

ANALYTICAL REPORT

Job Number: 280-14533-1

Job Description: Burkhart # 200300876

For:
Colorado Oil&Gas Conservation Commision
1120 Lincoln St.
Suite 801
Denver, CO 80203
Attention: John Axelson



Approved for release.
Lori A Parsons
Project Manager I
4/26/2011 3:40 PM

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04/26/2011

The test results in this report relate only to the samples in this report and meet all requirements of NELAC, with any exceptions noted. Pursuant to NELAP, this report shall not be reproduced except in full, without the written approval of the laboratory. All questions regarding this report should be directed to the TestAmerica Denver Project Manager.

The Lab Certification ID# is E87667.

Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.

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Table of Contents

Cover Title Page	1
Data Summaries	4
Report Narrative	4
Manual Integration Summary	7
Sample Summary	17
Executive Summary	18
Method Summary	19
Method / Analyst Summary	20
Sample Datasheets	21
Surrogate Summary	29
QC Data Summary	32
Data Qualifiers	62
QC Association Summary	63
Lab Chronicle	68
Certification Summary	72
Organic Sample Data	73
GC/MS VOA	73
Method 8260B	73
Method 8260B Sample Data	74
GC VOA	84
Method 8015B - GRO	84
Method 8015B - GRO Sample Data	85
Method RSK-175	88
Method RSK-175 Sample Data	89
GC Semi VOA	95
Method 8015B - DRO	95

Table of Contents

Method 8015B - DRO Sample Data	96
Shipping and Receiving Documents	99
Client Chain of Custody	100
Sample Receipt Checklist	101

CASE NARRATIVE

Client: Colorado Oil&Gas Conservation Commision

Project: Burkhart # 200300876

Report Number: 280-14533-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

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

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

RECEIPT

The samples were received on 04/13/2011; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.4 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples BURKHART-WW-2 (280-14533-1) and TRIP BLANK (280-14533-2) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/19/2011.

TestAmerica Denver's practice for the reporting of dual column data is to report the surrogates from both columns, and the preferred result for any given target analyte from the analyst selected column. The preferred results for target analytes and surrogates are reported as PRIMARY on the Sample Datasheets.

No difficulties were encountered during the volatiles analyses.

All quality control parameters were within the acceptance limits.

GAS RANGE ORGANICS

Sample BURKHART-WW-2 (280-14533-1) was analyzed for gas range organics in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 04/15/2011.

No difficulties were encountered during the GRO analysis.

All quality control parameters were within the acceptance limits.

DISSOLVED GASES

Sample BURKHART-WW-2 (280-14533-1) was analyzed for dissolved gases in accordance with RSK_175. The samples were analyzed on 04/19/2011.

TestAmerica Denver's practice for the reporting of dual column data is to report the results from both columns, and the preferred result for any given target analyte from the analyst selected column. The preferred results for target analytes are reported as PRIMARY on the Sample Datasheets.

The Method required MS/MSD could not be performed for analytical batch 63215, due to insufficient sample volume submitted. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

No difficulties were encountered during the dissolved gases analysis.

All quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS

Sample BURKHART-WW-2 (280-14533-1) was analyzed for Diesel Range Organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 04/14/2011 and analyzed on 04/18/2011.

The Method required MS/MSD could not be performed for analytical batch 62977, due to insufficient sample volume submitted. Method precision and accuracy have been verified by the acceptable LCS/LCSD analysis data.

No difficulties were encountered during the DRO analysis.

All quality control parameters were within the acceptance limits.

TOTAL METALS

Sample BURKHART-WW-2 (280-14533-1) was analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared and analyzed on 04/15/2011.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

TOTAL METALS - URANIUM

Sample BURKHART-WW-2 (280-14533-1) was analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 04/15/2011 and analyzed on 04/16/2011.

No difficulties were encountered during the metals analysis.

All quality control parameters were within the acceptance limits.

CATION ANION BALANCE

Sample BURKHART-WW-2 (280-14533-1) was analyzed for Cation Anion Balance in accordance with Cation Anion Balance. The samples were analyzed on 04/22/2011.

No other difficulties were encountered during the Cation Anion Balance analysis.

All other quality control parameters were within the acceptance limits.

SODIUM ABSORPTION RATIO

Sample BURKHART-WW-2 (280-14533-1) was analyzed for Sodium Absorption Ratio in accordance with USDA Handbook 60 - 20B. The samples were analyzed on 04/21/2011.

No difficulties were encountered during the SAR analysis.

All quality control parameters were within the acceptance limits.

ANIONS

Sample BURKHART-WW-2 (280-14533-1) was analyzed for anions in accordance with EPA Method 300.0. The samples were analyzed on 04/13/2011.

Sample BURKHART-WW-2 (280-14533-1)[5X] required dilution prior to analysis for sulfate. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the anions analysis.

All quality control parameters were within the acceptance limits.

ALKALINITY

Sample BURKHART-WW-2 (280-14533-1) was analyzed for Alkalinity in accordance with SM20 2320B. The samples were analyzed on 04/19/2011.

No difficulties were encountered during the alkalinity analysis.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTIVITY

Sample BURKHART-WW-2 (280-14533-1) was analyzed for specific conductivity in accordance with SM20 2510B. The samples were analyzed on 04/19/2011.

No difficulties were encountered during the conductivity analysis.

All quality control parameters were within the acceptance limits.

TOTAL DISSOLVED SOLIDS

Sample BURKHART-WW-2 (280-14533-1) was analyzed for total dissolved solids in accordance with SM20 2540C. The samples were analyzed on 04/19/2011.

No difficulties were encountered during the TDS analysis.

All quality control parameters were within the acceptance limits.

CORROSIVITY (PH)

Sample BURKHART-WW-2 (280-14533-1) was analyzed for corrosivity (pH) in accordance with SM20 4500 H+ B. The samples were analyzed on 04/13/2011.

No other difficulties were encountered during the pH analysis.

All other quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-14533-1

SDG No.: _____

Instrument ID: GCV_B Analysis Batch Number: 50510Lab Sample ID: IC 280-50510/3 Client Sample ID: _____Date Analyzed: 01/25/11 12:20 Lab File ID: 111F0301.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C5-C12	9.64	Baseline Event	mooret	01/26/11 14:23
C6-C12	10.09	Baseline Event	mooret	01/26/11 14:23
1-Chloro-4-fluorobenzene	11.31	Baseline Event	mooret	01/26/11 14:23
Chlorobenzene	11.52	Baseline Event	mooret	01/26/11 14:23

Lab Sample ID: IC 280-50510/4 Client Sample ID: _____Date Analyzed: 01/25/11 12:53 Lab File ID: 112F0401.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
1-Chloro-4-fluorobenzene	11.30	Baseline Event	mooret	01/26/11 14:24
Chlorobenzene	11.51	Baseline Event	mooret	01/26/11 14:24

Lab Sample ID: ICRT 280-50510/5 Client Sample ID: _____Date Analyzed: 01/25/11 13:26 Lab File ID: 113F0501.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Gasoline Range Organics (GRO) -C6-C10	9.15	Baseline Event	mooret	01/26/11 14:22
C5-C12	9.64	Baseline Event	mooret	01/26/11 14:22
C6-C12	10.09	Baseline Event	mooret	01/26/11 14:22
1-Chloro-4-fluorobenzene	11.30	Baseline Event	mooret	01/26/11 14:21
Chlorobenzene	11.51	Baseline Event	mooret	01/26/11 14:21

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-14533-1

SDG No.: _____

Instrument ID: GCV_B Analysis Batch Number: 50510Lab Sample ID: IC 280-50510/6 Client Sample ID: _____Date Analyzed: 01/25/11 13:59 Lab File ID: 114F0601.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	7.88	Baseline Event	mooret	01/26/11 14:25
C5-C12	9.64	Baseline Event	mooret	01/26/11 14:25
C6-C12	10.09	Baseline Event	mooret	01/26/11 14:25
1-Chloro-4-fluorobenzene	11.30	Baseline Event	mooret	01/26/11 14:25
Chlorobenzene	11.52	Baseline Event	mooret	01/26/11 14:25

Lab Sample ID: IC 280-50510/7 Client Sample ID: _____Date Analyzed: 01/25/11 14:32 Lab File ID: 115F0701.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	7.89	Baseline Event	mooret	01/26/11 14:26
C5-C12	9.64	Baseline Event	mooret	01/26/11 14:26
C6-C12	10.09	Baseline Event	mooret	01/26/11 14:26
1-Chloro-4-fluorobenzene	11.31	Baseline Event	mooret	01/26/11 14:26
Chlorobenzene	11.52	Baseline Event	mooret	01/26/11 14:26

Lab Sample ID: IC 280-50510/8 Client Sample ID: _____Date Analyzed: 01/25/11 15:04 Lab File ID: 116F0801.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	7.88	Baseline Event	mooret	01/26/11 14:27
C5-C12	9.64	Baseline Event	mooret	01/26/11 14:27
C6-C12	10.09	Baseline Event	mooret	01/26/11 14:27
1-Chloro-4-fluorobenzene	11.31	Baseline Event	mooret	01/26/11 14:27
Chlorobenzene	11.52	Baseline Event	mooret	01/26/11 14:27

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-14533-1

SDG No.: _____

Instrument ID: GCV_B Analysis Batch Number: 50510Lab Sample ID: ICV 280-50510/9 Client Sample ID: _____Date Analyzed: 01/25/11 17:10 Lab File ID: 202F1001.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C5-C12	9.64	Baseline Event	mooret	01/26/11 14:29
C6-C12	10.09	Baseline Event	mooret	01/26/11 14:29
Chlorobenzene	11.52	Baseline Event	mooret	01/26/11 14:29

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-14533-1

SDG No.: _____

Instrument ID: GCV_B Analysis Batch Number: 62320Lab Sample ID: CCVRT 280-62320/2 Client Sample ID: _____Date Analyzed: 04/14/11 11:46 Lab File ID: 115F0201.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene	11.48	Baseline Event	mooret	04/14/11 20:34

Lab Sample ID: LCS 280-62320/3 Client Sample ID: _____Date Analyzed: 04/14/11 12:18 Lab File ID: 116F0301.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	7.84	Baseline Event	mooret	04/14/11 20:36
Gasoline Range Organics (GRO) -C6-C10	9.12	Baseline Event	mooret	04/14/11 20:36

Lab Sample ID: LCSD 280-62320/4 Client Sample ID: _____Date Analyzed: 04/14/11 12:51 Lab File ID: 201F0401.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	7.84	Baseline Event	mooret	04/14/11 20:36
Gasoline Range Organics (GRO) -C6-C10	9.12	Baseline Event	mooret	04/14/11 20:36

Lab Sample ID: CCV 280-62320/9 Client Sample ID: _____Date Analyzed: 04/14/11 20:01 Lab File ID: 213F1601.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene	11.48	Baseline Event	mooret	04/14/11 20:42

GASOLINE RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-14533-1

SDG No.: _____

Instrument ID: GCV_B Analysis Batch Number: 62320Lab Sample ID: 280-14395-AD-1 MSD Client Sample ID: _____Date Analyzed: 04/14/11 22:11 Lab File ID: 301F2001.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
a,a,a-Trifluorotoluene	7.85	Baseline Event	mooret	04/15/11 09:26

Lab Sample ID: CCV 280-62320/16 Client Sample ID: _____Date Analyzed: 04/14/11 23:48 Lab File ID: 304F2301.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene	11.48	Baseline Event	mooret	04/15/11 09:24

Lab Sample ID: CCV 280-62320/22 Client Sample ID: _____Date Analyzed: 04/15/11 03:03 Lab File ID: 310F2901.D GC Column: RTX 502.2 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Chlorobenzene	11.48	Baseline Event	mooret	04/15/11 09:24

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-14533-1

SDG No.: _____

Instrument ID: GCS_U2 Analysis Batch Number: 48528Lab Sample ID: IC 280-48528/2 Client Sample ID: _____Date Analyzed: 01/10/11 17:55 Lab File ID: 004F0401.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C24	9.56	Baseline Event	birdsellm	01/11/11 09:36
C10-C25	9.80	Baseline Event	birdsellm	01/11/11 09:36
Diesel Range Organics [C10-C28]	10.51	Baseline Event	birdsellm	01/11/11 09:36
C10-C32	11.18	Baseline Event	birdsellm	01/11/11 09:36
C10-C36	11.67	Baseline Event	birdsellm	01/11/11 09:36

Lab Sample ID: IC 280-48528/3 Client Sample ID: _____Date Analyzed: 01/10/11 18:29 Lab File ID: 005F0501.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	9.02	Baseline Event	birdsellm	01/11/11 09:36
C10-C24	9.56	Baseline Event	birdsellm	01/11/11 09:36
C10-C25	9.80	Baseline Event	birdsellm	01/11/11 09:36
C8-C34	10.00	Baseline Event	birdsellm	01/11/11 09:36
Diesel Range Organics [C10-C28]	10.51	Baseline Event	birdsellm	01/11/11 09:36
C10-C32	11.18	Baseline Event	birdsellm	01/11/11 09:36
o-Terphenyl	11.53	Baseline Event	birdsellm	01/11/11 09:36
C10-C36	11.67	Baseline Event	birdsellm	01/11/11 09:36
n-Octacosane	16.74	Baseline Event	birdsellm	01/11/11 09:36

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-14533-1

SDG No.: _____

Instrument ID: GCS_U2 Analysis Batch Number: 48528Lab Sample ID: IC 280-48528/4 Client Sample ID: _____Date Analyzed: 01/10/11 19:03 Lab File ID: 006F0601.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	9.02	Baseline Event	birdsellm	01/11/11 09:37
C10-C24	9.56	Baseline Event	birdsellm	01/11/11 09:37
C10-C25	9.80	Baseline Event	birdsellm	01/11/11 09:37
C8-C34	10.00	Baseline Event	birdsellm	01/11/11 09:37
Diesel Range Organics [C10-C28]	10.51	Baseline Event	birdsellm	01/11/11 09:37
C10-C32	11.18	Baseline Event	birdsellm	01/11/11 09:37
o-Terphenyl	11.52	Baseline Event	birdsellm	01/11/11 09:37
C10-C36	11.67	Baseline Event	birdsellm	01/11/11 09:37
n-Octacosane	16.74	Baseline Event	birdsellm	01/11/11 09:37

Lab Sample ID: ICRT 280-48528/5 Client Sample ID: _____Date Analyzed: 01/10/11 19:36 Lab File ID: 007F0701.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	9.02	Baseline Event	birdsellm	01/11/11 10:08
C10-C24	9.56	Baseline Event	birdsellm	01/11/11 10:08
C10-C25	9.80	Baseline Event	birdsellm	01/11/11 10:08
C8-C34	10.00	Baseline Event	birdsellm	01/11/11 10:08
Diesel Range Organics [C10-C28]	10.51	Baseline Event	birdsellm	01/11/11 10:08
C10-C32	11.18	Baseline Event	birdsellm	01/11/11 10:08
o-Terphenyl	11.51	Baseline Event	birdsellm	01/11/11 10:08
C10-C36	11.67	Baseline Event	birdsellm	01/11/11 10:08
n-Octacosane	16.73	Baseline Event	birdsellm	01/11/11 10:07

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-14533-1

SDG No.: _____

Instrument ID: GCS_U2 Analysis Batch Number: 48528Lab Sample ID: IC 280-48528/6 Client Sample ID: _____Date Analyzed: 01/10/11 20:10 Lab File ID: 008F0801.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	9.02	Baseline Event	birdsellm	01/11/11 09:38
C10-C24	9.56	Baseline Event	birdsellm	01/11/11 09:38
C10-C25	9.80	Baseline Event	birdsellm	01/11/11 09:38
C8-C34	10.00	Baseline Event	birdsellm	01/11/11 09:38
Diesel Range Organics [C10-C28]	10.51	Baseline Event	birdsellm	01/11/11 09:38
C10-C32	11.18	Baseline Event	birdsellm	01/11/11 09:38
o-Terphenyl	11.50	Baseline Event	birdsellm	01/11/11 09:38
C10-C36	11.67	Baseline Event	birdsellm	01/11/11 09:38

Lab Sample ID: IC 280-48528/7 Client Sample ID: _____Date Analyzed: 01/10/11 20:44 Lab File ID: 009F0901.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	9.02	Baseline Event	birdsellm	01/11/11 09:38
C10-C24	9.56	Baseline Event	birdsellm	01/11/11 09:38
C10-C25	9.80	Baseline Event	birdsellm	01/11/11 09:38
C8-C34	10.00	Baseline Event	birdsellm	01/11/11 09:38
Diesel Range Organics [C10-C28]	10.51	Baseline Event	birdsellm	01/11/11 09:38
C10-C32	11.18	Baseline Event	birdsellm	01/11/11 09:38
o-Terphenyl	11.50	Baseline Event	birdsellm	01/11/11 09:38
C10-C36	11.67	Baseline Event	birdsellm	01/11/11 09:38

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-14533-1

SDG No.: _____

Instrument ID: GCS_U2 Analysis Batch Number: 48528Lab Sample ID: IC 280-48528/8 Client Sample ID: _____Date Analyzed: 01/10/11 21:18 Lab File ID: 010F1001.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	9.02	Baseline Event	birdsellm	01/11/11 10:12
C10-C24	9.56	Baseline Event	birdsellm	01/11/11 10:12
C10-C25	9.80	Baseline Event	birdsellm	01/11/11 10:12
C8-C34	10.00	Baseline Event	birdsellm	01/11/11 10:12
Diesel Range Organics [C10-C28]	10.51	Baseline Event	birdsellm	01/11/11 10:12
C10-C32	11.18	Baseline Event	birdsellm	01/11/11 10:12
o-Terphenyl	11.50	Baseline Event	birdsellm	01/11/11 10:12
C10-C36	11.67	Baseline Event	birdsellm	01/11/11 10:12

Lab Sample ID: ICV 280-48528/9 Client Sample ID: _____Date Analyzed: 01/10/11 21:51 Lab File ID: 011F1101.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
C10-C22	9.02	Baseline Event	birdsellm	01/11/11 10:08
C10-C24	9.56	Baseline Event	birdsellm	01/11/11 10:08
C10-C25	9.80	Baseline Event	birdsellm	01/11/11 10:08
C8-C34	10.00	Baseline Event	birdsellm	01/11/11 10:08
Diesel Range Organics [C10-C28]	10.51	Baseline Event	birdsellm	01/11/11 10:08
C10-C32	11.18	Baseline Event	birdsellm	01/11/11 10:08
o-Terphenyl	11.50	Baseline Event	birdsellm	01/11/11 10:08
C10-C36	11.67	Baseline Event	birdsellm	01/11/11 10:08
n-Octacosane	16.73	Baseline Event	birdsellm	01/11/11 10:08

DIESEL RANGE ORGANICS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Denver Job No.: 280-14533-1

SDG No.: _____

Instrument ID: GCS_U2 Analysis Batch Number: 62977Lab Sample ID: CCVRT 280-62977/2 Client Sample ID: _____Date Analyzed: 04/18/11 18:48 Lab File ID: 004F0401.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	10.42	Baseline Event	birdsellm	04/19/11 12:42
o-Terphenyl	11.41	Baseline Event	birdsellm	04/19/11 12:42
C10-C36	11.60	Baseline Event	birdsellm	04/19/11 12:42
n-Octacosane	16.63	Baseline Event	birdsellm	04/19/11 12:42

Lab Sample ID: LCS 280-62290/2-A Client Sample ID: _____Date Analyzed: 04/18/11 19:54 Lab File ID: 006F0601.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	11.40	Baseline Event	birdsellm	04/19/11 13:12
C10-C36	11.60	Baseline Event	birdsellm	04/19/11 13:12

Lab Sample ID: LCSD 280-62290/3-A Client Sample ID: _____Date Analyzed: 04/18/11 20:27 Lab File ID: 007F0701.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
o-Terphenyl	11.40	Baseline Event	birdsellm	04/19/11 13:12
C10-C36	11.60	Baseline Event	birdsellm	04/19/11 13:12

Lab Sample ID: CCV 280-62977/13 Client Sample ID: _____Date Analyzed: 04/19/11 00:55 Lab File ID: 015F1501.D GC Column: RTX-1 (30.32) ID: 0.25 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Diesel Range Organics [C10-C28]	10.42	Baseline Event	birdsellm	04/19/11 13:08
o-Terphenyl	11.41	Baseline Event	birdsellm	04/19/11 13:08
C10-C36	11.60	Baseline Event	birdsellm	04/19/11 13:08
n-Octacosane	16.63	Baseline Event	birdsellm	04/19/11 13:08

SAMPLE SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-14533-1	BURKHART-WW-2	Water	04/13/2011 0940	04/13/2011 1305
280-14533-2TB	TRIP BLANK	Water	04/13/2011 0940	04/13/2011 1305

EXECUTIVE SUMMARY - Detections

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-14533-1	BURKHART-WW-2				
Sodium Adsorption Ratio		1.8	0.40	No Unit	20B
Arsenic		100	15	ug/L	6010B
Barium		32	10	ug/L	6010B
Cadmium		7.0	5.0	ug/L	6010B
Calcium		70000	200	ug/L	6010B
Iron		830	100	ug/L	6010B
Lead		29	9.0	ug/L	6010B
Magnesium		21000	200	ug/L	6010B
Manganese		52	10	ug/L	6010B
Potassium		5900	3000	ug/L	6010B
Selenium		44	15	ug/L	6010B
Sodium		70000	1000	ug/L	6010B
Chloride		11	3.0	mg/L	300.0
Fluoride		0.91	0.50	mg/L	300.0
Sulfate		140	25	mg/L	300.0
Total Anions		8.3		meq/L	SM 1030F
Total Cations		8.5		meq/L	SM 1030F
Percent Difference		1.2		%	SM 1030F
Anion/Cation Balance		1.2		%	SM 1030F
Total Alkalinity		250	5.0	mg/L	SM 2320B
Bicarbonate Alkalinity as CaCO3		250	5.0	mg/L	SM 2320B
Specific Conductance		750	2.0	umhos/cm	SM 2510B
Total Dissolved Solids		460	10	mg/L	SM 2540C
pH		7.11 HF	0.100	SU	SM 4500 H+ B

METHOD SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Description	Lab Location	Method	Preparation Method
Matrix: Water			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Gasoline Range Organics - (GC)	TAL DEN	SW846 8015B	
Purge and Trap	TAL DEN		SW846 5030B
Dissolved Gases in Water	TAL DEN	RSK RSK-175	
Diesel Range Organics (DRO) (GC)	TAL DEN	SW846 8015B	
Liquid-Liquid Extraction (Separatory Funnel)	TAL DEN		SW846 3510C
Sodium Adsorption Ratio	TAL DEN	USDA 20B	
Metals (ICP)	TAL DEN	SW846 6010B	
Preparation, Total Metals	TAL DEN		SW846 3010A
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Total Metals	TAL DEN		SW846 3020A
Anions, Ion Chromatography	TAL DEN	MCAWW 300.0	
Cation Anion Balance	TAL DEN	SM SM 1030F	
Alkalinity	TAL DEN	SM SM 2320B	
Conductivity, Specific Conductance	TAL DEN	SM SM 2510B	
Solids, Total Dissolved (TDS)	TAL DEN	SM SM 2540C	
pH	TAL DEN	SM SM 4500 H+ B	

Lab References:

TAL DEN = TestAmerica Denver

Method 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

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

USDA = "USDA Agriculture Handbook 60, section 20B".

METHOD / ANALYST SUMMARY

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method	Analyst	Analyst ID
SW846 8260B	Stapp, Jennifer L	JLS
SW846 8015B	Moore, Tegan E	TEM
RSK RSK-175	Smith, Matthew P	MPS
SW846 8015B	Birdsell, Matthew R	MRB
USDA 20B	Harre, John K	JKH
SW846 6010B	Harre, John K	JKH
SW846 6020	Lill, Thomas E	TEL
MCAWW 300.0	Kudla, Ewa	EK
SM SM 1030F	Sullivan, Roxanne	RS
SM SM 2320B	Scott, Samantha J	SJS
SM SM 2510B	Plumb, Paul M	PMP
SM SM 2540C	Domnick, Brandon J	BJD
SM SM 4500 H+ B	Taylor, Juli M	JMT

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Client Sample ID: BURKHART-WW-2

Lab Sample ID: 280-14533-1

Date Sampled: 04/13/2011 0940

Client Matrix: Water

Date Received: 04/13/2011 1305

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-62873	Instrument ID:	MSV_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ms3406.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	04/19/2011 0243			Final Weight/Volume:	20 mL
Prep Date:	04/19/2011 0243				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		1.0
Ethylbenzene	ND		1.0
Toluene	ND		1.0
m-Xylene & p-Xylene	ND		2.0
o-Xylene	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	109		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	101		78 - 120
Dibromofluoromethane (Surr)	107		77 - 120

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 280-14533-2TB

Date Sampled: 04/13/2011 0940

Client Matrix: Water

Date Received: 04/13/2011 1305

8260B Volatile Organic Compounds (GC/MS)

Analysis Method:	8260B	Analysis Batch:	280-62873	Instrument ID:	MSV_MS1
Prep Method:	5030B	Prep Batch:	N/A	Lab File ID:	ms3407.D
Dilution:	1.0			Initial Weight/Volume:	20 mL
Analysis Date:	04/19/2011 0303			Final Weight/Volume:	20 mL
Prep Date:	04/19/2011 0303				

Analyte	Result (ug/L)	Qualifier	RL
Benzene	ND		1.0
Ethylbenzene	ND		1.0
Toluene	ND		1.0
m-Xylene & p-Xylene	ND		2.0
o-Xylene	ND		1.0

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	105		70 - 127
Toluene-d8 (Surr)	99		80 - 125
4-Bromofluorobenzene (Surr)	100		78 - 120
Dibromofluoromethane (Surr)	100		77 - 120

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Client Sample ID: BURKHART-WW-2

Lab Sample ID: 280-14533-1

Date Sampled: 04/13/2011 0940

Client Matrix: Water

Date Received: 04/13/2011 1305

8015B Gasoline Range Organics - (GC)

Analysis Method:	8015B	Analysis Batch:	280-62320	Instrument ID:	GCV_B
Prep Method:	5030B		N/A	Initial Weight/Volume:	5 mL
Dilution:	1.0			Final Weight/Volume:	5 mL
Analysis Date:	04/15/2011 0053			Injection Volume:	5 mL
Prep Date:	04/15/2011 0053			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Gasoline Range Organics (GRO)-C6-C10	ND		25

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	93		82 - 110

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Client Sample ID: BURKHART-WW-2

Lab Sample ID: 280-14533-1

Date Sampled: 04/13/2011 0940

Client Matrix: Water

Date Received: 04/13/2011 1305

RSK-175 Dissolved Gases in Water

Analysis Method: RSK-175

Analysis Batch: 280-63215

Instrument ID: GCV_J

N/A

N/A

Initial Weight/Volume: 18 mL

Dilution: 1.0

Final Weight/Volume: 18 mL

Analysis Date: 04/19/2011 1907

Injection Volume:

Prep Date: N/A

Result Type: PRIMARY

Analyte	Result (ug/L)	Qualifier	RL
Methane	ND		5.0

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Client Sample ID: BURKHART-WW-2

Lab Sample ID: 280-14533-1

Date Sampled: 04/13/2011 0940

Client Matrix: Water

Date Received: 04/13/2011 1305

RSK-175 Dissolved Gases in Water

Analysis Method: RSK-175

Analysis Batch: 280-63215

Instrument ID: GCV_J

N/A

N/A

Initial Weight/Volume: 18 mL

Dilution: 1.0

Final Weight/Volume: 18 mL

Analysis Date: 04/19/2011 1907

Injection Volume:

Prep Date: N/A

Result Type: SECONDARY

Analyte	Result (ug/L)	Qualifier	RL
Methane	ND		5.0

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Client Sample ID: BURKHART-WW-2

Lab Sample ID: 280-14533-1

Date Sampled: 04/13/2011 0940

Client Matrix: Water

Date Received: 04/13/2011 1305

8015B Diesel Range Organics (DRO) (GC)

Analysis Method:	8015B	Analysis Batch:	280-62977	Instrument ID:	GCS_U2
Prep Method:	3510C	Prep Batch:	280-62290	Initial Weight/Volume:	1043.6 mL
Dilution:	1.0			Final Weight/Volume:	1000 uL
Analysis Date:	04/18/2011 2207			Injection Volume:	1 uL
Prep Date:	04/14/2011 1737			Result Type:	PRIMARY

Analyte	Result (mg/L)	Qualifier	RL
C10-C36	ND		0.48

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	80		50 - 115

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Client Sample ID: BURKHART-WW-2

Lab Sample ID: 280-14533-1

Date Sampled: 04/13/2011 0940

Client Matrix: Water

Date Received: 04/13/2011 1305

20B Sodium Adsorption Ratio

Analysis Method:	20B	Analysis Batch:	280-63434	Instrument ID:	MT_025
	N/A		N/A	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	
Analysis Date:	04/21/2011 1406			Final Weight/Volume:	1.0 mL
Prep Date:	N/A				

Analyte	Result (No Unit)	Qualifier	RL
Sodium Adsorption Ratio	1.8		0.40

6010B Metals (ICP)

Analysis Method:	6010B	Analysis Batch:	280-62687	Instrument ID:	MT_025
Prep Method:	3010A	Prep Batch:	280-62180	Lab File ID:	N/A
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	04/15/2011 1348			Final Weight/Volume:	50 mL
Prep Date:	04/15/2011 0730				

Analyte	Result (ug/L)	Qualifier	RL
Arsenic	100		15
Barium	32		10
Cadmium	7.0		5.0
Calcium	70000		200
Chromium	ND		10
Iron	830		100
Lead	29		9.0
Magnesium	21000		200
Manganese	52		10
Potassium	5900		3000
Selenium	44		15
Silver	ND		10
Sodium	70000		1000

6020 Metals (ICP/MS)

Analysis Method:	6020	Analysis Batch:	280-62706	Instrument ID:	MT_024
Prep Method:	3020A	Prep Batch:	280-62182	Lab File ID:	186SMPL.D
Dilution:	1.0			Initial Weight/Volume:	50 mL
Analysis Date:	04/16/2011 0346			Final Weight/Volume:	50 mL
Prep Date:	04/15/2011 1530				

Analyte	Result (ug/L)	Qualifier	RL
Uranium	ND		1.0

Analytical Data

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

General Chemistry

Client Sample ID: BURKHART-WW-2

Lab Sample ID: 280-14533-1

Client Matrix: Water

Date Sampled: 04/13/2011 0940

Date Received: 04/13/2011 1305

Analyte	Result	Qual	Units	RL	Dil	Method
Bromide	ND		mg/L	0.20	1.0	300.0
	Analysis Batch: 280-62260	Analysis Date: 04/13/2011 1918				
Nitrate as N	ND		mg/L	0.50	1.0	300.0
	Analysis Batch: 280-62259	Analysis Date: 04/13/2011 1918				
Chloride	11		mg/L	3.0	1.0	300.0
	Analysis Batch: 280-62260	Analysis Date: 04/13/2011 1918				
Nitrite as N	ND		mg/L	0.50	1.0	300.0
	Analysis Batch: 280-62259	Analysis Date: 04/13/2011 1918				
Fluoride	0.91		mg/L	0.50	1.0	300.0
	Analysis Batch: 280-62260	Analysis Date: 04/13/2011 1918				
Sulfate	140		mg/L	25	5.0	300.0
	Analysis Batch: 280-62260	Analysis Date: 04/13/2011 2259				
Total Alkalinity	250		mg/L	5.0	1.0	SM 2320B
	Analysis Batch: 280-63141	Analysis Date: 04/19/2011 1624				
Bicarbonate Alkalinity as CaCO3	250		mg/L	5.0	1.0	SM 2320B
	Analysis Batch: 280-63141	Analysis Date: 04/19/2011 1624				
Carbonate Alkalinity as CaCO3	ND		mg/L	5.0	1.0	SM 2320B
	Analysis Batch: 280-63141	Analysis Date: 04/19/2011 1624				
Total Dissolved Solids	460		mg/L	10	1.0	SM 2540C
	Analysis Batch: 280-62897	Analysis Date: 04/19/2011 0737				
Analyte	Result	Qual	Units		Dil	Method
Total Anions	8.3		meq/L		1.0	SM 1030F
	Analysis Batch: 280-63668	Analysis Date: 04/22/2011 1210				
Total Cations	8.5		meq/L		1.0	SM 1030F
	Analysis Batch: 280-63668	Analysis Date: 04/22/2011 1210				
Percent Difference	1.2		%		1.0	SM 1030F
	Analysis Batch: 280-63668	Analysis Date: 04/22/2011 1210				
Anion/Cation Balance	1.2		%		1.0	SM 1030F
	Analysis Batch: 280-63668	Analysis Date: 04/22/2011 1210				
Analyte	Result	Qual	Units	RL	Dil	Method
Specific Conductance	750		umhos/cm	2.0	1.0	SM 2510B
	Analysis Batch: 280-63039	Analysis Date: 04/19/2011 1720				
pH	7.11	HF	SU	0.100	1.0	SM 4500 H+ B
	Analysis Batch: 280-62100	Analysis Date: 04/13/2011 1536				

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Surrogate Recovery Report**8260B Volatile Organic Compounds (GC/MS)****Client Matrix: Water**

Lab Sample ID	Client Sample ID	DBFM %Rec	DCA %Rec	TOL %Rec	BFB %Rec
280-14533-1	BURKHART-WW-2	107	109	99	101
280-14533-2	TRIP BLANK	100	105	99	100
MB 280-62873/5		95	95	100	98
LCS 280-62873/4		98	97	98	102
280-14519-AT-1 MS		100	96	102	104
280-14519-AT-1 MSD		99	96	101	103

Surrogate	Acceptance Limits
DBFM = Dibromofluoromethane (Surr)	77-120
DCA = 1,2-Dichloroethane-d4 (Surr)	70-127
TOL = Toluene-d8 (Surr)	80-125
BFB = 4-Bromofluorobenzene (Surr)	78-120

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Surrogate Recovery Report

8015B Gasoline Range Organics - (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	TFT1 %Rec
280-14533-1	BURKHART-WW-2	93
MB 280-62320/5		100
LCS 280-62320/3		103
LCSD 280-62320/4		96
280-14395-AD-1 MSD		91

Surrogate	Acceptance Limits
TFT = a,a,a-Trifluorotoluene	82-110

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Surrogate Recovery Report

8015B Diesel Range Organics (DRO) (GC)

Client Matrix: Water

Lab Sample ID	Client Sample ID	OTPH1 %Rec
280-14533-1	BURKHART-WW-2	80
MB 280-62290/1-A		86
LCS 280-62290/2-A		84
LCSD 280-62290/3-A		87

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	50-115

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method Blank - Batch: 280-62873

Method: 8260B

Preparation: 5030B

Lab Sample ID:	MB 280-62873/5	Analysis Batch:	280-62873	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms3387.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	04/18/2011 2012	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	04/18/2011 2012				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Benzene	ND		1.0
Ethylbenzene	ND		1.0
Toluene	ND		1.0
m-Xylene & p-Xylene	ND		2.0
o-Xylene	ND		1.0

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	95	70 - 127
Toluene-d8 (Surr)	100	80 - 125
4-Bromofluorobenzene (Surr)	98	78 - 120
Dibromofluoromethane (Surr)	95	77 - 120

Lab Control Sample - Batch: 280-62873

Method: 8260B

Preparation: 5030B

Lab Sample ID:	LCS 280-62873/4	Analysis Batch:	280-62873	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms3386.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	04/18/2011 1951	Units:	ug/L	Final Weight/Volume:	20 mL
Prep Date:	04/18/2011 1951				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	5.00	4.55	91	77 - 120	
Ethylbenzene	5.00	4.63	93	78 - 120	
Toluene	5.00	4.87	97	73 - 120	
m-Xylene & p-Xylene	10.0	9.28	93	78 - 120	
o-Xylene	5.00	4.54	91	77 - 120	

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	97	70 - 127
Toluene-d8 (Surr)	98	80 - 125
4-Bromofluorobenzene (Surr)	102	78 - 120
Dibromofluoromethane (Surr)	98	77 - 120

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-14533-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-62873

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-14519-AT-1 MS	Analysis Batch:	280-62873	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms3390.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	04/18/2011 2119			Final Weight/Volume:	20 mL
Prep Date:	04/18/2011 2119				
Leach Date:	N/A				

MSD Lab Sample ID:	280-14519-AT-1 MSD	Analysis Batch:	280-62873	Instrument ID:	MSV_MS1
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	ms3391.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	20 mL
Analysis Date:	04/18/2011 2139			Final Weight/Volume:	20 mL
Prep Date:	04/18/2011 2139				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	100	96	77 - 120	3	20		
Ethylbenzene	100	97	78 - 120	3	26		
Toluene	104	101	73 - 120	3	20		
m-Xylene & p-Xylene	102	98	78 - 120	3	20		
o-Xylene	98	96	77 - 120	2	20		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
1,2-Dichloroethane-d4 (Surr)	96		96	70 - 127			
Toluene-d8 (Surr)	102		101	80 - 125			
4-Bromofluorobenzene (Surr)	104		103	78 - 120			
Dibromofluoromethane (Surr)	100		99	77 - 120			

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-62873

Method: 8260B
Preparation: 5030B

MS Lab Sample ID:	280-14519-AT-1 MS	Units:	ug/L	MSD Lab Sample ID:	280-14519-AT-1 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/18/2011 2119			Analysis Date:	04/18/2011 2139
Prep Date:	04/18/2011 2119			Prep Date:	04/18/2011 2139
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	ND	5.00	5.00	4.99	4.82
Ethylbenzene	ND	5.00	5.00	5.02	4.86
Toluene	ND	5.00	5.00	5.20	5.03
m-Xylene & p-Xylene	ND	10.0	10.0	10.2	9.82
o-Xylene	ND	5.00	5.00	4.89	4.80

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-14533-1

Method Blank - Batch: 280-62320

Method: 8015B
Preparation: 5030B

Lab Sample ID:	MB 280-62320/5	Analysis Batch:	280-62320	Instrument ID:	GCV_B
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	202F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2011 1323	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/14/2011 1323			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	RL
Gasoline Range Organics (GRO)-C6-C10	ND		25

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	100	82 - 110

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-62320

Method: 8015B
Preparation: 5030B

LCS Lab Sample ID:	LCS 280-62320/3	Analysis Batch:	280-62320	Instrument ID:	GCV_B
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	116F0301.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2011 1218	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/14/2011 1218			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 280-62320/4	Analysis Batch:	280-62320	Instrument ID:	GCV_B
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	201F0401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	5 mL
Analysis Date:	04/14/2011 1251	Units:	ug/L	Final Weight/Volume:	5 mL
Prep Date:	04/14/2011 1251			Injection Volume:	5 mL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C6-C10	119	107	79 - 149	10	27		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
a,a,a-Trifluorotoluene	103	96		82 - 110			

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-62320**

**Method: 8015B
Preparation: 5030B**

LCS Lab Sample ID: LCS 280-62320/3 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/14/2011 1218
Prep Date: 04/14/2011 1218
Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-62320/4
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/14/2011 1251
Prep Date: 04/14/2011 1251
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	101	101	120	108

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method Blank - Batch: 280-63215

Method: RSK-175

Preparation: N/A

Lab Sample ID:	MB 280-63215/4	Analysis Batch:	280-63215	Instrument ID:	GCV_J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	18 mL
Analysis Date:	04/19/2011 1621	Units:	ug/L	Final Weight/Volume:	18 mL
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	RL
Methane	ND		5.0

Method Blank - Batch: 280-63215

Method: RSK-175

Preparation: N/A

Lab Sample ID:	MB 280-63215/4	Analysis Batch:	280-63215	Instrument ID:	GCV_J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	18 mL
Analysis Date:	04/19/2011 1621	Units:	ug/L	Final Weight/Volume:	18 mL
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	Result	Qual	RL
Methane	ND		5.0

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-63215**

**Method: RSK-175
Preparation: N/A**

LCS Lab Sample ID:	LCS 280-63215/2	Analysis Batch:	280-63215	Instrument ID:	GCV_J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	004F0401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	18 mL
Analysis Date:	04/19/2011 1613	Units:	ug/L	Final Weight/Volume:	18 mL
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 280-63215/3	Analysis Batch:	280-63215	Instrument ID:	GCV_J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	18 mL
Analysis Date:	04/19/2011 1617	Units:	ug/L	Final Weight/Volume:	18 mL
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methane	97	95	75 - 125	2	20		

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-63215**

**Method: RSK-175
Preparation: N/A**

LCS Lab Sample ID:	LCS 280-63215/2	Analysis Batch:	280-63215	Instrument ID:	GCV_J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	004F0401.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	18 mL
Analysis Date:	04/19/2011 1613	Units:	ug/L	Final Weight/Volume:	18 mL
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	SECONDARY

LCSD Lab Sample ID:	LCSD 280-63215/3	Analysis Batch:	280-63215	Instrument ID:	GCV_J
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	18 mL
Analysis Date:	04/19/2011 1617	Units:	ug/L	Final Weight/Volume:	18 mL
Prep Date:	N/A			Injection Volume:	
Leach Date:	N/A			Column ID:	SECONDARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Methane	103	101	75 - 125	2	20		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-63215**

**Method: RSK-175
Preparation: N/A**

LCS Lab Sample ID: LCS 280-63215/2 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/19/2011 1613
Prep Date: N/A
Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-63215/3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/19/2011 1617
Prep Date: N/A
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Methane	73.2	73.2	70.9	69.7

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-63215**

**Method: RSK-175
Preparation: N/A**

LCS Lab Sample ID: LCS 280-63215/2 Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/19/2011 1613
Prep Date: N/A
Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-63215/3
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/19/2011 1617
Prep Date: N/A
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Methane	73.2	73.2	75.5	74.2

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method Blank - Batch: 280-62290

Method: 8015B
Preparation: 3510C

Lab Sample ID:	MB 280-62290/1-A	Analysis Batch:	280-62977	Instrument ID:	GCS_U2
Client Matrix:	Water	Prep Batch:	280-62290	Lab File ID:	005F0501.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/18/2011 1921	Units:	mg/L	Final Weight/Volume:	1000 uL
Prep Date:	04/14/2011 1737			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	Result	Qual	RL
C10-C36	ND		0.50

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	86	50 - 115

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-62290

Method: 8015B
Preparation: 3510C

LCS Lab Sample ID:	LCS 280-62290/2-A	Analysis Batch:	280-62977	Instrument ID:	GCS_U2
Client Matrix:	Water	Prep Batch:	280-62290	Lab File ID:	006F0601.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/18/2011 1954	Units:	mg/L	Final Weight/Volume:	1000 uL
Prep Date:	04/14/2011 1737			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 280-62290/3-A	Analysis Batch:	280-62977	Instrument ID:	GCS_U2
Client Matrix:	Water	Prep Batch:	280-62290	Lab File ID:	007F0701.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1000 mL
Analysis Date:	04/18/2011 2027	Units:	mg/L	Final Weight/Volume:	1000 uL
Prep Date:	04/14/2011 1737			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
C10-C36	86	88	57 - 115	1	31		
Surrogate	LCS % Rec		LCSD % Rec	Acceptance Limits			
o-Terphenyl	84	87			50 - 115		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-62290**

**Method: 8015B
Preparation: 3510C**

LCS Lab Sample ID: LCS 280-62290/2-A Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/18/2011 1954
Prep Date: 04/14/2011 1737
Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-62290/3-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/18/2011 2027
Prep Date: 04/14/2011 1737
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
C10-C36	2.00	2.00	1.73	1.75

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method Blank - Batch: 280-63434

Method: 20B Preparation: N/A

Lab Sample ID:	MB 280-63434/1	Analysis Batch:	280-63434	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/21/2011 1406	Units:	No Unit	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Sodium Adsorption Ratio	ND		0.40

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method Blank - Batch: 280-62180

Method: 6010B

Preparation: 3010A

Lab Sample ID: MB 280-62180/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/15/2011 1344
Prep Date: 04/15/2011 0730
Leach Date: N/A

Analysis Batch: 280-62687
Prep Batch: 280-62180
Leach Batch: N/A
Units: ug/L

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Arsenic	ND		15
Barium	ND		10
Cadmium	ND		5.0
Calcium	ND		200
Chromium	ND		10
Iron	ND		100
Lead	ND		9.0
Magnesium	ND		200
Manganese	ND		10
Potassium	ND		3000
Selenium	ND		15
Silver	ND		10
Sodium	ND		1000

Lab Control Sample - Batch: 280-62180

Method: 6010B

Preparation: 3010A

Lab Sample ID: LCS 280-62180/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/15/2011 1346
Prep Date: 04/15/2011 0730
Leach Date: N/A

Analysis Batch: 280-62687
Prep Batch: 280-62180
Leach Batch: N/A
Units: ug/L

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	1000	1050	105	88 - 110	
Barium	2000	2030	101	90 - 112	
Cadmium	100	108	108	88 - 111	
Calcium	50000	49200	98	90 - 111	
Chromium	200	204	102	90 - 113	
Iron	1000	974	97	89 - 115	
Lead	500	506	101	89 - 110	
Magnesium	50000	50300	101	90 - 113	
Manganese	500	496	99	90 - 110	
Potassium	50000	51000	102	89 - 114	
Selenium	2000	2080	104	85 - 112	
Silver	50.0	53.8	108	86 - 115	
Sodium	50000	53700	107	90 - 115	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-62180

Method: 6010B
Preparation: 3010A

MS Lab Sample ID:	280-14542-C-1-B MS	Analysis Batch:	280-62687	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-62180	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	04/15/2011 1416			Final Weight/Volume:	50 mL
Prep Date:	04/15/2011 0730				
Leach Date:	N/A				

MSD Lab Sample ID:	280-14542-C-1-C MSD	Analysis Batch:	280-62687	Instrument ID:	MT_025
Client Matrix:	Water	Prep Batch:	280-62180	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	50 mL
Analysis Date:	04/15/2011 1418			Final Weight/Volume:	50 mL
Prep Date:	04/15/2011 0730				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	101	100	84 - 124	1	25		
Barium	99	99	85 - 120	0	25		
Cadmium	106	105	82 - 119	1	25		
Calcium	97	96	48 - 153	1	25		
Chromium	100	99	73 - 135	1	25		
Iron	96	96	52 - 155	0	25		
Lead	99	99	89 - 121	0	25		
Magnesium	99	97	62 - 146	1	25		
Manganese	97	97	79 - 121	0	25		
Potassium	100	100	76 - 132	0	25		
Selenium	100	100	71 - 140	0	25		
Silver	105	105	75 - 141	0	25		
Sodium	104	104	70 - 203	0	40		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-62180

Method: 6010B
Preparation: 3010A

MS Lab Sample ID: 280-14542-C-1-B MS Units: ug/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/15/2011 1416
Prep Date: 04/15/2011 0730
Leach Date: N/A

MSD Lab Sample ID: 280-14542-C-1-C MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/15/2011 1418
Prep Date: 04/15/2011 0730
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	ND	1000	1000	1010	1000
Barium	ND	2000	2000	1990	1990
Cadmium	ND	100	100	106	105
Calcium	ND	50000	50000	48300	48000
Chromium	ND	200	200	200	199
Iron	ND	1000	1000	960	958
Lead	ND	500	500	495	493
Magnesium	ND	50000	50000	49300	48700
Manganese	ND	500	500	487	485
Potassium	ND	50000	50000	49900	49800
Selenium	ND	2000	2000	2000	2010
Silver	ND	50.0	50.0	52.5	52.6
Sodium	ND	50000	50000	52400	52100

Serial Dilution - Batch: 280-62180

Method: 6010B
Preparation: 3010A

Lab Sample ID: 280-14542-C-1-A SD ^5
Client Matrix: Water
Dilution: 5.0
Analysis Date: 04/15/2011 1413
Prep Date: 04/15/2011 0730
Leach Date: N/A

Analysis Batch: 280-62687
Prep Batch: 280-62180
Leach Batch: N/A
Units: ug/L

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Arsenic	ND	ND	NC	10	
Barium	ND	ND	NC	10	
Cadmium	ND	ND	NC	10	
Calcium	ND	ND	NC	10	
Chromium	ND	ND	NC	10	
Iron	ND	ND	NC	10	
Lead	ND	ND	NC	10	
Magnesium	ND	ND	NC	10	
Manganese	ND	ND	NC	10	
Potassium	ND	ND	NC	10	
Selenium	ND	ND	NC	10	
Silver	ND	ND	NC	10	
Sodium	ND	ND	NC	10	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method Blank - Batch: 280-62182

Method: 6020

Preparation: 3020A

Lab Sample ID: MB 280-62182/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/16/2011 0340
Prep Date: 04/15/2011 1530
Leach Date: N/A

Analysis Batch: 280-62706
Prep Batch: 280-62182
Leach Batch: N/A
Units: ug/L

Instrument ID: MT_024
Lab File ID: 184_BLK.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL
Uranium	ND		1.0

Lab Control Sample - Batch: 280-62182

Method: 6020

Preparation: 3020A

Lab Sample ID: LCS 280-62182/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/16/2011 0343
Prep Date: 04/15/2011 1530
Leach Date: N/A

Analysis Batch: 280-62706
Prep Batch: 280-62182
Leach Batch: N/A
Units: ug/L

Instrument ID: MT_024
Lab File ID: 185_LCS.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Uranium	40.0	41.7	104	85 - 119	

Post Digestion Spike - Batch: 280-62182

Method: 6020

Preparation: 3020A

Lab Sample ID: 280-14517-A-2-B PDS
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/16/2011 0354
Prep Date: 04/15/2011 1530
Leach Date: N/A

Analysis Batch: 280-62706
Prep Batch: 280-62182
Leach Batch: N/A
Units: ug/L

Instrument ID: MT_024
Lab File ID: 189PDS.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Spike Amount	Result	% Rec.	Limit	Qual
Uranium	10	200	197	93	75 - 125	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-62182

Method: 6020
Preparation: 3020A

MS Lab Sample ID: 280-14517-A-2-C MS
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/16/2011 0402
Prep Date: 04/15/2011 1530
Leach Date: N/A

Analysis Batch: 280-62706
Prep Batch: 280-62182
Leach Batch: N/A

Instrument ID: MT_024
Lab File ID: 192_MS.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-14517-A-2-D MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/16/2011 0405
Prep Date: 04/15/2011 1530
Leach Date: N/A

Analysis Batch: 280-62706
Prep Batch: 280-62182
Leach Batch: N/A

Instrument ID: MT_024
Lab File ID: 193_MS.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Uranium	104	100	85 - 119	4	20		

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-62182

Method: 6020
Preparation: 3020A

MS Lab Sample ID: 280-14517-A-2-C MS
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/16/2011 0402
Prep Date: 04/15/2011 1530
Leach Date: N/A

Units: ug/L

MSD Lab Sample ID: 280-14517-A-2-D MSD
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/16/2011 0405
Prep Date: 04/15/2011 1530
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Uranium	10	40.0	40.0	52.1	50.2

Serial Dilution - Batch: 280-62182

Method: 6020
Preparation: 3020A

Lab Sample ID: 280-14517-A-2-B SD ^5
Client Matrix: Water
Dilution: 5.0
Analysis Date: 04/16/2011 0351
Prep Date: 04/15/2011 1530
Leach Date: N/A

Analysis Batch: 280-62706
Prep Batch: 280-62182
Leach Batch: N/A
Units: ug/L

Instrument ID: MT_024
Lab File ID: 188SDIL.D
Initial Weight/Volume: 50 mL
Final Weight/Volume: 50 mL

Analyte	Sample Result/Qual	Result	%Diff	Limit	Qual
Uranium	10	10.6	2.8	10	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method Blank - Batch: 280-62259

Method: 300.0

Preparation: N/A

Lab Sample ID:	MB 280-62259/6	Analysis Batch:	280-62259	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	115.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/13/2011 1339	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Nitrate as N	ND		0.50
Nitrite as N	ND		0.50

Method Reporting Limit Check - Batch: 280-62259

Method: 300.0

Preparation: N/A

Lab Sample ID:	MRL 280-62259/3	Analysis Batch:	280-62259	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/13/2011 1252	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Nitrate as N	0.200	ND	96	50 - 150	
Nitrite as N	0.200	ND	94	50 - 150	

Lab Control Sample/

Method: 300.0

Lab Control Sample Duplicate Recovery Report - Batch: 280-62259

Preparation: N/A

LCS Lab Sample ID:	LCS 280-62259/4	Analysis Batch:	280-62259	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/13/2011 1307	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-62259/5	Analysis Batch:	280-62259	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/13/2011 1323	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Nitrate as N	101	101	90 - 110	0	10		
Nitrite as N	100	100	90 - 110	0	10		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-14533-1

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-62259

Method: 300.0
Preparation: N/A

LCS Lab Sample ID: LCS 280-62259/4 Units: mg/L
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/13/2011 1307
Prep Date: N/A
Leach Date: N/A

LCSD Lab Sample ID: LCSD 280-62259/5
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/13/2011 1323
Prep Date: N/A
Leach Date: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Nitrate as N	5.00	5.00	5.05	5.04
Nitrite as N	5.00	5.00	5.02	5.00

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-62259

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 280-14518-Z-3 MS
Client Matrix: Water
Dilution: 50
Analysis Date: 04/13/2011 1505
Prep Date: N/A
Leach Date: N/A

Instrument ID: WC_IC7
Lab File ID: 120.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-14518-Z-3 MSD
Client Matrix: Water
Dilution: 50
Analysis Date: 04/13/2011 1521
Prep Date: N/A
Leach Date: N/A

Instrument ID: WC_IC7
Lab File ID: 121.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Nitrate as N	103	104	80 - 120	1	20		
Nitrite as N	115	114	80 - 120	1	20		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-62259

Method: 300.0
Preparation: N/A

MS Lab Sample ID: 280-14518-Z-3 MS Units: mg/L
Client Matrix: Water
Dilution: 50
Analysis Date: 04/13/2011 1505
Prep Date: N/A
Leach Date: N/A

MSD Lab Sample ID: 280-14518-Z-3 MSD
Client Matrix: Water
Dilution: 50
Analysis Date: 04/13/2011 1521
Prep Date: N/A
Leach Date: N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Nitrate as N	ND	250	250	264	267
Nitrite as N	ND	250	250	286	285

Duplicate - Batch: 280-62259

Method: 300.0
Preparation: N/A

Lab Sample ID: 280-14518-Z-3 DU
Client Matrix: Water
Dilution: 50
Analysis Date: 04/13/2011 1449
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 280-62259
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: WC_IC7
Lab File ID: 119.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Nitrate as N	ND	ND	NC	15	
Nitrite as N	ND	ND	NC	15	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method Blank - Batch: 280-62260

Method: 300.0

Preparation: N/A

Lab Sample ID:	MB 280-62260/6	Analysis Batch:	280-62260	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	115.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/13/2011 1339	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Bromide	ND		0.20
Chloride	ND		3.0
Fluoride	ND		0.50
Sulfate	ND		5.0

Method Reporting Limit Check - Batch: 280-62260

Method: 300.0

Preparation: N/A

Lab Sample ID:	MRL 280-62260/3	Analysis Batch:	280-62260	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	112.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/13/2011 1252	Units:	mg/L	Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Bromide	0.200	ND	97	50 - 150	
Chloride	1.00	ND	98	50 - 150	
Fluoride	0.200	ND	90	50 - 150	
Sulfate	1.00	ND	93	50 - 150	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-14533-1

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-62260

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-62260/4	Analysis Batch:	280-62260	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	113.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/13/2011 1307	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-62260/5	Analysis Batch:	280-62260	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	114.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/13/2011 1323	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Bromide	100	100	90 - 110	0	10		
Chloride	100	99	90 - 110	1	10		
Fluoride	105	105	90 - 110	0	10		
Sulfate	102	101	90 - 110	0	10		

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-62260

Method: 300.0
Preparation: N/A

LCS Lab Sample ID:	LCS 280-62260/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-62260/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/13/2011 1307			Analysis Date:	04/13/2011 1323
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Bromide	5.00	5.00	5.01	5.00
Chloride	25.0	25.0	25.0	24.8
Fluoride	5.00	5.00	5.25	5.25
Sulfate	25.0	25.0	25.5	25.4

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-62260

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-14518-Z-3 MS	Analysis Batch:	280-62260	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	142.TXT
Dilution:	2000	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/13/2011 2124			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

MSD Lab Sample ID:	280-14518-Z-3 MSD	Analysis Batch:	280-62260	Instrument ID:	WC_IC7
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	143.TXT
Dilution:	2000	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/13/2011 2140			Final Weight/Volume:	5 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Bromide	101	102	80 - 120	1	20		
Chloride	101	102	80 - 120	1	20	E	E
Fluoride	105	107	80 - 120	1	20		
Sulfate	106	106	80 - 120	1	20		

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-62260

Method: 300.0
Preparation: N/A

MS Lab Sample ID:	280-14518-Z-3 MS	Units:	mg/L	MSD Lab Sample ID:	280-14518-Z-3 MSD
Client Matrix:	Water			Client Matrix:	Water
Dilution:	2000			Dilution:	2000
Analysis Date:	04/13/2011 2124			Analysis Date:	04/13/2011 2140
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS		MSD	
				Result/Qual		Result/Qual	
Bromide	ND	10000	10000	10400		10400	
Chloride	55000	50000	50000	106000	E	106000	E
Fluoride	ND	10000	10000	10500		10700	
Sulfate	ND	50000	50000	55600		56000	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Duplicate - Batch: 280-62260

Method: 300.0
Preparation: N/A

Lab Sample ID: 280-14518-Z-3 DU
Client Matrix: Water
Dilution: 2000
Analysis Date: 04/13/2011 2108
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 280-62260
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: WC_IC7
Lab File ID: 141.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Bromide	ND	ND	NC	15	
Chloride	55000	54900	0.2	15	
Fluoride	ND	ND	NC	15	
Sulfate	ND	ND	NC	15	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method Blank - Batch: 280-63668

Method: SM 1030F

Preparation: N/A

Lab Sample ID:	MB 280-63668/1	Analysis Batch:	280-63668	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/22/2011 1210	Units:	%	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	NONE
Percent Difference	NC		
Anion/Cation Balance	NC		

Method Blank - Batch: 280-63668

Method: SM 1030F

Preparation: N/A

Lab Sample ID:	MB 280-63668/1	Analysis Batch:	280-63668	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/22/2011 1210	Units:	meq/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	NONE
Total Anions	0.000		
Total Cations	0.000		

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-14533-1

Method Blank - Batch: 280-63141

Method: SM 2320B

Preparation: N/A

Lab Sample ID:	MB 280-63141/6	Analysis Batch:	280-63141	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041911b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/19/2011 1318	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Total Alkalinity	ND		5.0
Bicarbonate Alkalinity as CaCO3	ND		5.0
Carbonate Alkalinity as CaCO3	ND		5.0

Lab Control Sample/

Method: SM 2320B

Lab Control Sample Duplicate Recovery Report - Batch: 280-63141

Preparation: N/A

LCS Lab Sample ID:	LCS 280-63141/4	Analysis Batch:	280-63141	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041911b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/19/2011 1301	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-63141/5	Analysis Batch:	280-63141	Instrument ID:	WC_AT2
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041911b.TXT
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	1.0 mL
Analysis Date:	04/19/2011 1310	Units:	mg/L	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Alkalinity	102	103	90 - 110	1	10		

Laboratory Control/

Method: SM 2320B

Laboratory Duplicate Data Report - Batch: 280-63141

Preparation: N/A

LCS Lab Sample ID:	LCS 280-63141/4	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-63141/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/19/2011 1301			Analysis Date:	04/19/2011 1310
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Alkalinity	200	200	204	205

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Duplicate - Batch: 280-63141

Method: SM 2320B

Preparation: N/A

Lab Sample ID: 280-14473-F-1 DU
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/19/2011 1416
Prep Date: N/A
Leach Date: N/A

Analysis Batch: 280-63141
Prep Batch: N/A
Leach Batch: N/A
Units: mg/L

Instrument ID: WC_AT2
Lab File ID: 041911b.TXT
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Alkalinity	350	348	0.6	10	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method Blank - Batch: 280-63039

Method: SM 2510B

Preparation: N/A

Lab Sample ID:	MB 280-63039/5	Analysis Batch:	280-63039	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/19/2011 1720	Units:	umhos/cm	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Specific Conductance	ND		2.0

Lab Control Sample/

Method: SM 2510B

Lab Control Sample Duplicate Recovery Report - Batch: 280-63039

Preparation: N/A

LCS Lab Sample ID:	LCS 280-63039/3	Analysis Batch:	280-63039	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/19/2011 1720	Units:	umhos/cm	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-63039/4	Analysis Batch:	280-63039	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/19/2011 1720	Units:	umhos/cm	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Specific Conductance	103	103	90 - 110	0	10		

Laboratory Control/

Method: SM 2510B

Laboratory Duplicate Data Report - Batch: 280-63039

Preparation: N/A

LCS Lab Sample ID:	LCS 280-63039/3	Units:	umhos/cm	LCSD Lab Sample ID:	LCSD 280-63039/4
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/19/2011 1720			Analysis Date:	04/19/2011 1720
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Specific Conductance	1410	1410	1450	1450

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Duplicate - Batch: 280-63039

Method: SM 2510B

Preparation: N/A

Lab Sample ID:	280-14519-M-19 DU	Analysis Batch:	280-63039	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/19/2011 1720	Units:	umhos/cm	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance	1300	1340	0.2	10	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Method Blank - Batch: 280-62897

Method: SM 2540C

Preparation: N/A

Lab Sample ID:	MB 280-62897/1	Analysis Batch:	280-62897	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	04/19/2011 0737	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Result	Qual	RL
Total Dissolved Solids	ND		10

Lab Control Sample/

Method: SM 2540C

Lab Control Sample Duplicate Recovery Report - Batch: 280-62897

Preparation: N/A

LCS Lab Sample ID:	LCS 280-62897/2	Analysis Batch:	280-62897	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	04/19/2011 0737	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-62897/3	Analysis Batch:	280-62897	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	04/19/2011 0737	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Total Dissolved Solids	100	99	86 - 110	1	20		

Laboratory Control/

Method: SM 2540C

Laboratory Duplicate Data Report - Batch: 280-62897

Preparation: N/A

LCS Lab Sample ID:	LCS 280-62897/2	Units:	mg/L	LCSD Lab Sample ID:	LCSD 280-62897/3
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/19/2011 0737			Analysis Date:	04/19/2011 0737
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Total Dissolved Solids	500	500	499	495

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Duplicate - Batch: 280-62897

Method: SM 2540C

Preparation: N/A

Lab Sample ID:	280-14533-1	Analysis Batch:	280-62897	Instrument ID:	No Equipment
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	N/A
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	100 mL
Analysis Date:	04/19/2011 0737	Units:	mg/L	Final Weight/Volume:	100 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Total Dissolved Solids	460	457	0.2	10	

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-14533-1

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-62100

Method: SM 4500 H+ B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-62100/4	Analysis Batch:	280-62100	Instrument ID:	WC_pH Probe
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041311.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/13/2011 1003	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

LCSD Lab Sample ID:	LCSD 280-62100/5	Analysis Batch:	280-62100	Instrument ID:	WC_pH Probe
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041311.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/13/2011 1004	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
pH	100	100	99 - 101	0	5		

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-62100

Method: SM 4500 H+ B
Preparation: N/A

LCS Lab Sample ID:	LCS 280-62100/4	Units:	SU	LCSD Lab Sample ID:	LCSD 280-62100/5
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/13/2011 1003			Analysis Date:	04/13/2011 1004
Prep Date:	N/A			Prep Date:	N/A
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
pH	7.00	7.00	7.030	7.020

Duplicate - Batch: 280-62100

Method: SM 4500 H+ B
Preparation: N/A

Lab Sample ID:	280-14514-B-1 DU	Analysis Batch:	280-62100	Instrument ID:	WC_pH Probe
Client Matrix:	Water	Prep Batch:	N/A	Lab File ID:	041311.txt
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	
Analysis Date:	04/13/2011 1230	Units:	SU	Final Weight/Volume:	1.0 mL
Prep Date:	N/A				
Leach Date:	N/A				

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH	8.30	8.290	0.1	5	HF

DATA REPORTING QUALIFIERS

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Lab Section	Qualifier	Description
General Chemistry		
	HF	Field parameter with a holding time of 15 minutes
	E	Result exceeded calibration range.

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-14533-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-62873					
LCS 280-62873/4	Lab Control Sample	T	Water	8260B	
MB 280-62873/5	Method Blank	T	Water	8260B	
280-14519-AT-1 MS	Matrix Spike	T	Water	8260B	
280-14519-AT-1 MSD	Matrix Spike Duplicate	T	Water	8260B	
280-14533-1	BURKHART-WW-2	T	Water	8260B	
280-14533-2TB	TRIP BLANK	T	Water	8260B	

Report Basis

T = Total

GC VOA

Analysis Batch:280-62320					
LCS 280-62320/3	Lab Control Sample	T	Water	8015B	
LCSD 280-62320/4	Lab Control Sample Duplicate	T	Water	8015B	
MB 280-62320/5	Method Blank	T	Water	8015B	
280-14395-AD-1 MSD	Matrix Spike Duplicate	T	Water	8015B	
280-14533-1	BURKHART-WW-2	T	Water	8015B	
Analysis Batch:280-63215					
LCS 280-63215/2	Lab Control Sample	T	Water	RSK-175	
LCSD 280-63215/3	Lab Control Sample Duplicate	T	Water	RSK-175	
MB 280-63215/4	Method Blank	T	Water	RSK-175	
280-14533-1	BURKHART-WW-2	T	Water	RSK-175	

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-62290					
LCS 280-62290/2-A	Lab Control Sample	T	Water	3510C	
LCSD 280-62290/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 280-62290/1-A	Method Blank	T	Water	3510C	
280-14533-1	BURKHART-WW-2	T	Water	3510C	
Analysis Batch:280-62977					
LCS 280-62290/2-A	Lab Control Sample	T	Water	8015B	280-62290
LCSD 280-62290/3-A	Lab Control Sample Duplicate	T	Water	8015B	280-62290
MB 280-62290/1-A	Method Blank	T	Water	8015B	280-62290
280-14533-1	BURKHART-WW-2	T	Water	8015B	280-62290

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commission

Job Number: 280-14533-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-62180					
LCS 280-62180/2-A	Lab Control Sample	T	Water	3010A	
MB 280-62180/1-A	Method Blank	T	Water	3010A	
280-14533-1	BURKHART-WW-2	T	Water	3010A	
280-14542-C-1-B MS	Matrix Spike	T	Water	3010A	
280-14542-C-1-C MSD	Matrix Spike Duplicate	T	Water	3010A	
Prep Batch: 280-62182					
LCS 280-62182/2-A	Lab Control Sample	T	Water	3020A	
MB 280-62182/1-A	Method Blank	T	Water	3020A	
280-14517-A-2-C MS	Matrix Spike	T	Water	3020A	
280-14517-A-2-D MSD	Matrix Spike Duplicate	T	Water	3020A	
280-14533-1	BURKHART-WW-2	T	Water	3020A	
Analysis Batch:280-62687					
LCS 280-62180/2-A	Lab Control Sample	T	Water	6010B	280-62180
MB 280-62180/1-A	Method Blank	T	Water	6010B	280-62180
280-14533-1	BURKHART-WW-2	T	Water	6010B	280-62180
280-14542-C-1-B MS	Matrix Spike	T	Water	6010B	280-62180
280-14542-C-1-C MSD	Matrix Spike Duplicate	T	Water	6010B	280-62180
Analysis Batch:280-62706					
LCS 280-62182/2-A	Lab Control Sample	T	Water	6020	280-62182
MB 280-62182/1-A	Method Blank	T	Water	6020	280-62182
280-14517-A-2-C MS	Matrix Spike	T	Water	6020	280-62182
280-14517-A-2-D MSD	Matrix Spike Duplicate	T	Water	6020	280-62182
280-14533-1	BURKHART-WW-2	T	Water	6020	280-62182
Analysis Batch:280-63434					
MB 280-63434/1	Method Blank	T	Water	20B	
280-14533-1	BURKHART-WW-2	T	Water	20B	

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-62100					
LCS 280-62100/4	Lab Control Sample	T	Water	SM 4500 H+ B	
LCSD 280-62100/5	Lab Control Sample Duplicate	T	Water	SM 4500 H+ B	
280-14514-B-1 DU	Duplicate	T	Water	SM 4500 H+ B	
280-14533-1	BURKHART-WW-2	T	Water	SM 4500 H+ B	
Analysis Batch:280-62259					
LCS 280-62259/4	Lab Control Sample	T	Water	300.0	
LCSD 280-62259/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-62259/6	Method Blank	T	Water	300.0	
280-14518-Z-3 DU	Duplicate	T	Water	300.0	
280-14518-Z-3 MS	Matrix Spike	T	Water	300.0	
280-14518-Z-3 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-14533-1	BURKHART-WW-2	T	Water	300.0	
Analysis Batch:280-62260					
LCS 280-62260/4	Lab Control Sample	T	Water	300.0	
LCSD 280-62260/5	Lab Control Sample Duplicate	T	Water	300.0	
MB 280-62260/6	Method Blank	T	Water	300.0	
280-14518-Z-3 DU	Duplicate	T	Water	300.0	
280-14518-Z-3 MS	Matrix Spike	T	Water	300.0	
280-14518-Z-3 MSD	Matrix Spike Duplicate	T	Water	300.0	
280-14533-1	BURKHART-WW-2	T	Water	300.0	
Analysis Batch:280-62897					
LCS 280-62897/2	Lab Control Sample	T	Water	SM 2540C	
LCSD 280-62897/3	Lab Control Sample Duplicate	T	Water	SM 2540C	
MB 280-62897/1	Method Blank	T	Water	SM 2540C	
280-14533-1	BURKHART-WW-2	T	Water	SM 2540C	
280-14533-1DU	Duplicate	T	Water	SM 2540C	
Analysis Batch:280-63039					
LCS 280-63039/3	Lab Control Sample	T	Water	SM 2510B	
LCSD 280-63039/4	Lab Control Sample Duplicate	T	Water	SM 2510B	
MB 280-63039/5	Method Blank	T	Water	SM 2510B	
280-14519-M-19 DU	Duplicate	T	Water	SM 2510B	
280-14533-1	BURKHART-WW-2	T	Water	SM 2510B	
Analysis Batch:280-63141					
LCS 280-63141/4	Lab Control Sample	T	Water	SM 2320B	
LCSD 280-63141/5	Lab Control Sample Duplicate	T	Water	SM 2320B	
MB 280-63141/6	Method Blank	T	Water	SM 2320B	
280-14473-F-1 DU	Duplicate	T	Water	SM 2320B	
280-14533-1	BURKHART-WW-2	T	Water	SM 2320B	

TestAmerica Denver

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:280-63668					
MB 280-63668/1	Method Blank	T	Water	SM 1030F	
280-14533-1	BURKHART-WW-2	T	Water	SM 1030F	

Report Basis

T = Total

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Laboratory Chronicle

Lab ID: 280-14533-1

Client ID: BURKHART-WW-2

Sample Date/Time: 04/13/2011 09:40

Received Date/Time: 04/13/2011 13:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-14533-K-1		280-62873		04/19/2011 02:43	1	TAL DEN	JLS
A:8260B	280-14533-K-1		280-62873		04/19/2011 02:43	1	TAL DEN	JLS
P:5030B	280-14533-N-1		280-62320		04/15/2011 00:53	1	TAL DEN	TEM
A:8015B	280-14533-N-1		280-62320		04/15/2011 00:53	1	TAL DEN	TEM
A:RSK-175	280-14533-H-1		280-63215		04/19/2011 19:07	1	TAL DEN	MPS
P:3510C	280-14533-D-1-A		280-62977	280-62290	04/14/2011 17:37	1	TAL DEN	JJW
A:8015B	280-14533-D-1-A		280-62977	280-62290	04/18/2011 22:07	1	TAL DEN	MRB
A:20B	280-14533-F-1		280-63434		04/21/2011 14:06	1	TAL DEN	JKH
P:3010A	280-14533-F-1-A		280-62687	280-62180	04/15/2011 07:30	1	TAL DEN	KMN
A:6010B	280-14533-F-1-A		280-62687	280-62180	04/15/2011 13:48	1	TAL DEN	JKH
P:3020A	280-14533-F-1-B		280-62706	280-62182	04/15/2011 15:30	1	TAL DEN	JM
A:6020	280-14533-F-1-B		280-62706	280-62182	04/16/2011 03:46	1	TAL DEN	TEL
A:300.0	280-14533-A-1		280-62259		04/13/2011 19:18	1	TAL DEN	EK
A:300.0	280-14533-A-1		280-62260		04/13/2011 19:18	1	TAL DEN	EK
A:300.0	280-14533-A-1		280-62260		04/13/2011 22:59	5	TAL DEN	EK
A:SM 1030F	280-14533-A-1		280-63668		04/22/2011 12:10	1	TAL DEN	RS
A:SM 2320B	280-14533-B-1		280-63141		04/19/2011 16:24	1	TAL DEN	SJS
A:SM 2510B	280-14533-B-1		280-63039		04/19/2011 17:20	1	TAL DEN	PMP
A:SM 2540C	280-14533-A-1		280-62897		04/19/2011 07:37	1	TAL DEN	BJD
A:SM 4500 H+ B	280-14533-A-1		280-62100		04/13/2011 15:36	1	TAL DEN	JMT

Lab ID: 280-14533-1 DU

Client ID: BURKHART-WW-2

Sample Date/Time: 04/13/2011 09:40

Received Date/Time: 04/13/2011 13:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:SM 2540C	280-14533-A-1 DU		280-62897		04/19/2011 07:37	1	TAL DEN	BJD

Lab ID: 280-14533-2

Client ID: TRIP BLANK

Sample Date/Time: 04/13/2011 09:40

Received Date/Time: 04/13/2011 13:05

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-14533-A-2		280-62873		04/19/2011 03:03	1	TAL DEN	JLS
A:8260B	280-14533-A-2		280-62873		04/19/2011 03:03	1	TAL DEN	JLS

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-62873/5		280-62873		04/18/2011 20:12	1	TAL DEN	JLS
A:8260B	MB 280-62873/5		280-62873		04/18/2011 20:12	1	TAL DEN	JLS
P:5030B	MB 280-62320/5		280-62320		04/14/2011 13:23	1	TAL DEN	TEM
A:8015B	MB 280-62320/5		280-62320		04/14/2011 13:23	1	TAL DEN	TEM
A:RSK-175	MB 280-63215/4		280-63215		04/19/2011 16:21	1	TAL DEN	MPS
P:3510C	MB 280-62290/1-A		280-62977	280-62290	04/14/2011 17:37	1	TAL DEN	JJW
A:8015B	MB 280-62290/1-A		280-62977	280-62290	04/18/2011 19:21	1	TAL DEN	MRB
A:20B	MB 280-63434/1		280-63434		04/21/2011 14:06	1	TAL DEN	JKH
P:3010A	MB 280-62180/1-A		280-62687	280-62180	04/15/2011 07:30	1	TAL DEN	KMN
A:6010B	MB 280-62180/1-A		280-62687	280-62180	04/15/2011 13:44	1	TAL DEN	JKH
P:3020A	MB 280-62182/1-A		280-62706	280-62182	04/15/2011 15:30	1	TAL DEN	JM
A:6020	MB 280-62182/1-A		280-62706	280-62182	04/16/2011 03:40	1	TAL DEN	TEL
A:300.0	MB 280-62259/6		280-62259		04/13/2011 13:39	1	TAL DEN	EK
A:300.0	MB 280-62260/6		280-62260		04/13/2011 13:39	1	TAL DEN	EK
A:SM 1030F	MB 280-63668/1		280-63668		04/22/2011 12:10	1	TAL DEN	RS
A:SM 2320B	MB 280-63141/6		280-63141		04/19/2011 13:18	1	TAL DEN	SJS
A:SM 2510B	MB 280-63039/5		280-63039		04/19/2011 17:20	1	TAL DEN	PMP
A:SM 2540C	MB 280-62897/1		280-62897		04/19/2011 07:37	1	TAL DEN	BJD

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-62873/4		280-62873		04/18/2011 19:51	1	TAL DEN	JLS
A:8260B	LCS 280-62873/4		280-62873		04/18/2011 19:51	1	TAL DEN	JLS
P:5030B	LCS 280-62320/3		280-62320		04/14/2011 12:18	1	TAL DEN	TEM
A:8015B	LCS 280-62320/3		280-62320		04/14/2011 12:18	1	TAL DEN	TEM
A:RSK-175	LCS 280-63215/2		280-63215		04/19/2011 16:13	1	TAL DEN	MPS
P:3510C	LCS 280-62290/2-A		280-62977	280-62290	04/14/2011 17:37	1	TAL DEN	JJW
A:8015B	LCS 280-62290/2-A		280-62977	280-62290	04/18/2011 19:54	1	TAL DEN	MRB
P:3010A	LCS 280-62180/2-A		280-62687	280-62180	04/15/2011 07:30	1	TAL DEN	KMN
A:6010B	LCS 280-62180/2-A		280-62687	280-62180	04/15/2011 13:46	1	TAL DEN	JKH
P:3020A	LCS 280-62182/2-A		280-62706	280-62182	04/15/2011 15:30	1	TAL DEN	JM
A:6020	LCS 280-62182/2-A		280-62706	280-62182	04/16/2011 03:43	1	TAL DEN	TEL
A:300.0	LCS 280-62259/4		280-62259		04/13/2011 13:07	1	TAL DEN	EK
A:300.0	LCS 280-62260/4		280-62260		04/13/2011 13:07	1	TAL DEN	EK
A:SM 2320B	LCS 280-63141/4		280-63141		04/19/2011 13:01	1	TAL DEN	SJS
A:SM 2510B	LCS 280-63039/3		280-63039		04/19/2011 17:20	1	TAL DEN	PMP
A:SM 2540C	LCS 280-62897/2		280-62897		04/19/2011 07:37	1	TAL DEN	BJD
A:SM 4500 H+ B	LCS 280-62100/4		280-62100		04/13/2011 10:03	1	TAL DEN	JMT

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Laboratory Chronicle

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-62320/4		280-62320		04/14/2011 12:51	1	TAL DEN	TEM
A:8015B	LCSD 280-62320/4		280-62320		04/14/2011 12:51	1	TAL DEN	TEM
A:RSK-175	LCSD 280-63215/3		280-63215		04/19/2011 16:17	1	TAL DEN	MPS
P:3510C	LCSD 280-62290/3-A		280-62977	280-62290	04/14/2011 17:37	1	TAL DEN	JJW
A:8015B	LCSD 280-62290/3-A		280-62977	280-62290	04/18/2011 20:27	1	TAL DEN	MRB
A:300.0	LCSD 280-62259/5		280-62259		04/13/2011 13:23	1	TAL DEN	EK
A:300.0	LCSD 280-62260/5		280-62260		04/13/2011 13:23	1	TAL DEN	EK
A:SM 2320B	LCSD 280-63141/5		280-63141		04/19/2011 13:10	1	TAL DEN	SJS
A:SM 2510B	LCSD 280-63039/4		280-63039		04/19/2011 17:20	1	TAL DEN	PMP
A:SM 2540C	LCSD 280-62897/3		280-62897		04/19/2011 07:37	1	TAL DEN	BJD
A:SM 4500 H+ B	LCSD 280-62100/5		280-62100		04/13/2011 10:04	1	TAL DEN	JMT

Lab ID: MRL

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	MRL 280-62259/3		280-62259		04/13/2011 12:52	1	TAL DEN	EK
A:300.0	MRL 280-62260/3		280-62260		04/13/2011 12:52	1	TAL DEN	EK

Lab ID: MS

Client ID: N/A

Sample Date/Time: 04/12/2011 09:05

Received Date/Time: 04/13/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-14519-AT-1 MS		280-62873		04/18/2011 21:19	1	TAL DEN	JLS
A:8260B	280-14519-AT-1 MS		280-62873		04/18/2011 21:19	1	TAL DEN	JLS
P:3010A	280-14542-C-1-B MS		280-62687	280-62180	04/15/2011 07:30	1	TAL DEN	KMN
A:6010B	280-14542-C-1-B MS		280-62687	280-62180	04/15/2011 14:16	1	TAL DEN	JKH
P:3020A	280-14517-A-2-C MS		280-62706	280-62182	04/15/2011 15:30	1	TAL DEN	JM
A:6020	280-14517-A-2-C MS		280-62706	280-62182	04/16/2011 04:02	1	TAL DEN	TEL
A:300.0	280-14518-Z-3 MS		280-62259		04/13/2011 15:05	50	TAL DEN	EK
A:300.0	280-14518-Z-3 MS		280-62260		04/13/2011 21:24	2000	TAL DEN	EK

Quality Control Results

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Laboratory Chronicle

Lab ID: MSD

Client ID: N/A

Sample Date/Time: 04/12/2011 09:05

Received Date/Time: 04/13/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-14519-AT-1 MSD		280-62873		04/18/2011 21:39	1	TAL DEN	JLS
A:8260B	280-14519-AT-1 MSD		280-62873		04/18/2011 21:39	1	TAL DEN	JLS
P:5030B	280-14395-AD-1 MSD		280-62320		04/14/2011 22:11	1	TAL DEN	TEM
A:8015B	280-14395-AD-1 MSD		280-62320		04/14/2011 22:11	1	TAL DEN	TEM
P:3010A	280-14542-C-1-C MSD		280-62687	280-62180	04/15/2011 07:30	1	TAL DEN	KMN
A:6010B	280-14542-C-1-C MSD		280-62687	280-62180	04/15/2011 14:18	1	TAL DEN	JKH
P:3020A	280-14517-A-2-D MSD		280-62706	280-62182	04/15/2011 15:30	1	TAL DEN	JM
A:6020	280-14517-A-2-D MSD		280-62706	280-62182	04/16/2011 04:05	1	TAL DEN	TEL
A:300.0	280-14518-Z-3 MSD		280-62259		04/13/2011 15:21	50	TAL DEN	EK
A:300.0	280-14518-Z-3 MSD		280-62260		04/13/2011 21:40	2000	TAL DEN	EK

Lab ID: DU

Client ID: N/A

Sample Date/Time: 04/12/2011 02:15

Received Date/Time: 04/13/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:300.0	280-14518-Z-3 DU		280-62259		04/13/2011 14:49	50	TAL DEN	EK
A:300.0	280-14518-Z-3 DU		280-62260		04/13/2011 21:08	2000	TAL DEN	EK
A:SM 2320B	280-14473-F-1 DU		280-63141		04/19/2011 14:16	1	TAL DEN	SJS
A:SM 2510B	280-14519-M-19 DU		280-63039		04/19/2011 17:20	1	TAL DEN	PMP
A:SM 4500 H+ B	280-14514-B-1 DU		280-62100		04/13/2011 12:30	1	TAL DEN	JMT

Lab ID: SD

Client ID: N/A

Sample Date/Time: 04/12/2011 09:15

Received Date/Time: 04/13/2011 09:30

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3010A	280-14542-C-1-A SD ^5		280-62687	280-62180	04/15/2011 07:30	5	TAL DEN	KMN
A:6010B	280-14542-C-1-A SD ^5		280-62687	280-62180	04/15/2011 14:13	5	TAL DEN	JKH
P:3020A	280-14517-A-2-B SD ^5		280-62706	280-62182	04/15/2011 15:30	5	TAL DEN	JM
A:6020	280-14517-A-2-B SD ^5		280-62706	280-62182	04/16/2011 03:51	5	TAL DEN	TEL
P:3020A	280-14517-A-2-B PDS		280-62706	280-62182	04/15/2011 15:30	1	TAL DEN	JM
A:6020	280-14517-A-2-B PDS		280-62706	280-62182	04/16/2011 03:54	1	TAL DEN	TEL

Lab References:

TAL DEN = TestAmerica Denver

Certification Summary

Client: Colorado Oil&Gas Conservation Commission
Project/Site: Burkhart # 200300876

TestAmerica Job ID: 280-14533-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Denver		USDA		P330-08-00036
TestAmerica Denver	A2LA	DoD ELAP	0	2907.01
TestAmerica Denver	A2LA	ISO/IEC 17025	0	2907.01
TestAmerica Denver	Alabama	State Program	4	
TestAmerica Denver	Alaska	Alaska UST	10	UST-30
TestAmerica Denver	Arizona	State Program	9	AZ0713
TestAmerica Denver	Arkansas	State Program	6	88-0687
TestAmerica Denver	California	State Program	9	2513
TestAmerica Denver	Colorado	State Program	8	N/A
TestAmerica Denver	Connecticut	State Program	1	PH-0686
TestAmerica Denver	Florida	NELAC	4	E87667
TestAmerica Denver	Georgia	State Program	4	N/A
TestAmerica Denver	Idaho	State Program	10	CO00026
TestAmerica Denver	Illinois	NELAC	5	200017
TestAmerica Denver	Iowa	State Program	7	370
TestAmerica Denver	Kansas	NELAC	7	E-10166
TestAmerica Denver	Louisiana	NELAC	6	30785
TestAmerica Denver	Maine	State Program	1	CO0002
TestAmerica Denver	Maryland	State Program	3	268
TestAmerica Denver	Minnesota	NELAC	5	8-999-405
TestAmerica Denver	Nevada	State Program	9	CO0026
TestAmerica Denver	New Hampshire	NELAC	1	205310
TestAmerica Denver	New Jersey	NELAC	2	CO004
TestAmerica Denver	New Mexico	State Program	6	N/A
TestAmerica Denver	New York	NELAC	2	11964
TestAmerica Denver	North Carolina	North Carolina DENR	4	358
TestAmerica Denver	North Dakota	State Program	8	R-034
TestAmerica Denver	Oklahoma	State Program	6	8614
TestAmerica Denver	Oregon	NELAC	10	CO200001
TestAmerica Denver	Pennsylvania	NELAC	3	68-00664
TestAmerica Denver	South Carolina	State Program	4	72002
TestAmerica Denver	Tennessee	State Program	4	TN02944
TestAmerica Denver	Texas	NELAC	6	T104704183-08-TX
TestAmerica Denver	Utah	NELAC	8	QUAN5
TestAmerica Denver	Washington	State Program	10	C1284
TestAmerica Denver	West Virginia	West Virginia DEP	3	354
TestAmerica Denver	Wisconsin	State Program	5	999615430

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260B

Volatile Organic Compounds (GC/MS)
by Method 8260B

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-14533-1
 SDG No.: _____
 Client Sample ID: BURKHART-WW-2 Lab Sample ID: 280-14533-1
 Matrix: Water Lab File ID: ms3406.D
 Analysis Method: 8260B Date Collected: 04/13/2011 09:40
 Sample wt/vol: 20 (mL) Date Analyzed: 04/19/2011 02:43
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 62873 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.16
100-41-4	Ethylbenzene	ND		1.0	0.16
108-88-3	Toluene	ND		1.0	0.17
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.34
95-47-6	o-Xylene	ND		1.0	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	109		70-127
2037-26-5	Toluene-d8 (Surr)	99		80-125
460-00-4	4-Bromofluorobenzene (Surr)	101		78-120
1868-53-7	Dibromofluoromethane (Surr)	107		77-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\041811P.b\ms3406.D
 Lab Smp Id: 280-14533-K-1 Client Smp ID: BURKHART-WW-2
 Inj Date : 19-APR-2011 02:43
 Operator : stappj Inst ID: GCMS1.i
 Smp Info : 280-14533-k-1,,PH<2
 Misc Info : 280-14533-K-1
 Comment :
 Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\041811P.b\8260B-H2O.m
 Meth Date : 18-Apr-2011 20:01 stappj Quant Type: ISTD
 Cal Date : 16-APR-2011 00:44 Cal File: ms3302.D
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: TALS.sub
 Target Version: 4.14
 Processing Host: DENPC346

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

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====
* 69 Fluorobenzene	96	8.354	8.354 (1.000)		2226281	12.5000	
* 95 Chlorobenzene-d5	119	10.602	10.602 (1.000)		540195	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.544	12.543 (1.000)		749287	12.5000	
\$ 58 Dibromofluoromethane (Surr)	111	7.809	7.809 (0.935)		554854	11.9871	11.9871
\$ 64 1,2-Dichloroethane-d4	65	8.102	8.102 (0.970)		447947	12.3159	12.3159
\$ 83 Toluene-d8	98	9.499	9.499 (0.896)		2761824	11.1159	11.1159
\$ 106 4-Bromofluorobenzene (Surr)	95	11.510	11.510 (0.918)		941415	11.3908	11.3908
M 1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M 2 Xylene (total)	106	Compound Not Detected.					
5 dichlorodifluoromethane	85	Compound Not Detected.					
6 1,2-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-trifluoroe	117	Compound Not Detected.					
17 Ethyl Ether	59	Compound Not Detected.					
16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

Compounds	QUANT	SIG					CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
18 Propylene Oxide	58					Compound Not Detected.		
19 Acrolein	56					Compound Not Detected.		
20 Acetone	43					Compound Not Detected.		
21 Trichlorotrifluoroethane	151					Compound Not Detected.		
22 2-propanol	45					Compound Not Detected.		
23 1,1-Dichloroethene	96					Compound Not Detected.		
27 Iodomethane	142					Compound Not Detected.		
26 Acetonitrile	41					Compound Not Detected.		
28 Methyl Acetate	43					Compound Not Detected.		
31 Carbon Disulfide	76					Compound Not Detected.		
29 Allyl Chloride	41					Compound Not Detected.		
30 tert-Butyl alcohol	59					Compound Not Detected.		
33 Methylene Chloride	84					Compound Not Detected.		
34 Acrylonitrile	53					Compound Not Detected.		
35 Methyl t-butyl ether	73					Compound Not Detected.		
36 trans-1,2-Dichloroethene	96					Compound Not Detected.		
40 Hexane	57					Compound Not Detected.		
42 Vinyl acetate	43					Compound Not Detected.		
43 Isopropyl ether	87					Compound Not Detected.		
44 1,1-Dichloroethane	63					Compound Not Detected.		
46 Chloroprene	53					Compound Not Detected.		
48 ETBE	59					Compound Not Detected.		
50 2-Butanone	43					Compound Not Detected.		
49 Ethyl Acetate	43					Compound Not Detected.		
52 cis-1,2-Dichloroethene	96					Compound Not Detected.		
51 Propionitrile	54					Compound Not Detected.		
53 2,2-Dichloropropane	77					Compound Not Detected.		
54 Methacrylonitrile	41					Compound Not Detected.		
55 Bromochloromethane	128					Compound Not Detected.		
56 Chloroform	83					Compound Not Detected.		
57 Tetrahydrofuran	42					Compound Not Detected.		
60 1,1,1-Trichloroethane	97					Compound Not Detected.		
59 Isobutanol	41					Compound Not Detected.		
61 Cyclohexane	56					Compound Not Detected.		
62 1,1-Dichloropropene	75					Compound Not Detected.		
63 Carbon Tetrachloride	117					Compound Not Detected.		
65 1,2-Dichloroethane	62					Compound Not Detected.		
67 Benzene	78					Compound Not Detected.		
66 TAME	73					Compound Not Detected.		
68 n-Butanol	56					Compound Not Detected.		
71 Trichloroethene	130					Compound Not Detected.		
72 2-Pentanone	43					Compound Not Detected.		
73 Methyl Methacrylate	100					Compound Not Detected.		
74 1,2-Dichloropropane	63					Compound Not Detected.		
75 Methyl Cyclohexane	55					Compound Not Detected.		
76 1,4-Dioxane	88					Compound Not Detected.		
77 Dibromomethane	93					Compound Not Detected.		
78 Bromodichloromethane	83					Compound Not Detected.		
79 2-nitropropane	41					Compound Not Detected.		
80 2-Chloroethyl vinyl ether	63					Compound Not Detected.		
81 cis-1,3-Dichloropropene	75					Compound Not Detected.		
82 4-Methyl-2-pentanone	43					Compound Not Detected.		
84 Toluene	91					Compound Not Detected.		
86 trans-1,3-Dichloropropene	75					Compound Not Detected.		

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	----	-----	-----	-----		-----	-----
85 Ethyl methacrylate	69				Compound Not Detected.			
87 1,1,2-Trichloroethane	97				Compound Not Detected.			
88 2-Hexanone	43				Compound Not Detected.			
89 1,3-Dichloropropane	76				Compound Not Detected.			
90 Tetrachloroethene	164				Compound Not Detected.			
91 Dibromochloromethane	129				Compound Not Detected.			
92 Tetrahydrothiophene	60				Compound Not Detected.			
93 1,2-Dibromoethane	107				Compound Not Detected.			
94 1-Chlorohexane	91				Compound Not Detected.			
96 Chlorobenzene	112				Compound Not Detected.			
97 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.			
98 Ethylbenzene	106				Compound Not Detected.			
99 m and p-Xylene	106				Compound Not Detected.			
101 o-Xylene	106				Compound Not Detected.			
100 Styrene	104				Compound Not Detected.			
102 Bromoform	173				Compound Not Detected.			
103 isopropyl benzene	105				Compound Not Detected.			
104 cis-1,4-dichloro-2-butene	53				Compound Not Detected.			
105 Cyclohexanone	55				Compound Not Detected.			
107 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.			
108 t-1,4-Dichloro-2-butene	53				Compound Not Detected.			
109 1,2,3-Trichloropropane	110				Compound Not Detected.			
111 Bromobenzene	156				Compound Not Detected.			
110 n-Propylbenzene	120				Compound Not Detected.			
113 2-Chlorotoluene	126				Compound Not Detected.			
112 1,3,5-Trimethylbenzene	105				Compound Not Detected.			
114 4-Chlorotoluene	126				Compound Not Detected.			
115 tert-Butylbenzene	119				Compound Not Detected.			
116 1,2,4-Trimethylbenzene	105				Compound Not Detected.			
118 sec-Butylbenzene	134				Compound Not Detected.			
119 4-Isopropyltoluene	119				Compound Not Detected.			
120 1,3-Dichlorobenzene	146				Compound Not Detected.			
122 1,4-dichlorobenzene	146				Compound Not Detected.			
123 1,2,3-Trimethylbenzene	105				Compound Not Detected.			
124 n-Butylbenzene	91				Compound Not Detected.			
126 1,2-Dichlorobenzene	146				Compound Not Detected.			
127 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.			
129 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
130 Hexachlorobutadiene	225				Compound Not Detected.			
131 Naphthalene	128				Compound Not Detected.			
132 1,2,3-Trichlorobenzene	180				Compound Not Detected.			
144 Dichloroacetonitrile tic	74				Compound Not Detected.			
145 2,3-Dichloro-1-propene tic	75				Compound Not Detected.			

Data File: ms3406.D

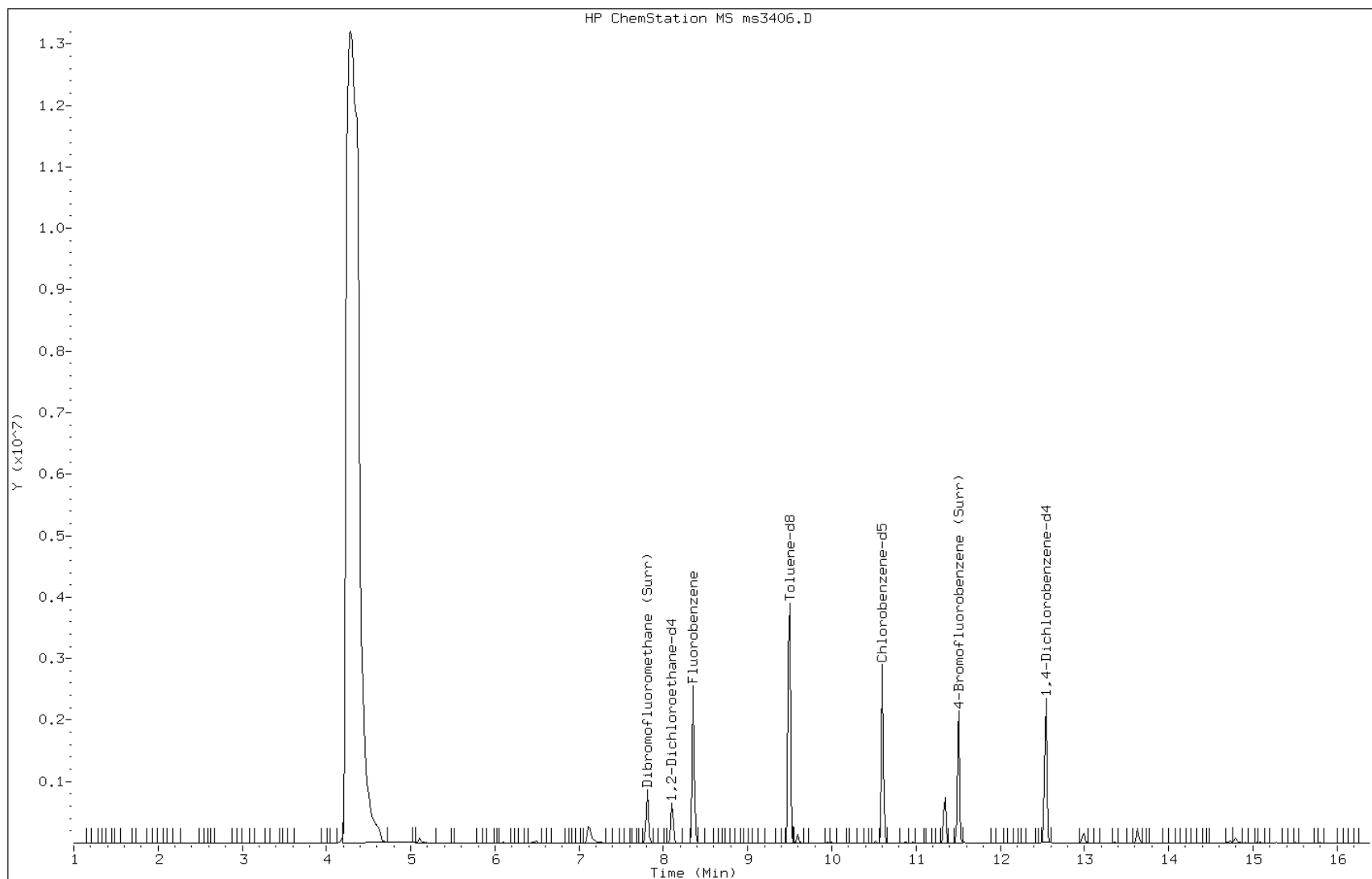
Date: 19-APR-2011 02:43

Client ID: BURKHART-WW-2

Instrument: GCMS1.i

Sample Info: 280-14533-k-1,,PH<2

Operator: stappj



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-14533-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 280-14533-2
 Matrix: Water Lab File ID: ms3407.D
 Analysis Method: 8260B Date Collected: 04/13/2011 09:40
 Sample wt/vol: 20 (mL) Date Analyzed: 04/19/2011 03:03
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: DB-624 (60.25) ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 62873 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-43-2	Benzene	ND		1.0	0.16
100-41-4	Ethylbenzene	ND		1.0	0.16
108-88-3	Toluene	ND		1.0	0.17
179601-23-1	m-Xylene & p-Xylene	ND		2.0	0.34
95-47-6	o-Xylene	ND		1.0	0.19

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		70-127
2037-26-5	Toluene-d8 (Surr)	99		80-125
460-00-4	4-Bromofluorobenzene (Surr)	100		78-120
1868-53-7	Dibromofluoromethane (Surr)	100		77-120

TestAmerica

VOLATILE REPORT SW-846

Data file : \\DenSvr03\Public\chem\MSV\GCMS1.i\041811P.b\ms3407.D
 Lab Smp Id: 280-14533-A-2 Client Smp ID: TRIP BLANK
 Inj Date : 19-APR-2011 03:03
 Operator : stappj Inst ID: GCMS1.i
 Smp Info : 280-14533-a-2,,PH<2
 Misc Info : 280-14533-A-2
 Comment :
 Method : \\DenSvr03\Public\chem\MSV\GCMS1.i\041811P.b\8260B-H2O.m
 Meth Date : 18-Apr-2011 20:01 stappj Quant Type: ISTD
 Cal Date : 16-APR-2011 00:44 Cal File: ms3302.D
 Als bottle: 2
 Dil Factor: 1.00000
 Integrator: HP RTE Compound Sublist: TALS.sub
 Target Version: 4.14
 Processing Host: DENPC346

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

Compounds	QUANT SIG	CONCENTRATIONS					
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
*****	****	----	-----	-----	-----	-----	-----
* 69 Fluorobenzene	96	8.354	8.354	(1.000)	2366603	12.5000	
* 95 Chlorobenzene-d5	119	10.602	10.602	(1.000)	549808	12.5000	
* 121 1,4-Dichlorobenzene-d4	152	12.543	12.543	(1.000)	758007	12.5000	
\$ 58 Dibromofluoromethane (Surr)	111	7.809	7.809	(0.935)	553615	11.2512	11.2512
\$ 64 1,2-Dichloroethane-d4	65	8.102	8.102	(0.970)	454573	11.7571	11.7570
\$ 83 Toluene-d8	98	9.499	9.499	(0.896)	2806598	11.0986	11.0986
\$ 106 4-Bromofluorobenzene (Surr)	95	11.510	11.510	(0.918)	937779	11.2163	11.2163
M 1 1,2-Dichloroethene (total)	96	Compound Not Detected.					
M 2 Xylene (total)	106	Compound Not Detected.					
5 dichlorodifluoromethane	85	Compound Not Detected.					
6 1,2-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-trifluoroe	117	Compound Not Detected.					
17 Ethyl Ether	59	Compound Not Detected.					
16 2,2-dichloro-1,1,1-trifluoroe	83	Compound Not Detected.					

Compounds	QUANT	SIG					CONCENTRATIONS	
			RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====	=====	=====
18 Propylene Oxide	58					Compound Not Detected.		
19 Acrolein	56					Compound Not Detected.		
20 Acetone	43					Compound Not Detected.		
21 Trichlorotrifluoroethane	151					Compound Not Detected.		
22 2-propanol	45					Compound Not Detected.		
23 1,1-Dichloroethene	96					Compound Not Detected.		
27 Iodomethane	142					Compound Not Detected.		
26 Acetonitrile	41					Compound Not Detected.		
28 Methyl Acetate	43					Compound Not Detected.		
31 Carbon Disulfide	76					Compound Not Detected.		
29 Allyl Chloride	41					Compound Not Detected.		
30 tert-Butyl alcohol	59					Compound Not Detected.		
33 Methylene Chloride	84					Compound Not Detected.		
34 Acrylonitrile	53					Compound Not Detected.		
35 Methyl t-butyl ether	73					Compound Not Detected.		
36 trans-1,2-Dichloroethene	96					Compound Not Detected.		
40 Hexane	57					Compound Not Detected.		
42 Vinyl acetate	43					Compound Not Detected.		
43 Isopropyl ether	87					Compound Not Detected.		
44 1,1-Dichloroethane	63					Compound Not Detected.		
46 Chloroprene	53					Compound Not Detected.		
48 ETBE	59					Compound Not Detected.		
50 2-Butanone	43					Compound Not Detected.		
49 Ethyl Acetate	43					Compound Not Detected.		
52 cis-1,2-Dichloroethene	96					Compound Not Detected.		
51 Propionitrile	54					Compound Not Detected.		
53 2,2-Dichloropropane	77					Compound Not Detected.		
54 Methacrylonitrile	41					Compound Not Detected.		
55 Bromochloromethane	128					Compound Not Detected.		
56 Chloroform	83					Compound Not Detected.		
57 Tetrahydrofuran	42					Compound Not Detected.		
60 1,1,1-Trichloroethane	97					Compound Not Detected.		
59 Isobutanol	41					Compound Not Detected.		
61 Cyclohexane	56					Compound Not Detected.		
62 1,1-Dichloropropene	75					Compound Not Detected.		
63 Carbon Tetrachloride	117					Compound Not Detected.		
65 1,2-Dichloroethane	62					Compound Not Detected.		
67 Benzene	78					Compound Not Detected.		
66 TAME	73					Compound Not Detected.		
68 n-Butanol	56					Compound Not Detected.		
71 Trichloroethene	130					Compound Not Detected.		
72 2-Pentanone	43					Compound Not Detected.		
73 Methyl Methacrylate	100					Compound Not Detected.		
74 1,2-Dichloropropane	63					Compound Not Detected.		
75 Methyl Cyclohexane	55					Compound Not Detected.		
76 1,4-Dioxane	88					Compound Not Detected.		
77 Dibromomethane	93					Compound Not Detected.		
78 Bromodichloromethane	83					Compound Not Detected.		
79 2-nitropropane	41					Compound Not Detected.		
80 2-Chloroethyl vinyl ether	63					Compound Not Detected.		
81 cis-1,3-Dichloropropene	75					Compound Not Detected.		
82 4-Methyl-2-pentanone	43					Compound Not Detected.		
84 Toluene	91					Compound Not Detected.		
86 trans-1,3-Dichloropropene	75					Compound Not Detected.		

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====		=====	=====
85 Ethyl methacrylate	69				Compound Not Detected.			
87 1,1,2-Trichloroethane	97				Compound Not Detected.			
88 2-Hexanone	43				Compound Not Detected.			
89 1,3-Dichloropropane	76				Compound Not Detected.			
90 Tetrachloroethene	164				Compound Not Detected.			
91 Dibromochloromethane	129				Compound Not Detected.			
92 Tetrahydrothiophene	60				Compound Not Detected.			
93 1,2-Dibromoethane	107				Compound Not Detected.			
94 1-Chlorohexane	91				Compound Not Detected.			
96 Chlorobenzene	112				Compound Not Detected.			
97 1,1,1,2-Tetrachloroethane	131				Compound Not Detected.			
98 Ethylbenzene	106				Compound Not Detected.			
99 m and p-Xylene	106				Compound Not Detected.			
101 o-Xylene	106				Compound Not Detected.			
100 Styrene	104				Compound Not Detected.			
102 Bromoform	173				Compound Not Detected.			
103 isopropyl benzene	105				Compound Not Detected.			
104 cis-1,4-dichloro-2-butene	53				Compound Not Detected.			
105 Cyclohexanone	55				Compound Not Detected.			
107 1,1,2,2-Tetrachloroethane	83				Compound Not Detected.			
108 t-1,4-Dichloro-2-butene	53				Compound Not Detected.			
109 1,2,3-Trichloropropane	110				Compound Not Detected.			
111 Bromobenzene	156				Compound Not Detected.			
110 n-Propylbenzene	120				Compound Not Detected.			
113 2-Chlorotoluene	126				Compound Not Detected.			
112 1,3,5-Trimethylbenzene	105				Compound Not Detected.			
114 4-Chlorotoluene	126				Compound Not Detected.			
115 tert-Butylbenzene	119				Compound Not Detected.			
116 1,2,4-Trimethylbenzene	105				Compound Not Detected.			
118 sec-Butylbenzene	134				Compound Not Detected.			
119 4-Isopropyltoluene	119				Compound Not Detected.			
120 1,3-Dichlorobenzene	146				Compound Not Detected.			
122 1,4-dichlorobenzene	146				Compound Not Detected.			
123 1,2,3-Trimethylbenzene	105				Compound Not Detected.			
124 n-Butylbenzene	91				Compound Not Detected.			
126 1,2-Dichlorobenzene	146				Compound Not Detected.			
127 1,2-Dibromo-3-chloropropane	157				Compound Not Detected.			
129 1,2,4-Trichlorobenzene	180				Compound Not Detected.			
130 Hexachlorobutadiene	225				Compound Not Detected.			
131 Naphthalene	128				Compound Not Detected.			
132 1,2,3-Trichlorobenzene	180				Compound Not Detected.			
144 Dichloroacetonitrile tic	74				Compound Not Detected.			
145 2,3-Dichloro-1-propene tic	75				Compound Not Detected.			

Data File: ms3407.D

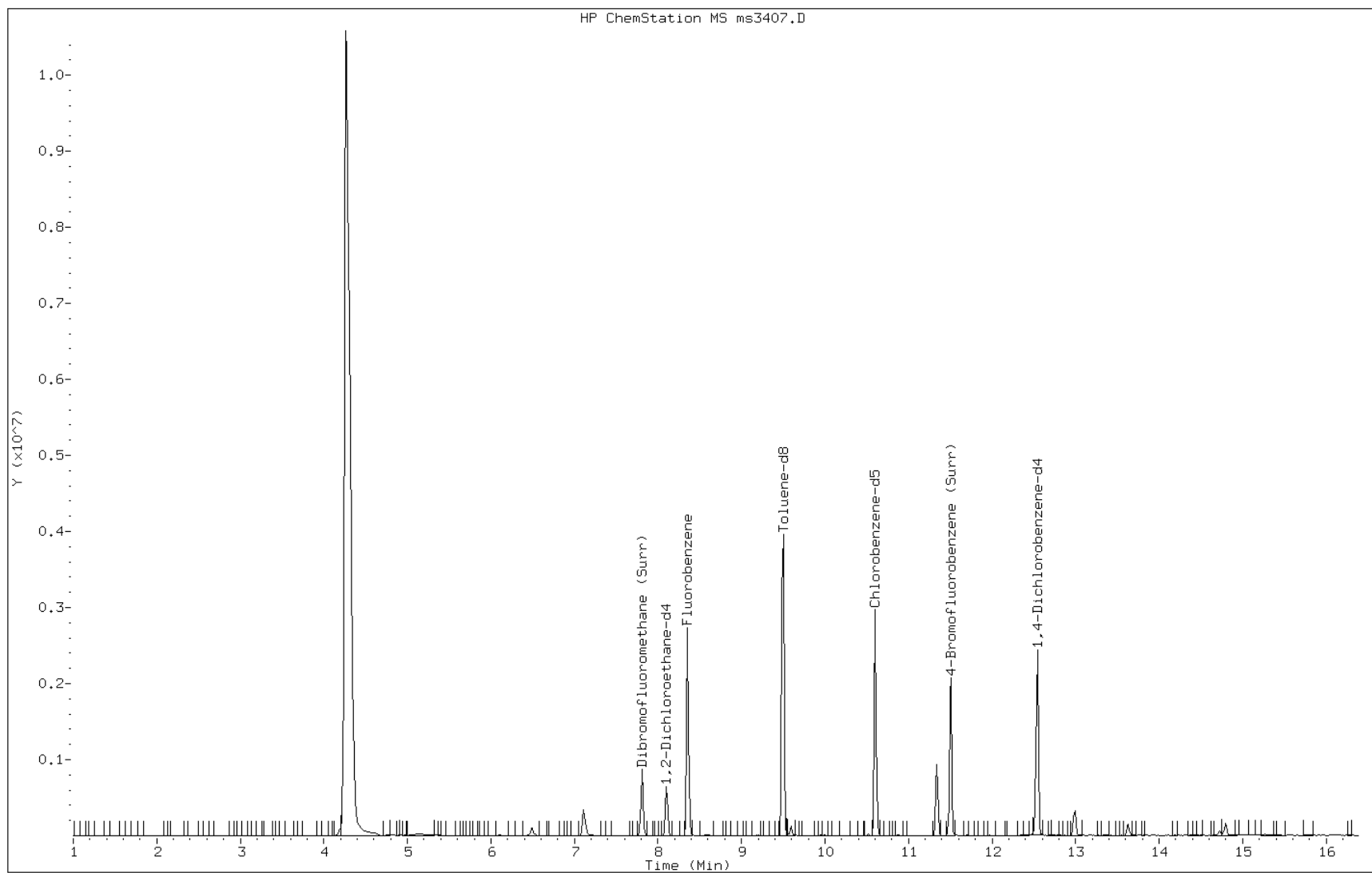
Date: 19-APR-2011 03:03

Client ID: TRIP BLANK

Instrument: GCMS1.i

Sample Info: 280-14533-a-2,,PH<2

Operator: stappj



Method 8015B – GRO

Gasoline Range Organics (GC) by
Method 8015B

FORM I
GASOLINE RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-14533-1
SDG No.: _____
Client Sample ID: BURKHART-WW-2 Lab Sample ID: 280-14533-1
Matrix: Water Lab File ID: 306F2501.D
Analysis Method: 8015B Date Collected: 04/13/2011 09:40
Sample wt/vol: 5(mL) Date Analyzed: 04/15/2011 00:53
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RTX 502.2 (105) ID: 0.53(mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 62320 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
8006-61-9	Gasoline Range Organics (GRO)-C6-C10	ND		25	10

CAS NO.	SURROGATE	%REC	Q	LIMITS
98-08-8	a,a,a-Trifluorotoluene	93		82-110

TestAmerica

VOLATILE REPORT SOW 3/90

Data file : \\DenSvr03\Public\chem\GCV\GC_B.i\0414111.B\306F2501.D
 Lab Smp Id: 280-14533-N-1 Client Smp ID: BURKHART-WW-2
 Inj Date : 15-APR-2011 00:53
 Operator : TM Inst ID: GC_B.i
 Smp Info : 280-14533-N-1
 Misc Info : 280-14533-N-1
 Comment : REV. OLMO1.1.1
 Method : \\DenSvr03\Public\chem\GCV\GC_B.i\0414111.B\8015.m
 Meth Date : 14-Apr-2011 20:33 GC_B.i Quant Type: ESTD
 Cal Date : 25-JAN-2011 13:26 Cal File: 113F0501.D
 Als bottle: 306
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: GRO.A.01.sub
 Target Version: 4.14
 Processing Host: DENPC369

Concentration Formula: Amt * DF * Vod/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vod	5.000	Default Sample Volume
Vo	5.000	Sample Volume purged (mL)
Cpnd Variable		Local Compound Variable

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	=====	=====	=====	=====	=====	=====
\$ 1 Trifluorotoluene	7.836	7.843	-0.007	282870	28.0032	28.0032
S 2 GRO - C6 to C10	4.397-13.847			45613	10.0156	10.0156(a)
4 1-Chloro-4-Fluorobenzene	11.263	11.263	0.000	260440	26.6361	26.6361
\$ 5 Chlorobenzene	11.476	11.476	0.000	326848	27.3267	27.3267

QC Flag Legend

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

Data File: 306F2501.D

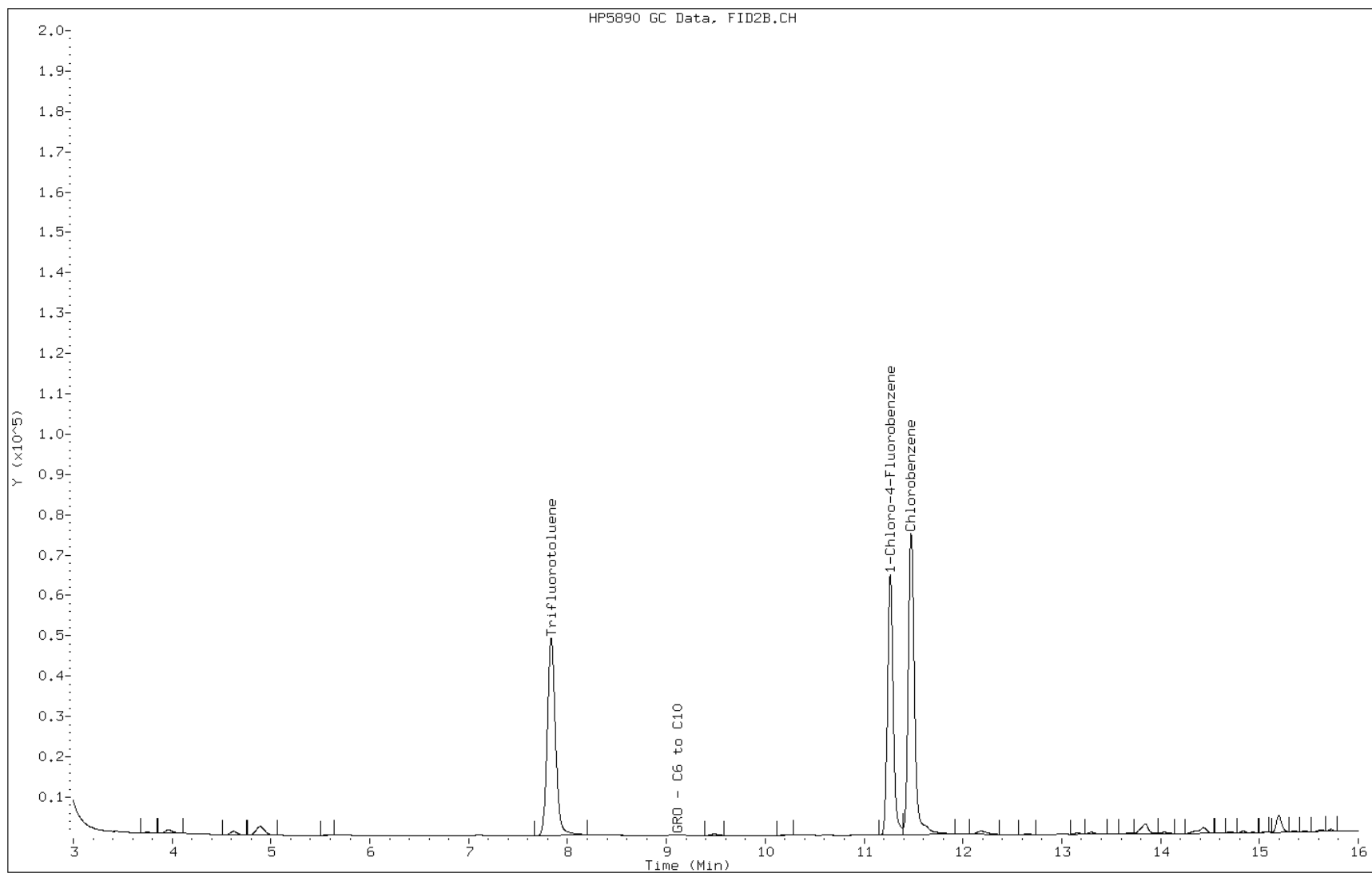
Date: 15-APR-2011 00:53

Client ID: BURKHART-WW-2

Instrument: GC_B.i

Sample Info: 280-14533-N-1

Operator: TM



Method RSK-175

Dissolved Gases (GC) by Method
RSK_175

FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-14533-1
SDG No.: _____
Client Sample ID: BURKHART-WW-2 Lab Sample ID: 280-14533-1
Matrix: Water Lab File ID: 032F1901.D
Analysis Method: RSK-175 Date Collected: 04/13/2011 09:40
Sample wt/vol: 18 (mL) Date Analyzed: 04/19/2011 19:07
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RT-VPLOT ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 63215 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		5.0	0.22

TestAmerica

RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC_J.i\0419111.B\032F1901.D
Lab Smp Id: 280-14533-H-1 Client Smp ID: BURKHART-WW-2
Inj Date : 19-APR-2011 19:07
Operator : mps Inst ID: GC_J.i
Smp Info : 280-14533-H-1
Misc Info : 280-14533-H-1
Comment : SOP: DV-GC-0025
Method : \\DenSvr03\Public\chem\GCV\GC_J.i\0419111.B\RSK-1_8PT.m
Meth Date : 19-Apr-2011 16:21 SmithM Quant Type: ESTD
Cal Date : 08-FEB-2011 18:28 Cal File: 035F3501.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175_8pt.sub
Target Version: 4.14
Processing Host: DENPC064

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

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	1.226	1.232	-0.006	1855	1.48604	1.486(a)
2 Ethene	Compound Not Detected.					
3 Ethane	Compound Not Detected.					
4 Acetylene	Compound Not Detected.					

QC Flag Legend

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

Data File: 032F1901.D

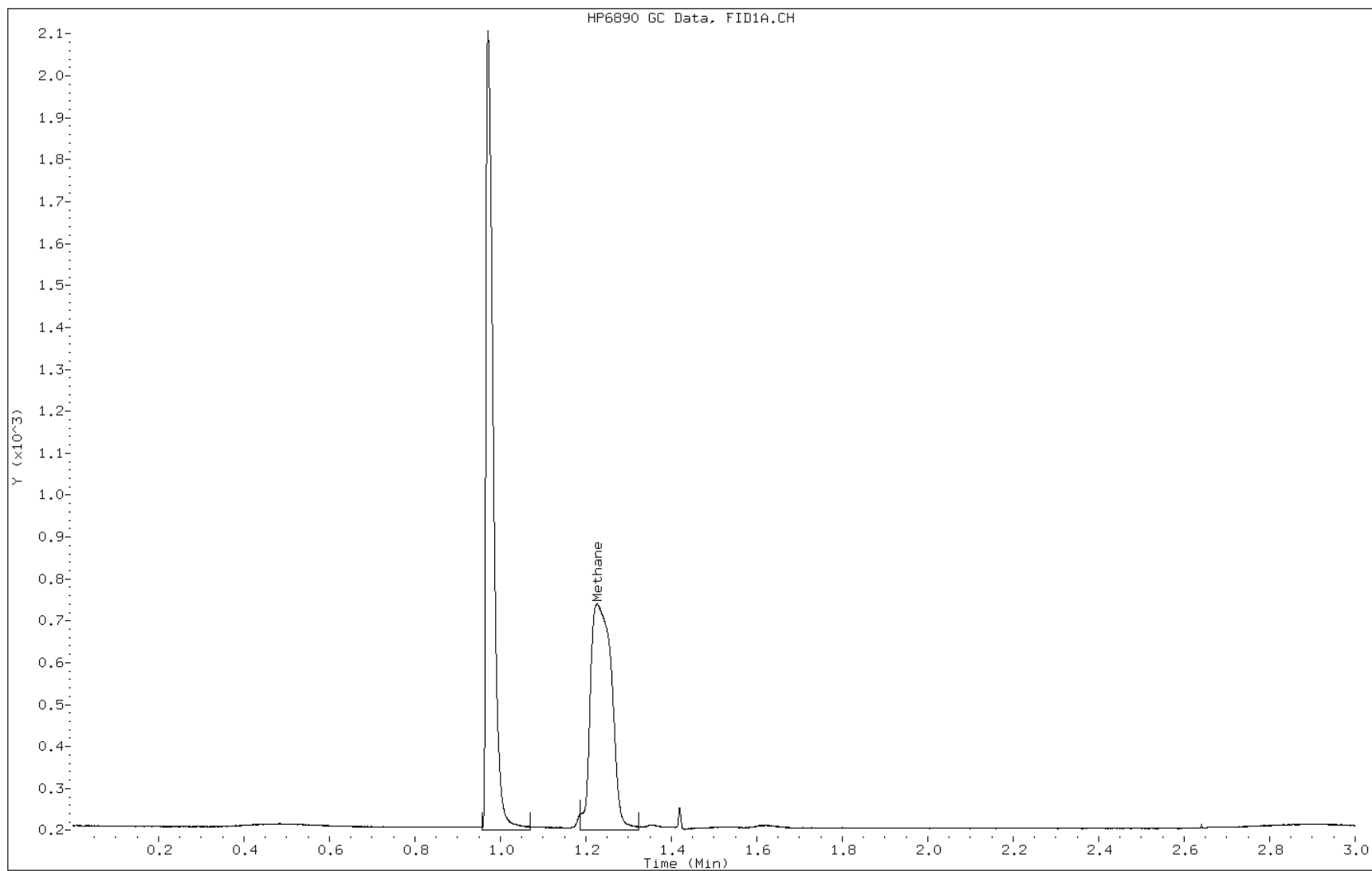
Date: 19-APR-2011 19:07

Client ID: BURKHART-WW-2

Instrument: GC_J.i

Sample Info: 280-14533-H-1

Operator: mps



FORM I
GC VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-14533-1
SDG No.: _____
Client Sample ID: BURKHART-WW-2 Lab Sample ID: 280-14533-1
Matrix: Water Lab File ID: 032F1901.D
Analysis Method: RSK-175 Date Collected: 04/13/2011 09:40
Sample wt/vol: 18 (mL) Date Analyzed: 04/19/2011 19:07
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: RT-3PLOT ID: 0.32 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 63215 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
74-82-8	Methane	ND		5.0	0.22

TestAmerica

RSK-175 Dissolved Gasses in Water

Data file : \\DenSvr03\Public\chem\GCV\GC_J.i\0419112.B\032F1901.D
Lab Smp Id: 280-14533-H-1 Client Smp ID: BURKHART-WW-2
Inj Date : 19-APR-2011 19:07
Operator : mps Inst ID: GC_J.i
Smp Info : 280-14533-H-1
Misc Info : 280-14533-H-1
Comment : SOP: DV-GC-0025
Method : \\DenSvr03\Public\chem\GCV\GC_J.i\0419112.B\RSK-2_8PT.m
Meth Date : 20-Apr-2011 13:56 SmithM Quant Type: ESTD
Cal Date : 08-FEB-2011 18:28 Cal File: 035F3501.D
Als bottle: 32
Dil Factor: 1.00000
Integrator: Falcon Compound Sublist: RSK175_8pt.sub
Target Version: 4.14
Processing Host: DENPC290

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

Compounds	CONCENTRATIONS					
	RT	EXP RT	DLT RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/L)
=====	====	=====	=====	=====	=====	=====
1 Methane	1.605	1.606	-0.001	1034	1.08585	1.086(a)
2 Ethene	Compound Not Detected.					
3 AcetyleneEthane	Compound Not Detected.					

QC Flag Legend

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

Data File: 032F1901.D

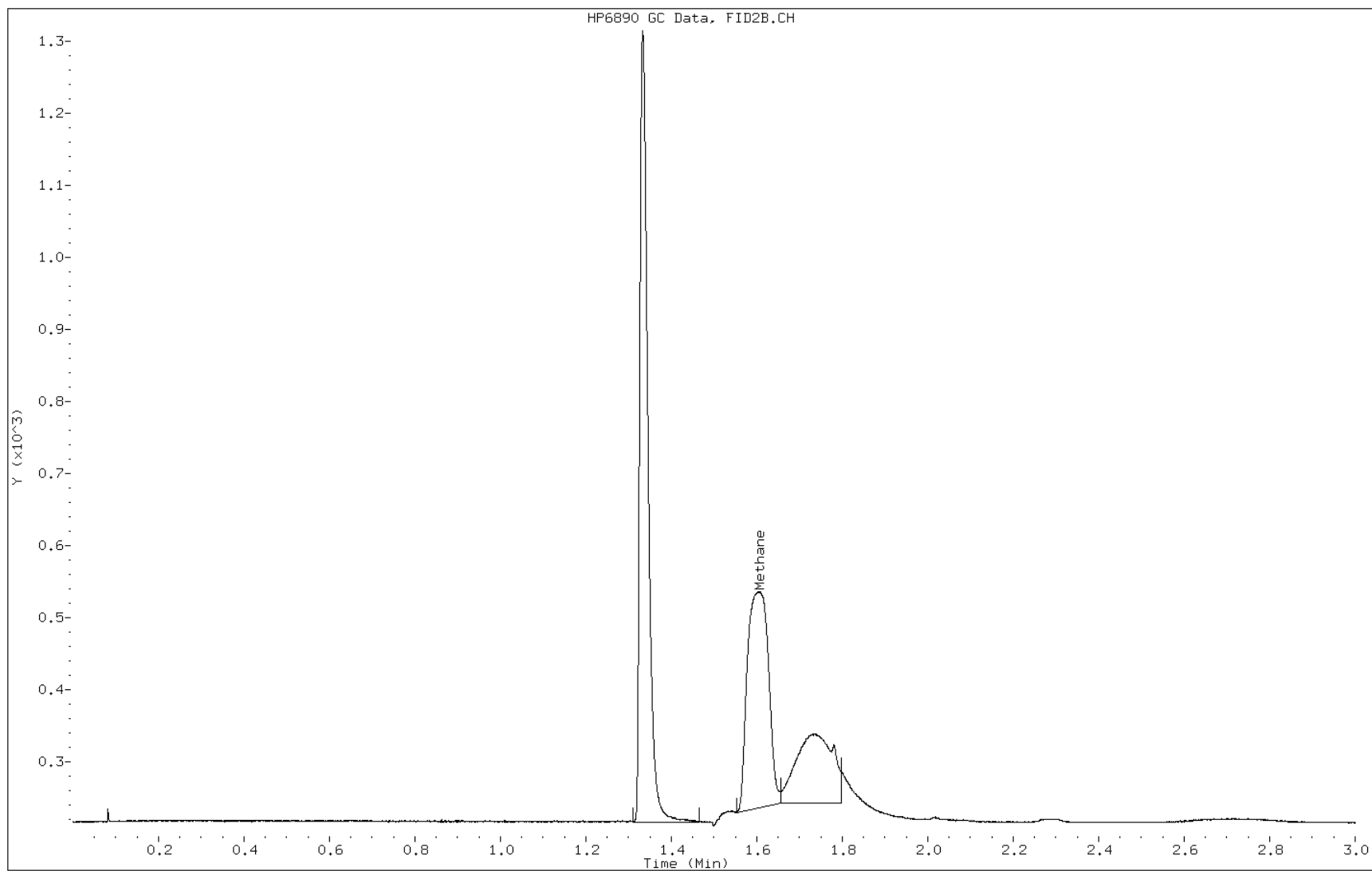
Date: 19-APR-2011 19:07

Client ID: BURKHART-WW-2

Instrument: GC_J.i

Sample Info: 280-14533-H-1

Operator: mps



Method 8015B – DRO

Diesel Range Organics (DRO) (GC) by
Method 8015B

FORM I
DIESEL RANGE ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Denver Job No.: 280-14533-1
SDG No.: _____
Client Sample ID: BURKHART-WW-2 Lab Sample ID: 280-14533-1
Matrix: Water Lab File ID: 010F1001.D
Analysis Method: 8015B Date Collected: 04/13/2011 09:40
Extraction Method: 3510C Date Extracted: 04/14/2011 17:37
Sample wt/vol: 1043.6 (mL) Date Analyzed: 04/18/2011 22:07
Con. Extract Vol.: 1000 (uL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: RTX-1 (30.32) ID: 0.25 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 62977 Units: mg/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
STL00255	C10-C36	ND		0.48	0.054

CAS NO.	SURROGATE	%REC	Q	LIMITS
84-15-1	o-Terphenyl	80		50-115

Data File: \\DenSvr03\Public\chem\GCS\GC_U2.i\0418111.B\010F1001.D
 Report Date: 19-Apr-2011 13:11

TestAmerica

SW846 8015 mod.

Data file : \\DenSvr03\Public\chem\GCS\GC_U2.i\0418111.B\010F1001.D
 Lab Smp Id: 280-14533-D-1-A Client Smp ID: BURKHART-WW-2
 Inj Date : 18-APR-2011 22:07
 Operator : MB Inst ID: GC_U2.i
 Smp Info : 280-692454,33-1
 Misc Info : 280-14533-D-1-A
 Comment : DEN-GC-0002
 Method : \\DenSvr03\Public\chem\GCS\GC_U2.i\0418111.B\DR01.m
 Meth Date : 19-Apr-2011 13:09 birdsellm Quant Type: ESTD
 Cal Date : 11-JAN-2011 05:45 Cal File: 025F2501.D
 Als bottle: 10
 Dil Factor: 1.00000
 Integrator: Falcon Compound Sublist: C10-C36sub.sub
 Target Version: 4.14
 Processing Host: DENPC248

Concentration Formula: Amt * DF * Vf / Vs * * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vf	1000.000	Final Extract Volume (uL)
Vs	1043.600	Volume of Sample Extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	RT	EXP RT	DLT RT	RESPONSE	CONCENTRATIONS	
					ON-COLUMN (ug/ml)	FINAL (ug/L)
\$ 1 o-Terphenyl	11.400	11.417	-0.017	32741	15.9789	15.31
S 8 C10-C28	4.184-16.658			9471	5.84231	5.598
S 9 C10-C36	4.184-19.015			9837	6.06712	5.814
\$ 11 n-Octacosane	16.633	16.641	-0.008	31736	18.7439	17.96

Data File: 010F1001.D

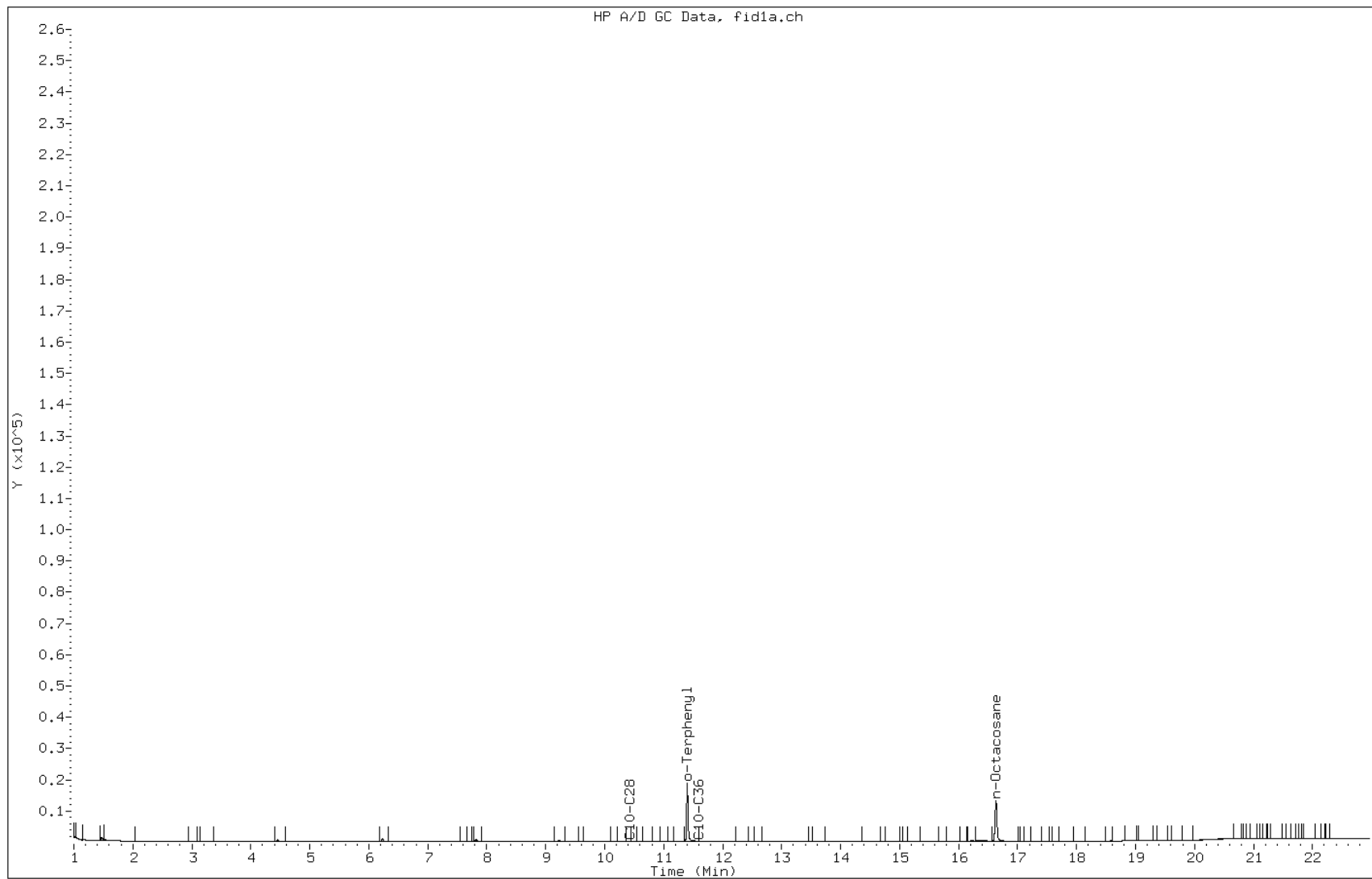
Date: 18-APR-2011 22:07

Client ID: BURKHART-WW-2

Instrument: GC_U2.i

Sample Info: 280-692454,33-1

Operator: MB



Shipping and Receiving Documents

Sampler ID 3.4 421
 Temperature on Receipt 4/13
 Drinking Water? Yes ☒ No ☐

TAL-4124-280 (0508)

Client **COGCC** Project Manager **John Axelsson** Chain of Custody Number **143756**

Address **1120 Lincoln St. Ste. 801** Telephone Number (Area Code)/Fax Number **303-637-7178/7179** Lab Number **1** of **1**

City **Denver** State **CO** Zip Code **80203** Site Contact **Lori Parsons**

Project Name and Location (State) **Burkhart #200300876** Carrier/Waybill Number **NA**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc		
Burkhart-WW-2	4/13/11	09:40		X									TD5, PH, EC, SHA	
Trip Blank	3/23/11	4/13/11		X									8015B-GRO	
													8015B-DRO	
													8260BTEXO-I	
													Metals	
													Alkaline Group	
													Nitrate/Nitrite	

Possible Hazard Identification
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Return To Client ☒ Disposal By Lab ☐ Archive For ☐ Months ☐ Months longer than 1 month

QC Requirements (Specify)

Turn Around Time Required
☐ 24 Hours ☐ 48 Hours ☐ 7 Days ☐ 14 Days ☐ 21 Days ☒ Other **Standard**

1. Relinquished By *[Signature]* Date **4/13/11** Time **13:05**

2. Relinquished By *[Signature]* Date **4/13/11** Time **13:05**

3. Relinquished By *[Signature]* Date **4/13/11** Time **13:05**

Comments **Add Uranium to total metals list. Provide anion/cation balance summary. Remit pdf of lab report and invoice to John.Axelsson@state.CO.US.**

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

Login Sample Receipt Checklist

Client: Colorado Oil&Gas Conservation Commision

Job Number: 280-14533-1

Login Number: 14533

List Source: TestAmerica Denver

List Number: 1

Creator: Lazarte, Noah M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	