TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Lot #: D8J230235

Bob Chesson

Colorado Oil & Gas Conservation Commission
1120 Lincoln St.
Suite 801
Denver, CO 80203

Lori Parsons
Project Manager

November 6, 2008

Table Of Contents

Standard Deliverables

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

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.

Quality Control Summary for Lot D8J230235

Sample Receiving

One sample was received by TestAmerica Denver under chain of custody on October 23, 2008.

All sample containers were received intact.

GC/MS Volatiles, Method SW846 8260B

No anomalies were observed.

Dissolved Methane Analysis by GC, Method RSK SOP-175

Each sample is analyzed to achieve the lowest possible reporting limits within the constraints of the methods. Due to high constituent concentrations, the methane analyses of the sample had to be performed at a dilution. The reporting limits have been adjusted relative to the dilutions required.

MS/MSD analyses could not be performed for the batch due to insufficient sample volume. 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

No 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 the sample had to be performed at a dilution. The result in the analytical report has been flagged with a "Q", and the reporting limits have been adjusted relative to the dilutions required.

General Chemistry Continued
The Method 300.0 MS/MSD performed for Sulfate analysis associated with QC batch 8309265 was performed on an unrelated sample and exhibited percent recoveries below the control limits. The acceptable LCS/LCSD analyses data indicated the analytical system was within control; therefore corrective action was deemed unnecessary.

No other anomalies were observed.

EXECUTIVE SUMMARY - Detection Highlights

D8J230235

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
SANDERQUIST WELL 10/23/08 10:30 001				
Methane	1400	25	ug/L	RSK SOP-175
Chloride	5.9	3.0	mg/L	MCAWW 300.0A
Sulfate	92 Q	25	mg/L	MCAWW 300.0A
Fluoride	1.0	0.50	mg/L	MCAWW 300.0A
Bromide	0.26	0.20	mg/L	MCAWW 300.0A
Specific Conductance	830	2.0	umhos/cm	SM18 2510 B
Total Dissolved Solids	500	10	mg/L	SM18 2540 C
pH	7.6	0.10	No Units	SM18 4500-H B
SANDERQUIST WELL 10/23/08 10:30 002				
Potassium	3400	3000	ug/L	MCAWW 200.7
Calcium	41000	200	ug/L	MCAWW 200.7
Iron	1500	100	ug/L	MCAWW 200.7
Magnesium	19000	200	ug/L	MCAWW 200.7
Sodium	130000	5000	ug/L	MCAWW 200.7
Barium	31	10	ug/L	MCAWW 200.7
Manganese	190	10	ug/L	MCAWW 200.7

METHODS SUMMARY

D8J230235

PARAMETER	ANALYTICAL METHOD	PREPARATION 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

D8J230235

ANALYTICAL METHOD	ANALYST	ANALYST ID
MCAWW 200.7	Lynn-Anne Trudell	6645
MCAWW 300.0A	Ewa Kudla	001167
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

D8J230235

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
K1F67	001	SANDERQUIST WELL	10/23/08	10:30
K1F7G	002	SANDERQUIST WELL	10/23/08	10:30

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: SANDERQUIST WELL

GC/MS Volatiles

Lot-Sample #...: D8J230235-001 **Work Order #...:** K1F671AM **Matrix.....:** WATER
Date Sampled...: 10/23/08 10:30 **Date Received..:** 10/23/08
Prep Date.....: 10/29/08 **Analysis Date..:** 10/29/08
Prep Batch #...: 8304528 **Analysis Time..:** 23:11
Dilution Factor: 1
Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS
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

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(79 - 120)
1,2-Dichloroethane-d4	91	(65 - 126)
4-Bromofluorobenzene	82	(75 - 120)
Toluene-d8	92	(78 - 120)

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\G.i\102908P.B\G0489.D
Lab Smp Id: K1F671AM Client Smp ID: SANDERQUIST WELL
Inj Date : 29-OCT-2008 23:11
Operator : todear Inst ID: G.i
Smp Info : K1F671AM,,D8J230235-01 pH~7
Misc Info :
Comment :
Method : \\DenSvr03\Public\chem\MSV\G.i\102908P.B\8260B-H2O.m
Meth Date : 30-Oct-2008 17:37 todear Quant Type: ISTD
Cal Date : 28-OCT-2008 21:19 Cal File: G0444.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

10/31/08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 58 Fluorobenzene	96	7.860	7.861	(1.000)	1019808	12.5000	
* 84 Chlorobenzene-d5	119	10.592	10.592	(1.000)	193434	12.5000	
* 109 1,4-Dichlorobenzene-d4	152	12.663	12.664	(1.000)	238866	12.5000	
$ 48 Dibromofluoromethane	111	7.259	7.269	(0.923)	257080	11.0995	11.0995
$ 54 1,2-Dichloroethane-d4	65	7.574	7.584	(0.964)	160057	11.3657	11.3657
$ 72 Toluene-d8	98	9.241	9.241	(0.872)	902836	11.4500	11.4500
$ 95 Bromofluorobenzene	95	11.578	11.589	(1.093)	243482	10.2979	10.2979
M 1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M 2 Xylene (total)	106	Compound Not Detected.					
M 3 1,3-Dichloropropene (total)	75	Compound Not Detected.					
M 4 Trihalomethanes (total)	83	Compound Not Detected.					
5 dichlorodifluoromethane	85	Compound Not Detected.					
6 Dichlorotetrafluoroethane	85	Compound Not Detected.					
7 Chloromethane	50	Compound Not Detected.					
8 Vinyl Chloride	62	Compound Not Detected.					
9 Ethylene Oxide	43	Compound Not Detected.					
10 Bromomethane	94	Compound Not Detected.					
11 Chloroethane	64	Compound Not Detected.					
12 Dichlorofluoromethane	67	Compound Not Detected.					
14 Trichlorofluoromethane	101	Compound Not Detected.					
13 Ethanol	45	Compound Not Detected.					
15 1,2-dichloro-1,1,2-trifluoro	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
16 Ethyl Ether	59	Compound Not Detected.					
17 2,2-dichloro-1,1,1-trifluoro	83	Compound Not Detected.					
18 Acrolein	56	Compound Not Detected.					
19 Acetone	43	Compound Not Detected.					
20 Trichlorotrifluoroethane	151	Compound Not Detected.					
21 2-propanol	45	Compound Not Detected.					
22 1,1-Dichloroethene	96	Compound Not Detected.					
24 Iodomethane	142	Compound Not Detected.					
25 Acetonitrile	41	Compound Not Detected.					
23 Methyl Acetate	43	Compound Not Detected.					
27 Carbon Disulfide	76	Compound Not Detected.					
26 Allyl Chloride	41	Compound Not Detected.					
28 tert-Butyl alcohol	59	Compound Not Detected.					
29 Methylene Chloride	84	5.858	5.858	(0.745)	10701	0.48746	0.487464(a)
30 Acrylonitrile	53	Compound Not Detected.					
31 Methyl t-butyl ether	73	Compound Not Detected.					
32 trans-1,2-Dichloroethene	96	Compound Not Detected.					
33 Hexane	57	Compound Not Detected.					
34 Vinyl acetate	43	Compound Not Detected.					
35 Isopropyl ether	87	Compound Not Detected.					
36 1,1-Dichloroethane	63	Compound Not Detected.					
37 Chloroprene	53	Compound Not Detected.					
38 ETBE	59	Compound Not Detected.					
40 2-Butanone	43	Compound Not Detected.					
39 Ethyl Acetate	43	Compound Not Detected.					
42 cis-1,2-Dichloroethene	96	Compound Not Detected.					
41 Propionitrile	54	Compound Not Detected.					
43 2,2-Dichloropropane	77	Compound Not Detected.					
44 Methacrylonitrile	41	Compound Not Detected.					
45 Bromochloromethane	128	Compound Not Detected.					
46 Chloroform	83	Compound Not Detected.					
47 Tetrahydrofuran	42	7.150	7.160	(0.910)	15321	8.65006	8.65006
50 1,1,1-Trichloroethane	97	Compound Not Detected.					
49 Isobutanol	41	Compound Not Detected.					
51 Cyclohexane	56	Compound Not Detected.					
52 1,1-Dichloropropene	75	Compound Not Detected.					
53 Carbon Tetrachloride	117	Compound Not Detected.					
55 1,2-Dichloroethane	62	Compound Not Detected.					
57 Benzene	78	Compound Not Detected.					
56 TAME	73	Compound Not Detected.					
59 n-Butanol	56	Compound Not Detected.					
60 Trichloroethene	130	Compound Not Detected.					
61 2-Pentanone	43	Compound Not Detected.					
62 Methyl Methacrylate	100	Compound Not Detected.					
63 1,2-Dichloropropane	63	Compound Not Detected.					
64 Methyl Cyclohexane	55	Compound Not Detected.					
65 1,4-Dioxane	88	Compound Not Detected.					
66 Dibromomethane	93	Compound Not Detected.					
67 Bromodichloromethane	83	Compound Not Detected.					
68 2-nitropropane	41	Compound Not Detected.					
69 2-Chloroethyl vinyl ether	63	Compound Not Detected.					
70 cis-1,3-Dichloropropene	75	Compound Not Detected.					
71 4-Methyl-2-pentanone	43	Compound Not Detected.					
73 Toluene	91	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
75 trans-1,3-Dichloropropene	75	Compound Not Detected.					
74 Ethyl methacrylate	69	Compound Not Detected.					
76 1,1,2-Trichloroethane	97	Compound Not Detected.					
77 2-Hexanone	43	Compound Not Detected.					
78 1,3-Dichloropropane	76	Compound Not Detected.					
79 Tetrachloroethene	164	Compound Not Detected.					
80 Dibromochloromethane	129	Compound Not Detected.					
81 Tetrahydrothiophene	60	Compound Not Detected.					
82 1,2-Dibromoethane	107	Compound Not Detected.					
83 1-Chlorohexane	91	Compound Not Detected.					
85 Chlorobenzene	112	Compound Not Detected.					
86 1,1,1,2-Tetrachloroethane	131	Compound Not Detected.					
87 Ethylbenzene	106	Compound Not Detected.					
88 m and p-Xylene	106	Compound Not Detected.					
89 o-Xylene	106	Compound Not Detected.					
90 Styrene	104	Compound Not Detected.					
91 Bromoform	173	Compound Not Detected.					
92 isopropyl benzene	105	Compound Not Detected.					
93 cis-1,4-dichloro-2-butene	53	Compound Not Detected.					
94 Cyclohexanone	55	Compound Not Detected.					
96 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
97 t-1,4-Dichloro-2-butene	53	Compound Not Detected.					
98 1,2,3-Trichloropropane	110	Compound Not Detected.					
99 Bromobenzene	156	Compound Not Detected.					
100 n-Propylbenzene	120	Compound Not Detected.					
101 2-Chlorotoluene	126	Compound Not Detected.					
102 1,3,5-Trimethylbenzene	105	Compound Not Detected.					
103 4-Chlorotoluene	126	Compound Not Detected.					
104 tert-Butylbenzene	119	Compound Not Detected.					
105 1,2,4-Trimethylbenzene	105	Compound Not Detected.					
106 sec-Butylbenzene	134	Compound Not Detected.					
107 4-Isopropyltoluene	119	Compound Not Detected.					
108 m-Dichlorobenzene	146	Compound Not Detected.					
110 p-dichlorobenzene	146	Compound Not Detected.					
111 1,2,3-Trimethylbenzene	105	Compound Not Detected.					
112 n-Butylbenzene	91	Compound Not Detected.					
113 o-Dichlorobenzene	146	Compound Not Detected.					
114 1,2-Dibromo-3-chloropropane	157	Compound Not Detected.					
115 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
116 Hexachlorobutadiene	225	Compound Not Detected.					
117 Naphthalene	128	Compound Not Detected.					
118 1,2,3-Trichlorobenzene	180	Compound Not Detected.					

QC Flag Legend

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

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INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: G.i
Lab File ID: G0489.D
Lab Smp Id: K1F671AM
Analysis Type: VOA
Quant Type: ISTD
Operator: todear
Calibration Date: 29-OCT-2008
Calibration Time: 17:15
Client Smp ID: SANDERQUIST WEL
Level: LOW
Sample Type: WATER
Method File: \\DenSvr03\Public\chem\MSV\G.i\102908P.B\8260B-H2O.m
Misc Info:

Test Mode:
Use Last Continuing Calibrator.
If Continuing Cal. use Initial Cal. Level 5

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
58 Fluorobenzene	1055866	527933	2111732	1019808	-3.42
84 Chlorobenzene-d5	210694	105347	421388	193434	-8.19
109 1,4-Dichlorobenze	275726	137863	551452	238866	-13.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
58 Fluorobenzene	7.86	7.36	8.36	7.86	-0.00
84 Chlorobenzene-d5	10.59	10.09	11.09	10.59	-0.00
109 1,4-Dichlorobenze	12.66	12.16	13.16	12.66	-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 Con23-OCT-2008 00:00 Client SDG: D8J2302
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: K1F671AM Client Smp ID: SANDERQUIST WELL
Level: LOW Operator: todear
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: dcs.spk Quant Type: ISTD
Sublist File: qk-01.sub
Method File: \\DenSvr03\Public\chem\MSV\G.i\102908P.B\8260B-H2O.m
Misc Info:

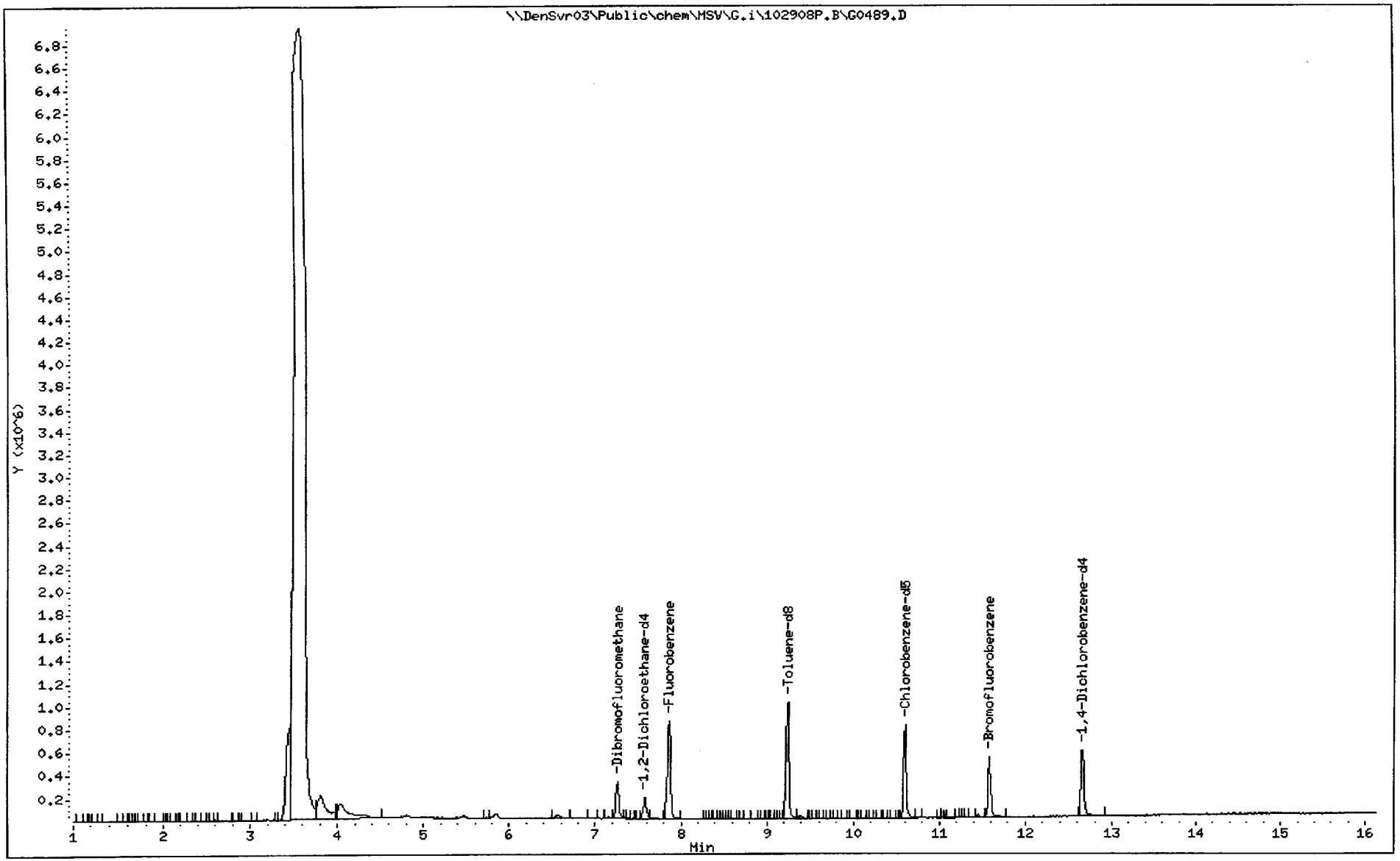
SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 48 Dibromofluorometha	12.5000	11.0995	88.80	79-119
$ 54 1,2-Dichloroethane	12.5000	11.3657	90.93	65-126
$ 72 Toluene-d8	12.5000	11.4500	91.60	78-118
$ 95 Bromofluorobenzene	12.5000	10.2979	82.38	75-115

Data File: \\DenSvr03\Public\chem\MSV\G.i\102908P.B\G0489.D
Date : 29-OCT-2008 23:11
Client ID: SANDERQUIST WELL
Sample Info: K1F671AM,,D8J230235-01 pH<7

Column phase: DB624

Instrument: G.i

Operator: todear
Column diameter: 0.53



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Date : 29-OCT-2008 23:11

Client ID: SANDERQUIST WELL

Instrument: G.i

Sample Info: K1F671AM,,D8J230235-01 pH<7

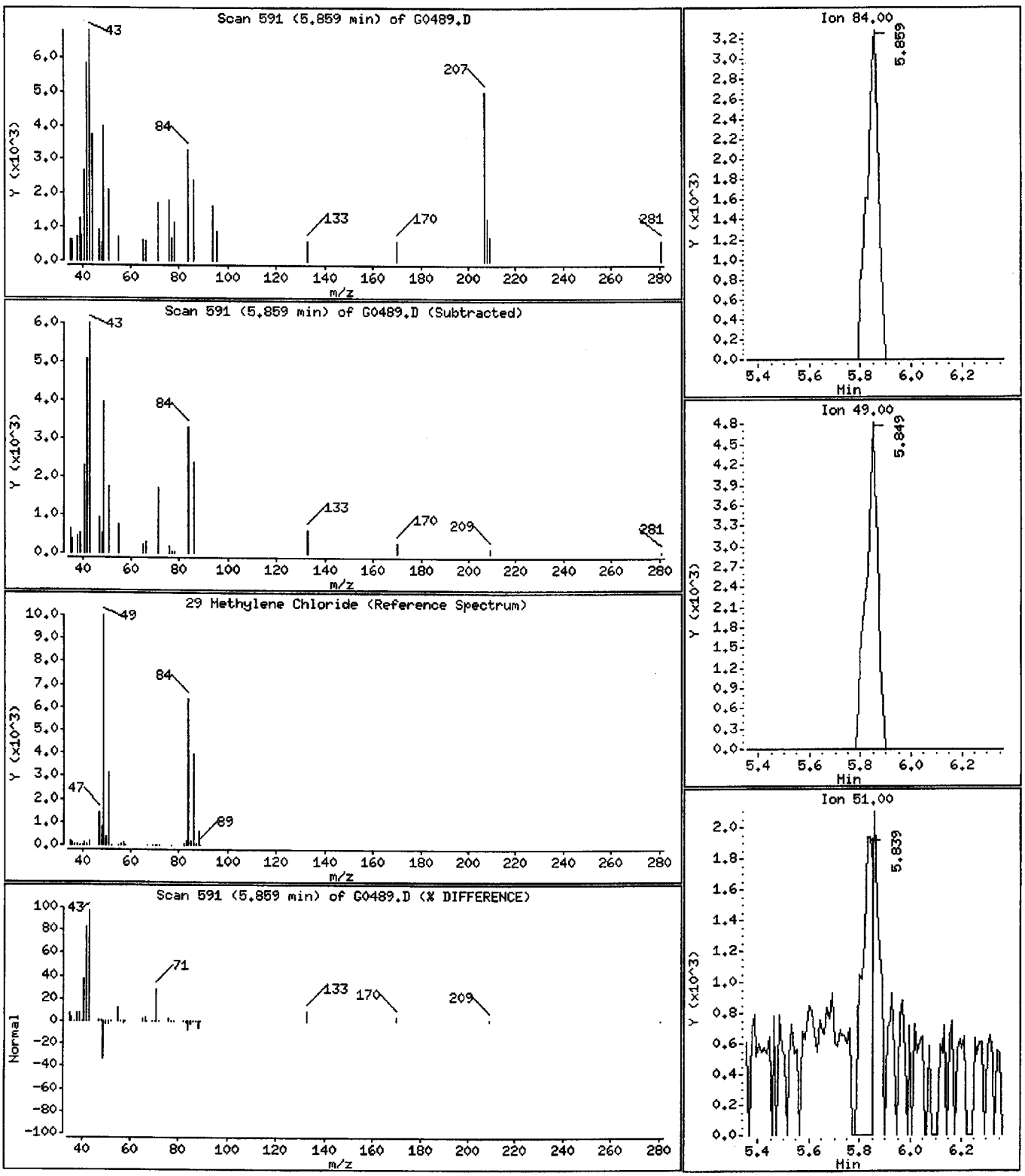
Operator: todear

Column phase: DB624

Column diameter: 0.53

29 Methylene Chloride

Concentration: 0.487464 ug/L



Data File: \\DenSvr03\Public\chem\MSV\G.i\102908P.B\G0489.D

Date : 29-OCT-2008 23:11

Client ID: SANDERQUIST WELL

Instrument: G.i

Sample Info: K1F671AM,,D8J230235-01 pH~7

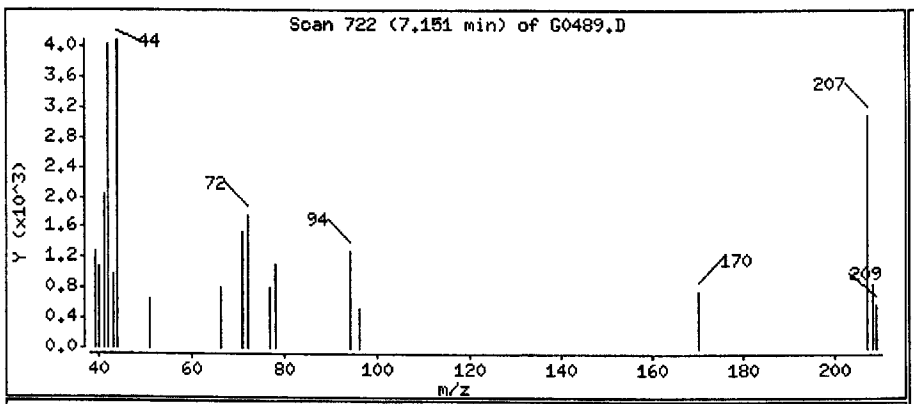
Operator: todear

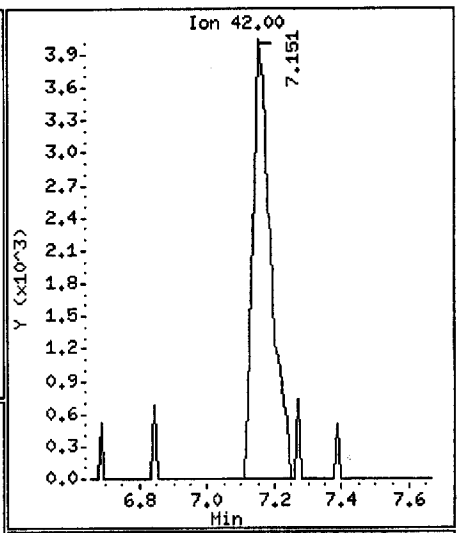
Column phase: DB624

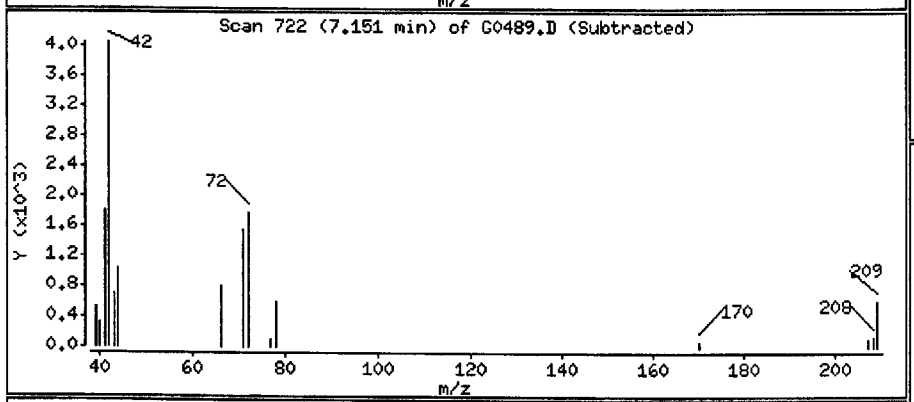
Column diameter: 0.53

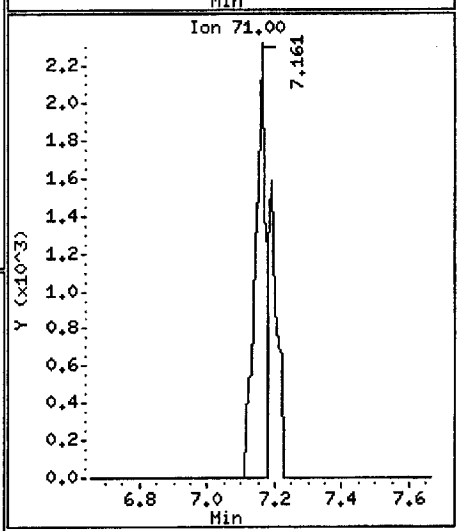
47 Tetrahydrofuran

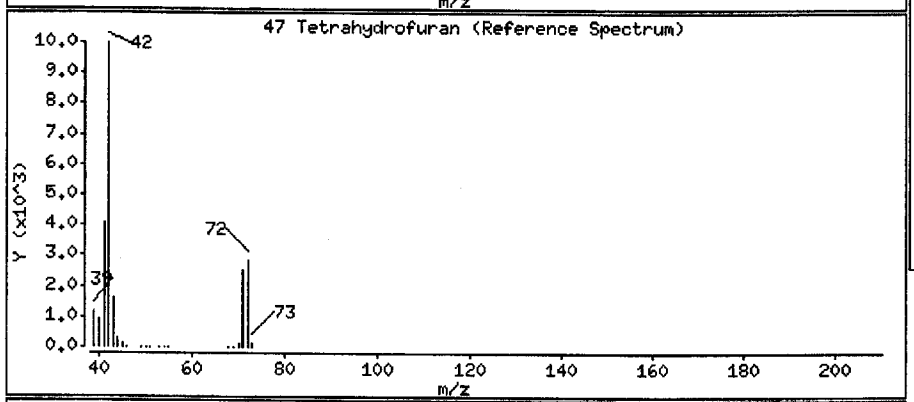
Concentration: 8.65006 ug/L

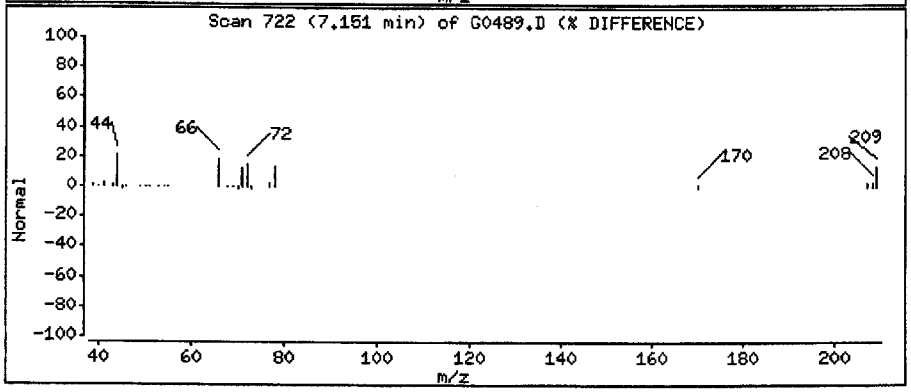












Colorado Oil&Gas Conservation Commision

Client Sample ID: SANDERQUIST WELL

GC Volatiles

Lot-Sample #...:	D8J230235-001	**Work Order #...:**	K1F671AA	**Matrix.....:**	WATER
Date Sampled...:	10/23/08 10:30	**Date Received..:**	10/23/08		
Prep Date.....:	10/29/08	**Analysis Date..:**	10/29/08		
Prep Batch #...:	8303380	**Analysis Time..:**	11:57		
Dilution Factor:	5				
		Method.....:	RSK SOP-175		

PARAMETER	RESULT	REPORTING LIMIT	UNITS
Methane	**1400**	**25**	**ug/L**

TestAmerica

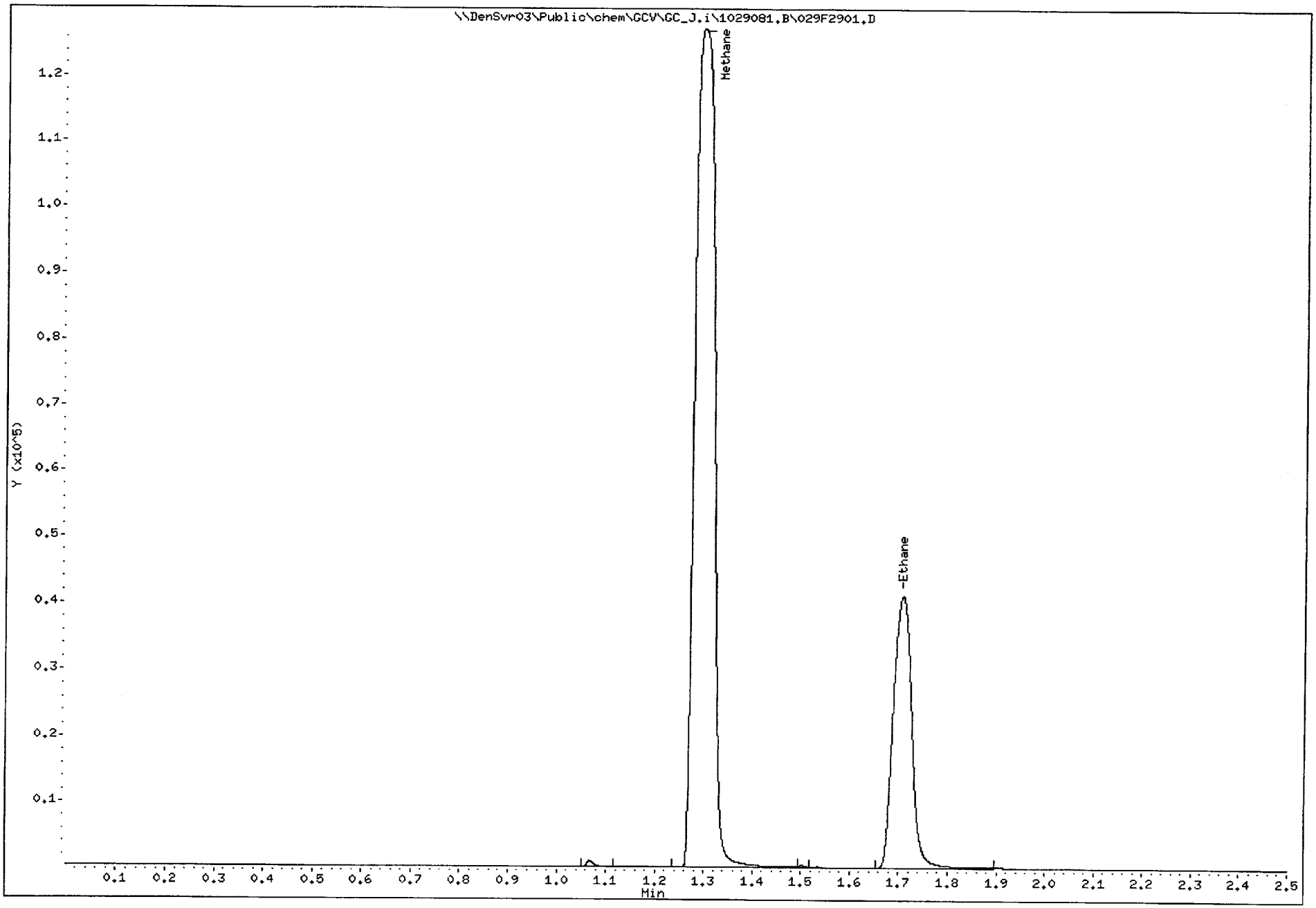
RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC_J.i\1029081.B\029F2901.D
Lab Smp Id: K1F671AA Client Smp ID: SANDERQUIST WELL
Inj Date : 29-OCT-2008 11:57
Operator : AP/BR Inst ID: GC_J.i
Smp Info : K1F671AA,235-1
Misc Info : ICAL 11-MAY-2007
Comment : SOP: DV-GC-0025
Method : \\DenSvr03\Public\chem\GCV\GC_J.i\1029081.B\RSK-1_7PT.m
Meth Date : 29-Oct-2008 13:36 reamb Quant Type: ESTD
Cal Date : 12-AUG-2008 14:11 Cal File: 009f0901.d
Als bottle: 29
Dil Factor: 5.00000
Integrator: Falcon Compound Sublist: RSK175.01.sub
Target Version: 4.14
Processing Host: DENPC252

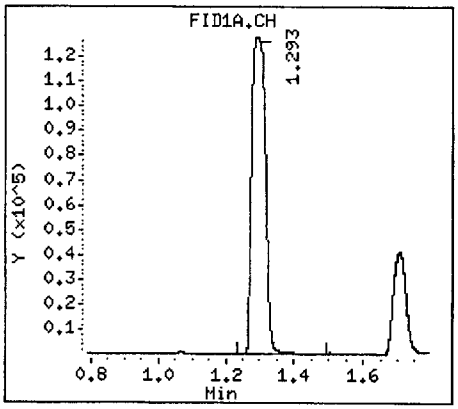
Concentration Formula: Amt * DF * 1 * CpndVariable
Cpnd Variable Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
1 Methane	1.292	1.289	0.003	352791	283.835	1419
2 Ethene	Compound Not Detected.					
3 Ethane	1.706	1.703	0.003	106780	91.3628	456.8
4 Acetylene	Compound Not Detected.					

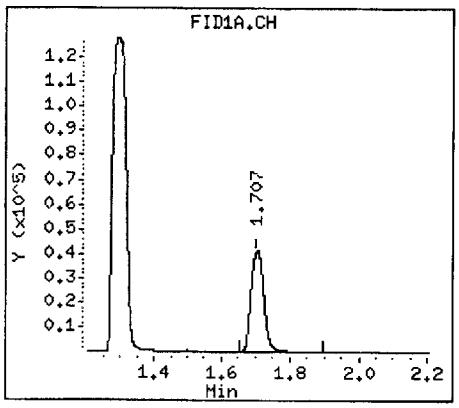
Data File: \\DenSvr03\Public\chem\GCV\GC_J.i\1029081.B\029F2901.D



1 Methane



3 Ethane



Colorado Oil&Gas Conservation Commision

Client Sample ID: SANDERQUIST WELL

TOTAL Metals

Lot-Sample #...: D8J230235-002 **Matrix.....:** WATER
Date Sampled...: 10/23/08 10:30 **Date Received..:** 10/23/08

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Prep Batch #...: 8299069						
Potassium	**3400**	**3000**	**ug/L**	**MCAWW 200.7**	**10/28-10/30/08**	**K1F7G1AD**
		Dilution Factor: 1		Analysis Time..: 16:31		
Selenium	ND	15	ug/L	MCAWW 200.7	10/28-10/30/08	K1F7G1AF
		Dilution Factor: 1		Analysis Time..: 16:31		
Calcium	**41000**	**200**	**ug/L**	**MCAWW 200.7**	**10/28-10/30/08**	**K1F7G1AA**
		Dilution Factor: 1		Analysis Time..: 16:31		
Iron	**1500**	**100**	**ug/L**	**MCAWW 200.7**	**10/28-10/30/08**	**K1F7G1AN**
		Dilution Factor: 1		Analysis Time..: 16:31		
Magnesium	**19000**	**200**	**ug/L**	**MCAWW 200.7**	**10/28-10/30/08**	**K1F7G1AC**
		Dilution Factor: 1		Analysis Time..: 16:31		
Sodium	**130000**	**5000**	**ug/L**	**MCAWW 200.7**	**10/28-10/30/08**	**K1F7G1AE**
		Dilution Factor: 1		Analysis Time..: 16:31		
Arsenic	ND	15	ug/L	MCAWW 200.7	10/28-10/30/08	K1F7G1AG
		Dilution Factor: 1		Analysis Time..: 16:31		
Barium	**31**	**10**	**ug/L**	**MCAWW 200.7**	**10/28-10/30/08**	**K1F7G1AH**
		Dilution Factor: 1		Analysis Time..: 16:31		
Cadmium	ND	5.0	ug/L	MCAWW 200.7	10/28-10/30/08	K1F7G1AJ
		Dilution Factor: 1		Analysis Time..: 16:31		
Chromium	ND	10	ug/L	MCAWW 200.7	10/28-10/30/08	K1F7G1AK
		Dilution Factor: 1		Analysis Time..: 16:31		
Manganese	**190**	**10**	**ug/L**	**MCAWW 200.7**	**10/28-10/30/08**	**K1F7G1AL**
		Dilution Factor: 1		Analysis Time..: 16:31		
Lead	ND	9.0	ug/L	MCAWW 200.7	10/28-10/30/08	K1F7G1AM
		Dilution Factor: 1		Analysis Time..: 16:31		

Colorado Oil&Gas Conservation Commision

Client Sample ID: SANDERQUIST WELL

General Chemistry

Lot-Sample #...: D8J230235-001 **Work Order #...:** K1F67 **Matrix.....:** WATER
Date Sampled...: 10/23/08 10:30 **Date Received..:** 10/23/08

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH	7.6	0.10	No Units	SM18 4500-H B	10/24/08	8298690
		Dilution Factor: 1		Analysis Time..: 17:05		
Bromide	0.26	0.20	mg/L	MCAWW 300.0A	10/23/08	8310506
		Dilution Factor: 1		Analysis Time..: 23:30		
Chloride	5.9	3.0	mg/L	MCAWW 300.0A	10/23/08	8298558
		Dilution Factor: 1		Analysis Time..: 23:30		
Fluoride	1.0	0.50	mg/L	MCAWW 300.0A	10/23/08	8310503
		Dilution Factor: 1		Analysis Time..: 23:30		
Nitrate	ND	0.50	mg/L	MCAWW 300.0A	10/23/08	8298559
		Dilution Factor: 1		Analysis Time..: 23:30		
Nitrite	ND	0.50	mg/L	MCAWW 300.0A	10/23/08	8299171
		Dilution Factor: 1		Analysis Time..: 23:30		
Specific Conductance	830	2.0	umhos/cm	SM18 2510 B	10/24/08	8298705
		Dilution Factor: 1		Analysis Time..: 17:00		
Sulfate	92 Q	25	mg/L	MCAWW 300.0A	11/03/08	8309265
		Dilution Factor: 5		Analysis Time..: 12:52		
Total Dissolved Solids	500	10	mg/L	SM18 2540 C	10/28/08	8303268
		Dilution Factor: 1		Analysis Time..: 16:50		

NOTE(S):

RL Reporting Limit

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

QC DATA ASSOCIATION SUMMARY

D8J230235

Sample Preparation and Analysis Control Numbers

SAMPLE#	MATRIX	ANALYTICAL METHOD	LEACH BATCH #	PREP BATCH #	MS RUN#
001	WATER	MCAWW 300.0A		8298558	8304292
	WATER	MCAWW 300.0A		8309265	8309184
	WATER	MCAWW 300.0A		8310503	8310315
	WATER	MCAWW 300.0A		8298559	8304293
	WATER	MCAWW 300.0A		8310506	8310317
	WATER	MCAWW 300.0A		8299171	8304308
	WATER	SM18 2510 B		8298705	8302148
	WATER	SM18 2540 C		8303268	8308324
	WATER	SM18 4500-H B		8298690	8301225
	WATER	SW846 8260B		8304528	8304312
	WATER	RSK SOP-175		8303380	
002	WATER	MCAWW 200.7		8299069	8299043

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: D8J230235 **Work Order #...:** K104F1AA **Matrix.....:** WATER
MB Lot-Sample #: D8J300000-528

Prep Date.....: 10/29/08 **Analysis Time..:** 18:54
Analysis Date..: 10/29/08 **Prep Batch #...:** 8304528
Dilution Factor: 1

PARAMETER	RESULT	REPORTING 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 RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(79 - 120)
1,2-Dichloroethane-d4	90	(65 - 126)
4-Bromofluorobenzene	92	(75 - 120)
Toluene-d8	92	(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 #...: D8J230235 **Work Order #...:** K104F1AC **Matrix.....:** WATER
LCS Lot-Sample#: D8J300000-528
Prep Date.....: 10/29/08 **Analysis Date..:** 10/29/08
Prep Batch #...: 8304528 **Analysis Time..:** 17:56
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,1-Dichloroethene	**92**	**(68 - 133)**	**SW846 8260B**
Chlorobenzene	**95**	**(78 - 118)**	**SW846 8260B**
Benzene	**95**	**(77 - 118)**	**SW846 8260B**
Trichloroethene	**107**	**(78 - 122)**	**SW846 8260B**
Ethylbenzene	**98**	**(78 - 118)**	**SW846 8260B**
Chloroform	**96**	**(78 - 118)**	**SW846 8260B**
1,3-Dichlorobenzene	**94**	**(75 - 115)**	**SW846 8260B**
1,1-Dichloroethane	**94**	**(77 - 117)**	**SW846 8260B**
1,2-Dichloropropane	**95**	**(76 - 116)**	**SW846 8260B**
Toluene	**96**	**(73 - 120)**	**SW846 8260B**
Methylene chloride	**92**	**(71 - 119)**	**SW846 8260B**
Tetrachloroethene	**99**	**(77 - 117)**	**SW846 8260B**
1,1,1-Trichloroethane	**94**	**(78 - 118)**	**SW846 8260B**
Carbon tetrachloride	**93**	**(80 - 120)**	**SW846 8260B**
trans-1,2-Dichloroethene	**96**	**(80 - 120)**	**SW846 8260B**
Bromodichloromethane	**98**	**(78 - 118)**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(79 - 120)
1,2-Dichloroethane-d4	90	(65 - 126)
4-Bromofluorobenzene	94	(75 - 120)
Toluene-d8	92	(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 #...: D8J230235 **Work Order #...:** K104F1AC **Matrix.....:** WATER
LCS Lot-Sample#: D8J300000-528
Prep Date.....: 10/29/08 **Analysis Date..:** 10/29/08
Prep Batch #...: 8304528 **Analysis Time..:** 17:56
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,1-Dichloroethene	**10.0**	**9.25**	**ug/L**	**92**	**SW846 8260B**
Chlorobenzene	**10.0**	**9.47**	**ug/L**	**95**	**SW846 8260B**
Benzene	**10.0**	**9.47**	**ug/L**	**95**	**SW846 8260B**
Trichloroethene	**10.0**	**10.7**	**ug/L**	**107**	**SW846 8260B**
Ethylbenzene	**10.0**	**9.76**	**ug/L**	**98**	**SW846 8260B**
Chloroform	**10.0**	**9.56**	**ug/L**	**96**	**SW846 8260B**
1,3-Dichlorobenzene	**10.0**	**9.39**	**ug/L**	**94**	**SW846 8260B**
1,1-Dichloroethane	**10.0**	**9.43**	**ug/L**	**94**	**SW846 8260B**
1,2-Dichloropropane	**10.0**	**9.51**	**ug/L**	**95**	**SW846 8260B**
Toluene	**10.0**	**9.56**	**ug/L**	**96**	**SW846 8260B**
Methylene chloride	**10.0**	**9.18**	**ug/L**	**92**	**SW846 8260B**
Tetrachloroethene	**10.0**	**9.86**	**ug/L**	**99**	**SW846 8260B**
1,1,1-Trichloroethane	**10.0**	**9.41**	**ug/L**	**94**	**SW846 8260B**
Carbon tetrachloride	**10.0**	**9.33**	**ug/L**	**93**	**SW846 8260B**
trans-1,2-Dichloroethene	**10.0**	**9.56**	**ug/L**	**96**	**SW846 8260B**
Bromodichloromethane	**10.0**	**9.77**	**ug/L**	**98**	**SW846 8260B**

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(79 - 120)
1,2-Dichloroethane-d4	90	(65 - 126)
4-Bromofluorobenzene	94	(75 - 120)
Toluene-d8	92	(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 #...: D8J230235 **Work Order #...:** K047L1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: D8J170309-004 K047L1AD-MSD
Date Sampled...: 10/16/08 10:05 **Date Received..:** 10/17/08
Prep Date.....: 10/29/08 **Analysis Date..:** 10/29/08
Prep Batch #...: 8304528 **Analysis Time..:** 21:52
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,1-Dichloroethene	85	(68 - 133)			SW846 8260B
	74	(68 - 133)	14	(0-20)	SW846 8260B
Chlorobenzene	98	(78 - 118)			SW846 8260B
	88	(78 - 118)	8.8	(0-20)	SW846 8260B
Benzene	101	(77 - 118)			SW846 8260B
	98	(77 - 118)	2.9	(0-20)	SW846 8260B
Trichloroethene	107	(78 - 122)			SW846 8260B
	97	(78 - 122)	9.3	(0-20)	SW846 8260B
Ethylbenzene	97	(78 - 118)			SW846 8260B
	88	(78 - 118)	10	(0-26)	SW846 8260B
Chloroform	104	(78 - 118)			SW846 8260B
	99	(78 - 118)	4.9	(0-20)	SW846 8260B
1,3-Dichlorobenzene	100	(75 - 115)			SW846 8260B
	90	(75 - 115)	10	(0-20)	SW846 8260B
1,1-Dichloroethane	110	(77 - 117)			SW846 8260B
	90	(77 - 117)	20	(0-21)	SW846 8260B
1,2-Dichloropropane	103	(76 - 116)			SW846 8260B
	97	(76 - 116)	5.1	(0-20)	SW846 8260B
Toluene	93	(73 - 120)			SW846 8260B
	82	(73 - 120)	12	(0-20)	SW846 8260B
Methylene chloride	96	(71 - 119)			SW846 8260B
	78	(71 - 119)	19	(0-20)	SW846 8260B
Tetrachloroethene	96	(77 - 117)			SW846 8260B
	83	(77 - 117)	14	(0-20)	SW846 8260B
1,1,1-Trichloroethane	114	(78 - 118)			SW846 8260B
	108	(78 - 118)	5.6	(0-20)	SW846 8260B
Carbon tetrachloride	102	(80 - 120)			SW846 8260B
	93	(80 - 120)	9.2	(0-21)	SW846 8260B
trans-1,2-Dichloroethene	102	(80 - 120)			SW846 8260B
	89	(80 - 120)	14	(0-24)	SW846 8260B
Bromodichloromethane	103	(78 - 118)			SW846 8260B
	94	(78 - 118)	8.8	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(79 - 120)
	94	(79 - 120)
1,2-Dichloroethane-d4	102	(65 - 126)
	98	(65 - 126)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: D8J230235 **Work Order #...:** K047L1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: D8J170309-004 K047L1AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	95	(75 - 120)
	92	(75 - 120)
Toluene-d8	91	(78 - 120)
	83	(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 DATA REPORT

GC/MS Volatiles

Client Lot #...: D8J230235 **Work Order #...:** K047L1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: D8J170309-004 K047L1AD-MSD
Date Sampled...: 10/16/08 10:05 **Date Received..:** 10/17/08
Prep Date.....: 10/29/08 **Analysis Date..:** 10/29/08
Prep Batch #...: 8304528 **Analysis Time..:** 21:52
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,1-Dichloroethene	ND	10.0	8.54	ug/L	85		SW846 8260B
	ND	10.0	7.39	ug/L	74	14	SW846 8260B
Chlorobenzene	1.7	10.0	11.5	ug/L	98		SW846 8260B
	1.7	10.0	10.5	ug/L	88	8.8	SW846 8260B
Benzene	ND	10.0	10.6	ug/L	101		SW846 8260B
	ND	10.0	10.3	ug/L	98	2.9	SW846 8260B
Trichloroethene	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	9.74	ug/L	97	9.3	SW846 8260B
Ethylbenzene	ND	10.0	9.70	ug/L	97		SW846 8260B
	ND	10.0	8.77	ug/L	88	10	SW846 8260B
Chloroform	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	9.89	ug/L	99	4.9	SW846 8260B
1,3-Dichlorobenzene	ND	10.0	9.98	ug/L	100		SW846 8260B
	ND	10.0	9.00	ug/L	90	10	SW846 8260B
1,1-Dichloroethane	ND	10.0	11.0	ug/L	110		SW846 8260B
	ND	10.0	8.97	ug/L	90	20	SW846 8260B
1,2-Dichloropropane	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	9.74	ug/L	97	5.1	SW846 8260B
Toluene	ND	10.0	9.44	ug/L	93		SW846 8260B
	ND	10.0	8.41	ug/L	82	12	SW846 8260B
Methylene chloride	ND	10.0	10.3	ug/L	96		SW846 8260B
	ND	10.0	8.56	ug/L	78	19	SW846 8260B
Tetrachloroethene	ND	10.0	9.56	ug/L	96		SW846 8260B
	ND	10.0	8.35	ug/L	83	14	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	11.4	ug/L	114		SW846 8260B
	ND	10.0	10.8	ug/L	108	5.6	SW846 8260B
Carbon tetrachloride	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	9.25	ug/L	93	9.2	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	8.86	ug/L	89	14	SW846 8260B
Bromodichloromethane	ND	10.0	10.3	ug/L	103		SW846 8260B
	ND	10.0	9.41	ug/L	94	8.8	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(79 - 120)
	94	(79 - 120)
1,2-Dichloroethane-d4	102	(65 - 126)
	98	(65 - 126)

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: D8J230235 **Work Order #...:** K047L1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: D8J170309-004 K047L1AD-MSD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
4-Bromofluorobenzene	95	(75 - 120)
	92	(75 - 120)
Toluene-d8	91	(78 - 120)
	83	(78 - 120)

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

GC Volatiles

Client Lot #...: D8J230235 **Work Order #...:** K1VPN1AA **Matrix.....:** WATER
MB Lot-Sample #: D8J290000-380

Prep Date.....: 10/29/08 **Analysis Time..:** 09:08
Analysis Date..: 10/29/08 **Prep Batch #...:** 8303380
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
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 #...: D8J230235 **Work Order #...:** K1VPN1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8J290000-380 K1VPN1AD-LCSD
Prep Date.....: 10/29/08 **Analysis Date..:** 10/29/08
Prep Batch #...: 8303380 **Analysis Time..:** 08:59
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Ethane	**96**	**(75 - 125)**			**RSK SOP-175**
	100	**(75 - 125)**	**4.1**	**(0-20)**	**RSK SOP-175**
Ethene	**97**	**(75 - 125)**			**RSK SOP-175**
	100	**(75 - 125)**	**3.3**	**(0-20)**	**RSK SOP-175**
Acetylene	**100**	**(75 - 125)**			**RSK SOP-175**
	100	**(75 - 125)**	**0.25**	**(0-20)**	**RSK SOP-175**
Methane	**95**	**(75 - 125)**			**RSK SOP-175**
	99	**(75 - 125)**	**4.2**	**(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 #...: D8J230235 **Work Order #...:** K1VPN1AC-LCS **Matrix.....:** WATER
LCS Lot-Sample#: D8J290000-380 K1VPN1AD-LCSD
Prep Date.....: 10/29/08 **Analysis Date..:** 10/29/08
Prep Batch #...: 8303380 **Analysis Time..:** 08:59
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Ethane	**137**	**132**	**ug/L**	**96**		**RSK SOP-175**
	137	**137**	**ug/L**	**100**	**4.1**	**RSK SOP-175**
Ethene	**127**	**123**	**ug/L**	**97**		**RSK SOP-175**
	127	**127**	**ug/L**	**100**	**3.3**	**RSK SOP-175**
Acetylene	**118**	**118**	**ug/L**	**100**		**RSK SOP-175**
	118	**118**	**ug/L**	**100**	**0.25**	**RSK SOP-175**
Methane	**73.0**	**69.1**	**ug/L**	**95**		**RSK SOP-175**
	73.0	**72.1**	**ug/L**	**99**	**4.2**	**RSK SOP-175**

NOTE(S):

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

Bold print denotes control parameters

METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8J230235 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: D8J250000-069 **Prep Batch #...:** 8299069						
Potassium	ND	3000	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AD
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Selenium	ND	15	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AF
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Calcium	ND	200	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AA
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Iron	ND	100	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AN
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Magnesium	ND	200	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AC
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Arsenic	ND	15	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AG
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Barium	ND	10	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AH
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Cadmium	ND	5.0	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AJ
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Chromium	ND	10	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AK
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Lead	ND	9.0	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AM
		Dilution Factor: 1				
		Analysis Time..: 16:04				
Manganese	ND	10	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AL
		Dilution Factor: 1				
		Analysis Time..: 16:04				

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METHOD BLANK REPORT

TOTAL Metals

Client Lot #...: D8J230235 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Sodium	ND	5000	ug/L	MCAWW 200.7	10/28-10/30/08	K1L1V1AE

Dilution Factor: 1
Analysis Time..: 16:04

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8J230235 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D8J250000-069 **Prep Batch #...:** 8299069					
Potassium	97	(89 - 114)	MCAWW 200.7	10/28-10/30/08	K1L1V1AR
		Dilution Factor: 1		Analysis Time..: 16:08	
Selenium	100	(85 - 112)	MCAWW 200.7	10/28-10/30/08	K1L1V1AU
		Dilution Factor: 1		Analysis Time..: 16:08	
Calcium	97	(90 - 111)	MCAWW 200.7	10/28-10/30/08	K1L1V1AP
		Dilution Factor: 1		Analysis Time..: 16:08	
Magnesium	96	(90 - 113)	MCAWW 200.7	10/28-10/30/08	K1L1V1AQ
		Dilution Factor: 1		Analysis Time..: 16:08	
Iron	99	(89 - 115)	MCAWW 200.7	10/28-10/30/08	K1L1V1A3
		Dilution Factor: 1		Analysis Time..: 16:08	
Sodium	98	(90 - 115)	MCAWW 200.7	10/28-10/30/08	K1L1V1AT
		Dilution Factor: 1		Analysis Time..: 16:08	
Arsenic	100	(88 - 110)	MCAWW 200.7	10/28-10/30/08	K1L1V1AV
		Dilution Factor: 1		Analysis Time..: 16:08	
Barium	96	(90 - 112)	MCAWW 200.7	10/28-10/30/08	K1L1V1AW
		Dilution Factor: 1		Analysis Time..: 16:08	
Cadmium	104	(88 - 111)	MCAWW 200.7	10/28-10/30/08	K1L1V1AX
		Dilution Factor: 1		Analysis Time..: 16:08	
Chromium	98	(90 - 113)	MCAWW 200.7	10/28-10/30/08	K1L1V1A0
		Dilution Factor: 1		Analysis Time..: 16:08	
Manganese	97	(90 - 110)	MCAWW 200.7	10/28-10/30/08	K1L1V1A1
		Dilution Factor: 1		Analysis Time..: 16:08	
Lead	99	(89 - 110)	MCAWW 200.7	10/28-10/30/08	K1L1V1A2
		Dilution Factor: 1		Analysis Time..: 16:08	

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8J230235 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
LCS Lot-Sample#: D8J250000-069 **Prep Batch #...:** 8299069							
Potassium	50000	48400	ug/L	97	MCAWW 200.7	10/28-10/30/08	K1L1V1AR
			Dilution Factor: 1		Analysis Time..: 16:08		
Selenium	2000	1990	ug/L	100	MCAWW 200.7	10/28-10/30/08	K1L1V1AU
			Dilution Factor: 1		Analysis Time..: 16:08		
Calcium	50000	48300	ug/L	97	MCAWW 200.7	10/28-10/30/08	K1L1V1AP
			Dilution Factor: 1		Analysis Time..: 16:08		
Magnesium	50000	48000	ug/L	96	MCAWW 200.7	10/28-10/30/08	K1L1V1AQ
			Dilution Factor: 1		Analysis Time..: 16:08		
Iron	1000	993	ug/L	99	MCAWW 200.7	10/28-10/30/08	K1L1V1A3
			Dilution Factor: 1		Analysis Time..: 16:08		
Sodium	50000	49100	ug/L	98	MCAWW 200.7	10/28-10/30/08	K1L1V1AT
			Dilution Factor: 1		Analysis Time..: 16:08		
Arsenic	1000	1000	ug/L	100	MCAWW 200.7	10/28-10/30/08	K1L1V1AV
			Dilution Factor: 1		Analysis Time..: 16:08		
Barium	2000	1930	ug/L	96	MCAWW 200.7	10/28-10/30/08	K1L1V1AW
			Dilution Factor: 1		Analysis Time..: 16:08		
Cadmium	100	104	ug/L	104	MCAWW 200.7	10/28-10/30/08	K1L1V1AX
			Dilution Factor: 1		Analysis Time..: 16:08		
Chromium	200	196	ug/L	98	MCAWW 200.7	10/28-10/30/08	K1L1V1A0
			Dilution Factor: 1		Analysis Time..: 16:08		
Manganese	500	486	ug/L	97	MCAWW 200.7	10/28-10/30/08	K1L1V1A1
			Dilution Factor: 1		Analysis Time..: 16:08		
Lead	500	496	ug/L	99	MCAWW 200.7	10/28-10/30/08	K1L1V1A2
			Dilution Factor: 1		Analysis Time..: 16:08		

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8J230235 **Matrix.....:** WATER
Date Sampled...: 10/23/08 10:30 **Date Received..:** 10/23/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8J230235-002 **Prep Batch #...:** 8299069							
Potassium	100	(89 - 114)			MCAWW 200.7	10/28-10/30/08	K1F7G1AU
	99	(89 - 114)	1.3	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1AV
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Selenium	102	(85 - 112)			MCAWW 200.7	10/28-10/30/08	K1F7G1A0
	100	(85 - 112)	1.2	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1A1
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Calcium	100	(90 - 111)			MCAWW 200.7	10/28-10/30/08	K1F7G1AP
	97	(90 - 111)	1.7	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1AQ
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Iron	100	(89 - 115)			MCAWW 200.7	10/28-10/30/08	K1F7G1CF
	95	(89 - 115)	2.0	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1CG
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Magnesium	98	(90 - 113)			MCAWW 200.7	10/28-10/30/08	K1F7G1AR
	97	(90 - 113)	1.2	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1AT
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Arsenic	103	(88 - 110)			MCAWW 200.7	10/28-10/30/08	K1F7G1A2
	103	(88 - 110)	0.71	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1A3
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Barium	100	(90 - 112)			MCAWW 200.7	10/28-10/30/08	K1F7G1A4
	98	(90 - 112)	1.9	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1A5
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Cadmium	107	(88 - 111)			MCAWW 200.7	10/28-10/30/08	K1F7G1A6
	106	(88 - 111)	0.97	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1A7
		Dilution Factor: 1					
		Analysis Time..: 16:40					

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MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: D8J230235 **Matrix.....:** WATER
Date Sampled...: 10/23/08 10:30 **Date Received..:** 10/23/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Chromium	100	(90 - 113)			MCAWW 200.7	10/28-10/30/08	K1F7G1A8
	99	(90 - 113)	0.54	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1A9
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Lead	101	(89 - 110)			MCAWW 200.7	10/28-10/30/08	K1F7G1CD
	99	(89 - 110)	1.6	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1CE
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Manganese	99	(90 - 110)			MCAWW 200.7	10/28-10/30/08	K1F7G1CA
	97	(90 - 110)	1.6	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1CC
		Dilution Factor: 1					
		Analysis Time..: 16:40					
Sodium	99	(90 - 115)			MCAWW 200.7	10/28-10/30/08	K1F7G1AW
	91	(90 - 115)	2.4	(0-20)	MCAWW 200.7	10/28-10/30/08	K1F7G1AX
		Dilution Factor: 1					
		Analysis Time..: 16:40					

NOTE(S):

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

MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8J230235 **Matrix.....:** WATER
Date Sampled...: 10/23/08 10:30 **Date Received..:** 10/23/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
MS Lot-Sample #: D8J230235-002 **Prep Batch #...:** 8299069									
Potassium									
	3400	50000	53500	ug/L	100		MCAWW 200.7	10/28-10/30/08	K1F7G1AU
	3400	50000	52800	ug/L	99	1.3	MCAWW 200.7	10/28-10/30/08	K1F7G1AV
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Selenium									
	ND	2000	2030	ug/L	102		MCAWW 200.7	10/28-10/30/08	K1F7G1A0
	ND	2000	2010	ug/L	100	1.2	MCAWW 200.7	10/28-10/30/08	K1F7G1A1
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Calcium									
	41000	50000	91200	ug/L	100		MCAWW 200.7	10/28-10/30/08	K1F7G1AP
	41000	50000	89600	ug/L	97	1.7	MCAWW 200.7	10/28-10/30/08	K1F7G1AQ
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Iron									
	1500	1000	2520	ug/L	100		MCAWW 200.7	10/28-10/30/08	K1F7G1CF
	1500	1000	2470	ug/L	95	2.0	MCAWW 200.7	10/28-10/30/08	K1F7G1CG
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Magnesium									
	19000	50000	68600	ug/L	98		MCAWW 200.7	10/28-10/30/08	K1F7G1AR
	19000	50000	67800	ug/L	97	1.2	MCAWW 200.7	10/28-10/30/08	K1F7G1AT
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Arsenic									
	ND	1000	1030	ug/L	103		MCAWW 200.7	10/28-10/30/08	K1F7G1A2
	ND	1000	1030	ug/L	103	0.71	MCAWW 200.7	10/28-10/30/08	K1F7G1A3
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Barium									
	31	2000	2020	ug/L	100		MCAWW 200.7	10/28-10/30/08	K1F7G1A4
	31	2000	1990	ug/L	98	1.9	MCAWW 200.7	10/28-10/30/08	K1F7G1A5
			Dilution Factor: 1						
			Analysis Time..: 16:40						

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MATRIX SPIKE SAMPLE DATA REPORT

TOTAL Metals

Client Lot #...: D8J230235 **Matrix.....:** WATER
Date Sampled...: 10/23/08 10:30 **Date Received..:** 10/23/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	WORK ORDER #
Cadmium									
	ND	100	107	ug/L	107		MCAWW 200.7	10/28-10/30/08	K1F7G1A6
	ND	100	106	ug/L	106	0.97	MCAWW 200.7	10/28-10/30/08	K1F7G1A7
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Chromium									
	ND	200	200	ug/L	100		MCAWW 200.7	10/28-10/30/08	K1F7G1A8
	ND	200	199	ug/L	99	0.54	MCAWW 200.7	10/28-10/30/08	K1F7G1A9
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Lead									
	ND	500	506	ug/L	101		MCAWW 200.7	10/28-10/30/08	K1F7G1CD
	ND	500	498	ug/L	99	1.6	MCAWW 200.7	10/28-10/30/08	K1F7G1CE
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Manganese									
	190	500	685	ug/L	99		MCAWW 200.7	10/28-10/30/08	K1F7G1CA
	190	500	674	ug/L	97	1.6	MCAWW 200.7	10/28-10/30/08	K1F7G1CC
			Dilution Factor: 1						
			Analysis Time..: 16:40						
Sodium									
	130000	50000	177000	ug/L	99		MCAWW 200.7	10/28-10/30/08	K1F7G1AW
	130000	50000	173000	ug/L	91	2.4	MCAWW 200.7	10/28-10/30/08	K1F7G1AX
			Dilution Factor: 1						
			Analysis Time..: 16:40						

NOTE(S):

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

METHOD BLANK REPORT

General Chemistry

Client Lot #...: D8J230235 **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		Work Order #: K199V1AA		MB Lot-Sample #:	D8K050000-506	
	ND	0.20	mg/L	MCAWW 300.0A	10/23/08	8310506
		Dilution Factor: 1				
		Analysis Time..: 23:30				
Chloride		Work Order #: K10141AA		MB Lot-Sample #:	D8J240000-558	
	ND	3.0	mg/L	MCAWW 300.0A	10/23/08	8298558
		Dilution Factor: 1				
		Analysis Time..: 17:07				
Fluoride		Work Order #: K199E1AA		MB Lot-Sample #:	D8K050000-503	
	ND	0.50	mg/L	MCAWW 300.0A	10/23/08	8310503
		Dilution Factor: 1				
		Analysis Time..: 23:30				
Nitrate		Work Order #: K102H1AA		MB Lot-Sample #:	D8J240000-559	
	ND	0.50	mg/L	MCAWW 300.0A	10/23/08	8298559
		Dilution Factor: 1				
		Analysis Time..: 17:07				
Nitrite		Work Order #: K104D1AA		MB Lot-Sample #:	D8J250000-171	
	ND	0.50	mg/L	MCAWW 300.0A	10/23/08	8299171
		Dilution Factor: 1				
		Analysis Time..: 23:30				
Specific Conductance		Work Order #: K1QCT1AA		MB Lot-Sample #:	D8J240000-705	
	ND	2.0	umhos/cm	SM18 2510 B	10/24/08	8298705
		Dilution Factor: 1				
		Analysis Time..: 17:00				
Sulfate		Work Order #: K18AA1AA		MB Lot-Sample #:	D8K040000-265	
	ND	5.0	mg/L	MCAWW 300.0A	11/03/08	8309265
		Dilution Factor: 1				
		Analysis Time..: 11:48				
Total Dissolved Solids		Work Order #: K15191AA		MB Lot-Sample #:	D8J290000-268	
	ND	10	mg/L	SM18 2540 C	10/28/08	8303268
		Dilution Factor: 1				
		Analysis Time..: 16:50				

NOTE(S):

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

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D8J230235 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH		WO#:K1N3X1AA-LCS/K1N3X1AC-LCSD LCS Lot-Sample#: D8J240000-690					
	100	(97 - 102)			SM18 4500-H B	10/24/08	8298690
	100	(97 - 102)	0.0	(0-5.0)	SM18 4500-H B	10/24/08	8298690
		Dilution Factor: 1			Analysis Time..: 07:36		
Bromide		WO#:K199V1AC-LCS/K199V1AD-LCSD LCS Lot-Sample#: D8K050000-506					
	103	(90 - 110)			MCAWW 300.0A	10/23/08	8310506
	101	(90 - 110)	2.0	(0-10)	MCAWW 300.0A	10/23/08	8310506
		Dilution Factor: 1			Analysis Time..: 23:30		
Chloride		WO#:K10141AC-LCS/K10141AD-LCSD LCS Lot-Sample#: D8J240000-558					
	99	(90 - 110)			MCAWW 300.0A	10/23/08	8298558
	96	(90 - 110)	2.4	(0-10)	MCAWW 300.0A	10/23/08	8298558
		Dilution Factor: 1			Analysis Time..: 17:07		
Fluoride		WO#:K199E1AC-LCS/K199E1AD-LCSD LCS Lot-Sample#: D8K050000-503					
	92	(90 - 110)			MCAWW 300.0A	10/23/08	8310503
	91	(90 - 110)	0.65	(0-10)	MCAWW 300.0A	10/23/08	8310503
		Dilution Factor: 1			Analysis Time..: 23:30		
Nitrate		WO#:K102H1AC-LCS/K102H1AD-LCSD LCS Lot-Sample#: D8J240000-559					
	100	(90 - 110)			MCAWW 300.0A	10/23/08	8298559
	97	(90 - 110)	2.6	(0-10)	MCAWW 300.0A	10/23/08	8298559
		Dilution Factor: 1			Analysis Time..: 17:07		
Nitrite		WO#:K104D1AC-LCS/K104D1AD-LCSD LCS Lot-Sample#: D8J250000-171					
	101	(90 - 110)			MCAWW 300.0A	10/23/08	8299171
	98	(90 - 110)	2.6	(0-10)	MCAWW 300.0A	10/23/08	8299171
		Dilution Factor: 1			Analysis Time..: 23:30		
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#:K18AA1AC-LCS/K18AA1AD-LCSD LCS Lot-Sample#: D8K040000-265					
	96	(90 - 110)			MCAWW 300.0A	11/03/08	8309265
	96	(90 - 110)	0.35	(0-10)	MCAWW 300.0A	11/03/08	8309265
		Dilution Factor: 1			Analysis Time..: 11:17		

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: D8J230235 **Matrix.....:** WATER

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	WO#:K15191AC-LCS/K15191AD-LCSD					LCS Lot-Sample#: D8J290000-268	
	99	(86 - 106)			SM18 2540 C	10/28/08	8303268
	99	(86 - 106)	0.20	(0-20)	SM18 2540 C	10/28/08	8303268

Dilution Factor: 1 Analysis Time..: 16:50

NOTE(S):

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

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D8J230235 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH			WO#:K1N3X1AA-LCS/K1N3X1AC-LCSD LCS Lot-Sample#: D8J240000-690					
	7.00	7.02	No Units	100		SM18 4500-H B	10/24/08	8298690
	7.00	7.02	No Units	100	0.0	SM18 4500-H B	10/24/08	8298690
			Dilution Factor: 1			Analysis Time..: 07:36		
Bromide			WO#:K199V1AC-LCS/K199V1AD-LCSD LCS Lot-Sample#: D8K050000-506					
	5.00	5.17	mg/L	103		MCAWW 300.0A	10/23/08	8310506
	5.00	5.07	mg/L	101	2.0	MCAWW 300.0A	10/23/08	8310506
			Dilution Factor: 1			Analysis Time..: 23:30		
Chloride			WO#:K10141AC-LCS/K10141AD-LCSD LCS Lot-Sample#: D8J240000-558					
	25.0	24.6	mg/L	99		MCAWW 300.0A	10/23/08	8298558
	25.0	24.0	mg/L	96	2.4	MCAWW 300.0A	10/23/08	8298558
			Dilution Factor: 1			Analysis Time..: 17:07		
Fluoride			WO#:K199E1AC-LCS/K199E1AD-LCSD LCS Lot-Sample#: D8K050000-503					
	5.00	4.58	mg/L	92		MCAWW 300.0A	10/23/08	8310503
	5.00	4.56	mg/L	91	0.65	MCAWW 300.0A	10/23/08	8310503
			Dilution Factor: 1			Analysis Time..: 23:30		
Nitrate			WO#:K102H1AC-LCS/K102H1AD-LCSD LCS Lot-Sample#: D8J240000-559					
	5.00	5.00	mg/L	100		MCAWW 300.0A	10/23/08	8298559
	5.00	4.87	mg/L	97	2.6	MCAWW 300.0A	10/23/08	8298559
			Dilution Factor: 1			Analysis Time..: 17:07		
Nitrite			WO#:K104D1AC-LCS/K104D1AD-LCSD LCS Lot-Sample#: D8J250000-171					
	5.00	5.03	mg/L	101		MCAWW 300.0A	10/23/08	8299171
	5.00	4.90	mg/L	98	2.6	MCAWW 300.0A	10/23/08	8299171
			Dilution Factor: 1			Analysis Time..: 23:30		
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#:K18AA1AC-LCS/K18AA1AD-LCSD LCS Lot-Sample#: D8K040000-265					
	25.0	24.0	mg/L	96		MCAWW 300.0A	11/03/08	8309265
	25.0	24.1	mg/L	96	0.35	MCAWW 300.0A	11/03/08	8309265
			Dilution Factor: 1			Analysis Time..: 11:17		

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

General Chemistry

Lot-Sample #...: D8J230235 **Matrix.....:** WATER

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids	WO#:K15191AC-LCS/K15191AD-LCSD LCS Lot-Sample#: D8J290000-268							
	500	496	mg/L	99		SM18 2540 C	10/28/08	8303268
	500	497	mg/L	99	0.20	SM18 2540 C	10/28/08	8303268
	Dilution Factor: 1			Analysis Time..: 16:50				

NOTE(S):

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

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: D8J230235 **Matrix.....:** WATER
Date Sampled...: 10/23/08 11:46 **Date Received..:** 10/24/08

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide		WO#: K1F671AU-MS/K1F671AV-MSD				MS Lot-Sample #: D8J230235-001	
	102	(80 - 120)			MCAWW 300.0A	10/23/08	8310506
	101	(80 - 120)	1.1	(0-20)	MCAWW 300.0A	10/23/08	8310506
		Dilution Factor: 1					
		Analysis Time..: 23:30					
Chloride		WO#: K1GG71CE-MS/K1GG71CF-MSD				MS Lot-Sample #: D8J230267-002	
	98	(80 - 120)			MCAWW 300.0A	10/23/08	8298558
	99	(80 - 120)	0.93	(0-20)	MCAWW 300.0A	10/23/08	8298558
		Dilution Factor: 1					
		Analysis Time..: 17:07					
Fluoride		WO#: K1F671AR-MS/K1F671AT-MSD				MS Lot-Sample #: D8J230235-001	
	90	(80 - 120)			MCAWW 300.0A	10/23/08	8310503
	90	(80 - 120)	0.48	(0-20)	MCAWW 300.0A	10/23/08	8310503
		Dilution Factor: 1					
		Analysis Time..: 23:30					
Nitrate		WO#: K1GG71CG-MS/K1GG71CH-MSD				MS Lot-Sample #: D8J230267-002	
	101	(80 - 120)			MCAWW 300.0A	10/23/08	8298559
	101	(80 - 120)	0.39	(0-20)	MCAWW 300.0A	10/23/08	8298559
		Dilution Factor: 1					
		Analysis Time..: 17:07					
Nitrite		WO#: K1F671AN-MS/K1F671AP-MSD				MS Lot-Sample #: D8J230235-001	
	100	(80 - 120)			MCAWW 300.0A	10/23/08	8299171
	98	(80 - 120)	2.0	(0-20)	MCAWW 300.0A	10/23/08	8299171
		Dilution Factor: 1					
		Analysis Time..: 23:30					
Sulfate		WO#: K1CTV1C3-MS/K1CTV1C4-MSD				MS Lot-Sample #: D8J220202-006	
	58 N	(80 - 120)			MCAWW 300.0A	11/03/08	8309265
	59 N	(80 - 120)	0.66	(0-20)	MCAWW 300.0A	11/03/08	8309265
		Dilution Factor: 50					
		Analysis Time..: 18:39					
Sulfate		WO#: K1JF71A1-MS/K1JF71A2-MSD				MS Lot-Sample #: D8J240187-001	
	103	(80 - 120)			MCAWW 300.0A	11/03/08	8309265
	103	(80 - 120)	0.31	(0-20)	MCAWW 300.0A	11/03/08	8309265
		Dilution Factor: 2					
		Analysis Time..: 13:23					

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

General Chemistry

Client Lot #...: D8J230235 **Matrix.....:** WATER
Date Sampled...: 10/23/08 11:46 **Date Received..:** 10/24/08

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Bromide			WO#: K1F671AU-MS/K1F671AV-MSD MS Lot-Sample #: D8J230235-001						
	0.26	5.00	5.35	mg/L	102		MCAWW 300.0A	10/23/08	8310506
	0.26	5.00	5.29	mg/L	101	1.1	MCAWW 300.0A	10/23/08	8310506
			Dilution Factor: 1						
			Analysis Time..: 23:30						
Chloride			WO#: K1GG71CE-MS/K1GG71CF-MSD MS Lot-Sample #: D8J230267-002						
	ND	25.0	24.6	mg/L	98		MCAWW 300.0A	10/23/08	8298558
	ND	25.0	24.8	mg/L	99	0.93	MCAWW 300.0A	10/23/08	8298558
			Dilution Factor: 1						
			Analysis Time..: 17:07						
Fluoride			WO#: K1F671AR-MS/K1F671AT-MSD MS Lot-Sample #: D8J230235-001						
	1.0	5.00	5.54	mg/L	90		MCAWW 300.0A	10/23/08	8310503
	1.0	5.00	5.57	mg/L	90	0.48	MCAWW 300.0A	10/23/08	8310503
			Dilution Factor: 1						
			Analysis Time..: 23:30						
Nitrate			WO#: K1GG71CG-MS/K1GG71CH-MSD MS Lot-Sample #: D8J230267-002						
	ND	5.00	5.04	mg/L	101		MCAWW 300.0A	10/23/08	8298559
	ND	5.00	5.06	mg/L	101	0.39	MCAWW 300.0A	10/23/08	8298559
			Dilution Factor: 1						
			Analysis Time..: 17:07						
Nitrite			WO#: K1F671AN-MS/K1F671AP-MSD MS Lot-Sample #: D8J230235-001						
	ND	5.00	4.98	mg/L	100		MCAWW 300.0A	10/23/08	8299171
	ND	5.00	4.88	mg/L	98	2.0	MCAWW 300.0A	10/23/08	8299171
			Dilution Factor: 1						
			Analysis Time..: 23:30						
Sulfate			WO#: K1CTV1C3-MS/K1CTV1C4-MSD MS Lot-Sample #: D8J220202-006						
	1800	1250	2570 N	mg/L	58		MCAWW 300.0A	11/03/08	8309265
	1800	1250	2580 N	mg/L	59	0.66	MCAWW 300.0A	11/03/08	8309265
			Dilution Factor: 50						
			Analysis Time..: 18:39						
Sulfate			WO#: K1JF71A1-MS/K1JF71A2-MSD MS Lot-Sample #: D8J240187-001						
	52	50.0	104	mg/L	103		MCAWW 300.0A	11/03/08	8309265
	52	50.0	103	mg/L	103	0.31	MCAWW 300.0A	11/03/08	8309265
			Dilution Factor: 2						
			Analysis Time..: 13:23						

NOTE(S):

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

N Spiked analyte recovery is outside stated control limits.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8J230235 **Work Order #...:** K1GV0-SMP **Matrix.....:** WATER
K1GV0-DUP
Date Sampled...: 10/23/08 12:15 **Date Received..:** 10/23/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH						SD Lot-Sample #: D8J230311-001		
	6.4	6.4	No Units	0.16	(0-5.0)	SM18 4500-H B	10/24/08	8298691

Dilution Factor: 1 Analysis Time..: 11:23

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8J230235 **Work Order #...:** K1JT4-SMP K1JT4-DUP **Matrix.....:** WATER

Date Sampled...: 10/23/08 09:05 **Date Received..:** 10/24/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
pH						SD Lot-Sample #: D8J240220-003		
	8.0	8.0	No Units	0.12	(0-5.0)	SM18 4500-H B	10/24/08	8298692

Dilution Factor: 1 Analysis Time..: 13:06

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8J230235 **Work Order #...:** K1FCW-SMP **Matrix.....:** WATER
K1FCW-DUP
Date Sampled...: 10/22/08 09:25 **Date Received..:** 10/23/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Specific Conductance						SD Lot-Sample #: D8J230168-002		
	8000	8000	umhos/cm	0.50	(0-5.0)	SM18 2510 B	10/24/08	8298704

Dilution Factor: 1 Analysis Time..: 17:00

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8J230235 **Work Order #...:** K1F67-SMP **Matrix.....:** WATER
K1F67-DUP
Date Sampled...: 10/23/08 10:30 **Date Received..:** 10/23/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #: D8J230235-001		
	500	500	mg/L	0.60	(0-20)	SM18 2540 C	10/28/08	8303268

Dilution Factor: 1 Analysis Time..: 16:50

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: D8J230235 **Work Order #...:** K1GHV-SMP **Matrix.....:** WATER
K1GHV-DUP
Date Sampled...: 10/22/08 12:37 **Date Received..:** 10/23/08

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION-ANALYSIS DATE	PREP BATCH #
Total Dissolved Solids						SD Lot-Sample #: D8J230267-009		
	250	240	mg/L	1.6	(0-20)	SM18 2540 C	10/28/08	8303268

Dilution Factor: 1 Analysis Time..: 16:50

Chain of Custody Record

Sampler ID _____

Temperature on Receipt 2.6 IR2 ZM 10/23/08

Drinking Water? Yes ☒ No ☐

TestAmerica THE LEADER IN ENVIRONMENTAL TESTING

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TAL-4124-280 (0508)

Client	Project Manager	Date	Chain of Custody Number
COG CC	David Andrews	10/23/08	109472
Address	**Telephone Number (Area Code)/Fax Number**	**Lab Number**	**Page** 1 of 1
1120 Lincoln St. #801	303-894-2100		
City / **State** / **Zip Code**	**Site Contact** / **Lab Contact**		
Denver / CO / 80203	Jay Sandquist		
Project Name and Location (State)	**Carrier/Waybill Number**		
Sandquist Well: La Salle, CO			
Contract/Purchase Order/Quote No.			
02399			

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix: Air	Aqueous	Sed.	Soil	Containers & Preservatives: Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Analysis: Tot. Metals	Cations	Anions	pH	EC	TDS	8260B	Methane	Special Instructions/ Conditions of Receipt
Sandquist Well	10/23/08	1030		X			X		X				X	X	X	X	X	X	X	X	

Possible Hazard Identification
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal
☐ 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 Standard

QC Requirements (Specify)

	Relinquished By	Date	Time	Received By	Date	Time
1.	[signature]	10/23/08	1200	[signature]	10/23/08	800
2.	[signature]					
3.						

Comments

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

TestAmerica