1,2-Dichloroethane-d4      | 65        |      | 7.442                  | 7.435 (0.966)  |        | 341273   | 11.1559              | 11.1559          |
| \$ 70 Toluene-d8                 | 98        |      | 8.881                  | 8.881 (0.892)  |        | 1738273  | 11.8286              | 11.8286          |
| \$ 93 Bromofluorobenzene         | 95        |      | 10.822                 | 10.815 (1.087) |        | 402099   | 8.73774              | 8.73774          |
| M 1 1,2-Dichloroethene (total)   | 96        |      | Compound Not Detected. |                |        |          |                      |                  |
| M 2 Xylene (total)               | 106       |      | Compound Not Detected. |                |        |          |                      |                  |
| 3 dichlorodifluoromethane        | 85        |      | Compound Not Detected. |                |        |          |                      |                  |
| 4 Dichlorotetrafluoroethane      | 85        |      | Compound Not Detected. |                |        |          |                      |                  |
| 5 Chloromethane                  | 50        |      | Compound Not Detected. |                |        |          |                      |                  |
| 6 Vinyl Chloride                 | 62        |      | Compound Not Detected. |                |        |          |                      |                  |
| 7 Ethylene Oxide                 | 43        |      | Compound Not Detected. |                |        |          |                      |                  |
| 8 Bromomethane                   | 94        |      | Compound Not Detected. |                |        |          |                      |                  |
| 9 Chloroethane                   | 64        |      | Compound Not Detected. |                |        |          |                      |                  |
| 10 Dichlorofluoromethane         | 67        |      | Compound Not Detected. |                |        |          |                      |                  |
| 11 Trichlorofluoromethane        | 101       |      | Compound Not Detected. |                |        |          |                      |                  |
| 12 Ethanol                       | 45        |      | Compound Not Detected. |                |        |          |                      |                  |
| 13 1,2-dichloro-1,1,2-trifluoroe | 117       |      | Compound Not Detected. |                |        |          |                      |                  |
| 14 Ethyl Ether                   | 59        |      | Compound Not Detected. |                |        |          |                      |                  |
| 15 2,2-dichloro-1,1,1-trifluoroe | 83        |      | Compound Not Detected. |                |        |          |                      |                  |

| Compounds                    | QUANT SIG<br>MASS |       |        |        |                        |       | CONCENTRATIONS       |                  |
|------------------------------|-------------------|-------|--------|--------|------------------------|-------|----------------------|------------------|
|                              |                   | RT    | EXP RT | REL RT | RESPONSE               |       | ON-COLUMN<br>( ug/L) | FINAL<br>( ug/L) |
| =====                        | =====             | ===== | =====  | =====  | =====                  | ===== | =====                | =====            |
| 16 Acrolein                  | 56                |       |        |        | Compound Not Detected. |       |                      |                  |
| 17 Acetone                   | 43                |       |        |        | Compound Not Detected. |       |                      |                  |
| 18 Trichlorotrifluoroethane  | 151               |       |        |        | Compound Not Detected. |       |                      |                  |
| 19 2-propanol                | 45                |       |        |        | Compound Not Detected. |       |                      |                  |
| 20 1,1-Dichloroethene        | 96                |       |        |        | Compound Not Detected. |       |                      |                  |
| 21 Iodomethane               | 142               |       |        |        | Compound Not Detected. |       |                      |                  |
| 22 Acetonitrile              | 41                |       |        |        | Compound Not Detected. |       |                      |                  |
| 23 Methyl Acetate            | 43                |       |        |        | Compound Not Detected. |       |                      |                  |
| 25 Carbon Disulfide          | 76                |       |        |        | Compound Not Detected. |       |                      |                  |
| 24 Allyl Chloride            | 41                |       |        |        | Compound Not Detected. |       |                      |                  |
| 26 tert-Butyl alcohol        | 59                |       |        |        | Compound Not Detected. |       |                      |                  |
| 27 Methylene Chloride        | 84                |       |        |        | Compound Not Detected. |       |                      |                  |
| 28 Acrylonitrile             | 53                |       |        |        | Compound Not Detected. |       |                      |                  |
| 29 Methyl t-butyl ether      | 73                |       |        |        | Compound Not Detected. |       |                      |                  |
| 30 trans-1,2-Dichloroethene  | 96                |       |        |        | Compound Not Detected. |       |                      |                  |
| 31 Hexane                    | 57                |       |        |        | Compound Not Detected. |       |                      |                  |
| 32 Vinyl acetate             | 43                |       |        |        | Compound Not Detected. |       |                      |                  |
| 33 Isopropyl ether           | 87                |       |        |        | Compound Not Detected. |       |                      |                  |
| 34 1,1-Dichloroethane        | 63                |       |        |        | Compound Not Detected. |       |                      |                  |
| 35 Chloroprene               | 53                |       |        |        | Compound Not Detected. |       |                      |                  |
| 36 ETBE                      | 59                |       |        |        | Compound Not Detected. |       |                      |                  |
| 38 2-Butanone                | 43                |       |        |        | Compound Not Detected. |       |                      |                  |
| 37 Ethyl Acetate             | 43                |       |        |        | Compound Not Detected. |       |                      |                  |
| 40 cis-1,2-Dichloroethene    | 96                |       |        |        | Compound Not Detected. |       |                      |                  |
| 39 Propionitrile             | 54                |       |        |        | Compound Not Detected. |       |                      |                  |
| 41 2,2-Dichloropropane       | 77                |       |        |        | Compound Not Detected. |       |                      |                  |
| 42 Methacrylonitrile         | 41                |       |        |        | Compound Not Detected. |       |                      |                  |
| 43 Bromochloromethane        | 128               |       |        |        | Compound Not Detected. |       |                      |                  |
| 44 Chloroform                | 83                |       |        |        | Compound Not Detected. |       |                      |                  |
| 45 Tetrahydrofuran           | 42                |       |        |        | Compound Not Detected. |       |                      |                  |
| 48 1,1,1-Trichloroethane     | 97                |       |        |        | Compound Not Detected. |       |                      |                  |
| 47 Isobutanol                | 41                |       |        |        | Compound Not Detected. |       |                      |                  |
| 49 Cyclohexane               | 56                |       |        |        | Compound Not Detected. |       |                      |                  |
| 50 1,1-Dichloropropene       | 75                |       |        |        | Compound Not Detected. |       |                      |                  |
| 51 Carbon Tetrachloride      | 117               |       |        |        | Compound Not Detected. |       |                      |                  |
| 53 1,2-Dichloroethane        | 62                |       |        |        | Compound Not Detected. |       |                      |                  |
| 55 Benzene                   | 78                |       |        |        | Compound Not Detected. |       |                      |                  |
| 54 TAME                      | 73                |       |        |        | Compound Not Detected. |       |                      |                  |
| 57 n-Butanol                 | 56                |       |        |        | Compound Not Detected. |       |                      |                  |
| 58 Trichloroethene           | 130               |       |        |        | Compound Not Detected. |       |                      |                  |
| 59 2-Pentanone               | 43                |       |        |        | Compound Not Detected. |       |                      |                  |
| 60 Methyl Methacrylate       | 100               |       |        |        | Compound Not Detected. |       |                      |                  |
| 61 1,2-Dichloropropane       | 63                |       |        |        | Compound Not Detected. |       |                      |                  |
| 62 Methyl Cyclohexane        | 55                |       |        |        | Compound Not Detected. |       |                      |                  |
| 63 1,4-Dioxane               | 88                |       |        |        | Compound Not Detected. |       |                      |                  |
| 64 Dibromomethane            | 93                |       |        |        | Compound Not Detected. |       |                      |                  |
| 65 Bromodichloromethane      | 83                |       |        |        | Compound Not Detected. |       |                      |                  |
| 66 2-nitropropane            | 41                |       |        |        | Compound Not Detected. |       |                      |                  |
| 67 2-Chloroethyl vinyl ether | 63                |       |        |        | Compound Not Detected. |       |                      |                  |
| 68 cis-1,3-Dichloropropene   | 75                |       |        |        | Compound Not Detected. |       |                      |                  |
| 69 4-Methyl-2-pentanone      | 43                |       |        |        | Compound Not Detected. |       |                      |                  |
| 71 Toluene                   | 91                |       |        |        | Compound Not Detected. |       |                      |                  |
| 73 trans-1,3-Dichloropropene | 75                |       |        |        | Compound Not Detected. |       |                      |                  |
| 72 Ethyl methacrylate        | 69                |       |        |        | Compound Not Detected. |       |                      |                  |

| Compounds                       | QUANT SIG<br>MASS |      |          |        |           |  | CONCENTRATIONS       |                  |
|---------------------------------|-------------------|------|----------|--------|-----------|--|----------------------|------------------|
|                                 |                   | RT   | EXP RT   | REL RT | RESPONSE  |  | ON-COLUMN<br>( ug/L) | FINAL<br>( ug/L) |
| =====                           | =====             | ==== | =====    | =====  | =====     |  | =====                | =====            |
| 74 1,1,2-Trichloroethane        | 97                |      | Compound | Not    | Detected. |  |                      |                  |
| 75 2-Hexanone                   | 43                |      | Compound | Not    | Detected. |  |                      |                  |
| 76 1,3-Dichloropropane          | 76                |      | Compound | Not    | Detected. |  |                      |                  |
| 77 Tetrachloroethene            | 164               |      | Compound | Not    | Detected. |  |                      |                  |
| 78 Dibromochloromethane         | 129               |      | Compound | Not    | Detected. |  |                      |                  |
| 79 Tetrahydrothiophene          | 60                |      | Compound | Not    | Detected. |  |                      |                  |
| 80 1,2-Dibromoethane            | 107               |      | Compound | Not    | Detected. |  |                      |                  |
| 81 1-Chlorohexane               | 91                |      | Compound | Not    | Detected. |  |                      |                  |
| 83 Chlorobenzene                | 112               |      | Compound | Not    | Detected. |  |                      |                  |
| 84 1,1,1,2-Tetrachloroethane    | 131               |      | Compound | Not    | Detected. |  |                      |                  |
| 85 Ethylbenzene                 | 106               |      | Compound | Not    | Detected. |  |                      |                  |
| 86 m and p-Xylene               | 106               |      | Compound | Not    | Detected. |  |                      |                  |
| 87 o-Xylene                     | 106               |      | Compound | Not    | Detected. |  |                      |                  |
| 88 Styrene                      | 104               |      | Compound | Not    | Detected. |  |                      |                  |
| 89 Bromoform                    | 173               |      | Compound | Not    | Detected. |  |                      |                  |
| 90 isopropyl benzene            | 105               |      | Compound | Not    | Detected. |  |                      |                  |
| 91 cis-1,4-dichloro-2-butene    | 53                |      | Compound | Not    | Detected. |  |                      |                  |
| 92 Cyclohexanone                | 55                |      | Compound | Not    | Detected. |  |                      |                  |
| 94 1,1,2,2-Tetrachloroethane    | 83                |      | Compound | Not    | Detected. |  |                      |                  |
| 95 t-1,4-Dichloro-2-butene      | 53                |      | Compound | Not    | Detected. |  |                      |                  |
| 96 1,2,3-Trichloropropane       | 110               |      | Compound | Not    | Detected. |  |                      |                  |
| 98 Bromobenzene                 | 156               |      | Compound | Not    | Detected. |  |                      |                  |
| 97 n-Propylbenzene              | 120               |      | Compound | Not    | Detected. |  |                      |                  |
| 100 2-Chlorotoluene             | 126               |      | Compound | Not    | Detected. |  |                      |                  |
| 99 1,3,5-Trimethylbenzene       | 105               |      | Compound | Not    | Detected. |  |                      |                  |
| 101 4-Chlorotoluene             | 126               |      | Compound | Not    | Detected. |  |                      |                  |
| 102 tert-Butylbenzene           | 119               |      | Compound | Not    | Detected. |  |                      |                  |
| 103 1,2,4-Trimethylbenzene      | 105               |      | Compound | Not    | Detected. |  |                      |                  |
| 104 sec-Butylbenzene            | 134               |      | Compound | Not    | Detected. |  |                      |                  |
| 105 4-Isopropyltoluene          | 119               |      | Compound | Not    | Detected. |  |                      |                  |
| 106 m-Dichlorobenzene           | 146               |      | Compound | Not    | Detected. |  |                      |                  |
| 109 p-dichlorobenzene           | 146               |      | Compound | Not    | Detected. |  |                      |                  |
| 108 1,2,3-Trimethylbenzene      | 105               |      | Compound | Not    | Detected. |  |                      |                  |
| 110 n-Butylbenzene              | 91                |      | Compound | Not    | Detected. |  |                      |                  |
| 111 o-Dichlorobenzene           | 146               |      | Compound | Not    | Detected. |  |                      |                  |
| 112 1,2-Dibromo-3-chloropropane | 157               |      | Compound | Not    | Detected. |  |                      |                  |
| 114 1,2,4-Trichlorobenzene      | 180               |      | Compound | Not    | Detected. |  |                      |                  |
| 115 Hexachlorobutadiene         | 225               |      | Compound | Not    | Detected. |  |                      |                  |
| 116 Naphthalene                 | 128               |      | Compound | Not    | Detected. |  |                      |                  |
| 117 1,2,3-Trichlorobenzene      | 180               |      | Compound | Not    | Detected. |  |                      |                  |

# QC Flag Legend

Q - Qualifier signal failed the ratio test.

TestAmerica

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

|  |                               |
|--|-------------------------------|
| Instrument ID: P.i   | Calibration Date: 26-OCT-2008 |
| Lab File ID: P0471.D   | Calibration Time: 14:36       |
| Lab Smp Id: K1AAX1AM   | Client Smp ID: W-11566        |
| Analysis Type: VOA   | Level: LOW                    |
| Quant Type: ISTD   | Sample Type: WATER            |
| Operator: todear   |                               |
| Method File: \\DenSvr03\Public\chem\MSV\P.i\102608.B\8260B-H2O.m |                               |
| Misc Info:   |                               |

Test Mode:

Use Last Continuing Calibrator.  
 If Continuing Cal. use Initial Cal. Level 5

| COMPOUND              | STANDARD | AREA LIMIT |         | SAMPLE  | %DIFF  |
|-----------------------|----------|------------|---------|---------|--------|
|                       |          | LOWER      | UPPER   |         |        |
| =====                 | =====    | =====      | =====   | =====   | =====  |
| 56 Fluorobenzene      | 2367920  | 1183960    | 4735840 | 1895068 | -19.97 |
| 82 Chlorobenzene-d5   | 424435   | 212218     | 848870  | 363694  | -14.31 |
| 107 1,4-Dichlorobenze | 405313   | 202657     | 810626  | 355542  | -12.28 |

| COMPOUND              | STANDARD | RT LIMIT |       | SAMPLE | %DIFF |
|-----------------------|----------|----------|-------|--------|-------|
|                       |          | LOWER    | UPPER |        |       |
| =====                 | =====    | =====    | ===== | =====  | ===== |
| 56 Fluorobenzene      | 7.69     | 7.19     | 8.19  | 7.70   | 0.09  |
| 82 Chlorobenzene-d5   | 9.95     | 9.45     | 10.45 | 9.96   | 0.07  |
| 107 1,4-Dichlorobenze | 11.79    | 11.29    | 12.29 | 11.79  | 0.00  |

AREA UPPER LIMIT = +100% of internal standard area.  
 AREA LOWER LIMIT = - 50% of internal standard area.  
 RT UPPER LIMIT = + 0.50 minutes of internal standard RT.  
 RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

TestAmerica

RECOVERY REPORT

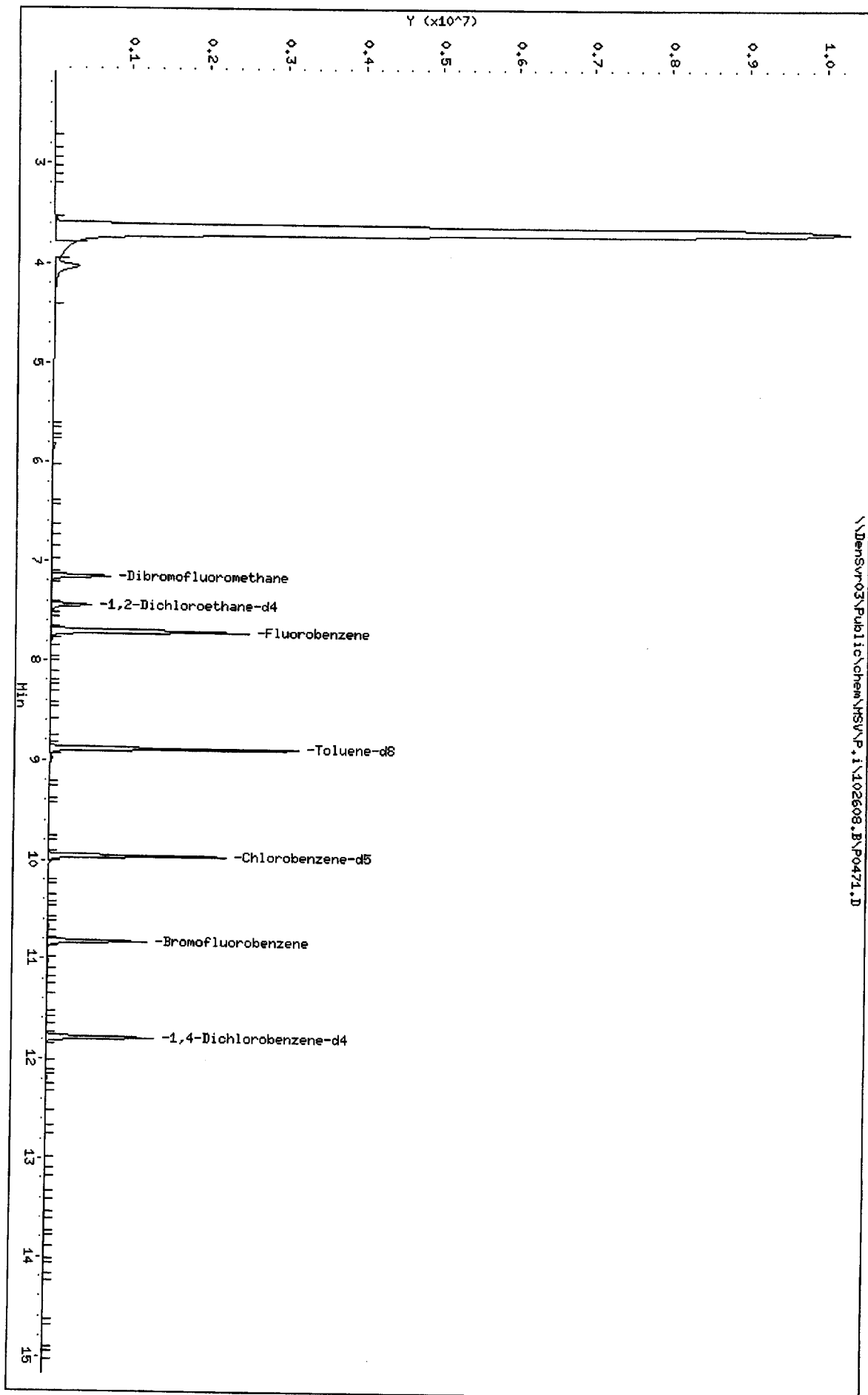
Client Name: Colorado Oil&Gas Con21-OCT-2008 00:00 Client SDG: D8J2103  
Sample Matrix: LIQUID Fraction: VOA  
Lab Smp Id: K1AAX1AM Client Smp ID: W-11566  
Level: LOW Operator: todear  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: dcs2.spk Quant Type: ISTD  
Sublist File: qk-01.sub  
Method File: \\DenSvr03\Public\chem\MSV\P.i\102608.B\8260B-H2O.m  
Misc Info:

| SURROGATE COMPOUND       | CONC<br>ADDED<br>ug/L | CONC<br>RECOVERED<br>ug/L | %<br>RECOVERED | LIMITS |
|--------------------------|-----------------------|---------------------------|----------------|--------|
| \$ 46 Dibromofluorometha | 10.5000               | 11.7555                   | 111.96         | 79-120 |
| \$ 52 1,2-Dichloroethane | 10.5000               | 11.1559                   | 106.25         | 65-126 |
| \$ 70 Toluene-d8         | 10.5000               | 11.8286                   | 112.65         | 78-120 |
| \$ 93 Bromofluorobenzene | 10.5000               | 8.73774                   | 83.22          | 75-120 |

Data File: \\Densvr03\Public\chem\MSVP.i\102608.B\p0471.D  
Date : 26-OCT-2008 21:28  
Client ID: M-11566  
Sample Info: K19AX14H, DBJ210322-03 pH7  
Column phase: DB624

Instrument: P.i  
Operator: todcar  
Column diameter: 0.53

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Colorado Oil&Gas Conservation Commision

Client Sample ID: W-11546

GC Volatiles

Lot-Sample #...: D8J210322-001    Work Order #...: K09901AA    Matrix.....: WATER  
Date Sampled...: 10/21/08 11:16    Date Received...: 10/21/08  
Prep Date.....: 10/23/08    Analysis Date...: 10/23/08  
Prep Batch #...: 8297232    Analysis Time...: 10:21  
Dilution Factor: 1  
Method.....: RSK SOP-175

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|----------------------------------|--------------|
| Methane          | 6.3           | 5.0                              | ug/L         |

TestAmerica

RSK-175 Dissolved Gasses in Water

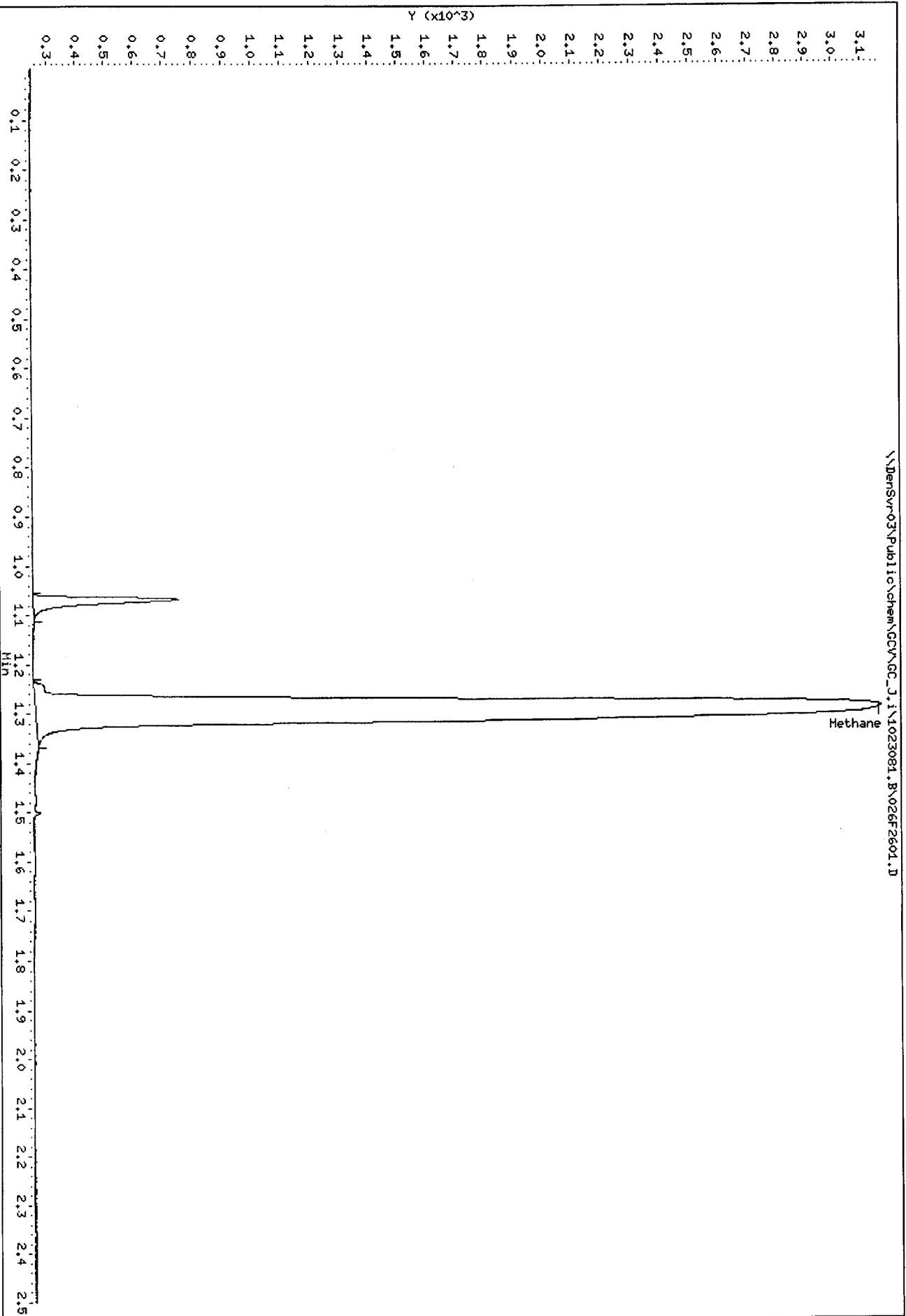
Data file : \\DenSvr03\Public\chem\GCV\GC\_J.i\1023081.B\026F2601.D  
Lab Smp Id: K09901AA Client Smp ID: W-11546  
Inj Date : 23-OCT-2008 10:21  
Operator : AP/BR Inst ID: GC\_J.i  
Smp Info : K09901AA,322-1  
Misc Info : ICAL 11-MAY-2007  
Comment : SOP: DV-GC-0025  
Method : \\DenSvr03\Public\chem\GCV\GC\_J.i\1023081.B\RSK-1\_7PT.m  
Meth Date : 23-Oct-2008 12:02 reamb Quant Type: ESTD  
Cal Date : 12-AUG-2008 14:11 Cal File: 009f0901.d  
Als bottle: 26  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: RSK175.01.sub  
Target Version: 4.14  
Processing Host: DENPC252

Concentration Formula: Amt \* DF \* 1 \* CpndVariable  
Cpnd Variable Local Compound Variable

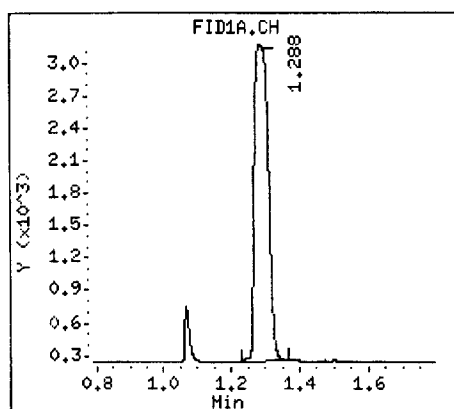
| Compounds   |                        |        |        |          |  | CONCENTRATIONS       |                  |
|-------------|------------------------|--------|--------|----------|--|----------------------|------------------|
|             | RT                     | EXP RT | DLT RT | RESPONSE |  | ON-COLUMN<br>( ug/L) | FINAL<br>( ug/L) |
| =====       | =====                  | =====  | =====  | =====    |  | =====                | =====            |
| 1 Methane   | 1.287                  | 1.291  | -0.004 | 8103     |  | 6.31059              | 6.310            |
| 2 Ethene    | Compound Not Detected. |        |        |          |  |                      |                  |
| 3 Ethane    | Compound Not Detected. |        |        |          |  |                      |                  |
| 4 Acetylene | Compound Not Detected. |        |        |          |  |                      |                  |

8  
10/23

\\Densvr03\Public\chem\GC\GC\_J.1\1023081.B\026F2601.D



1 Methane



Colorado Oil&Gas Conservation Commision

Client Sample ID: W-11566

GC Volatiles

Lot-Sample #...: D8J210322-003    Work Order #...: K1AAX1AA    Matrix.....: WATER  
Date Sampled...: 10/21/08 10:12    Date Received...: 10/21/08  
Prep Date.....: 10/23/08    Analysis Date...: 10/23/08  
Prep Batch #...: 8297232    Analysis Time...: 10:25  
Dilution Factor: 1  
Method.....: RSK SOP-175

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> |
|------------------|---------------|----------------------------------|--------------|
| Methane          | ND            | 5.0                              | ug/L         |

TestAmerica

RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC\_J.i\1023081.B\027F2701.D  
Lab Smp Id: K1AAX1AA Client Smp ID: W-11566  
Inj Date : 23-OCT-2008 10:25  
Operator : AP/BR Inst ID: GC\_J.i  
Smp Info : K1AAX1AA,322-3  
Misc Info : ICAL 11-MAY-2007  
Comment : SOP: DV-GC-0025  
Method : \\DenSvr03\Public\chem\GCV\GC\_J.i\1023081.B\RSK-1\_7PT.m  
Meth Date : 23-Oct-2008 12:02 reamb Quant Type: ESTD  
Cal Date : 12-AUG-2008 14:11 Cal File: 009f0901.d  
Als bottle: 27  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: RSK175.01.sub  
Target Version: 4.14  
Processing Host: DENPC252

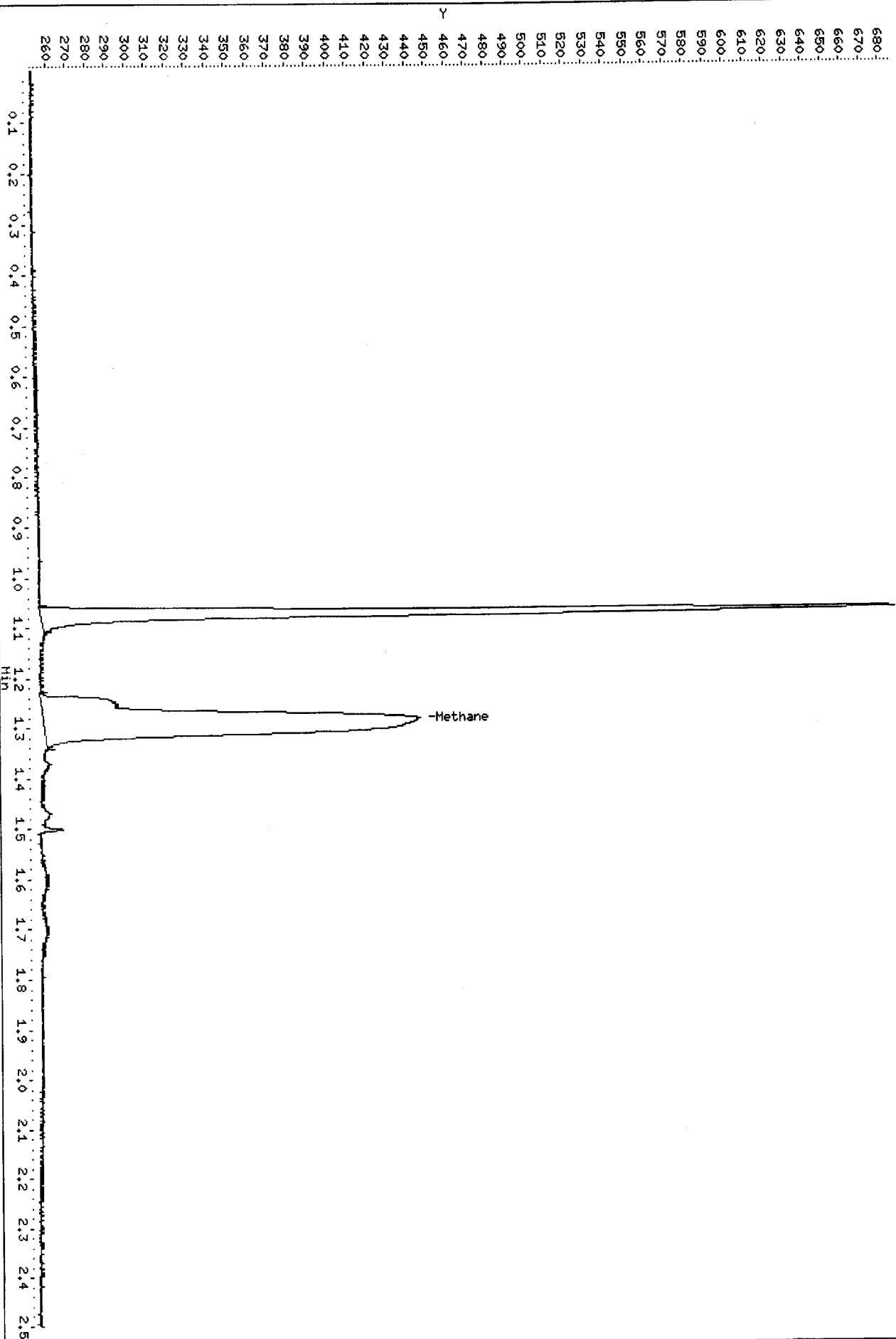
Concentration Formula: Amt \* DF \* 1 \* CpndVariable  
Cpnd Variable Local Compound Variable

| Compounds   |                        |        |        |          |  | CONCENTRATIONS       |                  |
|-------------|------------------------|--------|--------|----------|--|----------------------|------------------|
|             | RT                     | EXP RT | DLT RT | RESPONSE |  | ON-COLUMN<br>( ug/L) | FINAL<br>( ug/L) |
| 1 Methane   | 1.281                  | 1.291  | -0.010 | 580      |  | 0.25348              | 0.2535 (a) cov   |
| 2 Ethene    | Compound Not Detected. |        |        |          |  |                      |                  |
| 3 Ethane    | Compound Not Detected. |        |        |          |  |                      |                  |
| 4 Acetylene | Compound Not Detected. |        |        |          |  |                      |                  |

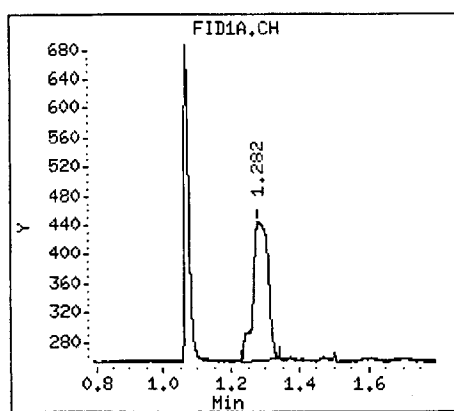
26  
10/23

QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).



1 Methane



**Colorado Oil&Gas Conservation Commision**

**Client Sample ID: W-11546**

**TOTAL Metals**

**Lot-Sample #...:** D8J210322-002

**Matrix.....:** WATER

**Date Sampled...:** 10/21/08 11:16 **Date Received...:** 10/21/08

| <u>PARAMETER</u>                | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>           | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>WORK<br/>ORDER #</u> |
|---------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| <b>Prep Batch #...:</b> 8298327 |               |                            |              |                         |                                       |                         |
| <b>Potassium</b>                | <b>3400</b>   | <b>3000</b>                | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27/08</b>                       | <b>K1AAR1AD</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |
| Selenium                        | ND            | 15                         | ug/L         | MCAWW 200.7             | 10/27/08                              | K1AAR1AF                |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |
| <b>Calcium</b>                  | <b>94000</b>  | <b>200</b>                 | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27/08</b>                       | <b>K1AAR1AA</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |
| Iron                            | ND            | 100                        | ug/L         | MCAWW 200.7             | 10/27/08                              | K1AAR1AN                |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |
| <b>Magnesium</b>                | <b>32000</b>  | <b>200</b>                 | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27/08</b>                       | <b>K1AAR1AC</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |
| <b>Sodium</b>                   | <b>170000</b> | <b>5000</b>                | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27/08</b>                       | <b>K1AAR1AE</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |
| Arsenic                         | ND            | 15                         | ug/L         | MCAWW 200.7             | 10/27/08                              | K1AAR1AG                |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |
| <b>Barium</b>                   | <b>26</b>     | <b>10</b>                  | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27/08</b>                       | <b>K1AAR1AH</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |
| Cadmium                         | ND            | 5.0                        | ug/L         | MCAWW 200.7             | 10/27/08                              | K1AAR1AJ                |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |
| Chromium                        | ND            | 10                         | ug/L         | MCAWW 200.7             | 10/27/08                              | K1AAR1AK                |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |
| Manganese                       | ND            | 10                         | ug/L         | MCAWW 200.7             | 10/27/08                              | K1AAR1AL                |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |
| Lead                            | ND            | 9.0                        | ug/L         | MCAWW 200.7             | 10/27/08                              | K1AAR1AM                |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 23:52 |                                       |                         |

**Colorado Oil&Gas Conservation Commission**

**Client Sample ID: W-11566**

**TOTAL Metals**

**Lot-Sample #...: D8J210322-004**

**Matrix.....: WATER**

**Date Sampled...: 10/21/08 10:12    Date Received...: 10/21/08**

| <u>PARAMETER</u>                | <u>RESULT</u> | <u>REPORTING<br/>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u>           | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>WORK<br/>ORDER #</u> |
|---------------------------------|---------------|----------------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| <b>Prep Batch #...: 8298327</b> |               |                            |              |                         |                                       |                         |
| <b>Potassium</b>                | <b>3400</b>   | <b>3000</b>                | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AD</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |
| <b>Selenium</b>                 | <b>ND</b>     | <b>15</b>                  | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AF</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |
| <b>Calcium</b>                  | <b>110000</b> | <b>200</b>                 | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AA</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |
| <b>Iron</b>                     | <b>330</b>    | <b>100</b>                 | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AN</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |
| <b>Magnesium</b>                | <b>32000</b>  | <b>200</b>                 | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AC</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |
| <b>Sodium</b>                   | <b>170000</b> | <b>5000</b>                | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AE</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |
| <b>Arsenic</b>                  | <b>ND</b>     | <b>15</b>                  | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AG</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |
| <b>Barium</b>                   | <b>32</b>     | <b>10</b>                  | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AH</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |
| <b>Cadmium</b>                  | <b>ND</b>     | <b>5.0</b>                 | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AJ</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |
| <b>Chromium</b>                 | <b>ND</b>     | <b>10</b>                  | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AK</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |
| <b>Manganese</b>                | <b>ND</b>     | <b>10</b>                  | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AL</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |
| <b>Lead</b>                     | <b>ND</b>     | <b>9.0</b>                 | <b>ug/L</b>  | <b>MCAWW 200.7</b>      | <b>10/27-10/28/08</b>                 | <b>K1AA11AM</b>         |
|                                 |               | Dilution Factor: 1         |              | Analysis Time...: 00:07 |                                       |                         |

**Colorado Oil&Gas Conservation Commission**

**Client Sample ID: W-11546**

**General Chemistry**

**Lot-Sample #...**: D8J210322-001    **Work Order #...**: K0990    **Matrix.....**: WATER  
**Date Sampled...**: 10/21/08 11:16    **Date Received...**: 10/21/08

| <u>PARAMETER</u>       | <u>RESULT</u> | <u>RL</u>           | <u>UNITS</u> | <u>METHOD</u>           | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>PREP<br/>BATCH #</u> |
|------------------------|---------------|---------------------|--------------|-------------------------|---------------------------------------|-------------------------|
| pH                     | 7.4           | 0.10                | No Units     | SM18 4500-H B           | 10/21/08                              | 8295598                 |
|                        |               | Dilution Factor: 1  |              | Analysis Time...: 18:00 |                                       |                         |
| Bromide                | 0.42          | 0.20                | mg/L         | MCAWW 300.0A            | 10/21/08                              | 8297548                 |
|                        |               | Dilution Factor: 1  |              | Analysis Time...: 21:02 |                                       |                         |
| Chloride               | 90 Q          | 15                  | mg/L         | MCAWW 300.0A            | 10/21-10/22/08                        | 8297544                 |
|                        |               | Dilution Factor: 5  |              | Analysis Time...: 08:28 |                                       |                         |
| Fluoride               | 0.96          | 0.50                | mg/L         | MCAWW 300.0A            | 10/21/08                              | 8297549                 |
|                        |               | Dilution Factor: 1  |              | Analysis Time...: 21:02 |                                       |                         |
| Nitrate                | 4.5           | 0.50                | mg/L         | MCAWW 300.0A            | 10/21/08                              | 8297545                 |
|                        |               | Dilution Factor: 1  |              | Analysis Time...: 21:02 |                                       |                         |
| Nitrite                | ND            | 0.50                | mg/L         | MCAWW 300.0A            | 10/21/08                              | 8297547                 |
|                        |               | Dilution Factor: 1  |              | Analysis Time...: 21:02 |                                       |                         |
| Specific Conductance   | 1500          | 2.0                 | umhos/cm     | SM18 2510 B             | 10/24/08                              | 8298705                 |
|                        |               | Dilution Factor: 1  |              | Analysis Time...: 17:00 |                                       |                         |
| Sulfate                | 370 Q         | 50                  | mg/L         | MCAWW 300.0A            | 10/21-10/22/08                        | 8297546                 |
|                        |               | Dilution Factor: 10 |              | Analysis Time...: 08:45 |                                       |                         |
| Total Dissolved Solids | 960 J         | 10                  | mg/L         | SM18 2540 C             | 10/27/08                              | 8302314                 |
|                        |               | Dilution Factor: 1  |              | Analysis Time...: 15:10 |                                       |                         |

**NOTE(S):**

RL Reporting Limit

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.

**Colorado Oil&Gas Conservation Commision**

**Client Sample ID: W-11566**

**General Chemistry**

**Lot-Sample #...**: D8J210322-003    **Work Order #...**: K1AAX    **Matrix.....**: WATER  
**Date Sampled...**: 10/21/08 10:12    **Date Received..**: 10/21/08

| <u>PARAMETER</u>              | <u>RESULT</u> | <u>RL</u>           | <u>UNITS</u>    | <u>METHOD</u>           | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>PREP<br/>BATCH #</u> |
|-------------------------------|---------------|---------------------|-----------------|-------------------------|---------------------------------------|-------------------------|
| <b>pH</b>                     | <b>7.2</b>    | <b>0.10</b>         | <b>No Units</b> | <b>SM18 4500-H B</b>    | <b>10/21/08</b>                       | <b>8295598</b>          |
|                               |               | Dilution Factor: 1  |                 | Analysis Time...: 18:03 |                                       |                         |
| <b>Bromide</b>                | <b>0.48</b>   | <b>0.20</b>         | <b>mg/L</b>     | <b>MCAWW 300.0A</b>     | <b>10/21/08</b>                       | <b>8297548</b>          |
|                               |               | Dilution Factor: 1  |                 | Analysis Time...: 21:52 |                                       |                         |
| <b>Chloride</b>               | <b>90 Q</b>   | <b>15</b>           | <b>mg/L</b>     | <b>MCAWW 300.0A</b>     | <b>10/21-10/22/08</b>                 | <b>8297544</b>          |
|                               |               | Dilution Factor: 5  |                 | Analysis Time...: 09:01 |                                       |                         |
| <b>Fluoride</b>               | <b>0.93</b>   | <b>0.50</b>         | <b>mg/L</b>     | <b>MCAWW 300.0A</b>     | <b>10/21/08</b>                       | <b>8297549</b>          |
|                               |               | Dilution Factor: 1  |                 | Analysis Time...: 21:52 |                                       |                         |
| <b>Nitrate</b>                | <b>2.7</b>    | <b>0.50</b>         | <b>mg/L</b>     | <b>MCAWW 300.0A</b>     | <b>10/21/08</b>                       | <b>8297545</b>          |
|                               |               | Dilution Factor: 1  |                 | Analysis Time...: 21:52 |                                       |                         |
| <b>Nitrite</b>                | <b>ND</b>     | <b>0.50</b>         | <b>mg/L</b>     | <b>MCAWW 300.0A</b>     | <b>10/21/08</b>                       | <b>8297547</b>          |
|                               |               | Dilution Factor: 1  |                 | Analysis Time...: 21:52 |                                       |                         |
| <b>Specific Conductance</b>   | <b>1500</b>   | <b>2.0</b>          | <b>umhos/cm</b> | <b>SM18 2510 B</b>      | <b>10/24/08</b>                       | <b>8298705</b>          |
|                               |               | Dilution Factor: 1  |                 | Analysis Time...: 17:00 |                                       |                         |
| <b>Sulfate</b>                | <b>420 Q</b>  | <b>50</b>           | <b>mg/L</b>     | <b>MCAWW 300.0A</b>     | <b>10/21-10/22/08</b>                 | <b>8297546</b>          |
|                               |               | Dilution Factor: 10 |                 | Analysis Time...: 09:18 |                                       |                         |
| <b>Total Dissolved Solids</b> | <b>1000 J</b> | <b>10</b>           | <b>mg/L</b>     | <b>SM18 2540 C</b>      | <b>10/27/08</b>                       | <b>8302314</b>          |
|                               |               | Dilution Factor: 1  |                 | Analysis Time...: 15:10 |                                       |                         |

**NOTE(S) :**

RL Reporting Limit

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

D8J210322

Sample Preparation and Analysis Control Numbers

| <u>SAMPLE#</u> | <u>MATRIX</u> | <u>ANALYTICAL<br/>METHOD</u> | <u>LEACH<br/>BATCH #</u> | <u>PREP<br/>BATCH #</u> | <u>MS RUN#</u> |
|----------------|---------------|------------------------------|--------------------------|-------------------------|----------------|
| 001            | WATER         | MCAWW 300.0A                 |                          | 8297544                 | 8301383        |
|                | WATER         | MCAWW 300.0A                 |                          | 8297546                 | 8301385        |
|                | WATER         | MCAWW 300.0A                 |                          | 8297549                 | 8301388        |
|                | WATER         | MCAWW 300.0A                 |                          | 8297545                 | 8301384        |
|                | WATER         | MCAWW 300.0A                 |                          | 8297548                 | 8301387        |
|                | WATER         | MCAWW 300.0A                 |                          | 8297547                 | 8301386        |
|                | WATER         | SM18 2510 B                  |                          | 8298705                 | 8302148        |
|                | WATER         | SM18 2540 C                  |                          | 8302314                 | 8308170        |
|                | WATER         | SM18 4500-H B                |                          | 8295598                 | 8298341        |
|                | WATER         | SW846 8260B                  |                          | 8301550                 | 8301376        |
|                | WATER         | RSK SOP-175                  |                          | 8297232                 |                |
| 002            | WATER         | MCAWW 200.7                  |                          | 8298327                 | 8298173        |
| 003            | WATER         | MCAWW 300.0A                 |                          | 8297544                 | 8301383        |
|                | WATER         | MCAWW 300.0A                 |                          | 8297546                 | 8301385        |
|                | WATER         | MCAWW 300.0A                 |                          | 8297549                 | 8301388        |
|                | WATER         | MCAWW 300.0A                 |                          | 8297545                 | 8301384        |
|                | WATER         | MCAWW 300.0A                 |                          | 8297548                 | 8301387        |
|                | WATER         | MCAWW 300.0A                 |                          | 8297547                 | 8301386        |
|                | WATER         | SM18 2510 B                  |                          | 8298705                 | 8302148        |
|                | WATER         | SM18 2540 C                  |                          | 8302314                 | 8308170        |
|                | WATER         | SM18 4500-H B                |                          | 8295598                 | 8298341        |
|                | WATER         | SW846 8260B                  |                          | 8301550                 | 8301376        |
|                | WATER         | RSK SOP-175                  |                          | 8297232                 |                |
| 004            | WATER         | MCAWW 200.7                  |                          | 8298327                 | 8298173        |

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8J210322  
MB Lot-Sample #: D8J270000-550

Work Order #...: K1PNH1AA

Matrix.....: WATER

Analysis Date...: 10/26/08  
Dilution Factor: 1

Prep Date.....: 10/26/08  
Prep Batch #...: 8301550

Analysis Time...: 15:34

| PARAMETER               | RESULT | REPORTING<br>LIMIT | UNITS | METHOD      |
|-------------------------|--------|--------------------|-------|-------------|
| Benzene                 | ND     | 1.0                | ug/L  | SW846 8260B |
| Ethylbenzene            | ND     | 1.0                | ug/L  | SW846 8260B |
| Methyl tert-butyl ether | ND     | 5.0                | ug/L  | SW846 8260B |
| Toluene                 | ND     | 1.0                | ug/L  | SW846 8260B |
| Xylenes (total)         | ND     | 2.0                | ug/L  | SW846 8260B |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 105                 | (79 - 120)         |
| 1,2-Dichloroethane-d4 | 98                  | (65 - 126)         |
| 4-Bromofluorobenzene  | 81                  | (75 - 120)         |
| Toluene-d8            | 116                 | (78 - 120)         |

NOTE (S) :

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

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #....: D8J210322      Work Order #....: K1PNH1AC      Matrix.....: WATER  
 LCS Lot-Sample#: D8J270000-550  
 Prep Date.....: 10/26/08      Analysis Date...: 10/26/08  
 Prep Batch #....: 8301550      Analysis Time...: 14:59  
 Dilution Factor: 1

| PARAMETER                | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS | METHOD      |
|--------------------------|---------------------|--------------------|-------------|
| 1,1-Dichloroethene       | 86                  | (68 - 133)         | SW846 8260B |
| Chlorobenzene            | 103                 | (78 - 118)         | SW846 8260B |
| Benzene                  | 97                  | (77 - 118)         | SW846 8260B |
| Trichloroethene          | 103                 | (78 - 122)         | SW846 8260B |
| Ethylbenzene             | 102                 | (78 - 118)         | SW846 8260B |
| Chloroform               | 96                  | (78 - 118)         | SW846 8260B |
| 1,3-Dichlorobenzene      | 87                  | (75 - 115)         | SW846 8260B |
| 1,1-Dichloroethane       | 99                  | (77 - 117)         | SW846 8260B |
| 1,2-Dichloropropane      | 92                  | (76 - 116)         | SW846 8260B |
| Toluene                  | 109                 | (73 - 120)         | SW846 8260B |
| Methylene chloride       | 93                  | (71 - 119)         | SW846 8260B |
| Tetrachloroethene        | 113                 | (77 - 117)         | SW846 8260B |
| 1,1,1-Trichloroethane    | 107                 | (78 - 118)         | SW846 8260B |
| Carbon tetrachloride     | 107                 | (80 - 120)         | SW846 8260B |
| trans-1,2-Dichloroethene | 91                  | (80 - 120)         | SW846 8260B |
| Bromodichloromethane     | 90                  | (78 - 118)         | SW846 8260B |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 100                 | (79 - 120)         |
| 1,2-Dichloroethane-d4 | 93                  | (65 - 126)         |
| 4-Bromofluorobenzene  | 89                  | (75 - 120)         |
| Toluene-d8            | 116                 | (78 - 120)         |

### 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/MS Volatiles

Client Lot #....: D8J210322      Work Order #....: K1PNH1AC      Matrix.....: WATER  
 LCS Lot-Sample#: D8J270000-550  
 Prep Date.....: 10/26/08      Analysis Date...: 10/26/08  
 Prep Batch #....: 8301550      Analysis Time...: 14:59  
 Dilution Factor: 1

| PARAMETER                | SPIKE<br>AMOUNT | MEASURED<br>AMOUNT | UNITS | PERCENT<br>RECOVERY | METHOD      |
|--------------------------|-----------------|--------------------|-------|---------------------|-------------|
| 1,1-Dichloroethene       | 5.00            | 4.29               | ug/L  | 86                  | SW846 8260B |
| Chlorobenzene            | 5.00            | 5.13               | ug/L  | 103                 | SW846 8260B |
| Benzene                  | 5.00            | 4.84               | ug/L  | 97                  | SW846 8260B |
| Trichloroethene          | 5.00            | 5.13               | ug/L  | 103                 | SW846 8260B |
| Ethylbenzene             | 5.00            | 5.11               | ug/L  | 102                 | SW846 8260B |
| Chloroform               | 5.00            | 4.78               | ug/L  | 96                  | SW846 8260B |
| 1,3-Dichlorobenzene      | 5.00            | 4.37               | ug/L  | 87                  | SW846 8260B |
| 1,1-Dichloroethane       | 5.00            | 4.95               | ug/L  | 99                  | SW846 8260B |
| 1,2-Dichloropropane      | 5.00            | 4.61               | ug/L  | 92                  | SW846 8260B |
| Toluene                  | 5.00            | 5.46               | ug/L  | 109                 | SW846 8260B |
| Methylene chloride       | 5.00            | 4.64               | ug/L  | 93                  | SW846 8260B |
| Tetrachloroethene        | 5.00            | 5.67               | ug/L  | 113                 | SW846 8260B |
| 1,1,1-Trichloroethane    | 5.00            | 5.34               | ug/L  | 107                 | SW846 8260B |
| Carbon tetrachloride     | 5.00            | 5.33               | ug/L  | 107                 | SW846 8260B |
| trans-1,2-Dichloroethene | 5.00            | 4.57               | ug/L  | 91                  | SW846 8260B |
| Bromodichloromethane     | 5.00            | 4.50               | ug/L  | 90                  | SW846 8260B |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 100                 | (79 - 120)         |
| 1,2-Dichloroethane-d4 | 93                  | (65 - 126)         |
| 4-Bromofluorobenzene  | 89                  | (75 - 120)         |
| Toluene-d8            | 116                 | (78 - 120)         |

### NOTE(S) :

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

Bold print denotes control parameters

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #...: D8J210322      Work Order #...: K0X3W1AX-MS      Matrix.....: WATER  
 MS Lot-Sample #: D8J150346-001      K0X3W1A0-MSD  
 Date Sampled...: 10/14/08 09:30      Date Received...: 10/15/08  
 Prep Date.....: 10/26/08      Analysis Date...: 10/26/08  
 Prep Batch #...: 8301550      Analysis Time...: 16:32  
 Dilution Factor: 1

| PARAMETER                | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS | RPD  | RPD<br>LIMITS | METHOD      |
|--------------------------|---------------------|--------------------|------|---------------|-------------|
| 1,1-Dichloroethene       | 91                  | (68 - 133)         |      |               | SW846 8260B |
|                          | 120 p               | (68 - 133)         | 28   | (0-20)        | SW846 8260B |
| Chlorobenzene            | 104                 | (78 - 118)         |      |               | SW846 8260B |
|                          | 104                 | (78 - 118)         | 0.07 | (0-20)        | SW846 8260B |
| Benzene                  | 96                  | (77 - 118)         |      |               | SW846 8260B |
|                          | 99                  | (77 - 118)         | 2.6  | (0-20)        | SW846 8260B |
| Trichloroethene          | 102                 | (78 - 122)         |      |               | SW846 8260B |
|                          | 102                 | (78 - 122)         | 0.02 | (0-20)        | SW846 8260B |
| Ethylbenzene             | 103                 | (78 - 118)         |      |               | SW846 8260B |
|                          | 104                 | (78 - 118)         | 0.21 | (0-26)        | SW846 8260B |
| Chloroform               | 95                  | (78 - 118)         |      |               | SW846 8260B |
|                          | 98                  | (78 - 118)         | 2.9  | (0-20)        | SW846 8260B |
| 1,3-Dichlorobenzene      | 85                  | (75 - 115)         |      |               | SW846 8260B |
|                          | 86                  | (75 - 115)         | 1.6  | (0-20)        | SW846 8260B |
| 1,1-Dichloroethane       | 100                 | (77 - 117)         |      |               | SW846 8260B |
|                          | 99                  | (77 - 117)         | 0.91 | (0-21)        | SW846 8260B |
| 1,2-Dichloropropane      | 89                  | (76 - 116)         |      |               | SW846 8260B |
|                          | 90                  | (76 - 116)         | 0.57 | (0-20)        | SW846 8260B |
| Toluene                  | 114                 | (73 - 120)         |      |               | SW846 8260B |
|                          | 112                 | (73 - 120)         | 1.6  | (0-20)        | SW846 8260B |
| Methylene chloride       | 92                  | (71 - 119)         |      |               | SW846 8260B |
|                          | 92                  | (71 - 119)         | 0.82 | (0-20)        | SW846 8260B |
| Tetrachloroethene        | 117                 | (77 - 117)         |      |               | SW846 8260B |
|                          | 114                 | (77 - 117)         | 2.7  | (0-20)        | SW846 8260B |
| 1,1,1-Trichloroethane    | 107                 | (78 - 118)         |      |               | SW846 8260B |
|                          | 107                 | (78 - 118)         | 0.09 | (0-20)        | SW846 8260B |
| Carbon tetrachloride     | 107                 | (80 - 120)         |      |               | SW846 8260B |
|                          | 109                 | (80 - 120)         | 2.4  | (0-21)        | SW846 8260B |
| trans-1,2-Dichloroethene | 90                  | (80 - 120)         |      |               | SW846 8260B |
|                          | 91                  | (80 - 120)         | 1.8  | (0-24)        | SW846 8260B |
| Bromodichloromethane     | 91                  | (78 - 118)         |      |               | SW846 8260B |
|                          | 90                  | (78 - 118)         | 1.8  | (0-20)        | SW846 8260B |
|                          |                     |                    |      |               |             |
| SURROGATE                | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |      |               |             |
| Dibromofluoromethane     | 99                  | (79 - 120)         |      |               |             |
|                          | 102                 | (79 - 120)         |      |               |             |
| 1,2-Dichloroethane-d4    | 91                  | (65 - 126)         |      |               |             |
|                          | 93                  | (65 - 126)         |      |               |             |

(Continued on next page)

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #...: D8J210322  
MS Lot-Sample #: D8J150346-001

Work Order #...: K0X3W1AX-MS  
K0X3W1A0-MSD

Matrix.....: WATER

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 92                          | (75 - 120)                 |
|                      | 89                          | (75 - 120)                 |
| Toluene-d8           | 120                         | (78 - 120)                 |
|                      | 120                         | (78 - 120)                 |

### NOTE(S) :

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

# MATRIX SPIKE SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #...: D8J210322      Work Order #...: K0X3W1AX-MS      Matrix.....: WATER  
 MS Lot-Sample #: D8J150346-001      K0X3W1A0-MSD  
 Date Sampled...: 10/14/08 09:30      Date Received...: 10/15/08  
 Prep Date.....: 10/26/08      Analysis Date...: 10/26/08  
 Prep Batch #...: 8301550      Analysis Time...: 16:32  
 Dilution Factor: 1

| PARAMETER                | SAMPLE<br>AMOUNT | SPIKE<br>AMT | MEASRD<br>AMOUNT | UNITS | PERCNT<br>RECVRY | RPD  | METHOD      |
|--------------------------|------------------|--------------|------------------|-------|------------------|------|-------------|
| 1,1-Dichloroethene       | ND               | 5.00         | 4.54             | ug/L  | 91               |      | SW846 8260B |
|                          | ND               | 5.00         | 5.99             | ug/L  | 120 p            | 28   | SW846 8260B |
| Chlorobenzene            | ND               | 5.00         | 5.20             | ug/L  | 104              |      | SW846 8260B |
|                          | ND               | 5.00         | 5.20             | ug/L  | 104              | 0.07 | SW846 8260B |
| Benzene                  | ND               | 5.00         | 4.81             | ug/L  | 96               |      | SW846 8260B |
|                          | ND               | 5.00         | 4.93             | ug/L  | 99               | 2.6  | SW846 8260B |
| Trichloroethene          | ND               | 5.00         | 5.08             | ug/L  | 102              |      | SW846 8260B |
|                          | ND               | 5.00         | 5.08             | ug/L  | 102              | 0.02 | SW846 8260B |
| Ethylbenzene             | ND               | 5.00         | 5.17             | ug/L  | 103              |      | SW846 8260B |
|                          | ND               | 5.00         | 5.19             | ug/L  | 104              | 0.21 | SW846 8260B |
| Chloroform               | ND               | 5.00         | 4.74             | ug/L  | 95               |      | SW846 8260B |
|                          | ND               | 5.00         | 4.89             | ug/L  | 98               | 2.9  | SW846 8260B |
| 1,3-Dichlorobenzene      | ND               | 5.00         | 4.25             | ug/L  | 85               |      | SW846 8260B |
|                          | ND               | 5.00         | 4.31             | ug/L  | 86               | 1.6  | SW846 8260B |
| 1,1-Dichloroethane       | ND               | 5.00         | 4.99             | ug/L  | 100              |      | SW846 8260B |
|                          | ND               | 5.00         | 4.94             | ug/L  | 99               | 0.91 | SW846 8260B |
| 1,2-Dichloropropane      | ND               | 5.00         | 4.46             | ug/L  | 89               |      | SW846 8260B |
|                          | ND               | 5.00         | 4.49             | ug/L  | 90               | 0.57 | SW846 8260B |
| Toluene                  | ND               | 5.00         | 5.71             | ug/L  | 114              |      | SW846 8260B |
|                          | ND               | 5.00         | 5.62             | ug/L  | 112              | 1.6  | SW846 8260B |
| Methylene chloride       | ND               | 5.00         | 4.61             | ug/L  | 92               |      | SW846 8260B |
|                          | ND               | 5.00         | 4.58             | ug/L  | 92               | 0.82 | SW846 8260B |
| Tetrachloroethene        | ND               | 5.00         | 5.86             | ug/L  | 117              |      | SW846 8260B |
|                          | ND               | 5.00         | 5.70             | ug/L  | 114              | 2.7  | SW846 8260B |
| 1,1,1-Trichloroethane    | ND               | 5.00         | 5.37             | ug/L  | 107              |      | SW846 8260B |
|                          | ND               | 5.00         | 5.37             | ug/L  | 107              | 0.09 | SW846 8260B |
| Carbon tetrachloride     | ND               | 5.00         | 5.34             | ug/L  | 107              |      | SW846 8260B |
|                          | ND               | 5.00         | 5.47             | ug/L  | 109              | 2.4  | SW846 8260B |
| trans-1,2-Dichloroethene | ND               | 5.00         | 4.49             | ug/L  | 90               |      | SW846 8260B |
|                          | ND               | 5.00         | 4.57             | ug/L  | 91               | 1.8  | SW846 8260B |
| Bromodichloromethane     | ND               | 5.00         | 4.57             | ug/L  | 91               |      | SW846 8260B |
|                          | ND               | 5.00         | 4.49             | ug/L  | 90               | 1.8  | SW846 8260B |

| SURROGATE             | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS |
|-----------------------|---------------------|--------------------|
| Dibromofluoromethane  | 99                  | (79 - 120)         |
|                       | 102                 | (79 - 120)         |
| 1,2-Dichloroethane-d4 | 91                  | (65 - 126)         |
|                       | 93                  | (65 - 126)         |

(Continued on next page)

# MATRIX SPIKE SAMPLE DATA REPORT

## GC/MS Volatiles

Client Lot #...: D8J210322      Work Order #...: K0X3W1AX-MS      Matrix.....: WATER  
MS Lot-Sample #: D8J150346-001      K0X3W1A0-MSD

| <u>SURROGATE</u>     | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> |
|----------------------|-----------------------------|----------------------------|
| 4-Bromofluorobenzene | 92                          | (75 - 120)                 |
|                      | 89                          | (75 - 120)                 |
| Toluene-d8           | 120                         | (78 - 120)                 |
|                      | 120                         | (78 - 120)                 |

### **NOTE(S) :**

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

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: D8J210322  
MB Lot-Sample #: D8J230000-232

Work Order #...: K1FFF1AA

Matrix.....: WATER

Analysis Date...: 10/23/08

Prep Date.....: 10/23/08

Analysis Time...: 08:40

Dilution Factor: 1

Prep Batch #...: 8297232

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> |
|------------------|---------------|----------------------------------|--------------|---------------|
| Methane          | 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 #...: D8J210322      Work Order #...: K1FFF1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D8J230000-232      K1FFF1AD-LCSD  
 Prep Date.....: 10/23/08      Analysis Date...: 10/23/08  
 Prep Batch #...: 8297232      Analysis Time...: 08:32  
 Dilution Factor: 1

| PARAMETER | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS | RPD  | RPD<br>LIMITS | METHOD      |
|-----------|---------------------|--------------------|------|---------------|-------------|
| Ethane    | 114                 | (75 - 125)         |      |               | RSK SOP-175 |
|           | 110                 | (75 - 125)         | 3.7  | (0-20)        | RSK SOP-175 |
| Ethene    | 115                 | (75 - 125)         |      |               | RSK SOP-175 |
|           | 111                 | (75 - 125)         | 3.7  | (0-20)        | RSK SOP-175 |
| Acetylene | 104                 | (75 - 125)         |      |               | RSK SOP-175 |
|           | 103                 | (75 - 125)         | 0.73 | (0-20)        | RSK SOP-175 |
| Methane   | 112                 | (75 - 125)         |      |               | RSK SOP-175 |
|           | 108                 | (75 - 125)         | 3.8  | (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 #...: D8J210322      Work Order #...: K1FFF1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D8J230000-232      K1FFF1AD-LCSD  
 Prep Date.....: 10/23/08      Analysis Date...: 10/23/08  
 Prep Batch #...: 8297232      Analysis Time...: 08:32  
 Dilution Factor: 1

| PARAMETER        | SPIKE<br>AMOUNT | MEASURED<br>AMOUNT | UNITS       | PERCENT<br>RECOVERY | RPD         | METHOD             |
|------------------|-----------------|--------------------|-------------|---------------------|-------------|--------------------|
| <b>Ethane</b>    | <b>137</b>      | <b>156</b>         | <b>ug/L</b> | <b>114</b>          |             | <b>RSK SOP-175</b> |
|                  | <b>137</b>      | <b>150</b>         | <b>ug/L</b> | <b>110</b>          | <b>3.7</b>  | <b>RSK SOP-175</b> |
| <b>Ethene</b>    | <b>127</b>      | <b>146</b>         | <b>ug/L</b> | <b>115</b>          |             | <b>RSK SOP-175</b> |
|                  | <b>127</b>      | <b>141</b>         | <b>ug/L</b> | <b>111</b>          | <b>3.7</b>  | <b>RSK SOP-175</b> |
| <b>Acetylene</b> | <b>118</b>      | <b>122</b>         | <b>ug/L</b> | <b>104</b>          |             | <b>RSK SOP-175</b> |
|                  | <b>118</b>      | <b>122</b>         | <b>ug/L</b> | <b>103</b>          | <b>0.73</b> | <b>RSK SOP-175</b> |
| <b>Methane</b>   | <b>73.0</b>     | <b>81.8</b>        | <b>ug/L</b> | <b>112</b>          |             | <b>RSK SOP-175</b> |
|                  | <b>73.0</b>     | <b>78.8</b>        | <b>ug/L</b> | <b>108</b>          | <b>3.8</b>  | <b>RSK SOP-175</b> |

### NOTE (S) :

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

Bold print denotes control parameters

# METHOD BLANK REPORT

## TOTAL Metals

Client Lot #...: D8J210322

Matrix.....: WATER

| PARAMETER  | RESULT | REPORTING<br>LIMIT      | UNITS | METHOD      | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|--|--------|-------------------------|-------|-------------|-------------------------------|-----------------|
| <b>MB Lot-Sample #: D8J240000-327 Prep Batch #...: 8298327</b> |        |                         |       |             |                               |                 |
| Potassium  | ND     | 3000                    | ug/L  | MCAWW 200.7 | 10/27/08                      | K1JG71AD        |
|  |        | Dilution Factor: 1      |       |             |                               |                 |
|  |        | Analysis Time...: 23:05 |       |             |                               |                 |
| Selenium   | ND     | 15                      | ug/L  | MCAWW 200.7 | 10/27/08                      | K1JG71AF        |
|  |        | Dilution Factor: 1      |       |             |                               |                 |
|  |        | Analysis Time...: 23:05 |       |             |                               |                 |
| Calcium  | ND     | 200                     | ug/L  | MCAWW 200.7 | 10/27/08                      | K1JG71AA        |
|  |        | Dilution Factor: 1      |       |             |                               |                 |
|  |        | Analysis Time...: 23:05 |       |             |                               |                 |
| Iron   | ND     | 100                     | ug/L  | MCAWW 200.7 | 10/27/08                      | K1JG71AN        |
|  |        | Dilution Factor: 1      |       |             |                               |                 |
|  |        | Analysis Time...: 23:05 |       |             |                               |                 |
| Magnesium  | ND     | 200                     | ug/L  | MCAWW 200.7 | 10/27/08                      | K1JG71AC        |
|  |        | Dilution Factor: 1      |       |             |                               |                 |
|  |        | Analysis Time...: 23:05 |       |             |                               |                 |
| Arsenic  | ND     | 15                      | ug/L  | MCAWW 200.7 | 10/27/08                      | K1JG71AG        |
|  |        | Dilution Factor: 1      |       |             |                               |                 |
|  |        | Analysis Time...: 23:05 |       |             |                               |                 |
| Barium   | ND     | 10                      | ug/L  | MCAWW 200.7 | 10/27/08                      | K1JG71AH        |
|  |        | Dilution Factor: 1      |       |             |                               |                 |
|  |        | Analysis Time...: 23:05 |       |             |                               |                 |
| Cadmium  | ND     | 5.0                     | ug/L  | MCAWW 200.7 | 10/27/08                      | K1JG71AJ        |
|  |        | Dilution Factor: 1      |       |             |                               |                 |
|  |        | Analysis Time...: 23:05 |       |             |                               |                 |
| Chromium   | ND     | 10                      | ug/L  | MCAWW 200.7 | 10/27/08                      | K1JG71AK        |
|  |        | Dilution Factor: 1      |       |             |                               |                 |
|  |        | Analysis Time...: 23:05 |       |             |                               |                 |
| Lead   | ND     | 9.0                     | ug/L  | MCAWW 200.7 | 10/27/08                      | K1JG71AM        |
|  |        | Dilution Factor: 1      |       |             |                               |                 |
|  |        | Analysis Time...: 23:05 |       |             |                               |                 |
| Manganese  | ND     | 10                      | ug/L  | MCAWW 200.7 | 10/27/08                      | K1JG71AL        |
|  |        | Dilution Factor: 1      |       |             |                               |                 |
|  |        | Analysis Time...: 23:05 |       |             |                               |                 |

(Continued on next page)

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8J210322

Matrix.....: WATER

| <u>PARAMETER</u> | <u>RESULT</u> | <u>REPORTING</u><br><u>LIMIT</u> | <u>UNITS</u> | <u>METHOD</u> | <u>PREPARATION-</u><br><u>ANALYSIS DATE</u> | <u>WORK</u><br><u>ORDER #</u> |
|------------------|---------------|----------------------------------|--------------|---------------|---|-------------------------------|
| Sodium           | ND            | 5000                             | ug/L         | MCAWW 200.7   | 10/27/08                                    | K1JG71AE                      |
|                  |               | Dilution Factor: 1               |              |               |   |                               |
|                  |               | Analysis Time...: 23:05          |              |               |   |                               |

**NOTE(S) :**

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

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #...: D8J210322

Matrix.....: WATER

| <u>PARAMETER</u>   | <u>PERCENT<br/>RECOVERY</u> | <u>RECOVERY<br/>LIMITS</u> | <u>METHOD</u>           | <u>PREPARATION-<br/>ANALYSIS DATE</u> | <u>WORK ORDER #</u> |
|--|-----------------------------|----------------------------|-------------------------|---------------------------------------|---------------------|
| <b>LCS Lot-Sample#:</b> D8J240000-327 <b>Prep Batch #...</b> : 8298327 |                             |                            |                         |                                       |                     |
| Potassium  | 98                          | (89 - 114)                 | MCAWW 200.7             | 10/27/08                              | K1JG71AR            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |
| Selenium   | 99                          | (85 - 112)                 | MCAWW 200.7             | 10/27/08                              | K1JG71AU            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |
| Calcium  | 93                          | (90 - 111)                 | MCAWW 200.7             | 10/27/08                              | K1JG71AP            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |
| Magnesium  | 95                          | (90 - 113)                 | MCAWW 200.7             | 10/27/08                              | K1JG71AQ            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |
| Iron   | 94                          | (89 - 115)                 | MCAWW 200.7             | 10/27/08                              | K1JG71A3            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |
| Sodium   | 102                         | (90 - 115)                 | MCAWW 200.7             | 10/27/08                              | K1JG71AT            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |
| Arsenic  | 100                         | (88 - 110)                 | MCAWW 200.7             | 10/27/08                              | K1JG71AV            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |
| Barium   | 98                          | (90 - 112)                 | MCAWW 200.7             | 10/27/08                              | K1JG71AW            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |
| Cadmium  | 95                          | (88 - 111)                 | MCAWW 200.7             | 10/27/08                              | K1JG71AX            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |
| Chromium   | 96                          | (90 - 113)                 | MCAWW 200.7             | 10/27/08                              | K1JG71A0            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |
| Manganese  | 99                          | (90 - 110)                 | MCAWW 200.7             | 10/27/08                              | K1JG71A1            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |
| Lead   | 98                          | (89 - 110)                 | MCAWW 200.7             | 10/27/08                              | K1JG71A2            |
|  |                             | Dilution Factor: 1         | Analysis Time...: 23:09 |                                       |                     |

### NOTE(S) :

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

# LABORATORY CONTROL SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: D8J210322

Matrix.....: WATER

| PARAMETER   | SPIKE<br>AMOUNT | MEASURED<br>AMOUNT | UNITS              | PERCNT<br>RECVRY | METHOD                  | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|---|-----------------|--------------------|--------------------|------------------|-------------------------|-------------------------------|-----------------|
| LCS Lot-Sample#: D8J240000-327 Prep Batch #...: 8298327 |                 |                    |                    |                  |                         |                               |                 |
| Potassium   | 50000           | 48900              | ug/L               | 98               | MCAWW 200.7             | 10/27/08                      | K1JG71AR        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |
| Selenium  | 2000            | 1980               | ug/L               | 99               | MCAWW 200.7             | 10/27/08                      | K1JG71AU        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |
| Calcium   | 50000           | 46600              | ug/L               | 93               | MCAWW 200.7             | 10/27/08                      | K1JG71AP        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |
| Magnesium   | 50000           | 47500              | ug/L               | 95               | MCAWW 200.7             | 10/27/08                      | K1JG71AQ        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |
| Iron  | 1000            | 936                | ug/L               | 94               | MCAWW 200.7             | 10/27/08                      | K1JG71A3        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |
| Sodium  | 50000           | 51100              | ug/L               | 102              | MCAWW 200.7             | 10/27/08                      | K1JG71AT        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |
| Arsenic   | 1000            | 1000               | ug/L               | 100              | MCAWW 200.7             | 10/27/08                      | K1JG71AV        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |
| Barium  | 2000            | 1950               | ug/L               | 98               | MCAWW 200.7             | 10/27/08                      | K1JG71AW        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |
| Cadmium   | 100             | 95.0               | ug/L               | 95               | MCAWW 200.7             | 10/27/08                      | K1JG71AX        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |
| Chromium  | 200             | 192                | ug/L               | 96               | MCAWW 200.7             | 10/27/08                      | K1JG71A0        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |
| Manganese   | 500             | 497                | ug/L               | 99               | MCAWW 200.7             | 10/27/08                      | K1JG71A1        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |
| Lead  | 500             | 492                | ug/L               | 98               | MCAWW 200.7             | 10/27/08                      | K1JG71A2        |
|   |                 |                    | Dilution Factor: 1 |                  | Analysis Time...: 23:09 |                               |                 |

### NOTE(S) :

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

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #...: D8J210322

Matrix.....: WATER

Date Sampled...: 10/21/08 11:16 Date Received...: 10/21/08

| PARAMETER  | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS | RPD<br>LIMITS           | METHOD      | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|--|---------------------|--------------------|-------------------------|-------------|-------------------------------|-----------------|
| <b>MS Lot-Sample #: D8J210322-002 Prep Batch #...: 8298327</b> |                     |                    |                         |             |                               |                 |
| Potassium  | 96                  | (89 - 114)         |                         | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1AU        |
|  | 97                  | (89 - 114)         | 0.77 (0-20)             | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1AV        |
|  |                     |                    | Dilution Factor: 1      |             |                               |                 |
|  |                     |                    | Analysis Time...: 00:00 |             |                               |                 |
| Selenium   | 99                  | (85 - 112)         |                         | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1A0        |
|  | 99                  | (85 - 112)         | 0.17 (0-20)             | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1A1        |
|  |                     |                    | Dilution Factor: 1      |             |                               |                 |
|  |                     |                    | Analysis Time...: 00:00 |             |                               |                 |
| Calcium  | 86 N                | (90 - 111)         |                         | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1AP        |
|  | 89 N                | (90 - 111)         | 1.2 (0-20)              | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1AQ        |
|  |                     |                    | Dilution Factor: 1      |             |                               |                 |
|  |                     |                    | Analysis Time...: 00:00 |             |                               |                 |
| Iron   | 95                  | (89 - 115)         |                         | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1CF        |
|  | 90                  | (89 - 115)         | 4.7 (0-20)              | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1CG        |
|  |                     |                    | Dilution Factor: 1      |             |                               |                 |
|  |                     |                    | Analysis Time...: 00:00 |             |                               |                 |
| Magnesium  | 92                  | (90 - 113)         |                         | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1AR        |
|  | 94                  | (90 - 113)         | 1.4 (0-20)              | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1AT        |
|  |                     |                    | Dilution Factor: 1      |             |                               |                 |
|  |                     |                    | Analysis Time...: 00:00 |             |                               |                 |
| Arsenic  | 102                 | (88 - 110)         |                         | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1A2        |
|  | 103                 | (88 - 110)         | 0.47 (0-20)             | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1A3        |
|  |                     |                    | Dilution Factor: 1      |             |                               |                 |
|  |                     |                    | Analysis Time...: 00:00 |             |                               |                 |
| Barium   | 96                  | (90 - 112)         |                         | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1A4        |
|  | 96                  | (90 - 112)         | 0.44 (0-20)             | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1A5        |
|  |                     |                    | Dilution Factor: 1      |             |                               |                 |
|  |                     |                    | Analysis Time...: 00:00 |             |                               |                 |
| Cadmium  | 94                  | (88 - 111)         |                         | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1A6        |
|  | 95                  | (88 - 111)         | 0.48 (0-20)             | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1A7        |
|  |                     |                    | Dilution Factor: 1      |             |                               |                 |
|  |                     |                    | Analysis Time...: 00:00 |             |                               |                 |

(Continued on next page)

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## TOTAL Metals

Client Lot #...: D8J210322

Matrix.....: WATER

Date Sampled...: 10/21/08 11:16 Date Received...: 10/21/08

| PARAMETER | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS      | RPD<br>LIMITS | METHOD      | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|-----------|---------------------|-------------------------|---------------|-------------|-------------------------------|-----------------|
| Chromium  | 94                  | (90 - 113)              |               | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1A8        |
|           | 94                  | (90 - 113)              | 0.01 (0-20)   | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1A9        |
|           |                     | Dilution Factor: 1      |               |             |                               |                 |
|           |                     | Analysis Time...: 00:00 |               |             |                               |                 |
| Lead      | 95                  | (89 - 110)              |               | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1CD        |
|           | 96                  | (89 - 110)              | 0.61 (0-20)   | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1CE        |
|           |                     | Dilution Factor: 1      |               |             |                               |                 |
|           |                     | Analysis Time...: 00:00 |               |             |                               |                 |
| Manganese | 97                  | (90 - 110)              |               | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1CA        |
|           | 97                  | (90 - 110)              | 0.47 (0-20)   | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1CC        |
|           |                     | Dilution Factor: 1      |               |             |                               |                 |
|           |                     | Analysis Time...: 00:00 |               |             |                               |                 |
| Sodium    | 87 N                | (90 - 115)              |               | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1AW        |
|           | 92                  | (90 - 115)              | 1.3 (0-20)    | MCAWW 200.7 | 10/27-10/28/08                | K1AAR1AX        |
|           |                     | Dilution Factor: 1      |               |             |                               |                 |
|           |                     | Analysis Time...: 00:00 |               |             |                               |                 |

### NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

# MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: D8J210322

Matrix.....: WATER

Date Sampled...: 10/21/08 11:16 Date Received...: 10/21/08

| PARAMETER | AMOUNT | SAMPLE SPIKE<br>AMT | MEASRD<br>AMOUNT | UNITS | PERCENT<br>RECVRY | RPD | METHOD | PREPARATION-<br>ANALYSIS DATE | WORK<br>ORDER # |
|-----------|--------|---------------------|------------------|-------|-------------------|-----|--------|-------------------------------|-----------------|
|-----------|--------|---------------------|------------------|-------|-------------------|-----|--------|-------------------------------|-----------------|

MS Lot-Sample #: D8J210322-002 Prep Batch #...: 8298327

### Potassium

|                         |       |       |      |    |      |  |             |                |          |
|-------------------------|-------|-------|------|----|------|--|-------------|----------------|----------|
| 3400                    | 50000 | 51500 | ug/L | 96 |      |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1AU |
| 3400                    | 50000 | 51900 | ug/L | 97 | 0.77 |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1AV |
| Dilution Factor: 1      |       |       |      |    |      |  |             |                |          |
| Analysis Time...: 00:00 |       |       |      |    |      |  |             |                |          |

### Selenium

|                         |      |      |      |    |      |  |             |                |          |
|-------------------------|------|------|------|----|------|--|-------------|----------------|----------|
| ND                      | 2000 | 1980 | ug/L | 99 |      |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1AO |
| ND                      | 2000 | 1980 | ug/L | 99 | 0.17 |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1A1 |
| Dilution Factor: 1      |      |      |      |    |      |  |             |                |          |
| Analysis Time...: 00:00 |      |      |      |    |      |  |             |                |          |

### Calcium

|                         |       |        |      |    |     |  |             |                |          |
|-------------------------|-------|--------|------|----|-----|--|-------------|----------------|----------|
| 94000                   | 50000 | 137000 | ug/L | 86 |     |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1AP |
| Qualifiers: N           |       |        |      |    |     |  |             |                |          |
| 94000                   | 50000 | 139000 | ug/L | 89 | 1.2 |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1AQ |
| Qualifiers: N           |       |        |      |    |     |  |             |                |          |
| Dilution Factor: 1      |       |        |      |    |     |  |             |                |          |
| Analysis Time...: 00:00 |       |        |      |    |     |  |             |                |          |

### Iron

|                         |      |     |      |    |     |  |             |                |          |
|-------------------------|------|-----|------|----|-----|--|-------------|----------------|----------|
| ND                      | 1000 | 967 | ug/L | 95 |     |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1CF |
| ND                      | 1000 | 923 | ug/L | 90 | 4.7 |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1CG |
| Dilution Factor: 1      |      |     |      |    |     |  |             |                |          |
| Analysis Time...: 00:00 |      |     |      |    |     |  |             |                |          |

### Magnesium

|                         |       |       |      |    |     |  |             |                |          |
|-------------------------|-------|-------|------|----|-----|--|-------------|----------------|----------|
| 32000                   | 50000 | 77600 | ug/L | 92 |     |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1AR |
| 32000                   | 50000 | 78700 | ug/L | 94 | 1.4 |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1AT |
| Dilution Factor: 1      |       |       |      |    |     |  |             |                |          |
| Analysis Time...: 00:00 |       |       |      |    |     |  |             |                |          |

### Arsenic

|                         |      |      |      |     |      |  |             |                |          |
|-------------------------|------|------|------|-----|------|--|-------------|----------------|----------|
| ND                      | 1000 | 1020 | ug/L | 102 |      |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1A2 |
| ND                      | 1000 | 1030 | ug/L | 103 | 0.47 |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1A3 |
| Dilution Factor: 1      |      |      |      |     |      |  |             |                |          |
| Analysis Time...: 00:00 |      |      |      |     |      |  |             |                |          |

### Barium

|                         |      |      |      |    |      |  |             |                |          |
|-------------------------|------|------|------|----|------|--|-------------|----------------|----------|
| 26                      | 2000 | 1940 | ug/L | 96 |      |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1A4 |
| 26                      | 2000 | 1950 | ug/L | 96 | 0.44 |  | MCAWW 200.7 | 10/27-10/28/08 | K1AAR1A5 |
| Dilution Factor: 1      |      |      |      |    |      |  |             |                |          |
| Analysis Time...: 00:00 |      |      |      |    |      |  |             |                |          |

(Continued on next page)

# MATRIX SPIKE SAMPLE DATA REPORT

## TOTAL Metals

Client Lot #...: D8J210322

Matrix.....: WATER

Date Sampled...: 10/21/08 11:16 Date Received...: 10/21/08

| PARAMETER | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT           | UNITS | PERCNT RECVRY | RPD  | METHOD      | PREPARATION- ANALYSIS DATE | WORK ORDER # |
|-----------|---------------|-----------|-------------------------|-------|---------------|------|-------------|----------------------------|--------------|
| Cadmium   |               |           |                         |       |               |      |             |                            |              |
|           | ND            | 100       | 94.7                    | ug/L  | 94            |      | MCAWW 200.7 | 10/27-10/28/08             | K1AAR1A6     |
|           | ND            | 100       | 95.2                    | ug/L  | 95            | 0.48 | MCAWW 200.7 | 10/27-10/28/08             | K1AAR1A7     |
|           |               |           | Dilution Factor: 1      |       |               |      |             |                            |              |
|           |               |           | Analysis Time...: 00:00 |       |               |      |             |                            |              |
| Chromium  |               |           |                         |       |               |      |             |                            |              |
|           | ND            | 200       | 189                     | ug/L  | 94            |      | MCAWW 200.7 | 10/27-10/28/08             | K1AAR1A8     |
|           | ND            | 200       | 189                     | ug/L  | 94            | 0.01 | MCAWW 200.7 | 10/27-10/28/08             | K1AAR1A9     |
|           |               |           | Dilution Factor: 1      |       |               |      |             |                            |              |
|           |               |           | Analysis Time...: 00:00 |       |               |      |             |                            |              |
| Lead      |               |           |                         |       |               |      |             |                            |              |
|           | ND            | 500       | 476                     | ug/L  | 95            |      | MCAWW 200.7 | 10/27-10/28/08             | K1AAR1CD     |
|           | ND            | 500       | 478                     | ug/L  | 96            | 0.61 | MCAWW 200.7 | 10/27-10/28/08             | K1AAR1CE     |
|           |               |           | Dilution Factor: 1      |       |               |      |             |                            |              |
|           |               |           | Analysis Time...: 00:00 |       |               |      |             |                            |              |
| Manganese |               |           |                         |       |               |      |             |                            |              |
|           | ND            | 500       | 487                     | ug/L  | 97            |      | MCAWW 200.7 | 10/27-10/28/08             | K1AAR1CA     |
|           | ND            | 500       | 485                     | ug/L  | 97            | 0.47 | MCAWW 200.7 | 10/27-10/28/08             | K1AAR1CC     |
|           |               |           | Dilution Factor: 1      |       |               |      |             |                            |              |
|           |               |           | Analysis Time...: 00:00 |       |               |      |             |                            |              |
| Sodium    |               |           |                         |       |               |      |             |                            |              |
|           | 170000        | 50000     | 217000                  | ug/L  | 87            |      | MCAWW 200.7 | 10/27-10/28/08             | K1AAR1AW     |
|           |               |           | Qualifiers: N           |       |               |      |             |                            |              |
|           | 170000        | 50000     | 220000                  | ug/L  | 92            | 1.3  | MCAWW 200.7 | 10/27-10/28/08             | K1AAR1AX     |
|           |               |           | Dilution Factor: 1      |       |               |      |             |                            |              |
|           |               |           | Analysis Time...: 00:00 |       |               |      |             |                            |              |

### NOTE(S) :

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

N Spiked analyte recovery is outside stated control limits.

# METHOD BLANK REPORT

## General Chemistry

Client Lot #...: D8J210322

Matrix.....: WATER

| PARAMETER              | RESULT | REPORTING<br>LIMIT             | UNITS    | METHOD   | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|------------------------|--------|--------------------------------|----------|--|-------------------------------|-----------------|
| Bromide                | ND     | Work Order #: K1PPV1AA<br>0.20 | mg/L     | MB Lot-Sample #: D8J230000-548<br>MCAWW 300.0A | 10/21/08                      | 8297548         |
|                        |        | Dilution Factor: 1             |          |  |                               |                 |
|                        |        | Analysis Time...: 21:02        |          |  |                               |                 |
| Chloride               | ND     | Work Order #: K1PPP1AA<br>3.0  | mg/L     | MB Lot-Sample #: D8J230000-544<br>MCAWW 300.0A | 10/21/08                      | 8297544         |
|                        |        | Dilution Factor: 1             |          |  |                               |                 |
|                        |        | Analysis Time...: 19:22        |          |  |                               |                 |
| Fluoride               | ND     | Work Order #: K1PPW1AA<br>0.50 | mg/L     | MB Lot-Sample #: D8J230000-549<br>MCAWW 300.0A | 10/21/08                      | 8297549         |
|                        |        | Dilution Factor: 1             |          |  |                               |                 |
|                        |        | Analysis Time...: 21:02        |          |  |                               |                 |
| Nitrate                | ND     | Work Order #: K1PPQ1AA<br>0.50 | mg/L     | MB Lot-Sample #: D8J230000-545<br>MCAWW 300.0A | 10/21/08                      | 8297545         |
|                        |        | Dilution Factor: 1             |          |  |                               |                 |
|                        |        | Analysis Time...: 14:56        |          |  |                               |                 |
| Nitrite                | ND     | Work Order #: K1PPT1AA<br>0.50 | mg/L     | MB Lot-Sample #: D8J230000-547<br>MCAWW 300.0A | 10/21/08                      | 8297547         |
|                        |        | Dilution Factor: 1             |          |  |                               |                 |
|                        |        | Analysis Time...: 15:46        |          |  |                               |                 |
| Specific Conductance   | ND     | Work Order #: K1QCT1AA<br>2.0  | umhos/cm | MB Lot-Sample #: D8J240000-705<br>SM18 2510 B  | 10/24/08                      | 8298705         |
|                        |        | Dilution Factor: 1             |          |  |                               |                 |
|                        |        | Analysis Time...: 17:00        |          |  |                               |                 |
| Sulfate                | ND     | Work Order #: K1PPR1AA<br>5.0  | mg/L     | MB Lot-Sample #: D8J230000-546<br>MCAWW 300.0A | 10/21/08                      | 8297546         |
|                        |        | Dilution Factor: 1             |          |  |                               |                 |
|                        |        | Analysis Time...: 14:56        |          |  |                               |                 |
| Total Dissolved Solids | 10     | Work Order #: K15DH1AA<br>10   | mg/L     | MB Lot-Sample #: D8J280000-314<br>SM18 2540 C  | 10/27/08                      | 8302314         |
|                        |        | Dilution Factor: 1             |          |  |                               |                 |
|                        |        | Analysis Time...: 15:10        |          |  |                               |                 |

### NOTE(S) :

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

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Lot-Sample #...: D8J210322

Matrix.....: WATER

|                      | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS  | RPD  | RPD                     | LIMITS | METHOD        | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|----------------------|---------------------|---|------|-------------------------|--------|---------------|-------------------------------|-----------------|
| pH                   |                     | WO#:K1LA51AC-LCS/K1LA51AD-LCSD LCS Lot-Sample#: D8J210000-598 |      |                         |        |               |                               |                 |
|                      | 100                 | (97 - 102)  |      |                         |        | SM18 4500-H B | 10/21/08                      | 8295598         |
|                      | 100                 | (97 - 102)  | 0.0  | (0-5.0)                 |        | SM18 4500-H B | 10/21/08                      | 8295598         |
|                      |                     | Dilution Factor: 1  |      | Analysis Time...: 12:30 |        |               |                               |                 |
| Bromide              |                     | WO#:K1PPV1AC-LCS/K1PPV1AD-LCSD LCS Lot-Sample#: D8J230000-548 |      |                         |        |               |                               |                 |
|                      | 98                  | (90 - 110)  |      |                         |        | MCAWW 300.0A  | 10/21/08                      | 8297548         |
|                      | 98                  | (90 - 110)  | 0.04 | (0-10)                  |        | MCAWW 300.0A  | 10/21/08                      | 8297548         |
|                      |                     | Dilution Factor: 1  |      | Analysis Time...: 21:02 |        |               |                               |                 |
| Chloride             |                     | WO#:K1PPP1AC-LCS/K1PPP1AD-LCSD LCS Lot-Sample#: D8J230000-544 |      |                         |        |               |                               |                 |
|                      | 92                  | (90 - 110)  |      |                         |        | MCAWW 300.0A  | 10/21/08                      | 8297544         |
|                      | 91                  | (90 - 110)  | 0.43 | (0-10)                  |        | MCAWW 300.0A  | 10/21/08                      | 8297544         |
|                      |                     | Dilution Factor: 1  |      | Analysis Time...: 19:22 |        |               |                               |                 |
| Fluoride             |                     | WO#:K1PPW1AC-LCS/K1PPW1AD-LCSD LCS Lot-Sample#: D8J230000-549 |      |                         |        |               |                               |                 |
|                      | 95                  | (90 - 110)  |      |                         |        | MCAWW 300.0A  | 10/21/08                      | 8297549         |
|                      | 94                  | (90 - 110)  | 0.61 | (0-10)                  |        | MCAWW 300.0A  | 10/21/08                      | 8297549         |
|                      |                     | Dilution Factor: 1  |      | Analysis Time...: 21:02 |        |               |                               |                 |
| Nitrate              |                     | WO#:K1PPQ1AC-LCS/K1PPQ1AD-LCSD LCS Lot-Sample#: D8J230000-545 |      |                         |        |               |                               |                 |
|                      | 97                  | (90 - 110)  |      |                         |        | MCAWW 300.0A  | 10/21/08                      | 8297545         |
|                      | 96                  | (90 - 110)  | 0.55 | (0-10)                  |        | MCAWW 300.0A  | 10/21/08                      | 8297545         |
|                      |                     | Dilution Factor: 1  |      | Analysis Time...: 14:56 |        |               |                               |                 |
| Nitrite              |                     | WO#:K1PPT1AC-LCS/K1PPT1AD-LCSD LCS Lot-Sample#: D8J230000-547 |      |                         |        |               |                               |                 |
|                      | 95                  | (90 - 110)  |      |                         |        | MCAWW 300.0A  | 10/21/08                      | 8297547         |
|                      | 95                  | (90 - 110)  | 0.23 | (0-10)                  |        | MCAWW 300.0A  | 10/21/08                      | 8297547         |
|                      |                     | Dilution Factor: 1  |      | Analysis Time...: 15:46 |        |               |                               |                 |
| Specific Conductance |                     | WO#:K1QCT1AC-LCS/K1QCT1AD-LCSD LCS Lot-Sample#: D8J240000-705 |      |                         |        |               |                               |                 |
|                      | 99                  | (90 - 110)  |      |                         |        | SM18 2510 B   | 10/24/08                      | 8298705         |
|                      | 99                  | (90 - 110)  | 0.07 | (0-10)                  |        | SM18 2510 B   | 10/24/08                      | 8298705         |
|                      |                     | Dilution Factor: 1  |      | Analysis Time...: 17:00 |        |               |                               |                 |
| Sulfate              |                     | WO#:K1PPR1AC-LCS/K1PPR1AD-LCSD LCS Lot-Sample#: D8J230000-546 |      |                         |        |               |                               |                 |
|                      | 97                  | (90 - 110)  |      |                         |        | MCAWW 300.0A  | 10/21/08                      | 8297546         |
|                      | 97                  | (90 - 110)  | 0.24 | (0-10)                  |        | MCAWW 300.0A  | 10/21/08                      | 8297546         |
|                      |                     | Dilution Factor: 1  |      | Analysis Time...: 14:56 |        |               |                               |                 |

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# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## General Chemistry

Lot-Sample #...: D8J210322

Matrix.....: WATER

| PARAMETER              | PERCENT<br>RECOVERY | RECOVERY<br>LIMITS             | RPD<br>LIMITS | METHOD                  | PREPARATION-<br>ANALYSIS DATE  | PREP<br>BATCH # |
|------------------------|---------------------|--------------------------------|---------------|-------------------------|--------------------------------|-----------------|
| Total Dissolved Solids |                     | WO#:K15DH1AC-LCS/K15DH1AD-LCSD |               |                         | LCS Lot-Sample#: D8J280000-314 |                 |
|                        | 99                  | (86 - 106)                     |               | SM18 2540 C             | 10/27/08                       | 8302314         |
|                        | 98                  | (86 - 106)                     | 0.81 (0-20)   | SM18 2540 C             | 10/27/08                       | 8302314         |
|                        |                     | Dilution Factor: 1             |               | Analysis Time...: 15:10 |                                |                 |

### NOTE(S) :

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

# LABORATORY CONTROL SAMPLE DATA REPORT

## General Chemistry

Lot-Sample #...: D8J210322

Matrix.....: WATER

| PARAMETER            | SPIKE<br>AMOUNT | MEASURED<br>AMOUNT | UNITS   | PERCNT<br>RECVRY | RPD                     | METHOD        | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|----------------------|-----------------|--------------------|---|------------------|-------------------------|---------------|-------------------------------|-----------------|
| pH                   |                 |                    |   |                  |                         |               |                               |                 |
|                      |                 |                    | WO#:K1LA51AC-LCS/K1LA51AD-LCSD LCS Lot-Sample#: D8J210000-598 |                  |                         |               |                               |                 |
|                      | 7.00            | 7.02               | No Units  | 100              |                         | SM18 4500-H B | 10/21/08                      | 8295598         |
|                      | 7.00            | 7.02               | No Units  | 100              | 0.0                     | SM18 4500-H B | 10/21/08                      | 8295598         |
|                      |                 |                    | Dilution Factor: 1  |                  | Analysis Time...: 12:30 |               |                               |                 |
| Bromide              |                 |                    |   |                  |                         |               |                               |                 |
|                      |                 |                    | WO#:K1PPV1AC-LCS/K1PPV1AD-LCSD LCS Lot-Sample#: D8J230000-548 |                  |                         |               |                               |                 |
|                      | 5.00            | 4.88               | mg/L  | 98               |                         | MCAWW 300.0A  | 10/21/08                      | 8297548         |
|                      | 5.00            | 4.88               | mg/L  | 98               | 0.04                    | MCAWW 300.0A  | 10/21/08                      | 8297548         |
|                      |                 |                    | Dilution Factor: 1  |                  | Analysis Time...: 21:02 |               |                               |                 |
| Chloride             |                 |                    |   |                  |                         |               |                               |                 |
|                      |                 |                    | WO#:K1PPP1AC-LCS/K1PPP1AD-LCSD LCS Lot-Sample#: D8J230000-544 |                  |                         |               |                               |                 |
|                      | 25.0            | 22.9               | mg/L  | 92               |                         | MCAWW 300.0A  | 10/21/08                      | 8297544         |
|                      | 25.0            | 22.8               | mg/L  | 91               | 0.43                    | MCAWW 300.0A  | 10/21/08                      | 8297544         |
|                      |                 |                    | Dilution Factor: 1  |                  | Analysis Time...: 19:22 |               |                               |                 |
| Fluoride             |                 |                    |   |                  |                         |               |                               |                 |
|                      |                 |                    | WO#:K1PPW1AC-LCS/K1PPW1AD-LCSD LCS Lot-Sample#: D8J230000-549 |                  |                         |               |                               |                 |
|                      | 5.00            | 4.73               | mg/L  | 95               |                         | MCAWW 300.0A  | 10/21/08                      | 8297549         |
|                      | 5.00            | 4.70               | mg/L  | 94               | 0.61                    | MCAWW 300.0A  | 10/21/08                      | 8297549         |
|                      |                 |                    | Dilution Factor: 1  |                  | Analysis Time...: 21:02 |               |                               |                 |
| Nitrate              |                 |                    |   |                  |                         |               |                               |                 |
|                      |                 |                    | WO#:K1PPQ1AC-LCS/K1PPQ1AD-LCSD LCS Lot-Sample#: D8J230000-545 |                  |                         |               |                               |                 |
|                      | 5.00            | 4.85               | mg/L  | 97               |                         | MCAWW 300.0A  | 10/21/08                      | 8297545         |
|                      | 5.00            | 4.82               | mg/L  | 96               | 0.55                    | MCAWW 300.0A  | 10/21/08                      | 8297545         |
|                      |                 |                    | Dilution Factor: 1  |                  | Analysis Time...: 14:56 |               |                               |                 |
| Nitrite              |                 |                    |   |                  |                         |               |                               |                 |
|                      |                 |                    | WO#:K1PPT1AC-LCS/K1PPT1AD-LCSD LCS Lot-Sample#: D8J230000-547 |                  |                         |               |                               |                 |
|                      | 5.00            | 4.76               | mg/L  | 95               |                         | MCAWW 300.0A  | 10/21/08                      | 8297547         |
|                      | 5.00            | 4.75               | mg/L  | 95               | 0.23                    | MCAWW 300.0A  | 10/21/08                      | 8297547         |
|                      |                 |                    | Dilution Factor: 1  |                  | Analysis Time...: 15:46 |               |                               |                 |
| Specific Conductance |                 |                    |   |                  |                         |               |                               |                 |
|                      |                 |                    | WO#:K1QCT1AC-LCS/K1QCT1AD-LCSD LCS Lot-Sample#: D8J240000-705 |                  |                         |               |                               |                 |
|                      | 1410            | 1400               | umhos/cm  | 99               |                         | SM18 2510 B   | 10/24/08                      | 8298705         |
|                      | 1410            | 1400               | umhos/cm  | 99               | 0.07                    | SM18 2510 B   | 10/24/08                      | 8298705         |
|                      |                 |                    | Dilution Factor: 1  |                  | Analysis Time...: 17:00 |               |                               |                 |
| Sulfate              |                 |                    |   |                  |                         |               |                               |                 |
|                      |                 |                    | WO#:K1PPR1AC-LCS/K1PPR1AD-LCSD LCS Lot-Sample#: D8J230000-546 |                  |                         |               |                               |                 |
|                      | 25.0            | 24.2               | mg/L  | 97               |                         | MCAWW 300.0A  | 10/21/08                      | 8297546         |
|                      | 25.0            | 24.2               | mg/L  | 97               | 0.24                    | MCAWW 300.0A  | 10/21/08                      | 8297546         |
|                      |                 |                    | Dilution Factor: 1  |                  | Analysis Time...: 14:56 |               |                               |                 |

(Continued on next page)

# LABORATORY CONTROL SAMPLE DATA REPORT

## General Chemistry

Lot-Sample #...: D8J210322

Matrix.....: WATER

| PARAMETER       | SPIKE<br>AMOUNT | MEASURED<br>AMOUNT | UNITS | PERCNT<br>RECVRY | RPD  | METHOD      | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|-----------------|-----------------|--------------------|-------|------------------|------|-------------|-------------------------------|-----------------|
| Total Dissolved |                 |                    |       |                  |      |             |                               |                 |
| Solids          |                 |                    |       |                  |      |             |                               |                 |
|                 | 500             | 496                | mg/L  | 99               |      | SM18 2540 C | 10/27/08                      | 8302314         |
|                 | 500             | 492                | mg/L  | 98               | 0.81 | SM18 2540 C | 10/27/08                      | 8302314         |

WO#:K15DH1AC-LCS/K15DH1AD-LCSD LCS Lot-Sample#: D8J280000-314

Dilution Factor: 1 Analysis Time..: 15:10

### NOTE(S) :

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

# MATRIX SPIKE SAMPLE EVALUATION REPORT

## General Chemistry

Client Lot #...: D8J210322

Matrix.....: WATER

Date Sampled...: 10/20/08 14:15 Date Received...: 10/21/08

| PARAMETER | PERCENT RECOVERY | RECOVERY LIMITS | RPD  | RPD LIMITS | METHOD       | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|-----------|------------------|-----------------|--|------------|--------------|----------------------------|--------------|
| Bromide   |                  |                 | WO#: K09901AP-MS/K09901AQ-MSD MS Lot-Sample #: D8J210322-001 |            |              |                            |              |
|           | 101              | (80 - 120)      |  |            | MCAWW 300.0A | 10/21/08                   | 8297548      |
|           | 102              | (80 - 120)      | 1.6  | (0-20)     | MCAWW 300.0A | 10/21/08                   | 8297548      |
|           |                  |                 | Dilution Factor: 1   |            |              |                            |              |
|           |                  |                 | Analysis Time...: 21:02                                      |            |              |                            |              |
| Chloride  |                  |                 | WO#: K1WNN1AC-MS/K1WNN1AD-MSD MS Lot-Sample #: D8J090218-012 |            |              |                            |              |
|           | 117              | (80 - 120)      |  |            | MCAWW 300.0A | 10/21/08                   | 8297544      |
|           | 117              | (80 - 120)      | 0.0  | (0-20)     | MCAWW 300.0A | 10/21/08                   | 8297544      |
|           |                  |                 | Dilution Factor: 1   |            |              |                            |              |
|           |                  |                 | Analysis Time...: 19:56                                      |            |              |                            |              |
| Fluoride  |                  |                 | WO#: K09901AR-MS/K09901AT-MSD MS Lot-Sample #: D8J210322-001 |            |              |                            |              |
|           | 97               | (80 - 120)      |  |            | MCAWW 300.0A | 10/21/08                   | 8297549      |
|           | 97               | (80 - 120)      | 0.06   | (0-20)     | MCAWW 300.0A | 10/21/08                   | 8297549      |
|           |                  |                 | Dilution Factor: 1   |            |              |                            |              |
|           |                  |                 | Analysis Time...: 21:02                                      |            |              |                            |              |
| Nitrate   |                  |                 | WO#: K09CM1AR-MS/K09CM1AT-MSD MS Lot-Sample #: D8J210229-001 |            |              |                            |              |
|           | 100              | (80 - 120)      |  |            | MCAWW 300.0A | 10/21/08                   | 8297545      |
|           | 100              | (80 - 120)      | 0.38   | (0-20)     | MCAWW 300.0A | 10/21/08                   | 8297545      |
|           |                  |                 | Dilution Factor: 1   |            |              |                            |              |
|           |                  |                 | Analysis Time...: 14:56                                      |            |              |                            |              |
| Nitrite   |                  |                 | WO#: K09DJ1AJ-MS/K09DJ1AK-MSD MS Lot-Sample #: D8J210235-001 |            |              |                            |              |
|           | 97               | (80 - 120)      |  |            | MCAWW 300.0A | 10/21/08                   | 8297547      |
|           | 96               | (80 - 120)      | 1.2  | (0-20)     | MCAWW 300.0A | 10/21/08                   | 8297547      |
|           |                  |                 | Dilution Factor: 1   |            |              |                            |              |
|           |                  |                 | Analysis Time...: 15:46                                      |            |              |                            |              |
| Sulfate   |                  |                 | WO#: K09CM1AU-MS/K09CM1AV-MSD MS Lot-Sample #: D8J210229-001 |            |              |                            |              |
|           | 99               | (80 - 120)      |  |            | MCAWW 300.0A | 10/21/08                   | 8297546      |
|           | 98               | (80 - 120)      | 0.61   | (0-20)     | MCAWW 300.0A | 10/21/08                   | 8297546      |
|           |                  |                 | Dilution Factor: 1   |            |              |                            |              |
|           |                  |                 | Analysis Time...: 14:56                                      |            |              |                            |              |

### NOTE(S) :

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

# MATRIX SPIKE SAMPLE DATA REPORT

## General Chemistry

Client Lot #...: D8J210322

Matrix.....: WATER

Date Sampled...: 10/20/08 14:15 Date Received...: 10/21/08

| PARAMETER  | SAMPLE AMOUNT | SPIKE AMT | MEASRD AMOUNT | UNITS | PERCNT RECVRY | RPD  | METHOD       | PREPARATION- ANALYSIS DATE | PREP BATCH # |
|--|---------------|-----------|---------------|-------|---------------|------|--------------|----------------------------|--------------|
| Bromide  |               |           |               |       |               |      |              |                            |              |
| WO#: K09901AP-MS/K09901AQ-MSD MS Lot-Sample #: D8J210322-001 |               |           |               |       |               |      |              |                            |              |
|  | 0.42          | 5.00      | 5.45          | mg/L  | 101           |      | MCAWW 300.0A | 10/21/08                   | 8297548      |
|  | 0.42          | 5.00      | 5.54          | mg/L  | 102           | 1.6  | MCAWW 300.0A | 10/21/08                   | 8297548      |
| Dilution Factor: 1   |               |           |               |       |               |      |              |                            |              |
| Analysis Time...: 21:02                                      |               |           |               |       |               |      |              |                            |              |
| Chloride   |               |           |               |       |               |      |              |                            |              |
| WO#: K1WNN1AC-MS/K1WNN1AD-MSD MS Lot-Sample #: D8J090218-012 |               |           |               |       |               |      |              |                            |              |
|  | 120           | 125       | 263           | mg/L  | 117           |      | MCAWW 300.0A | 10/21/08                   | 8297544      |
|  | 120           | 125       | 263           | mg/L  | 117           | 0.0  | MCAWW 300.0A | 10/21/08                   | 8297544      |
| Dilution Factor: 1   |               |           |               |       |               |      |              |                            |              |
| Analysis Time...: 19:56                                      |               |           |               |       |               |      |              |                            |              |
| Fluoride   |               |           |               |       |               |      |              |                            |              |
| WO#: K09901AR-MS/K09901AT-MSD MS Lot-Sample #: D8J210322-001 |               |           |               |       |               |      |              |                            |              |
|  | 0.96          | 5.00      | 5.81          | mg/L  | 97            |      | MCAWW 300.0A | 10/21/08                   | 8297549      |
|  | 0.96          | 5.00      | 5.80          | mg/L  | 97            | 0.06 | MCAWW 300.0A | 10/21/08                   | 8297549      |
| Dilution Factor: 1   |               |           |               |       |               |      |              |                            |              |
| Analysis Time...: 21:02                                      |               |           |               |       |               |      |              |                            |              |
| Nitrate  |               |           |               |       |               |      |              |                            |              |
| WO#: K09CM1AR-MS/K09CM1AT-MSD MS Lot-Sample #: D8J210229-001 |               |           |               |       |               |      |              |                            |              |
|  | ND            | 25.0      | 25.8          | mg/L  | 100           |      | MCAWW 300.0A | 10/21/08                   | 8297545      |
|  | ND            | 25.0      | 25.9          | mg/L  | 100           | 0.38 | MCAWW 300.0A | 10/21/08                   | 8297545      |
| Dilution Factor: 1   |               |           |               |       |               |      |              |                            |              |
| Analysis Time...: 14:56                                      |               |           |               |       |               |      |              |                            |              |
| Nitrite  |               |           |               |       |               |      |              |                            |              |
| WO#: K09DJ1AJ-MS/K09DJ1AK-MSD MS Lot-Sample #: D8J210235-001 |               |           |               |       |               |      |              |                            |              |
|  | ND            | 5.00      | 4.87          | mg/L  | 97            |      | MCAWW 300.0A | 10/21/08                   | 8297547      |
|  | ND            | 5.00      | 4.81          | mg/L  | 96            | 1.2  | MCAWW 300.0A | 10/21/08                   | 8297547      |
| Dilution Factor: 1   |               |           |               |       |               |      |              |                            |              |
| Analysis Time...: 15:46                                      |               |           |               |       |               |      |              |                            |              |
| Sulfate  |               |           |               |       |               |      |              |                            |              |
| WO#: K09CM1AU-MS/K09CM1AV-MSD MS Lot-Sample #: D8J210229-001 |               |           |               |       |               |      |              |                            |              |
|  | ND            | 125       | 146           | mg/L  | 99            |      | MCAWW 300.0A | 10/21/08                   | 8297546      |
|  | ND            | 125       | 145           | mg/L  | 98            | 0.61 | MCAWW 300.0A | 10/21/08                   | 8297546      |
| Dilution Factor: 1   |               |           |               |       |               |      |              |                            |              |
| Analysis Time...: 14:56                                      |               |           |               |       |               |      |              |                            |              |

### NOTE(S) :

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

# SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #...: D8J210322

Work Order #...: K0858-SMP  
K0858-DUP

Matrix.....: WATER

Date Sampled...: 10/17/08 21:12 Date Received...: 10/21/08

| PARAM | RESULT | DUPLICATE<br>RESULT | UNITS    | RPD                | RPD<br>LIMIT            | METHOD        | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|-------|--------|---------------------|----------|--------------------|-------------------------|---------------|-------------------------------|-----------------|
| pH    | 7.4    | 7.4                 | No Units | 0.40               | (0-5.0)                 | SM18 4500-H B | 10/21/08                      | 8295549         |
|       |        |                     |          | Dilution Factor: 1 | Analysis Time...: 13:32 |               |                               |                 |

SD Lot-Sample #: D8J210211-001

# SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #...: D8J210322

Work Order #...: K087J-SMP  
K087J-DUP

Matrix.....: WATER

Date Sampled...: 10/20/08 09:48

Date Received...: 10/21/08

| PARAM | RESULT | DUPLICATE<br>RESULT | UNITS    | RPD                | RPD<br>LIMIT            | METHOD                         | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|-------|--------|---------------------|----------|--------------------|-------------------------|--------------------------------|-------------------------------|-----------------|
| pH    | 8.7    | 8.7                 | No Units | 0.0                | (0-5.0)                 | SM18 4500-H B                  | 10/21/08                      | 8295551         |
|       |        |                     |          | Dilution Factor: 1 | Analysis Time...: 14:34 |                                |                               |                 |
|       |        |                     |          |                    |                         | SD Lot-Sample #: D8J210214-013 |                               |                 |

# SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #...: D8J210322

Work Order #...: K0990-SMP  
K0990-DUP

Matrix.....: WATER

Date Sampled...: 10/21/08 11:16 Date Received...: 10/21/08

| PARAM | RESULT | DUPLICATE<br>RESULT | UNITS    | RPD                | RPD<br>LIMIT            | METHOD        | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|-------|--------|---------------------|----------|--------------------|-------------------------|---------------|-------------------------------|-----------------|
| pH    | 7.4    | 7.4                 | No Units | 0.0                | (0-5.0)                 | SM18 4500-H B | 10/21/08                      | 8295598         |
|       |        |                     |          | Dilution Factor: 1 | Analysis Time...: 18:00 |               |                               |                 |

SD Lot-Sample #: D8J210322-001

# SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #...: D8J210322

Work Order #...: K1FCW-SMP  
K1FCW-DUP

Matrix.....: WATER

Date Sampled...: 10/22/08 09:25

Date Received...: 10/23/08

| PARAM                | RESULT | DUPLICATE<br>RESULT | UNITS    | RPD                | RPD<br>LIMIT            | METHOD      | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|----------------------|--------|---------------------|----------|--------------------|-------------------------|-------------|-------------------------------|-----------------|
| Specific Conductance | 8000   | 8000                | umhos/cm | 0.50               | (0-5.0)                 | SM18 2510 B | 10/24/08                      | 8298704         |
|                      |        |                     |          | Dilution Factor: 1 | Analysis Time...: 17:00 |             |                               |                 |

SD Lot-Sample #: D8J230168-002

# SAMPLE DUPLICATE EVALUATION REPORT

## General Chemistry

Client Lot #...: D8J210322

Work Order #...: K1DAX-SMP  
K1DAX-DUP

Matrix.....: WATER

Date Sampled...: 10/21/08 08:30

Date Received...: 10/22/08

| PARAM                          | RESULT | DUPLICATE<br>RESULT | UNITS | RPD | RPD<br>LIMIT | METHOD                  | PREPARATION-<br>ANALYSIS DATE | PREP<br>BATCH # |
|--------------------------------|--------|---------------------|-------|-----|--------------|-------------------------|-------------------------------|-----------------|
| Total Dissolved Solids         | 800 J  | 810                 | mg/L  | 1.1 | (0-20)       | SM18 2540 C             | 10/27/08                      | 8302314         |
| Dilution Factor: 1             |        |                     |       |     |              | Analysis Time...: 15:10 |                               |                 |
| SD Lot-Sample #: D8J220264-001 |        |                     |       |     |              |                         |                               |                 |

### 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.

## General Chemistry

Work Order #...: K1DEQ-SMP  
K1DEQ-DUP

Date Sampled...: 10/21/08 13:00 Date Received...: 10/22/08

**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.

# Chain of Custody Record

Sampler ID \_\_\_\_\_

Temperature on Receipt 8.2°C

Drinking Water? Yes ☐ No ☐

# TestAmerica

TAL-4124-280 (0509)

Client

**Bob Cheson: COGCC**

Project Manager

**Pat**

Date

**10/21/08**

Chain of Custody Number

**108602**

Address

**1120 Lincoln St. #801**

Telephone Number (Area Code)/Fax Number

Lab Number

**10/21/08**

Page 1 of 1

City

**Denver**

State

**CO**

Zip Code

**80203**

Site Contact

Lab Contact

Project Name and Location (State)

**BACHOFER Well, FT. Lupton, CO**

Carrier/Waybill Number

Lab Contact

Contract/Purchase Order/Quote No.

**Quote: 62399**

Sample I.D. No. and Description

(Containers for each sample may be combined on one line)

**W-11546**

Date

**10/21/08**

Time

**1116**

Air

Aqueous

Sed.

Soil

Unpres.

H2SO4

HNO3

HCl

NaOH

ZnAc/NaOH

Containers & Preservatives

**7**

**1**

**7**

**1**

**7**

**1**

**7**

**1**

**7**

**1**

**7**

**1**

**7**

**1**

**7**

**1**

**7**

**1**

Special Instructions/  
Conditions of Receipt

Possible Hazard Identification

☐ Non-Hazard

☐ Flammable

☐ Skin Irritant

☐ Poison B

☐ Unknown

☐ Return To Client

☐ Disposal By Lab

☐ Archive For \_\_\_\_\_ Months

(A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

☐ 24 Hours

☐ 48 Hours

☐ 7 Days

☐ 14 Days

☐ 21 Days

☒ Other **STD**

QC Requirements (Specify)

1. Relinquished By

**Paul L. Frank**

Date

**10/21/08 1230**

Time

1. Received By

**[Signature]**

Date

**10/21/08 1230**

Time

2. Relinquished By

**Paul L. Frank**

Date

**10/21/08 1230**

Time

2. Received By

**[Signature]**

Date

**10/21/08 1230**

Time

3. Relinquished By

**[Signature]**

Date

**10/21/08 1230**

Time

3. Received By

**[Signature]**

Date

**10/21/08 1230**

Time

Comments

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