

November 23, 2015

Mr. Chris Canfield  
Department of Natural Resources  
Colorado Oil and Gas Conservation Commission  
1120 Lincoln Street, Suite 801  
Denver, Colorado 80203-2136

**RE: Closure Request/Status Update  
Miller 2-17 Tank Battery  
Encana Oil & Gas (USA) Inc.  
API 05-123-16647  
COGCC Remediation # 6820  
Weld County, Colorado**

Dear Mr. Canfield,

Rule Engineering on behalf of Encana Oil and Gas (USA) Inc., (Encana) is submitting this Closure Request/Status Update for the Miller 2-17 site (COGCC facility #248845, COGCC Remediation #6820).

### **Introduction**

The site investigation was conducted by a third party contractor as authorized by Encana personnel and in accordance with the approved Form 27 previously submitted for this location. All samples were collected in accordance with Encana's Environmental Compliance Group's Sampling Procedures. The analytical results for the respective groundwater samples collected are provided in Table 1 and Attachment A of this submittal. The text below provides the details of the groundwater sampling and analytical results. For a visual description of the site, please refer to the attached figures.

### **Assessment Activities**

December 2011- Excavation completed following the discovery of a release. The excavation was approximately 40 feet east to west and 45 feet north to south and ten feet in depth. Two of the ten soil samples collected were reported above the COGCC Table 910 allowable limit for Total Petroleum Hydrocarbons. Benzene and xylenes were reported above the allowable limit from the groundwater sample collected from the excavation cavity. As a result of the analytical data, a

second excavation was completed and temporary monitoring wells were installed following excavation completion.

July 9, 2014- Four permanent monitoring wells were installed. Well installation and soil analytical results are provided in the 2014 Annual Report. The site has been sampled quarterly since well installation. Groundwater measurements and parameters are collected prior to sampling.

### **Analytical Review**

Groundwater samples were collected from the permanent monitoring wells starting third quarter 2014. Monitoring wells MW-1, MW-2, and MW-4 were reported as non-detect for benzene, toluene, ethylbenzene, and xylenes since well installation. Xylenes in MW-3 were the only constituent reported above the COGCC Table 910 allowable limits on September 24, 2014. Since then, xylenes were reported below the allowable limit. Benzene, toluene, and ethylbenzene were reported below the allowable limit in MW-3 since well installation.

### **Conclusion**

Based on the analytical results, groundwater at this site is in compliance with the standards specified within the COGCC Table 910-1. Four consecutive quarters of groundwater samples have been collected below the allowable limit. Encana respectfully requests that final closure be granted for the site, COGCC Remediation #6820.

### **Notification of Completion**

This Closure Report/Status Update is being submitted as the Notification of Completion for Remediation #6820. If the information provided here is satisfactory, please provide documentation of the closure of the remediation project.

If you have any question or require additional information, please contact myself at 303-431-8500 or Blake Ford with Encana.

Sincerely,  
Rule Engineering, LLC

*Tracy Loftus*

Tracy Loftus  
Project Scientist

Cc: Blake Ford, Encana

**Attachments**

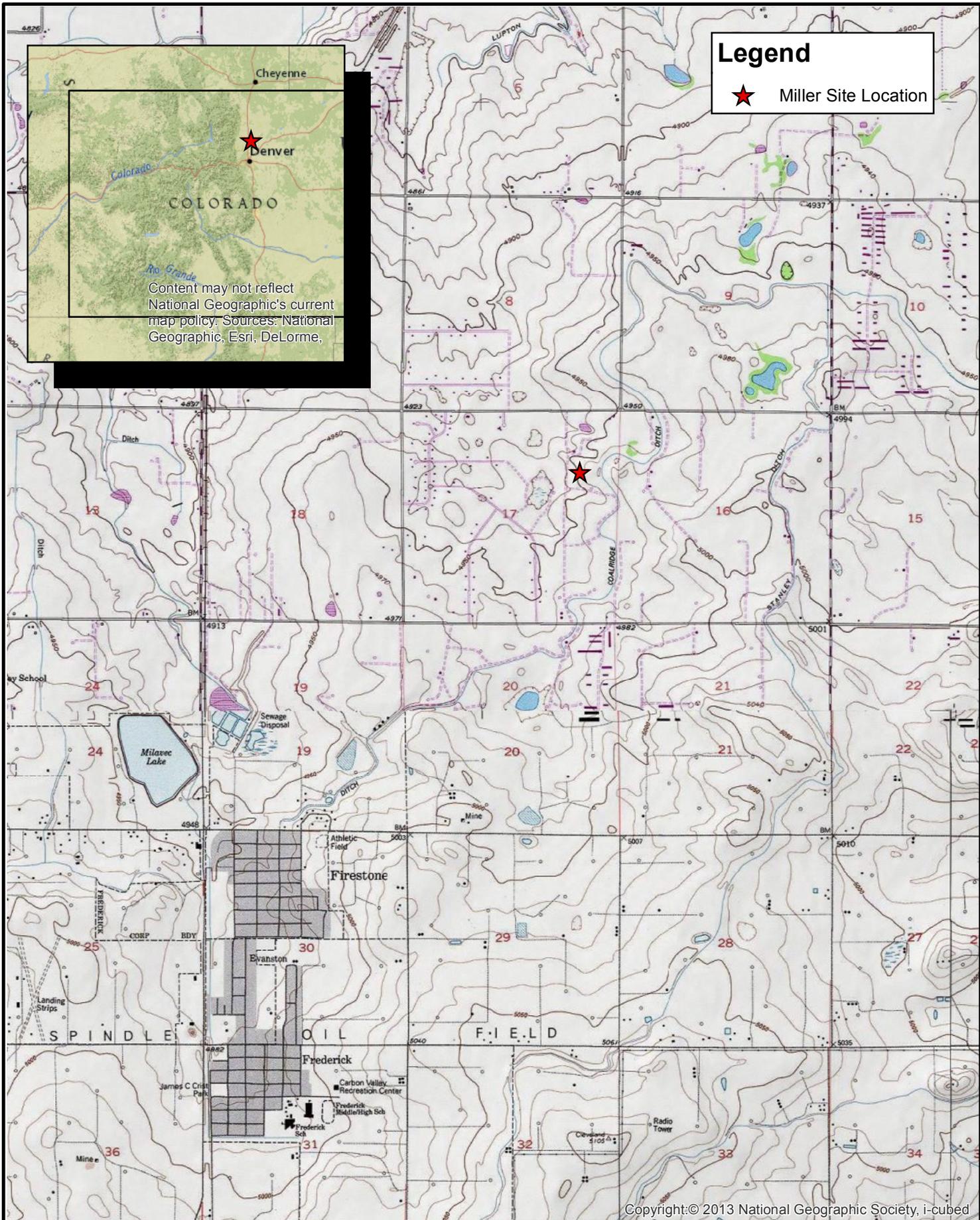
Topographic Location Map (Figure 1)  
Aerial Map with well location (Figure 2)  
Groundwater Analytical Maps (Figure 3a-3d)  
Groundwater Analytical Results (Table 1)  
Attachment A- Laboratory Reports



Content may not reflect National Geographic's current map policy. Sources: National Geographic, Esri, DeLorme,

**Legend**

★ Miller Site Location



Copyright: © 2013 National Geographic Society, i-cubed

**Rule Engineering, LLC**  
Solutions to Regulations for Industry



Location: Miller 2-17  
QtrQtr, SENE Sec, 17 Twp, 2N Rng, 67W

**Legend**

-  AST
-  Berm
-  Fence
-  Meter House
-  Monitoring Well
-  Sepearator
-  Machii-Ross Infrastructure

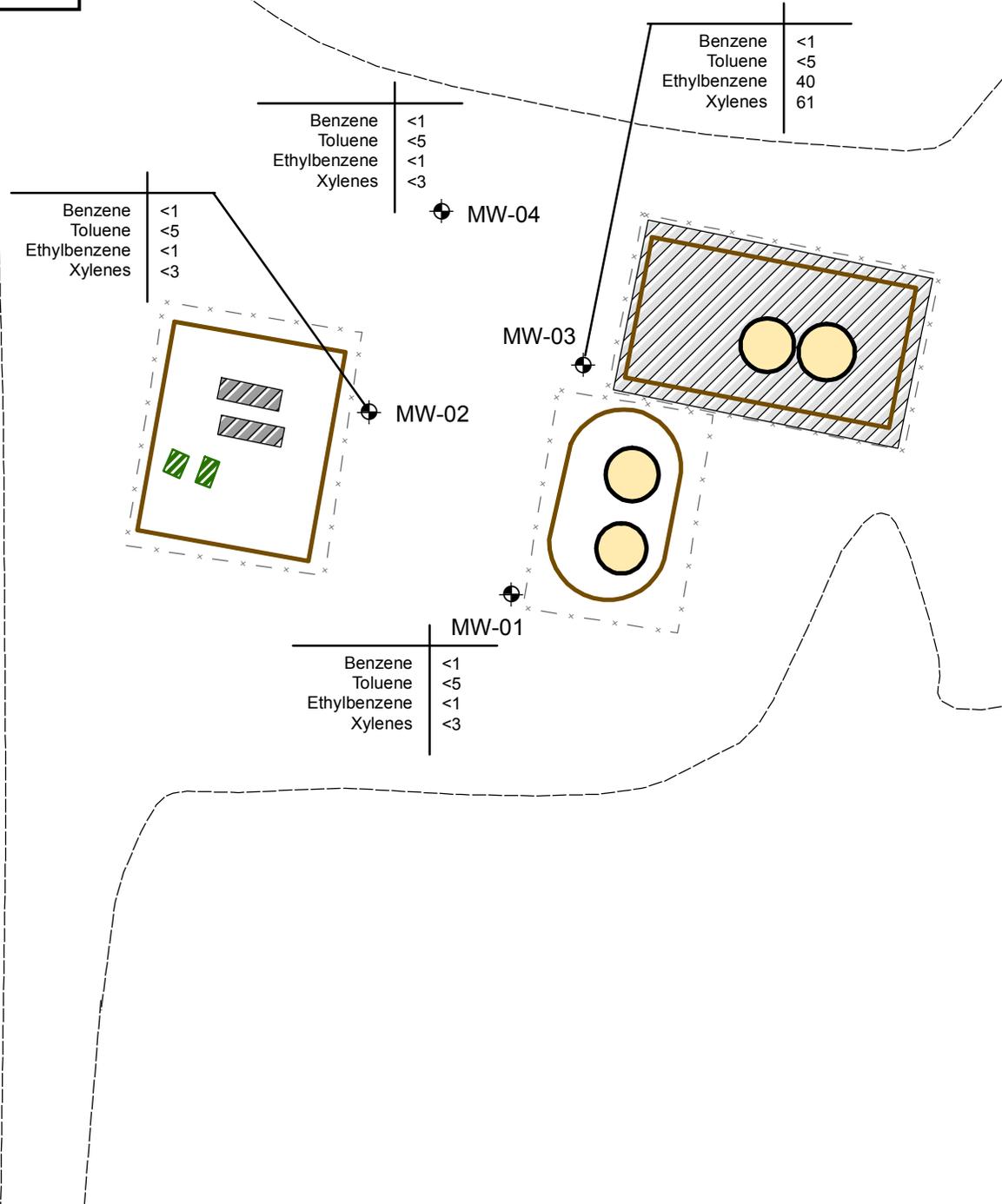


Source: Esri, DigitalGlobe, GeoEye, I-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**Legend**

-  AST
-  Berm
-  Fence
-  Meter House
-  Monitoring Well
-  Separator
-  Machii-Ross Infrastructure
-  Work Surface

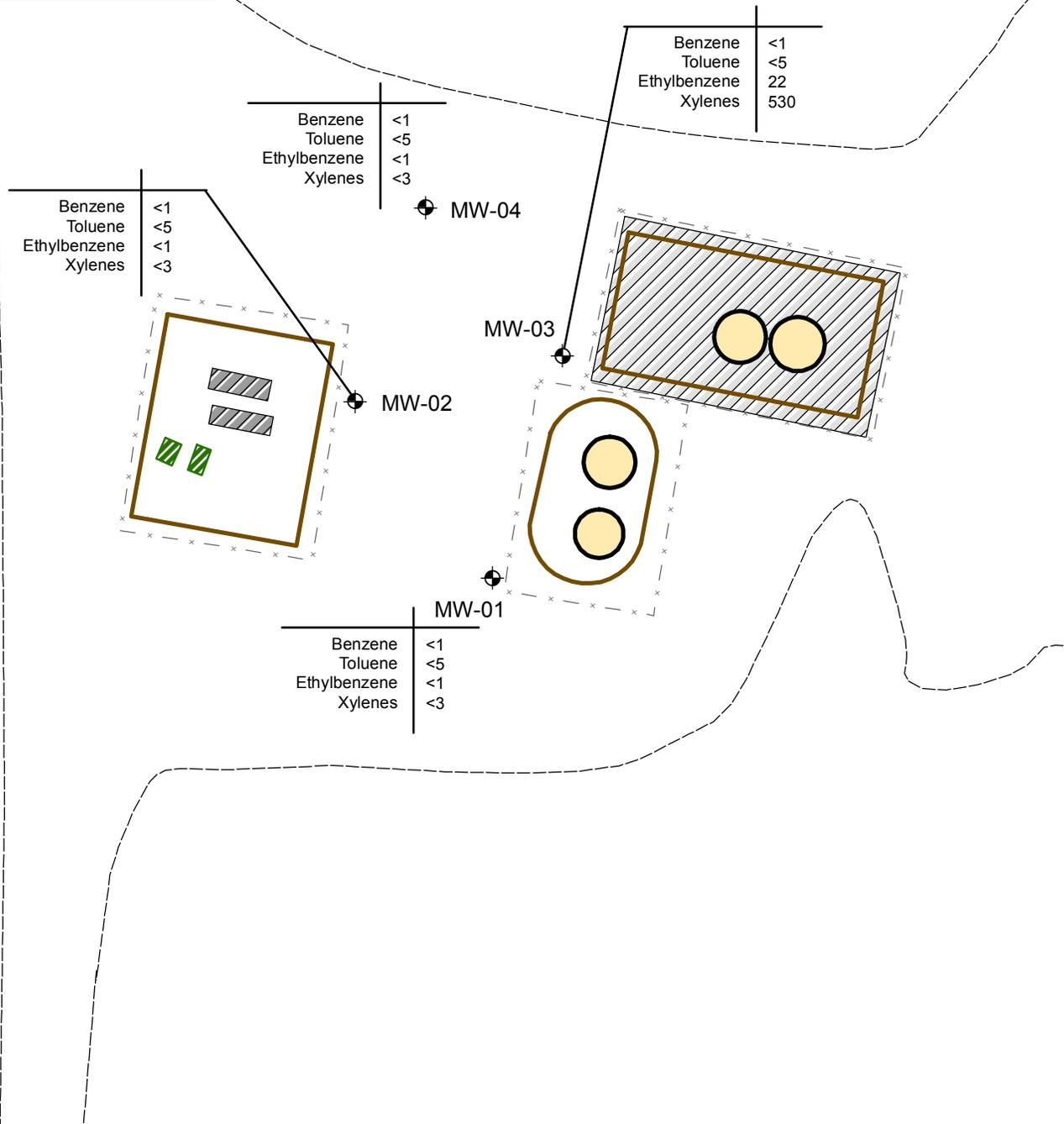
All units in µg/L.



**Legend**

-  AST
-  Berm
-  Fence
-  Meter House
-  Monitoring Well
-  Separator
-  Machii-Ross Infrastructure
-  Work Surface

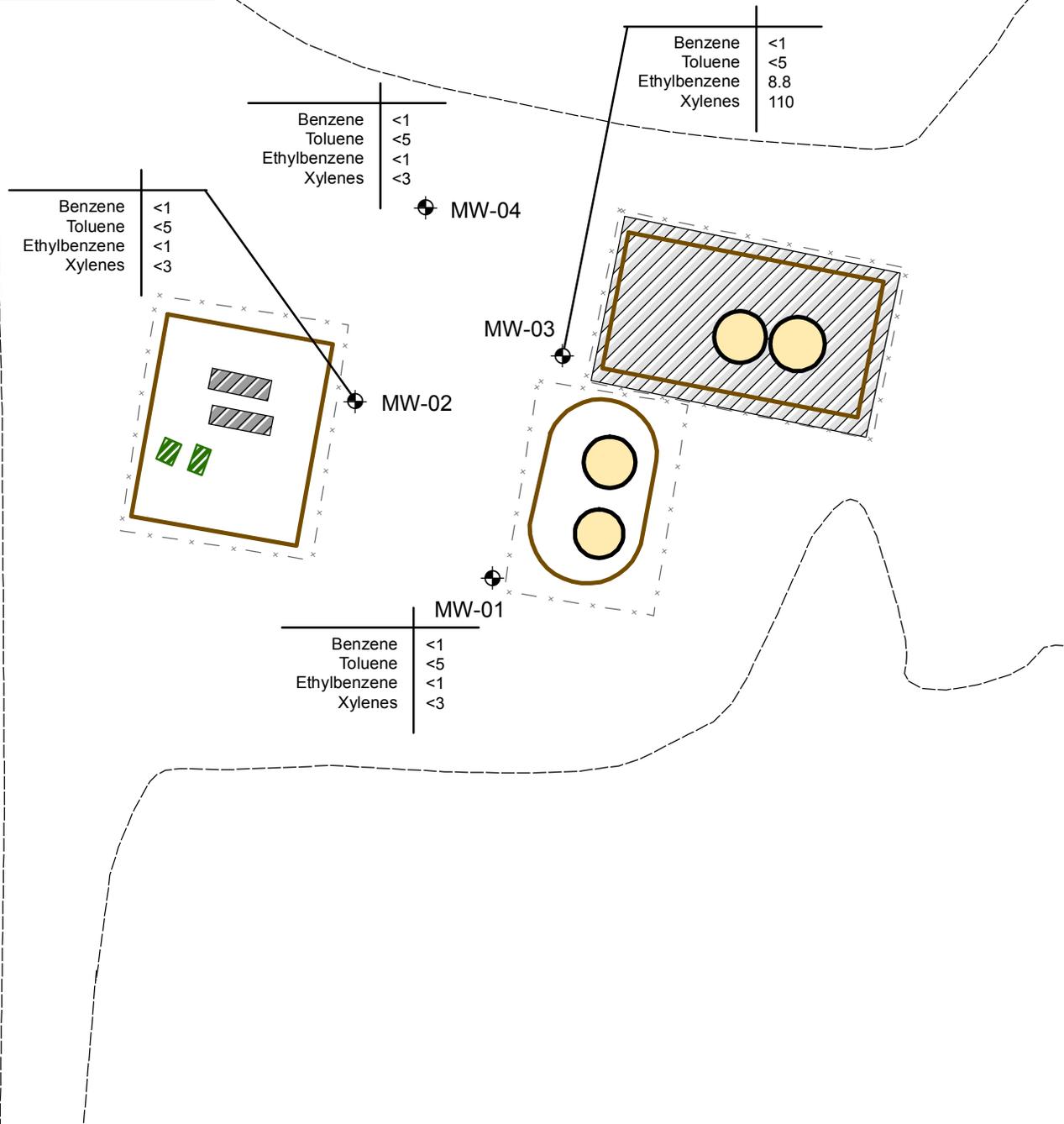
Units: µg/L



**Legend**

-  Monitoring Well
-  Work Surface
-  Berm
-  AST
-  Fence
-  Meter House
-  Separator
-  Machii-Ross Infrastructure

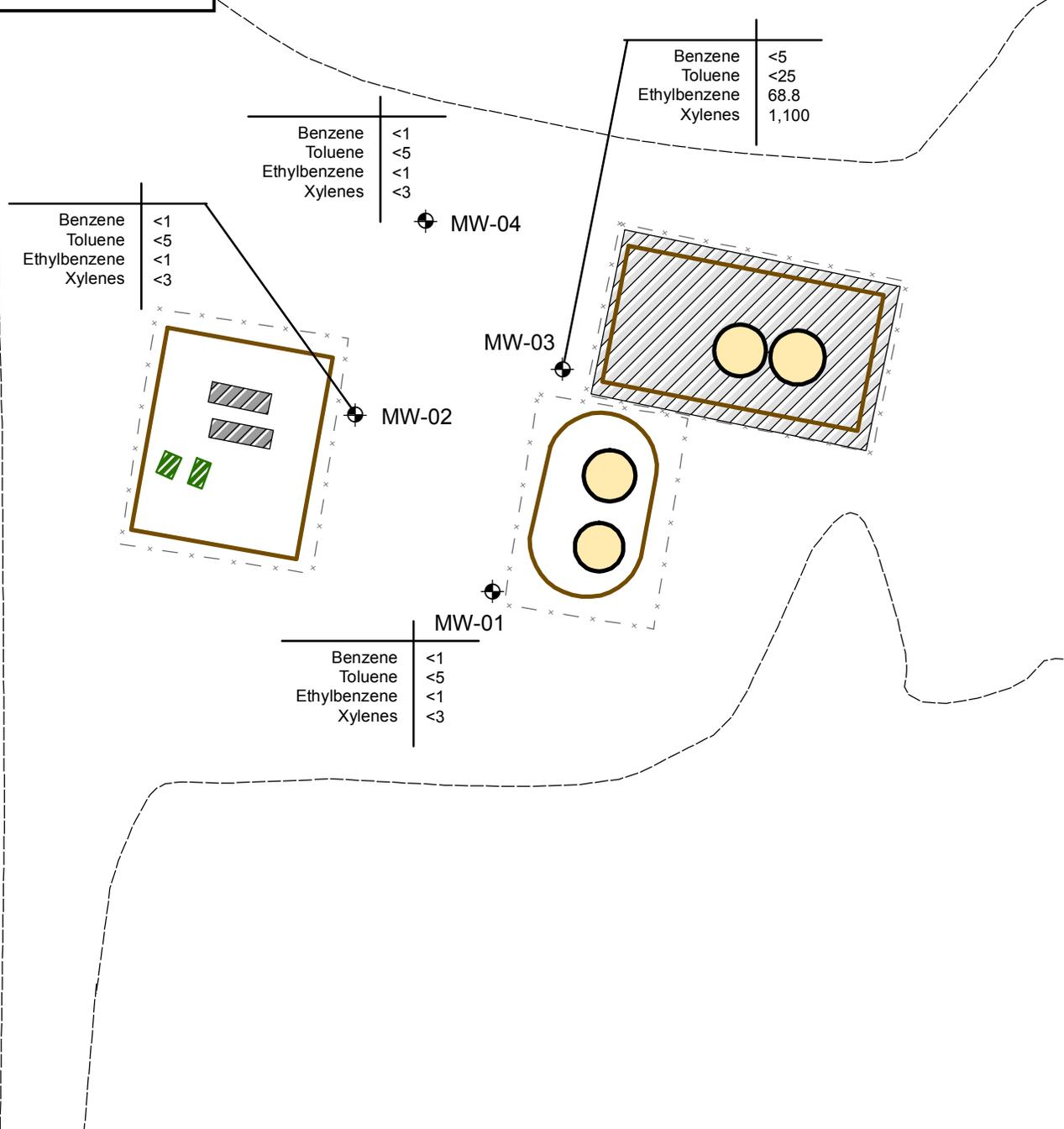
Units: µg/L



**Legend**

-  Monitoring Well
-  Work Surface
-  Berm
-  AST
-  Fence
-  Meter House
-  Separator
-  Machii-Ross Infrastructure

Units: µg/L



**TABLE 1- GROUNDWATER ANALYTICAL RESULTS  
MILLER 2-17 TANK BATTERY  
WELD COUNTY, COLORADO  
ENCANA OIL & GAS (USA) INC.**

Sample ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)
<b>COGCC Table 910-1 Limit</b>		<b>5</b>	<b>560</b>	<b>700</b>	<b>1,400</b>
MW-01	1/18/2012	< 1	1.6	< 1	< 1
MW-01	4/13/2012	< 1	< 1	< 1	< 1
MW-01	7/2/2012	< 1	< 1	< 1	< 1
MW-01	10/3/2012	< 1	< 1	< 1	< 1
MW-01	1/16/2013	< 1	< 1	< 1	< 1
MW-01	6/20/2013	< 0.5	< 5	< 0.5	< 1.5
MW-01	9/23/2013	< 1	< 5	< 1	< 3
MW-01	12/16/2013	< 1	< 5	< 1	< 3
MW-01	3/20/2014	< 1	< 5	< 1	< 3
MW-01	6/18/2014	< 1	< 5	< 1	< 3
MW-01	9/24/2014	< 1	< 5	< 1	< 3
MW-01	12/10/2014	< 1	< 5	< 1	< 3
MW-01	2/13/2015	< 1	< 5	< 1	< 3
MW-01	5/21/2015	< 1	< 5	< 1	< 3
MW-01	8/28/2015	< 1	< 5	< 1	< 3
MW-02	1/18/2012	< 1	< 1	< 1	< 1
MW-02	4/13/2012	< 1	< 1	< 1	< 1
MW-02	7/2/2012	< 1	< 1	< 1	< 1
MW-02	10/3/2012	< 1	< 1	< 1	< 1
MW-02	1/16/2013	< 1	< 1	< 1	< 1
MW-02	6/20/2013	< 0.5	< 5	< 0.5	< 1.5
MW-02	9/23/2013	< 1	< 5	< 1	< 3
MW-02	12/16/2013	< 1	< 5	< 1	< 3
MW-02	3/20/2014	< 1	< 5	< 1	< 3
MW-02	6/18/2014	< 1	< 5	< 1	< 3
MW-02	9/24/2014	< 1	< 5	< 1	< 3
MW-02	12/10/2014	< 1	< 5	< 1	< 3
MW-02	2/13/2015	< 1	< 5	< 1	< 3
MW-02	5/21/2015	< 1	< 5	< 1	< 3
MW-02	8/28/2015	< 1	< 5	< 1	< 3
MW-03	1/18/2012	<b>24</b>	< 1	150	<b>4,000</b>
MW-03	4/13/2012	<b>45</b>	1.1	270	<b>3,700</b>
MW-03	7/2/2012	<b>13</b>	< 1	86	<b>2,200</b>
MW-03	10/3/2012	<b>7.5</b>	< 1	79	1,060
MW-03	1/16/2013	<b>11</b>	< 1	19	<b>2,200</b>
MW-03	6/20/2013	<b>7.8</b>	< 5	140	<b>2,900</b>
MW-03	9/23/2013	<b>&lt;50</b>	< 250	260	<b>5,700</b>
MW-03	12/16/2013	4.7	< 50	110	<b>1,700</b>
MW-03	3/20/2014	< 5	< 25	91	<b>1,200</b>
MW-03	6/18/2014	< 5	< 25	100	<b>1,400</b>
MW-03	9/24/2014	< 3.3	< 7.8	130	<b>2,600</b>
MW-03	12/10/2014	< 1	< 5	40	61
MW-03	2/13/2015	< 1	< 5	22	530
MW-03	5/21/2015	< 1	< 5	8.8	110
MW-03	8/28/2015	< 5	< 25	68.8	1,100
MW-04	9/24/2014	< 1	< 5	< 1	< 3
MW-04	12/10/2014	< 1	< 5	< 1	< 3
MW-04	2/13/2015	< 1	< 5	< 1	< 3
MW-04	5/21/2015	< 1	< 5	< 1	< 3
MW-04	8/28/2015	< 1	< 5	< 1	< 3

**NOTES:**

µg/L - micrograms per liter

**BOLD** - indicates result exceeds the applicable standard

< - indicates result is less than the stated laboratory reporting limit

NS - not sampled

COGCC Table 910-1 - Colorado Oil and Gas Conservation Commission Table 910-1

Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

# **Attachment A**

Laboratory Reports



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
1-800-767-5859  
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Est. 1970

Blake Ford  
EnCana Oil & Gas - Longmont, CO  
3601 Stagecoach Rd  
Longmont, CO 80504

## Report Summary

Tuesday December 16, 2014

Report Number: L738308

Samples Received: 12/11/14

Client Project: 335.010

Description: Miller 2-17

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Jared Willis, ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

December 16, 2014

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : December 11, 2014  
 Description : Miller 2-17  
 Sample ID : MW-01  
 Collected By :  
 Collection Date : 12/10/14 14:40

ESC Sample # : L738308-01  
 Site ID : MILLER 2-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/12/14	1
Toluene	BDL	5.0	ug/l	8260B	12/12/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/12/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/12/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	12/12/14	1
Dibromofluoromethane	92.1		% Rec.	8260B	12/12/14	1
a,a,a-Trifluorotoluene	106.		% Rec.	8260B	12/12/14	1
4-Bromofluorobenzene	98.4		% Rec.	8260B	12/12/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 12/16/14 12:29 Printed: 12/16/14 12:30



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REPORT OF ANALYSIS

December 16, 2014

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : December 11, 2014  
 Description : Miller 2-17  
 Sample ID : MW-02  
 Collected By :  
 Collection Date : 12/10/14 15:00

ESC Sample # : L738308-02  
 Site ID : MILLER 2-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/12/14	1
Toluene	BDL	5.0	ug/l	8260B	12/12/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/12/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/12/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	12/12/14	1
Dibromofluoromethane	94.3		% Rec.	8260B	12/12/14	1
a,a,a-Trifluorotoluene	105.		% Rec.	8260B	12/12/14	1
4-Bromofluorobenzene	102.		% Rec.	8260B	12/12/14	1

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Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

December 16, 2014

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : December 11, 2014  
 Description : Miller 2-17  
 Sample ID : MW-03  
 Collected By :  
 Collection Date : 12/10/14 14:35

ESC Sample # : L738308-03  
 Site ID : MILLER 2-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/12/14	1
Toluene	BDL	5.0	ug/l	8260B	12/12/14	1
Ethylbenzene	40.	1.0	ug/l	8260B	12/12/14	1
Total Xylenes	61.	3.0	ug/l	8260B	12/15/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	12/12/14	1
Dibromofluoromethane	93.2		% Rec.	8260B	12/12/14	1
a,a,a-Trifluorotoluene	107.		% Rec.	8260B	12/12/14	1
4-Bromofluorobenzene	96.3		% Rec.	8260B	12/12/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

December 16, 2014

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : December 11, 2014  
 Description : Miller 2-17  
 Sample ID : MW-04  
 Collected By :  
 Collection Date : 12/10/14 15:00

ESC Sample # : L738308-04  
 Site ID : MILLER 2-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	12/12/14	1
Toluene	BDL	5.0	ug/l	8260B	12/12/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	12/12/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	12/12/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	12/12/14	1
Dibromofluoromethane	93.7		% Rec.	8260B	12/12/14	1
a,a,a-Trifluorotoluene	106.		% Rec.	8260B	12/12/14	1
4-Bromofluorobenzene	102.		% Rec.	8260B	12/12/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 12/16/14 12:29 Printed: 12/16/14 12:30

Summary of Remarks For Samples Printed  
12/16/14 at 12:30:06

TSR Signing Reports: 358  
R5 - Desired TAT

Log all BTEX waters as V8260BTEX unless specified otherwise. Enter depths for all samples as part of sample ID. Try not to report benzene as BDL above a 5x dilution.

Sample: L738308-01 Account: ENCANLCO Received: 12/11/14 09:00 Due Date: 12/18/14 00:00 RPT Date: 12/16/14 12:29

Sample: L738308-02 Account: ENCANLCO Received: 12/11/14 09:00 Due Date: 12/18/14 00:00 RPT Date: 12/16/14 12:29

Sample: L738308-03 Account: ENCANLCO Received: 12/11/14 09:00 Due Date: 12/18/14 00:00 RPT Date: 12/16/14 12:29

Sample: L738308-04 Account: ENCANLCO Received: 12/11/14 09:00 Due Date: 12/18/14 00:00 RPT Date: 12/16/14 12:29





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Blake Ford  
EnCana Oil & Gas - Longmont, CO  
3601 Stagecoach Rd  
Longmont, CO 80504

## Report Summary

Wednesday February 25, 2015

Report Number: L749119

Samples Received: 02/14/15

Client Project: 335.010

Description: Miller 2-17

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Entire Report Reviewed By:

  
Jared Willis, ESC Representative

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SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
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REPORT OF ANALYSIS

February 25, 2015

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : February 14, 2015  
 Description : Miller 2-17  
 Sample ID : MW-01  
 Collected By : Jeff Braden  
 Collection Date : 02/13/15 12:15

ESC Sample # : L749119-01  
 Site ID : MILLER 2-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	02/24/15	1
Toluene	BDL	5.0	ug/l	8260B	02/24/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	02/24/15	1
Total Xylenes	BDL	3.0	ug/l	8260B	02/24/15	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	02/24/15	1
Dibromofluoromethane	102.		% Rec.	8260B	02/24/15	1
a,a,a-Trifluorotoluene	99.4		% Rec.	8260B	02/24/15	1
4-Bromofluorobenzene	102.		% Rec.	8260B	02/24/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 02/24/15 13:43 Revised: 02/25/15 16:15



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REPORT OF ANALYSIS

February 25, 2015

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : February 14, 2015  
 Description : Miller 2-17  
 Sample ID : MW-02  
 Collected By : Jeff Braden  
 Collection Date : 02/13/15 12:35

ESC Sample # : L749119-02  
 Site ID : MILLER 2-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	02/24/15	1
Toluene	BDL	5.0	ug/l	8260B	02/24/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	02/24/15	1
Total Xylenes	BDL	3.0	ug/l	8260B	02/24/15	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	02/24/15	1
Dibromofluoromethane	102.		% Rec.	8260B	02/24/15	1
a,a,a-Trifluorotoluene	99.2		% Rec.	8260B	02/24/15	1
4-Bromofluorobenzene	102.		% Rec.	8260B	02/24/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 02/24/15 13:43 Revised: 02/25/15 16:15



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Est. 1970

REPORT OF ANALYSIS

February 25, 2015

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : February 14, 2015  
 Description : Miller 2-17  
 Sample ID : MW-03  
 Collected By : Jeff Braden  
 Collection Date : 02/13/15 13:15

ESC Sample # : L749119-03  
 Site ID : MILLER 2-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	02/25/15	1
Toluene	BDL	5.0	ug/l	8260B	02/25/15	1
Ethylbenzene	22.	1.0	ug/l	8260B	02/25/15	1
Total Xylenes	530	30.	ug/l	8260B	02/22/15	10
Surrogate Recovery						
Toluene-d8	98.4		% Rec.	8260B	02/22/15	1
Dibromofluoromethane	94.8		% Rec.	8260B	02/22/15	1
a,a,a-Trifluorotoluene	99.4		% Rec.	8260B	02/22/15	1
4-Bromofluorobenzene	102.		% Rec.	8260B	02/22/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 02/24/15 13:43 Revised: 02/25/15 16:15



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Est. 1970

REPORT OF ANALYSIS

February 25, 2015

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 3601 Stagecoach Rd  
 Longmont, CO 80504

Date Received : February 14, 2015  
 Description : Miller 2-17  
 Sample ID : MW-04  
 Collected By : Jeff Braden  
 Collection Date : 02/13/15 12:55

ESC Sample # : L749119-04  
 Site ID : MILLER 2-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	02/24/15	1
Toluene	BDL	5.0	ug/l	8260B	02/24/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	02/24/15	1
Total Xylenes	BDL	3.0	ug/l	8260B	02/24/15	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	02/24/15	1
Dibromofluoromethane	101.		% Rec.	8260B	02/24/15	1
a,a,a-Trifluorotoluene	100.		% Rec.	8260B	02/24/15	1
4-Bromofluorobenzene	103.		% Rec.	8260B	02/24/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 02/24/15 13:43 Revised: 02/25/15 16:15

Company Name/Address:  
**ENCANLCO**  
 Encana Oil and Gas  
 3601 Stagecoach Rd.  
 Longmont, CO 80504

Billing Information:  
**Encana oil and Gas**  
 Attn: Blake Ford  
 ENCANLCO-RULE

Report to:  
**B. Ford, Charlie Jensen**

Email To:  
**David.Ford@encana.com,**

Project Description:  
**MILLER 2-17**

City/State Collected:

Phone: **970-379-5558**  
 Fax:

Client Project #  
**335.010**

Lab Project #  
**ENCANLCO-RULE**

Collected by (print):  
**Jeff Brader**

Site/Facility ID #  
**Miller 2-17**

P.O. #

Collected by (signature):  
*[Signature]*  
 Immediately Packed on Ice **N Y T**

**Rush?** (Lab MUST Be Notified)  
 \_\_\_ Same Day .....200%  
 \_\_\_ Next Day .....100%  
 \_\_\_ Two Day .....50%  
 \_\_\_ Three Day .....25%

Date Results Needed  
 Email? \_\_\_ No  Yes  
 FAX?  No \_\_\_ Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
MW-01	Grab	GW	/	2-13-15	1215	2 X
MW-02		GW	/		1235	2 X
MW-03		GW	/		1315	2 X
MW-04		GW	/		1255	2 X

Analysis / Container / Preservative									
BTEX (2) 40ml Amb w/HCI									

Chain of Custody Page 4 of 4



12065 Lebanon Rd  
 Mount Juliet, TN 37122  
 Phone: 615-758-5858  
 Phone: 800-767-5859  
 Fax: 615-758-5859



L# **6749119**  
**H069**  
 Acctnum: **ENCANLCO**  
 Template:  
 Prelogin:  
 TSR:  
 Cooler:

Shipped Via:

Rem./Contaminant	Sample # (lab only)
	81
	82
	87
	81

\* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other \_\_\_\_\_  
 Remarks: **61941 4957 52041**

pH \_\_\_\_\_ Temp \_\_\_\_\_  
 Flow \_\_\_\_\_ Other \_\_\_\_\_

Relinquished by: (Signature)  
*[Signature]*  
 Relinquished by: (Signature)  
*[Signature]*  
 Relinquished by: (Signature)  
*[Signature]*

Date: **2/13/15** Time: **3:35**  
 Date: **2-13-15** Time: **5:30**

Received by: (Signature)  
*[Signature]*  
 Received by: (Signature)  
*[Signature]*  
 Received for lab by: (Signature)  
*[Signature]*

Samples returned via:  UPS  
 FedEx  Courier  \_\_\_\_\_  
 Temp: **7.1** °C Bottles Received: **8 VP**  
 Date: **02-14-15** Time: **0940**

Hold # \_\_\_\_\_  
 Condition: (lab use only)  
**M3**  
 COC Seal Intact: \_\_\_ Y \_\_\_ N \_\_\_ NA  
 pH Checked: \_\_\_\_\_ NCF: \_\_\_\_\_



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Est. 1970

Blake Ford  
EnCana Oil & Gas - Longmont, CO  
10188 East I-25 Frontage Rd  
Firestone, CO 80504

## Report Summary

Tuesday June 02, 2015

Report Number: L766834

Samples Received: 05/22/15

Client Project: 335.010

Description: Miller 1-17

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

  
Jared Willis, ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,  
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,  
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,  
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,  
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,  
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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REPORT OF ANALYSIS

June 02, 2015

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 10188 East I-25 Frontage Rd  
 Firestone, CO 80504

Date Received : May 22, 2015  
 Description : Miller 1-17  
 Sample ID : MW-01  
 Collected By : Jeff Braden  
 Collection Date : 05/21/15 10:00

ESC Sample # : L766834-01  
 Site ID : MILLER 1-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/31/15	1
Toluene	BDL	5.0	ug/l	8260B	05/31/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/31/15	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/31/15	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	05/31/15	1
Dibromofluoromethane	89.8		% Rec.	8260B	05/31/15	1
a,a,a-Trifluorotoluene	103.		% Rec.	8260B	05/31/15	1
4-Bromofluorobenzene	102.		% Rec.	8260B	05/31/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

June 02, 2015

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 10188 East I-25 Frontage Rd  
 Firestone, CO 80504

Date Received : May 22, 2015  
 Description : Miller 1-17  
 Sample ID : MW-02  
 Collected By : Jeff Braden  
 Collection Date : 05/21/15 10:20

ESC Sample # : L766834-02  
 Site ID : MILLER 1-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/31/15	1
Toluene	BDL	5.0	ug/l	8260B	05/31/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/31/15	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/31/15	1
Surrogate Recovery						
Toluene-d8	99.4		% Rec.	8260B	05/31/15	1
Dibromofluoromethane	105.		% Rec.	8260B	05/31/15	1
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	05/31/15	1
4-Bromofluorobenzene	86.0		% Rec.	8260B	05/31/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

June 02, 2015

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 10188 East I-25 Frontage Rd  
 Firestone, CO 80504

Date Received : May 22, 2015  
 Description : Miller 1-17  
 Sample ID : MW-03  
 Collected By : Jeff Braden  
 Collection Date : 05/21/15 11:00

ESC Sample # : L766834-03  
 Site ID : MILLER 1-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/31/15	1
Toluene	BDL	5.0	ug/l	8260B	05/31/15	1
Ethylbenzene	8.8	1.0	ug/l	8260B	05/31/15	1
Total Xylenes	110	3.0	ug/l	8260B	05/31/15	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	05/31/15	1
Dibromofluoromethane	106.		% Rec.	8260B	05/31/15	1
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	05/31/15	1
4-Bromofluorobenzene	91.7		% Rec.	8260B	05/31/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/02/15 16:41 Printed: 06/02/15 16:50



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REPORT OF ANALYSIS

June 02, 2015

Blake Ford  
 EnCana Oil & Gas - Longmont, CO  
 10188 East I-25 Frontage Rd  
 Firestone, CO 80504

Date Received : May 22, 2015  
 Description : Miller 1-17  
 Sample ID : MW-04  
 Collected By : Jeff Braden  
 Collection Date : 05/21/15 10:40

ESC Sample # : L766834-04  
 Site ID : MILLER 1-17  
 Project # : 335.010

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	05/31/15	1
Toluene	BDL	5.0	ug/l	8260B	05/31/15	1
Ethylbenzene	BDL	1.0	ug/l	8260B	05/31/15	1
Total Xylenes	BDL	3.0	ug/l	8260B	05/31/15	1
Surrogate Recovery						
Toluene-d8	98.6		% Rec.	8260B	05/31/15	1
Dibromofluoromethane	103.		% Rec.	8260B	05/31/15	1
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	05/31/15	1
4-Bromofluorobenzene	87.5		% Rec.	8260B	05/31/15	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 06/02/15 16:41 Printed: 06/02/15 16:50



September 10, 2015

## EnCana Oil & Gas - Longmont, CO

Sample Delivery Group: L785922  
Samples Received: 08/29/2015  
Project Number: 335.010  
Description: Miller 1-17  
Site: MILLER 1-17  
Report To: Blake Ford  
10188 East I-25 Frontage Rd  
Firestone, CO 80504

Entire Report Reviewed By:



Jarred Willis  
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



<b><sup>1</sup>Cp: Cover Page</b>	<b>1</b>
<b><sup>2</sup>Tc: Table of Contents</b>	<b>2</b>
<b><sup>3</sup>Ss: Sample Summary</b>	<b>3</b>
<b><sup>4</sup>Cn: Case Narrative</b>	<b>4</b>
<b><sup>5</sup>Sr: Sample Results</b>	<b>5</b>
MW-01 L785922-01	5
MW-02 L785922-02	6
MW-03 L785922-03	7
MW-04 L785922-04	8
<b><sup>6</sup>Gl: Glossary of Terms</b>	<b>9</b>
<b><sup>7</sup>Al: Accreditations &amp; Locations</b>	<b>10</b>
<b><sup>8</sup>Sc: Chain of Custody</b>	<b>11</b>



# SAMPLE SUMMARY



## MW-01 L785922-01 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812410	1	09/06/15 07:55	09/06/15 07:55	KLO

Collected by Erin Zenger  
 Collected date/time 08/28/15 12:22  
 Received date/time 08/29/15 09:00

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

## MW-02 L785922-02 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812410	1	09/06/15 08:19	09/06/15 08:19	KLO

Collected by Erin Zenger  
 Collected date/time 08/28/15 12:43  
 Received date/time 08/29/15 09:00

<sup>4</sup> Cn

<sup>5</sup> Sr

## MW-03 L785922-03 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG814061	5	09/09/15 15:59	09/09/15 15:59	KLO

Collected by Erin Zenger  
 Collected date/time 08/28/15 13:24  
 Received date/time 08/29/15 09:00

<sup>6</sup> Gl

<sup>7</sup> Al

## MW-04 L785922-04 GW

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260B	WG812410	1	09/06/15 09:07	09/06/15 09:07	KLO

Collected by Erin Zenger  
 Collected date/time 08/28/15 13:02  
 Received date/time 08/29/15 09:00

<sup>8</sup> Sc



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jarred Willis  
Technical Service Representative

- <sup>1</sup> Cp
- <sup>2</sup> Tc
- <sup>3</sup> Ss
- <sup>4</sup> Cn
- <sup>5</sup> Sr
- <sup>6</sup> Gl
- <sup>7</sup> Al
- <sup>8</sup> Sc



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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	09/06/2015 07:55	WG812410
Toluene	ND		5.00	1	09/06/2015 07:55	WG812410
Ethylbenzene	ND		1.00	1	09/06/2015 07:55	WG812410
Total Xylenes	ND		3.00	1	09/06/2015 07:55	WG812410
<i>(S) Toluene-d8</i>	104		90.0-115		09/06/2015 07:55	WG812410
<i>(S) Dibromofluoromethane</i>	88.4		79.0-121		09/06/2015 07:55	WG812410
<i>(S) a,a,a-Trifluorotoluene</i>	109		90.4-116		09/06/2015 07:55	WG812410
<i>(S) 4-Bromofluorobenzene</i>	106		80.1-120		09/06/2015 07:55	WG812410

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Gl
- 7 Al
- 8 Sc



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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	09/06/2015 08:19	WG812410
Toluene	ND		5.00	1	09/06/2015 08:19	WG812410
Ethylbenzene	ND		1.00	1	09/06/2015 08:19	WG812410
Total Xylenes	ND		3.00	1	09/06/2015 08:19	WG812410
<i>(S) Toluene-d8</i>	98.4		90.0-115		09/06/2015 08:19	WG812410
<i>(S) Dibromofluoromethane</i>	91.4		79.0-121		09/06/2015 08:19	WG812410
<i>(S) a,a,a-Trifluorotoluene</i>	98.6		90.4-116		09/06/2015 08:19	WG812410
<i>(S) 4-Bromofluorobenzene</i>	103		80.1-120		09/06/2015 08:19	WG812410

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Gl
- 7 Al
- 8 Sc



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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		5.00	5	09/09/2015 15:59	WG814061
Toluene	ND		25.0	5	09/09/2015 15:59	WG814061
Ethylbenzene	68.8		5.00	5	09/09/2015 15:59	WG814061
Total Xylenes	1100		15.0	5	09/09/2015 15:59	WG814061
<i>(S) Toluene-d8</i>	105		90.0-115		09/09/2015 15:59	WG814061
<i>(S) Dibromofluoromethane</i>	98.3		79.0-121		09/09/2015 15:59	WG814061
<i>(S) a,a,a-Trifluorotoluene</i>	97.8		90.4-116		09/09/2015 15:59	WG814061
<i>(S) 4-Bromofluorobenzene</i>	101		80.1-120		09/09/2015 15:59	WG814061

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Gl
- 7 Al
- 8 Sc



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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Benzene	ND		1.00	1	09/06/2015 09:07	WG812410
Toluene	ND		5.00	1	09/06/2015 09:07	WG812410
Ethylbenzene	ND		1.00	1	09/06/2015 09:07	WG812410
Total Xylenes	ND		3.00	1	09/06/2015 09:07	WG812410
<i>(S) Toluene-d8</i>	101		90.0-115		09/06/2015 09:07	WG812410
<i>(S) Dibromofluoromethane</i>	87.0		79.0-121		09/06/2015 09:07	WG812410
<i>(S) a,a,a-Trifluorotoluene</i>	108		90.4-116		09/06/2015 09:07	WG812410
<i>(S) 4-Bromofluorobenzene</i>	106		80.1-120		09/06/2015 09:07	WG812410

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Sr
- 6 Gl
- 7 Al
- 8 Sc



Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
-----------	-------------

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

<sup>1</sup> Cp

<sup>2</sup> Tc

<sup>3</sup> Ss

<sup>4</sup> Cn

<sup>5</sup> Sr

<sup>6</sup> Gl

<sup>7</sup> Al

<sup>8</sup> Sc



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## State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Connecticut	PH-0197	North Carolina <sup>1</sup>	DW21704
Florida	E87487	North Carolina <sup>2</sup>	41
Georgia	NELAP	North Dakota	R-140
Georgia <sup>1</sup>	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky <sup>1</sup>	90010	South Dakota	n/a
Kentucky <sup>2</sup>	16	Tennessee <sup>14</sup>	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas <sup>5</sup>	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

<sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>n/a</sup> Accreditation not applicable

## Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
Canada	1461.01	DOD	1461.01
EPA–Crypto	TN00003	USDA	S-67674

## Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**

