

August 19, 2015

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

**RE: Remediation Activity 2014 Annual Report
Encana Oil & Gas (USA) Inc.
Miller 2-17 Tank Battery
API 05-123-16647
COGCC Remediation # 6820
Weld County, Colorado**

Dear Mr. Canfield:

Rule Engineering, LLC has prepared this report on behalf of Encana Oil and Gas (USA), Inc., to summarize activities conducted in 2014 to address petroleum hydrocarbon impacts at the Miller 2-17 Tank Battery (site). The site is located approximately 1,600 feet southwest of the intersection of County Road (CR) 22 and CR 17, Weld County, Colorado (Figure 1). A site map is included as Figure 2.

BACKGROUND

Following the discovery of petroleum impacted soils, a limited excavation was completed in December 2011. The excavation was approximately 40 feet east to west and 45 feet north to south and ten feet deep. Stained soils were observed from ground surface to nine feet below ground surface (bgs). Ten soil samples were collected from the excavation sidewalls and floor, and a groundwater sample was collected from the excavation. Soil analytical results indicated that two sidewall samples and one floor sample were reported above the COGCC allowable limit for total petroleum hydrocarbons (TPH). The groundwater sample was reported above the allowable limit for benzene and xylenes. As a result of the analytical results, a second excavation was completed. Additional soil samples were collected from the excavation and were reported below the

allowable limit. Three monitoring wells were installed on January 12, 2012. Groundwater monitoring has continued at the site since well installation.

ADDITIONAL ASSESSMENT

Four two-inch monitoring wells, MW-01 through MW-04, were installed on July 9, 2014. Boring logs and well completion summaries are included as Attachment A. The wells were installed using a truck-mounted drill rig and hollow stem augers. Soil samples were collected from each well location. All samples were reported below the allowable limit for benzene, toluene, ethylbenzene, and xylene (BTEX) and TPH. Soil analytical data is included in Table 1 and laboratory reports are included as Attachment B. A soil analytical map is included as Figure 3.

2014 MONITORING RESULTS

Groundwater samples were collected from each well and analyzed quarterly for BTEX. Quarterly groundwater monitoring was conducted on the one inch wells on March 20, 2014 and June 18, 2014. Groundwater monitoring on the two inch wells was conducted on September 24, 2014 and December 10, 2014. Prior to sampling, groundwater depth is measured in each well and temperature, specific conductivity, dissolved oxygen, pH, and oxidation reduction potential parameters are taken with a field instrument and recorded. The groundwater measurements and field parameters are summarized in Table 2. Groundwater ranged from a depth of 3.21 feet bgs in MW-04 on December 10, 2014, to 7.33 feet bgs in MW-01 on December 10, 2014. Groundwater flow is to the north. A groundwater elevation map from fourth quarter 2014 is included as Figure 4.

BTEX was reported below the COGCC Table 910 allowable limits in MW-01, MW-02, and MW-04 during third and fourth quarter 2014. Xylenes were detected above the allowable limit in MW-03 during second and third quarter 2014, and increased from 1,400 µg/L to 2,600 µg/L. Xylenes were reported below the allowable limit in MW-03 during fourth quarter 2014. Groundwater analytical data is summarized in Table 3. Groundwater analytical data for third and fourth quarter 2014 are shown on Figures 5a through 5b.

CONCLUSION

The excavation in 2011 removed a majority of the impacted soils from the site. Benzene concentrations in MW-03 were reported above the allowable limit from January 2012 to June 2013. Xylene has also decreased in MW-03 with the exception of third quarter 2014.

All other wells have been reported below the allowable limit since well installation. Per Water Quality Regulation 41, groundwater monitoring will continue until four consecutive quarters of groundwater samples below the Table 910 allowable limits have been obtained in order to request closure.

If you have any questions or require additional information please call me (303) 431-8500.

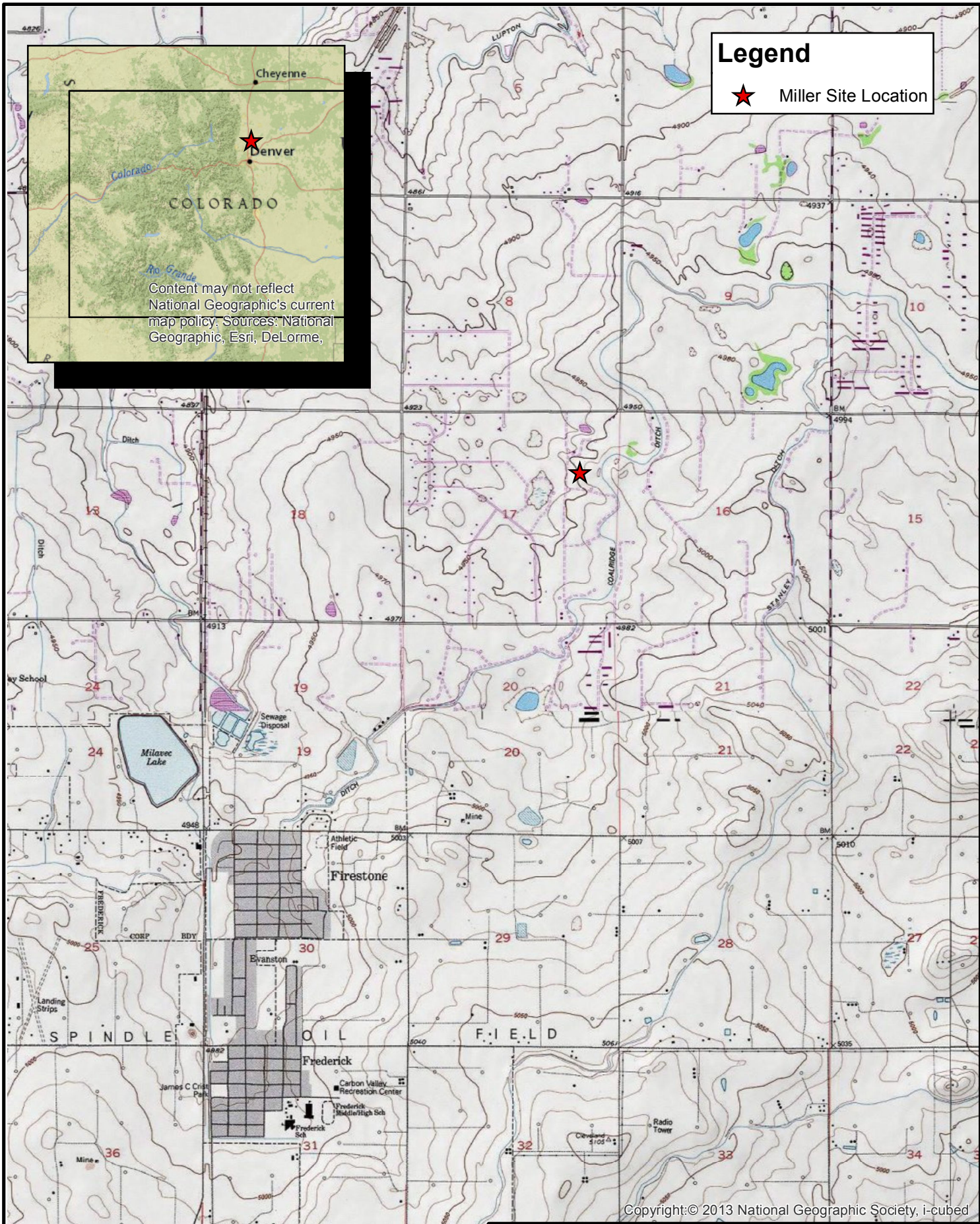
Sincerely,
Rule Engineering, LLC

Tracy Loftus

Tracy Loftus
Project Scientist

Cc: Blake Ford, Encana

Attachment A- Bore Logs
Attachment B- Laboratory Reports



Legend








 Miller Site Location



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

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Legend

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

MW-04









MW-03

MW-02

MW-01

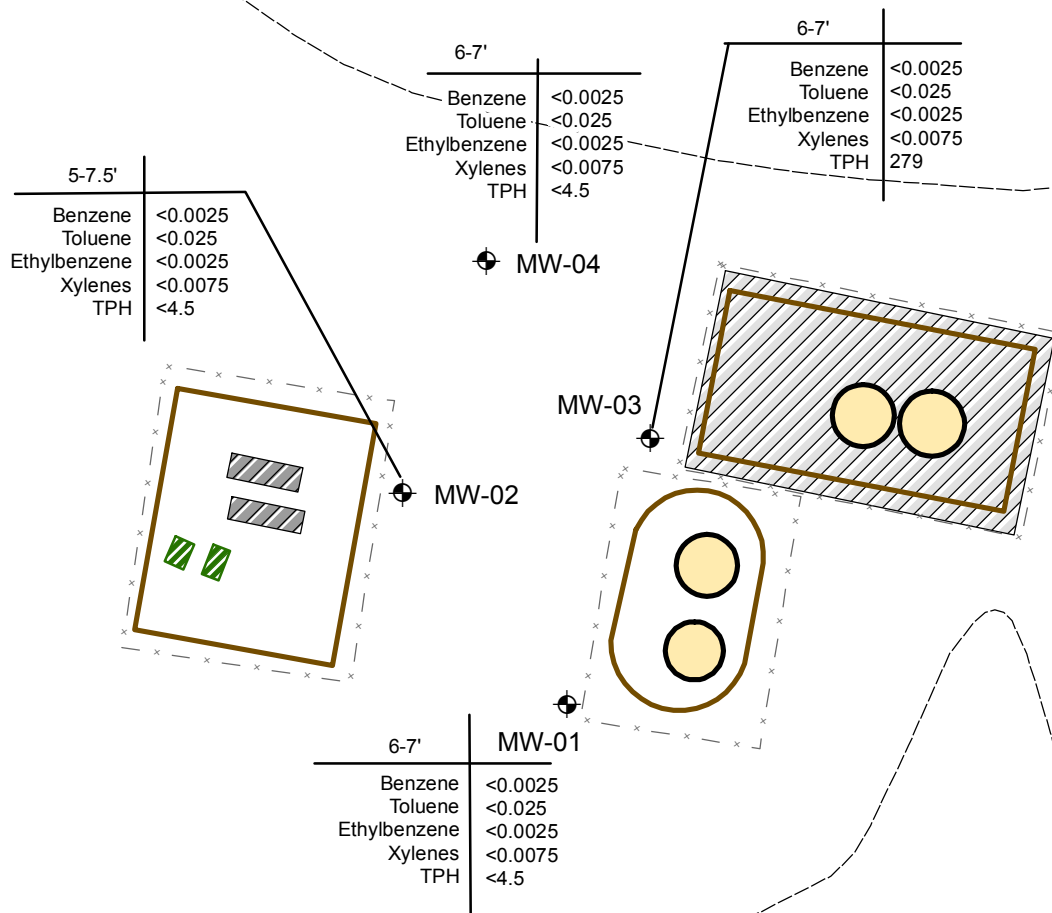
Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Legend

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

Notes:

TPH= Total Petroleum Hydrocarbons
as gasoline range organics and
diesel range organics.
All units in mg/kg.



Legend



Groundwater Flow Direction

0.5' Groundwater Contour



AST

Berm



Fence



Meter House



Monitoring Well

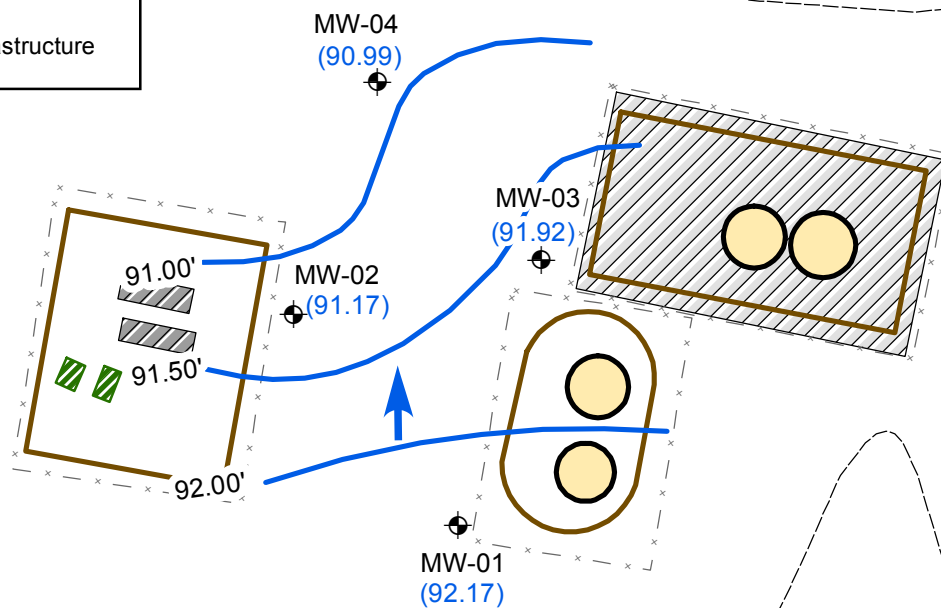


Separator









Work Surface



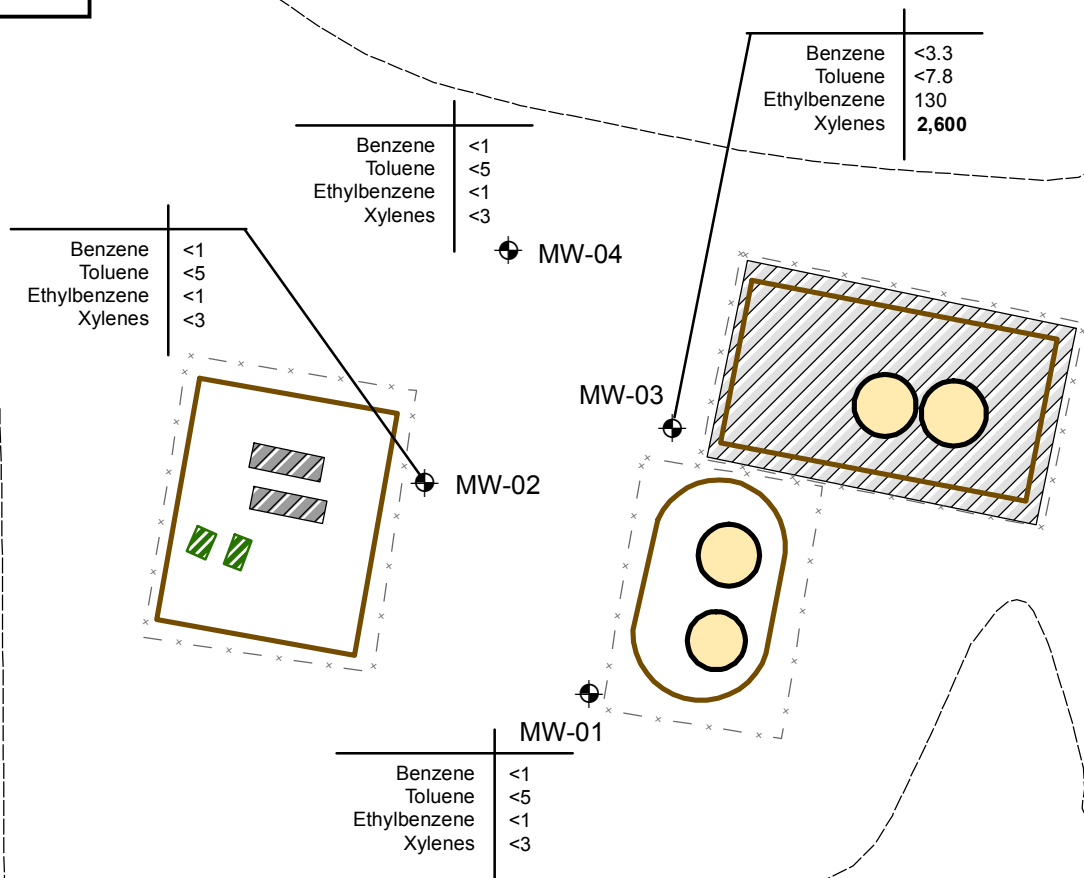
Machii-Ross Infrastructure











Legend

-  AST
-  Berm
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-  Work Surface

All units in µg/L.



Legend

-  AST
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-  Machii-Ross Infrastructure
-  Work Surface

All units in µg/L.

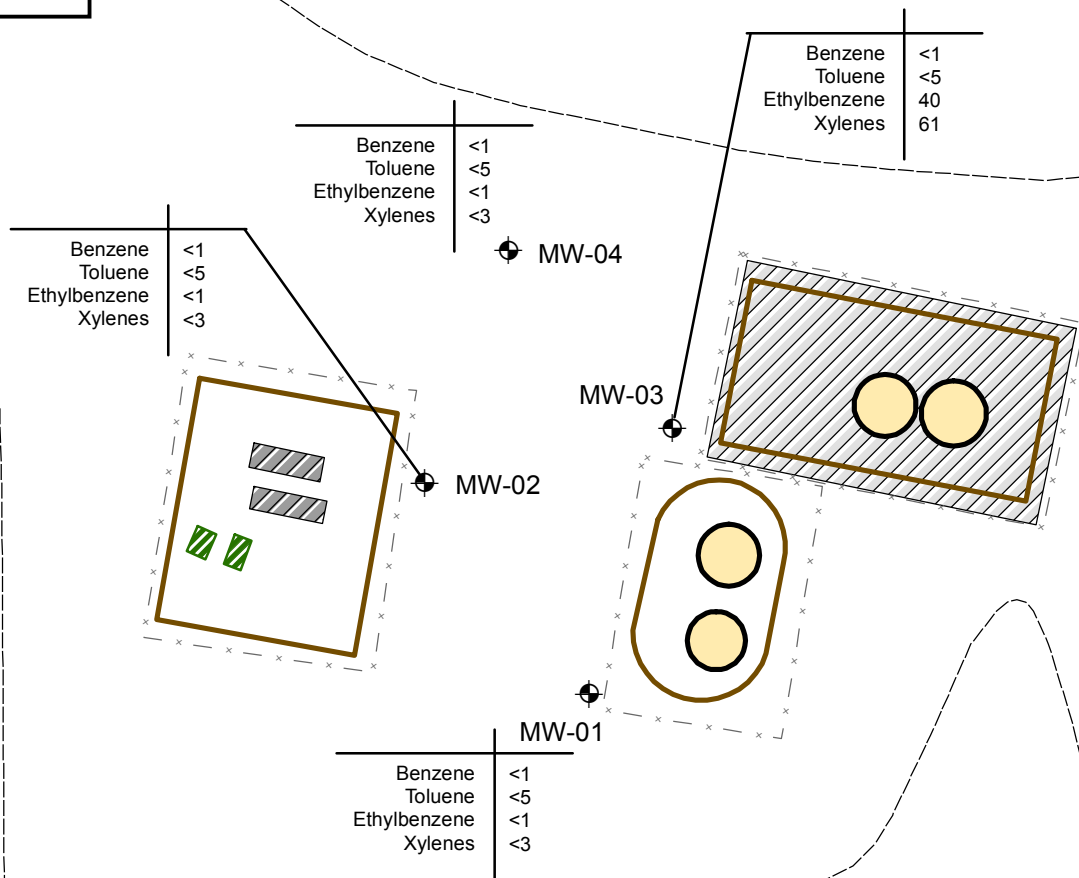


TABLE 1 - SOIL ANALYTICAL RESULTS
MILLER 2-17 TANK BATTERY
WELD COUNTY, COLORADO
ENCANA OIL & GAS (USA) INC.

Sample ID	Date	Depth (Feet)	PID (ppm)	BTEX/TPH						
				Benzene	Toluene	Ethylbenzene	Total Xylene	TPH-GRO	TPH-DRO	TPH
COGCC Table 910-1 Limit				0.17	85	100	175			500
MW-01	7/8/2014	6-7'	*	<0.0025	<0.025	<0.0025	<0.0075	<0.5	<4.0	<4.5
MW-02	7/8/2014	5-7.5'	*	<0.0025	<0.025	<0.0025	<0.0075	<0.5	<4.0	<4.5
MW-03	7/8/2014	6-7'	*	<0.0025	<0.025	<0.0025	<0.0075	200	79	279
MW-04	7/8/2014	6-7'	*	<0.0025	<0.025	<0.0025	<0.0075	<0.5	<4.0	<4.5

Sample ID	Date	Metals											
		Arsenic	Barium	Cadmium	Chromium III	Chromium VI	Copper	Lead	Mercury	Nickel	Selenium	Silver	Zinc
COGCC Table 910-1 Limit		0.39	15000	70	120000	23	3100	400	23	1600	390	390	23000
MW-02	7/8/2014	3.2	84.0	<0.50	13.0	<2.0	10	8.7	<0.02	8.7	<2.0	<1.0	35

Sample ID	Date	PAHs												Inorganics			
		Anthracene	Acenaphthene	Benzo(A)anthracene	Benzo(A)pyrene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-C,D)pyrene	Naphthalene	Pyrene	pH (su)	Sodium Adsorption Ratio (calc)	Electrical Conductance (umhos/cm)
		1000	1000	0.22	0.022	0.22	2.2	22	0.022	1000	1000	0.22	23	1000	6-9	<12 ⁵	<4000
MW-02	7/8/2014	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.006	<0.02	<0.006	8.2	1.8	310	

COGCC = Colorado Oil and Gas Conservation Commission

All units in mg/kg unless otherwise noted

TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

Note: Values presented in bold typeface exceed their respective COGCC Table 910-1 Regulatory Limits.

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

* = data not available

TABLE 2- GROUNDWATER ELEVATION SUMMARY AND WATER QUALITY FIELD PARAMETERS
MILLER 2-17 TANK BATTERY
WELD COUNTY, COLORADO
ENCANA OIL & GAS (USA) INC.

Sample ID	Date	Depth to Water (feet)	Groundwater Elevation (feet)	Groundwater Quality Field Parameters				
				Temperature (°C)	Conductivity (µS/cm)	ORP (mV)	Dissolved Oxygen (mg/L)	pH (SU)
MW-01	6/20/2013	*	*	17.80	836	132.8	6.68	7.26
MW-01	9/23/2013	*	*	18.00	720	59.3	3.64	7.26
MW-01	12/16/2013	*	*	12.40	825	21.3	2.79	8.06
MW-01	3/20/2014	*	*	8.90	964	54.0	6.93	7.49
MW-01	6/18/2014	*	*	*	*	*	*	*
MW-01	9/24/2014	*	*	*	*	*	*	*
MW-01	12/10/2014	7.33	92.17	12.00	712	227.3	0.52	7.04
TOC Elevation (ft)	99.50							
MW-02	6/20/2013	*	*	19.70	1,731	43.9	5.15	7.60
MW-02	9/23/2013	*	*	18.90	1,860	89.5	0.70	6.87
MW-02	12/16/2013	*	*	11.70	1,761	109.4	0.27	6.55
MW-02	3/20/2014	*	*	9.90	1,583	79.2	1.85	6.90
MW-02	6/18/2014	*	*	*	*	*	*	*
MW-02	9/24/2014	*	*	*	*	*	*	*
MW-02	12/10/2014	6.94	91.17	12.00	1,086	249.8	0.66	7.03
TOC Elevation (ft)	98.11							
MW-03	6/20/2013	*	*	18.20	1,014	-76.5	0.59	6.58
MW-03	9/23/2013	*	*	19.20	1,327	-54.7	0.20	7.04
MW-03	12/16/2013	*	*	12.20	1,379	-110.7	0.43	6.96
MW-03	3/20/2014	*	*	10.80	1,236	-94.1	2.24	7.23
MW-03	6/18/2014	*	*	*	*	*	*	*
MW-03	9/24/2014	*	*	*	*	*	*	*
MW-03	12/10/2014	5.77	91.92	10.30	1,180	-26.9	0.62	6.54
TOC Elevation (ft)	97.69							
MW-04	9/24/2014	*	*	*	*	*	*	*
MW-04	12/10/2014	3.21	90.99	10.50	919	-0.7	3.46	7.14
TOC Elevation (ft)	94.20							

NOTES:

TOC - top of casing

*- information not available

°C - degrees Celsius

µS/cm - microsiemens per centimeter

mV - millivolts

mg/L - milligram per liter

SU - standard unit

TABLE 3- GROUNDWATER ANALYTICAL RESULTS - ORGANIC COMPOUNDS
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)
COGCC Table 910-1 Limit		5	560	700	1,400
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-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-03	1/18/2012	24	< 1	150	4,000
MW-03	4/13/2012	45	1.1	270	3,700
MW-03	7/2/2012	13	< 1	86	2,200
MW-03	10/3/2012	7.5	< 1	79	1,060
MW-03	1/16/2013	11	< 1	19	2,200
MW-03	6/20/2013	7.8	< 5	140	2,900
MW-03	9/23/2013	<50	< 250	260	5,700
MW-03	12/16/2013	4.7	< 50	110	1,700
MW-03	3/20/2014	< 5	< 25	91	1,200
MW-03	6/18/2014	< 5	< 25	100	1,400
MW-03	9/24/2014	< 3.3	< 7.8	130	2,600
MW-03	12/10/2014	< 1	< 5	40	61
MW-04	9/24/2014	< 1	< 5	< 1	< 3
MW-04	12/10/2014	< 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

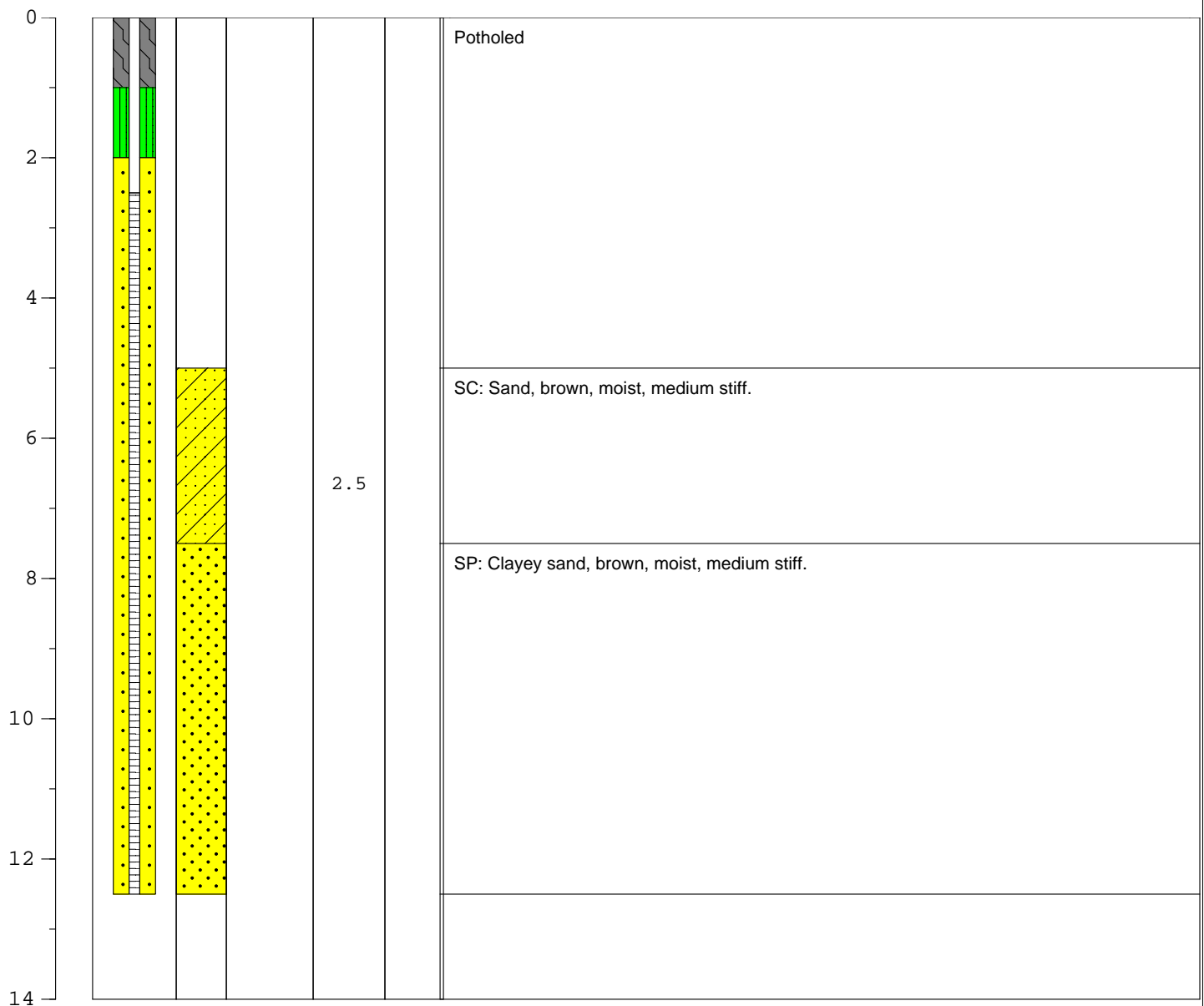
Benzene, toluene, ethylbenzene, and total xylenes analyzed by EPA Method 8260B

Attachment A

Bore Logs

CLIENT:	Encana	PROJECT #:		NORTHING:	
DRILLING CO.:	Site Services Inc	LOGGED BY:	B. Ford	EASTING:	
DATE DRILLED:	7/9/2014	DRILLER:		SURFACE ELEV:	ft
LOCATION:	Miller 2-17	DRILLING METHOD:	HSA	CASING ELEV:	ft
SCREEN DIAM:	2 in	SCREEN:	10 ft	SLOT SIZE:	0.01 in
CASING DIAM:	2 in	CAS LENGTH:	2.5 ft	TYPE:	PVC
BORING DEPTH:	12.5 ft	WELL DEPTH:	12.5 ft	BORING DIAM:	8 in
WELL TYPE:	Stick up	SAMPLING METHOD:	Split Spoon	DEPTH TO GW:	ft

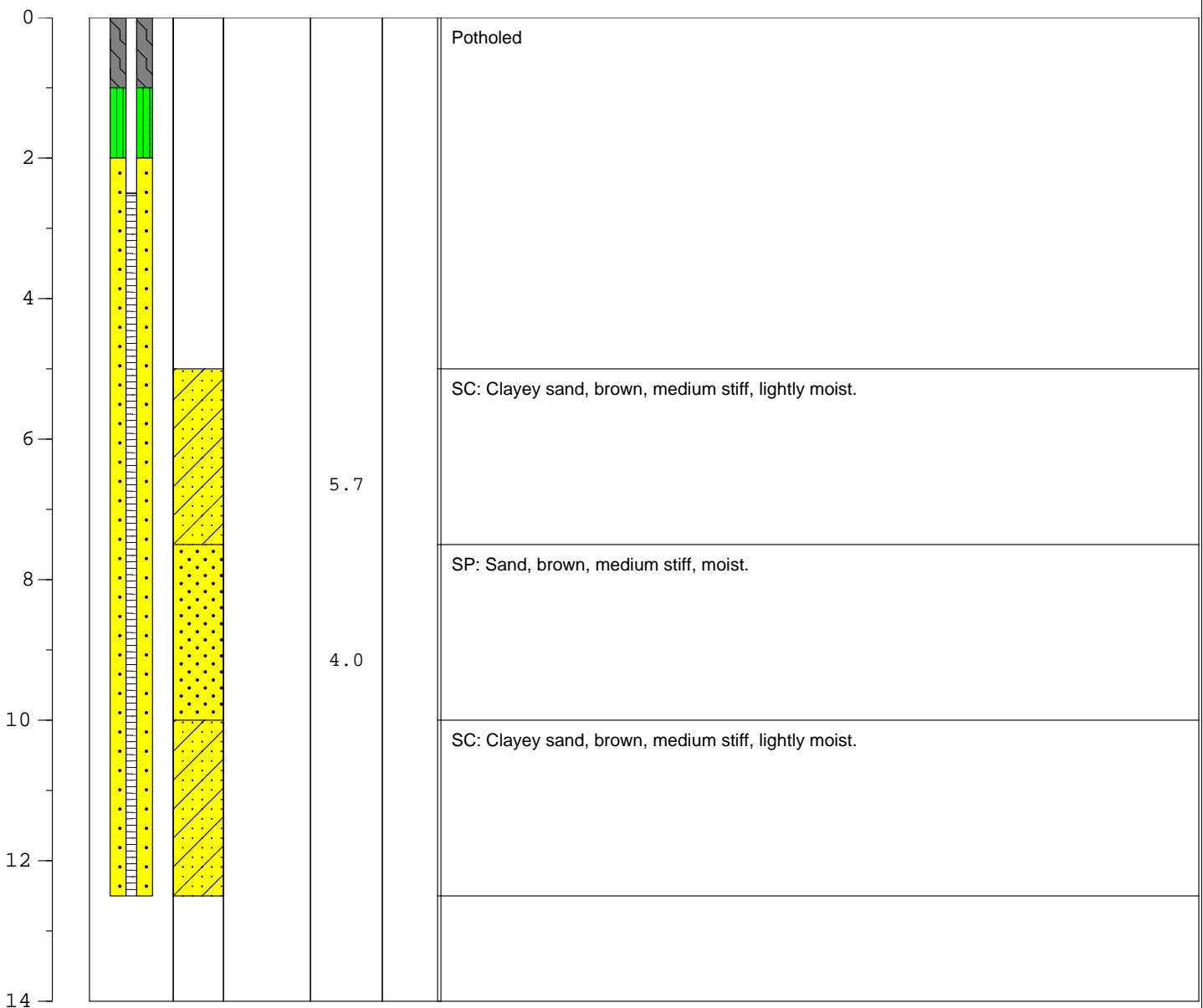
DEPTH (ft BGS)	WELL LOG	SOIL LOG	BLOWS / ft.	PID ppm	% REC	SOIL DESCRIPTION
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NOTES:

CLIENT:	Encana	PROJECT #:		NORTHING:	
DRILLING CO.:	Site Services Inc	LOGGED BY:	B. Ford	EASTING:	
DATE DRILLED:	7/9/2014	DRILLER:		SURFACE ELEV:	ft
LOCATION:	Miller 2-17	DRILLING METHOD:	HSA	CASING ELEV:	ft
SCREEN DIAM:	2 in	SCREEN:	10 ft	SLOT SIZE:	0.01 in
CASING DIAM:	2 in	CAS LENGTH:	2.5 ft	TYPE:	PVC
BORING DEPTH:	12.5 ft	WELL DEPTH:	12.5 ft	BORING DIAM:	8 in
WELL TYPE:	Stick up	SAMPLING METHOD:	Splitspoon	DEPTH TO GW:	ft

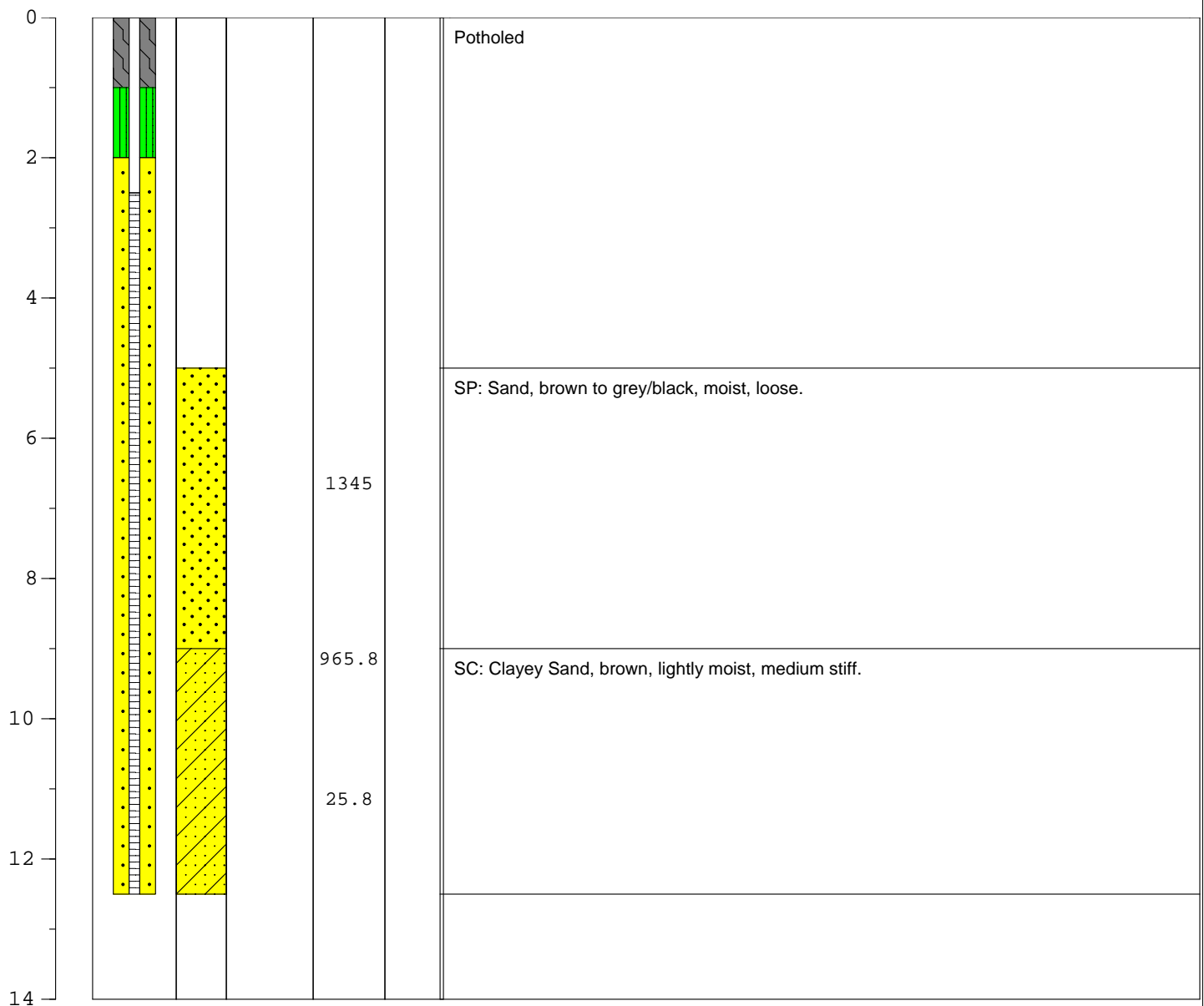
DEPTH (ft BGS)	WELL LOG	SOIL LOG	BLOWS / ft.	PID ppm	% REC	SOIL DESCRIPTION
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NOTES:

CLIENT:	Encana	PROJECT #:		NORTHING:	
DRILLING CO.:	Site Services Inc	LOGGED BY:	B. Ford	EASTING:	
DATE DRILLED:	7/9/2014	DRILLER:		SURFACE ELEV:	ft
LOCATION:	Miller 2-17	DRILLING METHOD:	HSA	CASING ELEV:	ft
SCREEN DIAM:	2 in	SCREEN:	10 ft	SLOT SIZE:	0.01 in
CASING DIAM:	2 in	CAS LENGTH:	2.5 ft	TYPE:	PVC
BORING DEPTH:	12.5 ft	WELL DEPTH:	12.5 ft	BORING DIAM:	8 in
WELL TYPE:	Stick up	SAMPLING METHOD:	Splitspoon	DEPTH TO GW:	ft

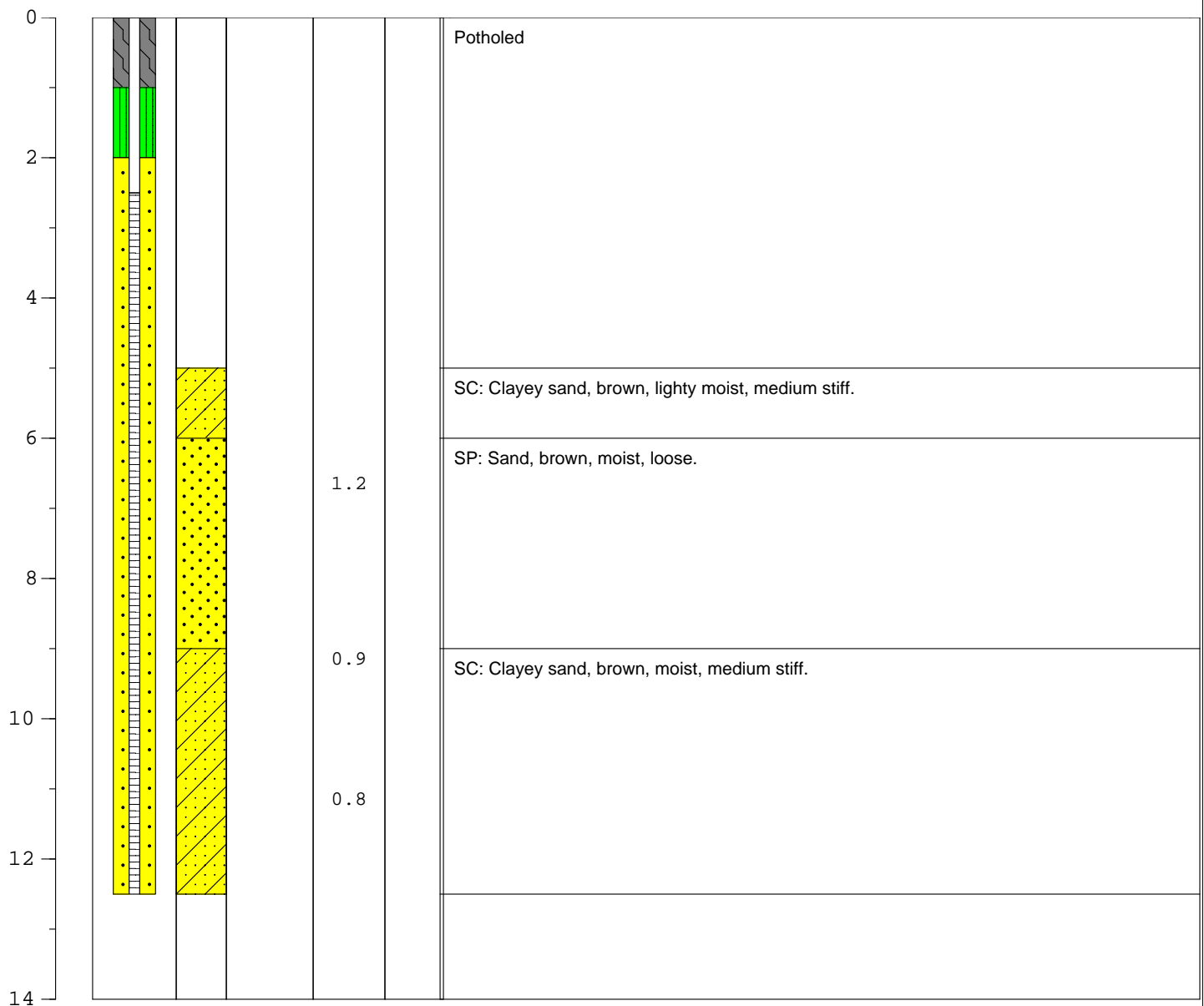
DEPTH (ft BGS)	WELL LOG	SOIL LOG	BLOWS / ft.	PID ppm	% REC	SOIL DESCRIPTION
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NOTES:

CLIENT:	Encana	PROJECT #:		NORTHING:	
DRILLING CO.:	Site Services Inc	LOGGED BY:	B. Ford	EASTING:	
DATE DRILLED:	7/9/2014	DRILLER:		SURFACE ELEV:	ft
LOCATION:	Miller 2-17	DRILLING METHOD:	HSA	CASING ELEV:	ft
SCREEN DIAM:	2 in	SCREEN:	10 ft	SLOT SIZE:	0.01 in
CASING DIAM:	2 in	CAS LENGTH:	2.5 ft	TYPE:	PVC
BORING DEPTH:	12.5 ft	WELL DEPTH:	12.5 ft	BORING DIAM:	8 in
WELL TYPE:	Stick up	SAMPLING METHOD:	Split spoon	DEPTH TO GW:	ft

DEPTH (ft BGS)	WELL LOG	SOIL LOG	BLOWS / ft.	PID ppm	% REC	SOIL DESCRIPTION
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NOTES:

Attachment B

Laboratory Reports



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

Tax I.D. 62-0814289

Est. 1970

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

Report Summary

Tuesday April 01, 2014

Report Number: L689243


Samples Received: 03/21/14

Client Project: E13366 EC

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

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

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

April 01, 2014

Date Received : March 21, 2014
Description : Miller 2-17
Sample ID : MILLER2-17-MW01-032014
Collected By : Joe Pieterick
Collection Date : 03/20/14 10:46

ESC Sample # : L689243-01

Site ID :

Project # : E13366 EC

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	96000	1000	ug/l	9056	03/21/14	1
Nitrate	4300	100	ug/l	9056	03/21/14	1
Sulfate	97000	5000	ug/l	9056	03/21/14	1
Dissolved Solids	570000	10000	ug/l	2540 C-201	03/25/14	1
Benzene	BDL	1.0	ug/l	8260B	03/27/14	1
Toluene	BDL	5.0	ug/l	8260B	03/27/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	03/27/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	03/27/14	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	03/27/14	1
Dibromofluoromethane	101.		% Rec.	8260B	03/27/14	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	03/27/14	1
4-Bromofluorobenzene	99.4		% Rec.	8260B	03/27/14	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: 03/28/14 09:29 Revised: 04/01/14 10:13



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

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

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

April 01, 2014

Date Received : March 21, 2014
Description : Miller 2-17
Sample ID : MILLER2-17-MW02-032014
Collected By : Joe Pieterick
Collection Date : 03/20/14 11:27

ESC Sample # : L689243-02

Site ID :

Project # : E13366 EC

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	45000	10000	ug/l	9056	03/21/14	10
Nitrate	52000	1000	ug/l	9056	03/21/14	10
Sulfate	350000	50000	ug/l	9056	03/21/14	10
Dissolved Solids	1200000	10000	ug/l	2540 C-201	03/25/14	1
Benzene	BDL	1.0	ug/l	8260B	03/27/14	1
Toluene	BDL	5.0	ug/l	8260B	03/27/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	03/27/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	03/27/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	03/27/14	1
Dibromofluoromethane	104.		% Rec.	8260B	03/27/14	1
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	03/27/14	1
4-Bromofluorobenzene	100.		% Rec.	8260B	03/27/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 03/28/14 09:29 Revised: 04/01/14 10:13



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Est. 1970

REPORT OF ANALYSIS

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

April 01,2014

Date Received : March 21, 2014
Description : Miller 2-17
Sample ID : MILLER2-17-MW03-032014
Collected By : Joe Pieterick
Collection Date : 03/20/14 12:15

ESC Sample # : L689243-03

Site ID :

Project # : E13366 EC

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chloride	23000	1000	ug/l	9056	03/21/14	1
Nitrate	BDL	100	ug/l	9056	03/21/14	1
Sulfate	200000	25000	ug/l	9056	03/22/14	5
Dissolved Solids	750000	10000	ug/l	2540 C-201	03/25/14	1
Benzene	BDL	5.0	ug/l	8260B	03/29/14	5
Toluene	BDL	25.	ug/l	8260B	03/29/14	5
Ethylbenzene	91.	5.0	ug/l	8260B	03/29/14	5
Total Xylenes	1200	15.	ug/l	8260B	03/29/14	5
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	03/29/14	5
Dibromofluoromethane	92.6		% Rec.	8260B	03/29/14	5
a,a,a-Trifluorotoluene	106.		% Rec.	8260B	03/29/14	5
4-Bromofluorobenzene	112.		% Rec.	8260B	03/29/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 03/28/14 09:29 Revised: 04/01/14 10:13

Company Name/Address:

ENCANLCOEncana Oil and Gas
3601 Stagecoach Rd.
Longmont, CO 80504

Billing Information:

Encana oil and Gas

Attn: Blake Ford

ENCANLCO-WASSENAAR

Report to:

B. Ford, Joe Pietrick, Charlie Jensen

Email To:

David.Ford@encana.com, pietrick@

Project

Description: **MILLER 2-17**City/State
Collected:Phone: **970-379-5558**

Fax:

Client Project #

E13366.EC

Lab Project #

ENCANLCO-WASSENAAR

Collected by (print):

JOE PIETRICK

Site/Facility ID #

P.O. #

Collected by (signature):

Joe Pietrick

Rush? (Lab MUST Be Notified)

☐ Same Day200%
☐ Next Day100%
☐ Two Day50%
☐ Three Day25%

Date Results Needed

Email? ☐ No ☒ YesFAX? ☐ No ☐ YesNo.
of
Cntrs

Sample ID

Comp/Grab

Matrix *

Depth

Date

Time

Miller2-17-MW01-032014

GW

3-20-14

10:46

4

Miller2-17-MW02-032014

GW

3-20-14

11:27

4

Miller2-17-MW03-032014

GW

3-20-14

12:15

4

Analysis / Container / Preservative

BTEX (2) 40ml Amb w/HCl

TDS (1) 250ml HDPE No Pres.

Nitrate/Sulfate/Chloride (1) 250ml HDPE No P(res).

Chain of Custody Page ___ of ___



YOUR LAB OF CHOICE

 12065 Lebanon Rd
 Mount Juliet, TN 37122
 Phone: 615-758-5858
 Phone: 800-767-5859
 Fax: 615-758-5859
L# **L689243****A154**Acctnum: **ENCANLCO**

Template:

Prelogin:

TSR:

Cooler:

Shipped Via:

Rem./Contaminant

Sample # (lab only)

01

02

03

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks:

Relinquished by: (Signature)

Date:

3-20-14

Time:

13:55

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)

pH _____ Temp _____

Flow _____ Other _____

Samples returned via: ☐ UPS☒ FedEx ☐ Courier ☐ _____

Temp: _____ °C Bottles Received:

36

Date:

3-21-14

Time:

1000

Hold #

Condition: **F** (lab use only)COC Seal Intact: ☒ Y ☐ N ☐ NA

pH Checked:

NCP



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

Report Summary

Monday June 23, 2014

Report Number: L705578


Samples Received: 06/19/14

Client Project: E13366-EC

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

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

June 23, 2014

Date Received : June 19, 2014
Description : Miller 2-17
Sample ID : MILLER2-17-MW01-061814
Collected By : Joe Pieterick
Collection Date : 06/18/14 09:56

ESC Sample # : L705578-01

Site ID :

Project # : E13366-EC

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	06/22/14	1
Toluene	BDL	5.0	ug/l	8260B	06/22/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	06/22/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	06/22/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	06/22/14	1
Dibromofluoromethane	108.		% Rec.	8260B	06/22/14	1
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	06/22/14	1
4-Bromofluorobenzene	98.9		% Rec.	8260B	06/22/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/23/14 12:43 Printed: 06/23/14 12:43



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REPORT OF ANALYSIS

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

June 23, 2014

Date Received : June 19, 2014
Description : Miller 2-17
Sample ID : MILLER2-17-MW02-061814
Collected By : Joe Pieterick
Collection Date : 06/18/14 09:19

ESC Sample # : L705578-02

Site ID :

Project # : E13366-EC

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	06/22/14	1
Toluene	BDL	5.0	ug/l	8260B	06/22/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	06/22/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	06/22/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	06/22/14	1
Dibromofluoromethane	114.		% Rec.	8260B	06/22/14	1
a,a,a-Trifluorotoluene	104.		% Rec.	8260B	06/22/14	1
4-Bromofluorobenzene	98.1		% Rec.	8260B	06/22/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 06/23/14 12:43 Printed: 06/23/14 12:43



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REPORT OF ANALYSIS

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

June 23, 2014

Date Received : June 19, 2014
Description : Miller 2-17
Sample ID : MILLER2-17-MW03-061814
Collected By : Joe Pieterick
Collection Date : 06/18/14 10:28

ESC Sample # : L705578-03

Site ID :

Project # : E13366-EC

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	5.0	ug/l	8260B	06/22/14	5
Toluene	BDL	25.	ug/l	8260B	06/22/14	5
Ethylbenzene	100	5.0	ug/l	8260B	06/22/14	5
Total Xylenes	1400	15.	ug/l	8260B	06/22/14	5
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	06/22/14	5
Dibromofluoromethane	114.		% Rec.	8260B	06/22/14	5
a,a,a-Trifluorotoluene	105.		% Rec.	8260B	06/22/14	5
4-Bromofluorobenzene	100.		% Rec.	8260B	06/22/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/23/14 12:43 Printed: 06/23/14 12:43

Summary of Remarks For Samples Printed
06/23/14 at 12:43:39

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: L705578-01 Account: ENCANLCO Received: 06/19/14 09:00 Due Date: 06/26/14 00:00 RPT Date: 06/23/14 12:43

Sample: L705578-02 Account: ENCANLCO Received: 06/19/14 09:00 Due Date: 06/26/14 00:00 RPT Date: 06/23/14 12:43

Sample: L705578-03 Account: ENCANLCO Received: 06/19/14 09:00 Due Date: 06/26/14 00:00 RPT Date: 06/23/14 12:43



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

Report Summary

Thursday October 09, 2014

Report Number: L723754

Samples Received: 09/25/14

Client Project: 2-17

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:

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-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

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

October 09, 2014

Date Received : September 25, 2014
Description : Miller 2-17
Sample ID : MILLER2-17-MW01-092414
Collected By : Blake Ford
Collection Date : 09/24/14 10:01

ESC Sample # : L723754-01

Site ID : MILLER 2-17

Project # : 2-17

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	10/01/14	1
Toluene	BDL	5.0	ug/l	8260B	10/01/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	10/01/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	10/01/14	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	10/01/14	1
Dibromofluoromethane	91.1		% Rec.	8260B	10/01/14	1
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	10/01/14	1
4-Bromofluorobenzene	96.5		% Rec.	8260B	10/01/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/09/14 09:35 Revised: 10/09/14 14:11



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REPORT OF ANALYSIS

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

October 09, 2014

Date Received : September 25, 2014
Description : Miller 2-17
Sample ID : MILLER2-17-MW02-092414
Collected By : Blake Ford
Collection Date : 09/24/14 11:30

ESC Sample # : L723754-02

Site ID : MILLER 2-17

Project # : 2-17

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	10/01/14	1
Toluene	BDL	5.0	ug/l	8260B	10/01/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	10/01/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	10/01/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	10/01/14	1
Dibromofluoromethane	91.0		% Rec.	8260B	10/01/14	1
a,a,a-Trifluorotoluene	106.		% Rec.	8260B	10/01/14	1
4-Bromofluorobenzene	97.8		% Rec.	8260B	10/01/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/09/14 09:35 Revised: 10/09/14 14:11



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REPORT OF ANALYSIS

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

October 09, 2014

Date Received : September 25, 2014
Description : Miller 2-17
Sample ID : MILLER2-17-MW03-092414
Collected By : Blake Ford
Collection Date : 09/24/14 10:26

ESC Sample # : L723754-03

Site ID : MILLER 2-17

Project # : 2-17

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	3.3	ug/l	8260B	10/01/14	10
Toluene	BDL	7.8	ug/l	8260B	10/01/14	10
Ethylbenzene	130	10.	ug/l	8260B	10/01/14	10
Total Xylenes	2600	30.	ug/l	8260B	10/01/14	10
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	10/01/14	10
Dibromofluoromethane	93.4		% Rec.	8260B	10/01/14	10
a,a,a-Trifluorotoluene	107.		% Rec.	8260B	10/01/14	10
4-Bromofluorobenzene	95.2		% Rec.	8260B	10/01/14	10

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: 10/09/14 09:35 Revised: 10/09/14 14:11
L723754-03 (V8260BTEX) - xylene hits too high to run lower



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REPORT OF ANALYSIS

October 09, 2014

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

Date Received : September 25, 2014
Description : Miller 2-17
Sample ID : MILLER2-17-MW04-092414
Collected By : Blake Ford
Collection Date : 09/24/14 11:00

ESC Sample # : L723754-04

Site ID : MILLER 2-17

Project # : 2-17

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	1.0	ug/l	8260B	10/02/14	1
Toluene	BDL	5.0	ug/l	8260B	10/02/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	10/02/14	1
Total Xylenes	BDL	3.0	ug/l	8260B	10/02/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	10/02/14	1
Dibromofluoromethane	93.2		% Rec.	8260B	10/02/14	1
a,a,a-Trifluorotoluene	108.		% Rec.	8260B	10/02/14	1
4-Bromofluorobenzene	95.7		% Rec.	8260B	10/02/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/09/14 09:35 Revised: 10/09/14 14:11

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L723754-03	WG746220	SAMP	Benzene	R2994718	U
	WG746220	SAMP	Toluene	R2994718	U

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
U	BDL (EPA) - Below Detectable Limits: Indicates that the compound was analyzed but not detected.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods, it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Tax I.D. 62-0814289

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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Est. 1970

REPORT OF ANALYSIS

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

December 16, 2014

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



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

Tax I.D. 62-0814289

Est. 1970

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

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

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

December 16, 2014

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

