



12065 Lebanon Rd.
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Tax I.D. 62-0814289

Est. 1970

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

Report Summary

Wednesday October 08, 2014

Report Number: L725851

Samples Received: 10/07/14

Client Project: TR 3-19

Description: Trail Ridge 3-19

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

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (SPOILS S01)
Collected By : Chris McKisson
Collection Date : 10/06/14 11:15

ESC Sample # : L725851-01
Site ID : TR 3-19
Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	10/08/14	1
Chromium, Trivalent	40.	2.0	mg/kg	Calc.	10/08/14	1
ORP	-54.		mV	2580 B-2011	10/08/14	1
pH	9.3		su	9045D	10/08/14	1
Sodium Adsorption Ratio	15.			Calc.	10/08/14	1
Specific Conductance	1800		umhos/cm	9050AMod	10/08/14	1
Mercury	0.023	0.020	mg/kg	7471	10/08/14	1
Arsenic	3.0	2.0	mg/kg	6010B	10/07/14	1
Barium	680	0.50	mg/kg	6010B	10/07/14	1
Cadmium	0.61	0.50	mg/kg	6010B	10/07/14	1
Chromium	40.	1.0	mg/kg	6010B	10/07/14	1
Copper	16.	2.0	mg/kg	6010B	10/07/14	1
Lead	22.	0.50	mg/kg	6010B	10/07/14	1
Nickel	23.	2.0	mg/kg	6010B	10/07/14	1
Selenium	BDL	2.0	mg/kg	6010B	10/07/14	1
Silver	BDL	1.0	mg/kg	6010B	10/07/14	1
Zinc	66.	5.0	mg/kg	6010B	10/07/14	1
Benzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Toluene	BDL	0.025	mg/kg	8021	10/07/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	10/07/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	10/07/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.3		% Rec.	8015	10/07/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	10/07/14	5
TPH (GC/FID) High Fraction	310	80.	mg/kg	8015D/DRO	10/08/14	20
Surrogate recovery(%)						
o-Terphenyl	73.3		% Rec.	8015D/DRO	10/08/14	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.087	0.0060	mg/kg	8270C-SIM	10/08/14	1
Acenaphthene	0.048	0.0060	mg/kg	8270C-SIM	10/08/14	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L725851-01 (PH) - 9.3@21.7c
L725851-01 (DRO) - Dilution due to matrix



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Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (SPOILS S01)
Collected By : Chris McKisson
Collection Date : 10/06/14 11:15

ESC Sample # : L725851-01

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Chrysene	0.0089	0.0060	mg/kg	8270C-SIM	10/08/14	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Fluoranthene	0.0096	0.0060	mg/kg	8270C-SIM	10/08/14	1
Fluorene	0.090	0.0060	mg/kg	8270C-SIM	10/08/14	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Naphthalene	0.11	0.020	mg/kg	8270C-SIM	10/08/14	1
Phenanthrene	0.26	0.0060	mg/kg	8270C-SIM	10/08/14	1
Pyrene	0.076	0.0060	mg/kg	8270C-SIM	10/08/14	1
1-Methylnaphthalene	0.16	0.020	mg/kg	8270C-SIM	10/08/14	1
2-Methylnaphthalene	0.33	0.020	mg/kg	8270C-SIM	10/08/14	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	10/08/14	1
Surrogate Recovery						
p-Terphenyl-d14	80.4		% Rec.	8270C-SIM	10/08/14	1
Nitrobenzene-d5	113.		% Rec.	8270C-SIM	10/08/14	1
2-Fluorobiphenyl	75.7		% Rec.	8270C-SIM	10/08/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/08/14 17:39 Printed: 10/08/14 17:40

L725851-01 (PH) - 9.3@21.7c

L725851-01 (DRO) - Dilution due to matrix



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143 Diamond Avenue
Parachute, CO 81635

October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19

Sample ID : 20141006-TR 3-19 (SPOILS S02)

Collected By : Chris McKisson
Collection Date : 10/06/14 11:20

ESC Sample # : L725851-02

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	10/08/14	1
Chromium, Trivalent	44.	2.0	mg/kg	Calc.	10/08/14	1
ORP	-3.0		mV	2580 B-2011	10/08/14	1
pH	8.7		su	9045D	10/08/14	1
Sodium Adsorption Ratio	8.7			Calc.	10/08/14	1
Specific Conductance	1400		umhos/cm	9050AMod	10/08/14	1
Mercury	BDL	0.020	mg/kg	7471	10/08/14	1
Arsenic	2.8	2.0	mg/kg	6010B	10/07/14	1
Barium	690	0.50	mg/kg	6010B	10/07/14	1
Cadmium	0.51	0.50	mg/kg	6010B	10/07/14	1
Chromium	44.	1.0	mg/kg	6010B	10/07/14	1
Copper	13.	2.0	mg/kg	6010B	10/07/14	1
Lead	18.	0.50	mg/kg	6010B	10/07/14	1
Nickel	23.	2.0	mg/kg	6010B	10/07/14	1
Selenium	BDL	2.0	mg/kg	6010B	10/07/14	1
Silver	BDL	1.0	mg/kg	6010B	10/07/14	1
Zinc	52.	5.0	mg/kg	6010B	10/07/14	1
Benzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Toluene	BDL	0.025	mg/kg	8021	10/07/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	10/07/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	10/07/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.2		% Rec.	8015	10/07/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	10/07/14	5
TPH (GC/FID) High Fraction	130	4.0	mg/kg	8015D/DRO	10/08/14	1
Surrogate recovery(%)						
o-Terphenyl	55.2		% Rec.	8015D/DRO	10/08/14	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.022	0.0060	mg/kg	8270C-SIM	10/08/14	1
Acenaphthene	0.016	0.0060	mg/kg	8270C-SIM	10/08/14	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L725851-02 (PH) - 8.7@20.9c



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Parachute, CO 81635

October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (SPOILS S02)
Collected By : Chris McKisson
Collection Date : 10/06/14 11:20

ESC Sample # : L725851-02

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Fluorene	0.025	0.0060	mg/kg	8270C-SIM	10/08/14	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Naphthalene	0.053	0.020	mg/kg	8270C-SIM	10/08/14	1
Phenanthrene	0.070	0.0060	mg/kg	8270C-SIM	10/08/14	1
Pyrene	0.021	0.0060	mg/kg	8270C-SIM	10/08/14	1
1-Methylnaphthalene	0.072	0.020	mg/kg	8270C-SIM	10/08/14	1
2-Methylnaphthalene	0.15	0.020	mg/kg	8270C-SIM	10/08/14	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	10/08/14	1
Surrogate Recovery						
p-Terphenyl-d14	79.1		% Rec.	8270C-SIM	10/08/14	1
Nitrobenzene-d5	107.		% Rec.	8270C-SIM	10/08/14	1
2-Fluorobiphenyl	75.1		% Rec.	8270C-SIM	10/08/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L725851-02 (PH) - 8.7@20.9c



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143 Diamond Avenue
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October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19

Sample ID : 20141006-TR 3-19 (SPOILS S03)

Collected By : Chris McKisson
Collection Date : 10/06/14 11:30

ESC Sample # : L725851-03

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	10/08/14	1
Chromium, Trivalent	40.	2.0	mg/kg	Calc.	10/08/14	1
ORP	5.0		mV	2580 B-2011	10/08/14	1
pH	8.6		su	9045D	10/08/14	1
Sodium Adsorption Ratio	14.			Calc.	10/08/14	1
Specific Conductance	1800		umhos/cm	9050AMod	10/08/14	1
Mercury	BDL	0.020	mg/kg	7471	10/08/14	1
Arsenic	2.6	2.0	mg/kg	6010B	10/07/14	1
Barium	710	0.50	mg/kg	6010B	10/07/14	1
Cadmium	BDL	0.50	mg/kg	6010B	10/07/14	1
Chromium	40.	1.0	mg/kg	6010B	10/07/14	1
Copper	15.	2.0	mg/kg	6010B	10/07/14	1
Lead	18.	0.50	mg/kg	6010B	10/07/14	1
Nickel	23.	2.0	mg/kg	6010B	10/07/14	1
Selenium	BDL	2.0	mg/kg	6010B	10/07/14	1
Silver	BDL	1.0	mg/kg	6010B	10/07/14	1
Zinc	60.	5.0	mg/kg	6010B	10/07/14	1
Benzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Toluene	BDL	0.025	mg/kg	8021	10/07/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	10/07/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	10/07/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.3		% Rec.	8015	10/07/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	10/07/14	5
TPH (GC/FID) High Fraction	760	80.	mg/kg	8015D/DRO	10/08/14	20
Surrogate recovery(%)						
o-Terphenyl	68.7		% Rec.	8015D/DRO	10/08/14	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.047	0.012	mg/kg	8270C-SIM	10/08/14	2
Acenaphthene	0.040	0.012	mg/kg	8270C-SIM	10/08/14	2
Acenaphthylene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Benzo(a)anthracene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Benzo(a)pyrene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L725851-03 (DRO) - Dilution due to matrix
L725851-03 (SV8270PAHSIM) - Dilution due to matrix
L725851-03 (PH) - 8.6@20.9c



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REPORT OF ANALYSIS

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October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (SPOILS S03)
Collected By : Chris McKisson
Collection Date : 10/06/14 11:30

ESC Sample # : L725851-03

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Benzo(g,h,i)perylene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Benzo(k)fluoranthene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Chrysene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Dibenz(a,h)anthracene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Fluoranthene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Fluorene	0.073	0.012	mg/kg	8270C-SIM	10/08/14	2
Indeno(1,2,3-cd)pyrene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Naphthalene	0.19	0.040	mg/kg	8270C-SIM	10/08/14	2
Phenanthrene	0.17	0.012	mg/kg	8270C-SIM	10/08/14	2
Pyrene	0.043	0.012	mg/kg	8270C-SIM	10/08/14	2
1-Methylnaphthalene	0.26	0.040	mg/kg	8270C-SIM	10/08/14	2
2-Methylnaphthalene	0.45	0.040	mg/kg	8270C-SIM	10/08/14	2
2-Chloronaphthalene	BDL	0.040	mg/kg	8270C-SIM	10/08/14	2
Surrogate Recovery						
p-Terphenyl-d14	62.3		% Rec.	8270C-SIM	10/08/14	2
Nitrobenzene-d5	99.3		% Rec.	8270C-SIM	10/08/14	2
2-Fluorobiphenyl	62.7		% Rec.	8270C-SIM	10/08/14	2

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L725851-03 (DRO) - Dilution due to matrix

L725851-03 (SV8270PAHSIM) - Dilution due to matrix

L725851-03 (PH) - 8.6@20.9c



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REPORT OF ANALYSIS

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143 Diamond Avenue
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October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19

Sample ID : 20141006-TR 3-19 (SPOILS NE01)

Collected By : Chris McKisson
Collection Date : 10/06/14 11:35

ESC Sample # : L725851-04

Site ID : TR 3-19
Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	10/08/14	1
Chromium, Trivalent	36.	2.0	mg/kg	Calc.	10/08/14	1
ORP	23.		mV	2580 B-2011	10/08/14	1
pH	8.4		su	9045D	10/08/14	1
Sodium Adsorption Ratio	5.2			Calc.	10/08/14	1
Specific Conductance	1200		umhos/cm	9050AMod	10/08/14	1
Mercury	BDL	0.020	mg/kg	7471	10/08/14	1
Arsenic	2.6	2.0	mg/kg	6010B	10/07/14	1
Barium	610	0.50	mg/kg	6010B	10/07/14	1
Cadmium	0.50	0.50	mg/kg	6010B	10/07/14	1
Chromium	36.	1.0	mg/kg	6010B	10/07/14	1
Copper	15.	2.0	mg/kg	6010B	10/07/14	1
Lead	16.	0.50	mg/kg	6010B	10/07/14	1
Nickel	20.	2.0	mg/kg	6010B	10/07/14	1
Selenium	BDL	2.0	mg/kg	6010B	10/07/14	1
Silver	BDL	1.0	mg/kg	6010B	10/07/14	1
Zinc	55.	5.0	mg/kg	6010B	10/07/14	1
Benzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Toluene	BDL	0.025	mg/kg	8021	10/07/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	10/07/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	10/07/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.2		% Rec.	8015	10/07/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	10/07/14	5
TPH (GC/FID) High Fraction	220	80.	mg/kg	8015D/DRO	10/08/14	20
Surrogate recovery(%)						
o-Terphenyl	69.4		% Rec.	8015D/DRO	10/08/14	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.027	0.0060	mg/kg	8270C-SIM	10/08/14	1
Acenaphthene	0.020	0.0060	mg/kg	8270C-SIM	10/08/14	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L725851-04 (PH) - 8.4@20.8c
L725851-04 (DRO) - Dilution due to matrix



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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (SPOILS NE01)
Collected By : Chris McKisson
Collection Date : 10/06/14 11:35

ESC Sample # : L725851-04

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Fluorene	0.032	0.0060	mg/kg	8270C-SIM	10/08/14	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Naphthalene	0.058	0.020	mg/kg	8270C-SIM	10/08/14	1
Phenanthrene	0.086	0.0060	mg/kg	8270C-SIM	10/08/14	1
Pyrene	0.029	0.0060	mg/kg	8270C-SIM	10/08/14	1
1-Methylnaphthalene	0.10	0.020	mg/kg	8270C-SIM	10/08/14	1
2-Methylnaphthalene	0.19	0.020	mg/kg	8270C-SIM	10/08/14	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	10/08/14	1
Surrogate Recovery						
p-Terphenyl-d14	63.2		% Rec.	8270C-SIM	10/08/14	1
Nitrobenzene-d5	91.8		% Rec.	8270C-SIM	10/08/14	1
2-Fluorobiphenyl	64.2		% Rec.	8270C-SIM	10/08/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L725851-04 (PH) - 8.4@20.8c

L725851-04 (DRO) - Dilution due to matrix



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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (SPOILS NE02)
Collected By : Chris McKisson
Collection Date : 10/06/14 11:40

ESC Sample # : L725851-05

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	10/08/14	1
Chromium, Trivalent	37.	2.0	mg/kg	Calc.	10/08/14	1
ORP	38.		mV	2580 B-2011	10/08/14	1
pH	8.3		su	9045D	10/08/14	1
Sodium Adsorption Ratio	4.0			Calc.	10/08/14	1
Specific Conductance	970		umhos/cm	9050AMod	10/08/14	1
Mercury	BDL	0.020	mg/kg	7471	10/08/14	1
Arsenic	2.4	2.0	mg/kg	6010B	10/07/14	1
Barium	550	0.50	mg/kg	6010B	10/07/14	1
Cadmium	0.51	0.50	mg/kg	6010B	10/07/14	1
Chromium	37.	1.0	mg/kg	6010B	10/07/14	1
Copper	14.	2.0	mg/kg	6010B	10/07/14	1
Lead	17.	0.50	mg/kg	6010B	10/07/14	1
Nickel	20.	2.0	mg/kg	6010B	10/07/14	1
Selenium	BDL	2.0	mg/kg	6010B	10/07/14	1
Silver	BDL	1.0	mg/kg	6010B	10/07/14	1
Zinc	58.	5.0	mg/kg	6010B	10/07/14	1
Benzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Toluene	BDL	0.025	mg/kg	8021	10/07/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	10/07/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	10/07/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.9		% Rec.	8015	10/07/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	10/07/14	5
TPH (GC/FID) High Fraction	350	40.	mg/kg	8015D/DRO	10/08/14	10
Surrogate recovery(%)						
o-Terphenyl	81.0		% Rec.	8015D/DRO	10/08/14	10
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.040	0.012	mg/kg	8270C-SIM	10/08/14	2
Acenaphthene	0.029	0.012	mg/kg	8270C-SIM	10/08/14	2
Acenaphthylene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Benzo(a)anthracene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Benzo(a)pyrene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L725851-05 (DRO) - Cannot run at a lower dilution, dilution due to extractions process

L725851-05 (SV8270PAHSIM) - Dilution due to matrix

L725851-05 (PH) - 8.3@20.7c



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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (SPOILS NE02)
Collected By : Chris McKisson
Collection Date : 10/06/14 11:40

ESC Sample # : L725851-05

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Benzo(g,h,i)perylene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Benzo(k)fluoranthene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Chrysene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Dibenz(a,h)anthracene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Fluoranthene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Fluorene	0.040	0.012	mg/kg	8270C-SIM	10/08/14	2
Indeno(1,2,3-cd)pyrene	BDL	0.012	mg/kg	8270C-SIM	10/08/14	2
Naphthalene	0.068	0.040	mg/kg	8270C-SIM	10/08/14	2
Phenanthrene	0.11	0.012	mg/kg	8270C-SIM	10/08/14	2
Pyrene	0.041	0.012	mg/kg	8270C-SIM	10/08/14	2
1-Methylnaphthalene	0.11	0.040	mg/kg	8270C-SIM	10/08/14	2
2-Methylnaphthalene	0.18	0.040	mg/kg	8270C-SIM	10/08/14	2
2-Chloronaphthalene	BDL	0.040	mg/kg	8270C-SIM	10/08/14	2
Surrogate Recovery						
p-Terphenyl-d14	74.0		% Rec.	8270C-SIM	10/08/14	2
Nitrobenzene-d5	113.		% Rec.	8270C-SIM	10/08/14	2
2-Fluorobiphenyl	75.5		% Rec.	8270C-SIM	10/08/14	2

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L725851-05 (DRO) - Cannot run at a lower dilution, dilution due to extractions process

L725851-05 (SV8270PAHSIM) - Dilution due to matrix

L725851-05 (PH) - 8.3@20.7c



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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19

Sample ID : 20141006-TR 3-19 (SPOILS NE03)

Collected By : Chris McKisson
Collection Date : 10/06/14 11:45

ESC Sample # : L725851-06

Site ID : TR 3-19
Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	10/08/14	1
Chromium, Trivalent	37.	2.0	mg/kg	Calc.	10/08/14	1
ORP	41.		mV	2580 B-2011	10/08/14	1
pH	8.3		su	9045D	10/08/14	1
Sodium Adsorption Ratio	4.3			Calc.	10/08/14	1
Specific Conductance	1200		umhos/cm	9050AMod	10/08/14	1
Mercury	BDL	0.020	mg/kg	7471	10/08/14	1
Arsenic	3.2	2.0	mg/kg	6010B	10/07/14	1
Barium	620	0.50	mg/kg	6010B	10/07/14	1
Cadmium	0.54	0.50	mg/kg	6010B	10/07/14	1
Chromium	37.	1.0	mg/kg	6010B	10/07/14	1
Copper	15.	2.0	mg/kg	6010B	10/07/14	1
Lead	16.	0.50	mg/kg	6010B	10/07/14	1
Nickel	20.	2.0	mg/kg	6010B	10/07/14	1
Selenium	BDL	2.0	mg/kg	6010B	10/07/14	1
Silver	BDL	1.0	mg/kg	6010B	10/07/14	1
Zinc	53.	5.0	mg/kg	6010B	10/07/14	1
Benzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Toluene	BDL	0.025	mg/kg	8021	10/07/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	10/07/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	10/07/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	10/07/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.2		% Rec.	8015	10/07/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	10/07/14	5
TPH (GC/FID) High Fraction	140	4.0	mg/kg	8015D/DRO	10/08/14	1
Surrogate recovery(%)						
o-Terphenyl	50.3		% Rec.	8015D/DRO	10/08/14	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.050	0.0060	mg/kg	8270C-SIM	10/08/14	1
Acenaphthene	0.038	0.0060	mg/kg	8270C-SIM	10/08/14	1
Acenaphthylene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L725851-06 (PH) - 8.3@20.7c



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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (SPOILS NE03)
Collected By : Chris McKisson
Collection Date : 10/06/14 11:45

ESC Sample # : L725851-06

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Fluoranthene	0.0065	0.0060	mg/kg	8270C-SIM	10/08/14	1
Fluorene	0.065	0.0060	mg/kg	8270C-SIM	10/08/14	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/08/14	1
Naphthalene	0.084	0.020	mg/kg	8270C-SIM	10/08/14	1
Phenanthrene	0.17	0.0060	mg/kg	8270C-SIM	10/08/14	1
Pyrene	0.050	0.0060	mg/kg	8270C-SIM	10/08/14	1
1-Methylnaphthalene	0.17	0.020	mg/kg	8270C-SIM	10/08/14	1
2-Methylnaphthalene	0.27	0.020	mg/kg	8270C-SIM	10/08/14	1
2-Chloronaphthalene	BDL	0.020	mg/kg	8270C-SIM	10/08/14	1
Surrogate Recovery						
p-Terphenyl-d14	84.7		% Rec.	8270C-SIM	10/08/14	1
Nitrobenzene-d5	123.		% Rec.	8270C-SIM	10/08/14	1
2-Fluorobiphenyl	79.8		% Rec.	8270C-SIM	10/08/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L725851-06 (PH) - 8.3@20.7c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L725851-01	WG747249	SAMP	o-Terphenyl	R2995998	J7
L725851-03	WG747249	SAMP	o-Terphenyl	R2995998	J7
L725851-04	WG747249	SAMP	o-Terphenyl	R2995998	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

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.

Summary of Remarks For Samples Printed
10/08/14 at 17:40:19

TSR Signing Reports: 358
R2 - Rush: Next Day

Log all PAHs as PAHSIM. Log all BTEX waters by 8260. Log ALL samples for EDD (COGCC EDD).
Accounting - pending coded invoices!

Sample: L725851-01 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:39
Sample: L725851-02 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:39
Sample: L725851-03 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:39
Sample: L725851-04 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:39
Sample: L725851-05 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:39
Sample: L725851-06 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:39



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Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

Report Summary

Wednesday October 08, 2014

Report Number: L725859

Samples Received: 10/07/14

Client Project: TR 3-19

Description: Trail Ridge 3-19

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,
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REPORT OF ANALYSIS

October 08, 2014

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (E WALL) 6 FT
Collected By : Chris McKisson
Collection Date : 10/06/14 11:00

ESC Sample # : L725859-01

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	10/07/14	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.1		% Rec.	8015D/GRO	10/07/14	5
TPH (GC/FID) High Fraction	140	4.0	mg/kg	8015D/DRO	10/08/14	1
Surrogate recovery(%)						
o-Terphenyl	51.8		% Rec.	8015D/DRO	10/08/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

October 08, 2014

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (E PB) 10 FT
Collected By : Chris McKisson
Collection Date : 10/06/14 10:55

ESC Sample # : L725859-02

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	10/08/14	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.0		% Rec.	8015D/GRO	10/08/14	5
TPH (GC/FID) High Fraction	76.	4.0	mg/kg	8015D/DRO	10/08/14	1
Surrogate recovery(%)						
o-Terphenyl	53.6		% Rec.	8015D/DRO	10/08/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (W PB) 10 FT
Collected By : Chris McKisson
Collection Date : 10/06/14 10:50

ESC Sample # : L725859-03

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	10/08/14	1
Chromium, Trivalent	44.	2.0	mg/kg	Calc.	10/08/14	1
ORP	44.		mV	2580 B-2011	10/08/14	1
pH	8.2		su	9045D	10/08/14	1
Sodium Adsorption Ratio	19.			Calc.	10/08/14	1
Specific Conductance	2200		umhos/cm	9050AMod	10/08/14	1
Mercury	BDL	0.020	mg/kg	7471	10/08/14	1
Arsenic	3.2	2.0	mg/kg	6010B	10/07/14	1
Barium	580	0.50	mg/kg	6010B	10/07/14	1
Cadmium	0.51	0.50	mg/kg	6010B	10/07/14	1
Chromium	44.	1.0	mg/kg	6010B	10/07/14	1
Copper	14.	2.0	mg/kg	6010B	10/07/14	1
Lead	19.	0.50	mg/kg	6010B	10/07/14	1
Nickel	23.	2.0	mg/kg	6010B	10/07/14	1
Selenium	BDL	2.0	mg/kg	6010B	10/07/14	1
Silver	BDL	1.0	mg/kg	6010B	10/07/14	1
Zinc	63.	5.0	mg/kg	6010B	10/07/14	1
Benzene	BDL	0.0025	mg/kg	8021	10/08/14	5
Toluene	BDL	0.025	mg/kg	8021	10/08/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021	10/08/14	5
Total Xylene	BDL	0.0075	mg/kg	8021	10/08/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015	10/08/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	96.6		% Rec.	8015	10/08/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021	10/08/14	5
TPH (GC/FID) High Fraction	690	40.	mg/kg	8015D/DRO	10/08/14	10
Surrogate recovery(%)						
o-Terphenyl	60.4		% Rec.	8015D/DRO	10/08/14	10
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.30	0.060	mg/kg	8270C-SIM	10/08/14	10
Acenaphthene	0.23	0.060	mg/kg	8270C-SIM	10/08/14	10
Acenaphthylene	BDL	0.060	mg/kg	8270C-SIM	10/08/14	10
Benzo(a)anthracene	BDL	0.060	mg/kg	8270C-SIM	10/08/14	10
Benzo(a)pyrene	BDL	0.060	mg/kg	8270C-SIM	10/08/14	10

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

L725859-03 (DRO) - Cannot run at a lower dilution, dilution due to extractions process

L725859-03 (PH) - 8.2@20.8c

L725859-03 (SV8270PAHSIM) - Dilution due to matrix



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

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (W PB) 10 FT
Collected By : Chris McKisson
Collection Date : 10/06/14 10:50

ESC Sample # : L725859-03

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	10/08/14	10
Benzo(g,h,i)perylene	BDL	0.060	mg/kg	8270C-SIM	10/08/14	10
Benzo(k)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	10/08/14	10
Chrysene	BDL	0.060	mg/kg	8270C-SIM	10/08/14	10
Dibenz(a,h)anthracene	BDL	0.060	mg/kg	8270C-SIM	10/08/14	10
Fluoranthene	BDL	0.060	mg/kg	8270C-SIM	10/08/14	10
Fluorene	0.34	0.060	mg/kg	8270C-SIM	10/08/14	10
Indeno(1,2,3-cd)pyrene	BDL	0.060	mg/kg	8270C-SIM	10/08/14	10
Naphthalene	0.38	0.20	mg/kg	8270C-SIM	10/08/14	10
Phenanthrene	0.89	0.060	mg/kg	8270C-SIM	10/08/14	10
Pyrene	0.24	0.060	mg/kg	8270C-SIM	10/08/14	10
1-Methylnaphthalene	0.96	0.20	mg/kg	8270C-SIM	10/08/14	10
2-Methylnaphthalene	1.2	0.20	mg/kg	8270C-SIM	10/08/14	10
2-Chloronaphthalene	BDL	0.20	mg/kg	8270C-SIM	10/08/14	10
Surrogate Recovery						
p-Terphenyl-d14	95.7		% Rec.	8270C-SIM	10/08/14	10
Nitrobenzene-d5	53.8		% Rec.	8270C-SIM	10/08/14	10
2-Fluorobiphenyl	96.5		% Rec.	8270C-SIM	10/08/14	10

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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L725859-03 (DRO) - Cannot run at a lower dilution, dilution due to extractions process

L725859-03 (PH) - 8.2@20.8c

L725859-03 (SV8270PAHSIM) - Dilution due to matrix



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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

October 08, 2014

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (W WALL) 6 FT
Collected By : Chris McKisson
Collection Date : 10/06/14 10:45

ESC Sample # : L725859-04

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	10/08/14	5
Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	97.2		% Rec.	8015D/GRO	10/08/14	5
TPH (GC/FID) High Fraction	14.	4.0	mg/kg	8015D/DRO	10/08/14	1
Surrogate recovery(%) o-Terphenyl	69.9		% Rec.	8015D/DRO	10/08/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

October 08, 2014

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (S WALL) 6 FT
Collected By : Chris McKisson
Collection Date : 10/06/14 11:05

ESC Sample # : L725859-05

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	10/08/14	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.1		% Rec.	8015D/GRO	10/08/14	5
TPH (GC/FID) High Fraction	48.	4.0	mg/kg	8015D/DRO	10/08/14	1
Surrogate recovery(%)						
o-Terphenyl	56.9		% Rec.	8015D/DRO	10/08/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

October 08, 2014

Chris Hines
EnCana Oil & Gas - Parachute, CO
143 Diamond Avenue
Parachute, CO 81635

Date Received : October 07, 2014
Description : Trail Ridge 3-19
Sample ID : 20141006-TR 3-19 (N WALL) 6 FT
Collected By : Chris McKisson
Collection Date : 10/06/14 11:00

ESC Sample # : L725859-06

Site ID : TR 3-19

Project # : TR 3-19

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	10/08/14	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	97.1		% Rec.	8015D/GRO	10/08/14	5
TPH (GC/FID) High Fraction	100	4.0	mg/kg	8015D/DRO	10/08/14	1
Surrogate recovery(%)						
o-Terphenyl	53.3		% Rec.	8015D/DRO	10/08/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/08/14 17:40 Printed: 10/08/14 17:40

Summary of Remarks For Samples Printed
10/08/14 at 17:40:57

TSR Signing Reports: 358
R2 - Rush: Next Day

Log all PAHs as PAHSIM. Log all BTEX waters by 8260. Log ALL samples for EDD (COGCC EDD).
Accounting - pending coded invoices!

Sample: L725859-01 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:40

Sample: L725859-02 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:40

Sample: L725859-03 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:40

Sample: L725859-04 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:40

Sample: L725859-05 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:40

Sample: L725859-06 Account: ENCANACO Received: 10/07/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 17:40