Encana Oil & Gas (USA) Inc.
370 - 17 Street, Suite 1700
Denver, CO 80202

G08 596 (Location: 335682)
Pit (Facility: 414548)
Encana Oil & Gas (USA) Inc. (Operator: 100185)

REPORT OF WORK COMPLETED

- Form 27 (Doc: 2232923) (Rem: 7760)

Encana Oil & Gas (USA) Inc. (Encana) is submitting this Form 4 (Report of Work Completed and Notification of Completion) to document closure of a lined earthen pit and disposal of cuttings on a well pad in the North Parachute area of operation in Garfield County.

Initial pit closure and characterization efforts were carried out in July, 2010. The pit was drained, and the liner and above liner solids were removed for offsite disposal. Below-liner soil conditions were assessed with field observations and each cell of the pit was characterized with a 5-point composite sample of the pit bottom submitted to a laboratory for analysis. Sample results identified concentrations/levels above the allowable limits in COGCC Table 910-1 for TPH, benzene, SAR, pH, and arsenic. A composite sample of drill cuttings visible onsite was also collected during initial sampling efforts.

Following identification of below-liner impacts, the pit excavations were left open through the remainder of 2010 and early 2011 to allow hydrocarbon impacts to naturally attenuate through biological processes.

Beginning in June, 2011 both pit cells were further characterized with a series of discrete grab samples. Those samples and field observations confirmed persistent hydrocarbon impacts in below-liner soils. A track-hoe was used to remove visually stained soils from the two (2) cells of the pit, and stockpile material on the pad to support remediation. Competent bedrock was encountered during excavation efforts which prevented vertical and lateral pursuit of soil impacts. A final round of grab samples was collected for final characterization of the excavations.

The stockpiled material from the pit excavation was characterized with a composite sample and laid out to support bioremediation of hydrocarbon impacts. The initial characterization sample was above the allowable concentration, so the material was turned, and a follow up sample was collected.

Analytical results are provided in the attached summary table and laboratory reports.

NOTIFICATION OF COMPLETION

After excavation efforts were completed, seven (7) clearance samples from the pit bottom and walls were analyzed for TPH. Of the three (3) wall samples collected, two (2) returned results below allowable limits while one (1) had a low residual concentration above Table 910-1. All four (4) final pit bottom results remained above the allowable limit. Encana requests that the COGCC consider the following physical and temporal conditions associated with this pit closure project as an alternative to the allowable limit for TPH identified in Table 910-1:

- The samples in question were collected from the unrecoverable residual material on top of the bedrock. They are not representative of the bedrock or the geology beneath the bedrock, and only demonstrate that the removed material had hydrocarbon impacts.
- Encana has maintained an extensive water quality monitoring program in the North Parachute Properties for nearly a decade, which includes quarterly sampling at area springs and streams. The nearest established down gradient sampling point is in a stream (ENPR22ST), with nearly 4 years of sampling data since the closure of this pit without any water quality problems identified. See attached topographic map for spring location.

Arsenic concentrations in the pit bottom and stockpile, and drill cuttings stockpile are above the allowable concentration in Table 910-1, but are within the range of background values for this area. Based on these results and Footnote 1 to COGCC Table 910-1, Encana requests that the COGCC consider the higher range of background arsenic values as the allowable concentration for this constituent. With regards to the inorganic constituents (SAR, EC, pH), the material represented by these samples are within the former pit footprint, are greater than five feet below the current working surface, and will be at an even greater depth below the final reclaimed working surface where the constituents will have no effect on revegetation efforts.

After bedrock refusal, the drill cuttings stockpile (approximately 1000 cubic yards) and pit spoil stockpile were placed in the pit excavation, and the pit was backfilled and reclaimed.

If the information provided here is satisfactory, please close the associated remediation project, and pit facility, and provide documentation of these record closures.

ATTACHMENTS

1. Topographic Location Map
2. Laboratory Results Summary Table
3. Laboratory Reports

encana

North Parachute Mountain

Garfield County, Colorado

0 — 3,200 — 6,400 Feet

1 inch = 3,000 feet

T004S-R097W

T005S-R097W

T004S-R096W

T005S-R096W

T004S-R095W

T005S-R095W

G08 Well Pad and Pit
Location ID: 335682
Facility ID: 414548
Rem #: 7760

ENPR22ST
stream sampling point

ENPR1ST
stream sampling point

E06
N07
I07 CDP
G08
A05
D04 CDP
M33
B04
K04
H04
F09 CDP
G09
G17 CDP
E16
B16
K10
O10A
A15
G21
K22
J22B
D23
L14
M14
P28
L27
N22
K22 CDP
A27 CDP
M23
E34
M34
F26
H34
Story Gulch CS
A03 CDP
A03
O03 (Story Booster CS)
K35 CDP
G35
F25
D36
J25 CDP
J25 Frac Pad
B36
M30
TLQ

Encana Site Boundary
Access Road
Township Boundary

Surface Ownership
Not Identified Below (clear)
EnCana (transparent)
USFS (transparent)
BLM (transparent)

Revised: 11/13/2012
C. Hines

encana natural gas

Laboratory Results Summary Table

03/12/2015

Analytes (BDL = Below Detection Limit; ND = Non Detect)

				Organic Compounds in Soil (mg/kg [ppm])																						Inorganics in Soil			Metals in Soil (mg/kg [ppm])										
Allowable Concentration -->				500			0.17	85	100	175	1000	1000	0.22	0.22	2.2	0.022	22	0.022	1000	1000	0.22	23	1000		(<12)	(6-9)	0.39	15000	70	120000	23	3100	400	23	1600	390	390	23000
Location	**Sample Date:**	**Sample Matrix**	**Matrix Notes**	TPH (total volatile and extractable petroleum hydrocarbons)	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Benzo(A)pyrene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3,C,D)pyrene	Napthalene	Pyrene	EC (<4 mmhos/cm or **2x background**)	SAR (calculation)	pH	Arsenic	Barium - EPA Total Barium	Cadmium	Chromium (III)	Chromium (VI)	Copper	Lead (inorganic)	Mercury	Nickel (soluble salts)	Selenium	Silver	Zinc
G08	07/28/10	Cuttings		100	BDL	100	0.0097	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.3	11	8.2	**8.6**	6500	BDL	24	BDL	26	16	BDL	31	BDL	BDL	57
G08	07/28/10	Pit	E pit bottom	**1012**	12	**1000**	0.0098	BDL	0.028	0.017	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	1.9	**35**	7.9	**11**	460	0.57	32	BDL	25	18	0.033	25	BDL	BDL	57
G08	07/28/10	Pit	W pit bottom	**2177**	77	**2100**	**0.22**	1.3	0.34	3.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.26	BDL	0.42	BDL	1.9	**59**	**12**	**8.4**	2500	3.2	22	BDL	19	21	0.021	14	5.3	BDL	48
G08	06/07/11	Pit	E pit - grab #1	**540**	BDL	**540**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL				**9.1**											
G08	06/07/11	Pit	E pit - grab #2	**8150**	250	**7900**	BDL	BDL	BDL	BDL	BDL	0.28	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.44	BDL	0.12	BDL				**8.1**											
G08	06/07/11	Pit	E pit - grab #3	**1603.2**	3.2	**1600**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL				**8.2**											
G08	06/07/11	Pit	E pit - grab #4	**4258**	58	**4200**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL				**27**											
G08	06/07/11	Pit	E pit - grab #5	**2101.4**	1.4	**2100**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL				**9.4**											
G08	06/07/11	Pit	W pit - grab #1	**3200**	BDL	**3200**	BDL	BDL	BDL	BDL														0.44	1.7	**9.3**	**16**											
G08	06/07/11	Pit	W pit - grab #2	**2890**	390	**2500**	0.088	2.1	0.74	36														1.8	1.3	**12**	**8.6**											
G08	06/07/11	Pit	W pit - grab #3	355.4	5.4	350	0.0062	0.084	0.028	0.24														0.8	4.4	**11**	**10**											
G08	06/07/11	Pit	W pit - grab #4	**950.82**	0.82	**950**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.85	2.1	**9.5**	**20**											
G08	06/07/11	Pit	W pit - grab #5	**1599**	99	**1500**	BDL	BDL	BDL	0.32	0.082	BDL	0.013	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.14	BDL	0.36	0.011	0.43	11	8.7	**29**											
G08	07/21/11	Pit	PitX - East pit - East bottom	**2701.5**	1.5	**2700**	BDL																															
G08	07/21/11	Pit	PitX - East pit - NE wall	56	BDL	56	BDL																															
G08	07/21/11	Pit	PitX - East Pit - West bottom	**2100**	BDL	**2100**	BDL																															
G08	07/21/11	Pit	PitX - Spoil	**1601.3**	1.3	**1600**	BDL																															
G08	07/21/11	Pit	PitX - West pit - East Bottom	**3601.1**	1.1	**3600**	BDL																															
G08	07/21/11	Pit	PitX - West pit - North Wall	190.95	0.95	190	BDL																															
G08	07/21/11	Pit	PitX - West pit - West Bottom	**600**	BDL	**600**	BDL																															
G08	07/21/11	Pit	PitX - West pit - West Wall	**2000**	BDL	**2000**	BDL																															
G08	08/09/11	Pit	PitX Spoil	280	BDL	280																																

Encana Oil and Gas (USA) Inc.
Environmental Compliance Group
Parachute Field Office
143 Diamond Avenue
Parachute, CO 81635

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Tax I.D. 62-0814289

Est. 1970

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Friday August 06, 2010

Report Number: L471050
Samples Received: 07/29/10
Client Project: G08 Pit Closure

Description: G08 Pit Closure

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:

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

August 06, 2010

ESC Sample # : L471050-01

Date Received : July 29, 2010
Description : G08 Pit Closure

Site ID :

Sample ID : G08-CUTTINGS-072810

Project # : G08 Pit Closure

Collected By : Blair Rollins
Collection Date : 07/28/10 13:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	08/03/10	1
Chromium,Trivalent	24.	2.0	mg/kg	Calc.	07/31/10	1
ORP	160		mV	2580	08/03/10	1
pH	8.2		su	9045D	07/31/10	1
Sodium Adsorption Ratio	11.			Calc.	08/04/10	1
Specific Conductance	1300		umhos/cm	9050AMod	08/03/10	1
Mercury	BDL	0.020	mg/kg	7471	08/01/10	1
Arsenic	8.6	1.0	mg/kg	6010B	07/31/10	1
Barium	6500	1.2	mg/kg	6010B	08/03/10	5
Cadmium	BDL	0.25	mg/kg	6010B	07/31/10	1
Chromium	24.	0.50	mg/kg	6010B	07/31/10	1
Copper	26.	1.0	mg/kg	6010B	07/31/10	1
Lead	16.	0.25	mg/kg	6010B	07/31/10	1
Nickel	31.	5.0	mg/kg	6010B	08/03/10	5
Selenium	BDL	1.0	mg/kg	6010B	07/31/10	1
Silver	BDL	0.50	mg/kg	6010B	07/31/10	1
Zinc	57.	1.5	mg/kg	6010B	07/31/10	1
Benzene	0.0097	0.0025	mg/kg	8021/8015	07/29/10	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/29/10	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	07/29/10	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	07/29/10	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/29/10	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	97.7		% Rec.	8021/8015	07/29/10	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	07/29/10	5
TPH (GC/FID) High Fraction	100	80.	mg/kg	3546/DRO	08/02/10	20
Surrogate recovery(%)						
o-Terphenyl	25.5		% Rec.	3546/DRO	08/02/10	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Acenaphthene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Acenaphthylene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Benzo(a)anthracene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Benzo(a)pyrene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L471050-01 (DRO) - Previous run also had low SURR recovery. Matrix effect.
L471050-01 (PH) - 8.2@21.4c

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

August 06, 2010

ESC Sample # : L471050-01

Site ID :

Project # : G08 Pit Closure

Date Received : July 29, 2010
Description : G08 Pit Closure

Sample ID : G08-CUTTINGS-072810

Collected By : Blair Rollins
Collection Date : 07/28/10 13:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Benzo(g,h,i)perylene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Benzo(k)fluoranthene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Chrysene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Dibenz(a,h)anthracene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Fluoranthene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Fluorene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Indeno(1,2,3-cd)pyrene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Naphthalene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Phenanthrene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Pyrene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
1-Methylnaphthalene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
2-Methylnaphthalene	0.50	0.30	mg/kg	8270C-SIM	08/06/10	50
2-Chloronaphthalene	BDL	0.30	mg/kg	8270C-SIM	08/06/10	50
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	08/06/10	50
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	08/06/10	50
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	08/06/10	50

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 08/06/10 17:08 Printed: 08/06/10 17:09
L471050-01 (DRO) - Previous run also had low SURR recovery. Matrix effect.
L471050-01 (PH) - 8.2@21.4c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L471050-01	WG491916	SAMP	Nitrobenzene-d5	R1318648	J7
	WG491916	SAMP	2-Fluorobiphenyl	R1318648	J7
	WG491916	SAMP	p-Terphenyl-d14	R1318648	J7
	WG491430	SAMP	o-Terphenyl	R1309289	J2

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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
08/06/10 at 17:09:03

TSR Signing Reports: 358
R4 - Rush: Three Day

Create p-key for each project, and enter "project description" as Project Number and Project Name. Log all samples to separate L#s. Log all PAHs as SV8270PAHSIM. Log all BTEX samples by 8021.

Sample: L471050-01 Account: ENCANACO Received: 07/29/10 09:00 Due Date: 08/05/10 00:00 RPT Date: 08/06/10 17:08

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EnCana Oil & Gas Inc. - CO
Chris Hines
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L471050

August 06, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG490720	07/29/10 14:01
Ethylbenzene	< .0005	mg/kg			WG490720	07/29/10 14:01
Toluene	< .005	mg/kg			WG490720	07/29/10 14:01
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG490720	07/29/10 14:01
Total Xylene	< .0015	mg/kg			WG490720	07/29/10 14:01
a,a,a-Trifluorotoluene(FID)		% Rec.	98.08	59-128	WG490720	07/29/10 14:01
a,a,a-Trifluorotoluene(PID)		% Rec.	103.0	54-144	WG490720	07/29/10 14:01
Arsenic	< 1	mg/kg			WG490955	07/30/10 23:42
Barium	< .25	mg/kg			WG490955	07/30/10 23:42
Cadmium	< .25	mg/kg			WG490955	07/30/10 23:42
Chromium	< .5	mg/kg			WG490955	07/30/10 23:42
Copper	< 1	mg/kg			WG490955	07/30/10 23:42
Lead	< .25	mg/kg			WG490955	07/30/10 23:42
Selenium	< 1	mg/kg			WG490955	07/30/10 23:42
Silver	< .5	mg/kg			WG490955	07/30/10 23:42
Zinc	< 1.5	mg/kg			WG490955	07/30/10 23:42
Mercury	< .02	mg/kg			WG490972	08/01/10 10:25
pH	5.30	su			WG491011	07/31/10 10:45
TPH (GC/FID) High Fraction	< 4	ppm			WG491430	08/02/10 10:02
o-Terphenyl		% Rec.	79.49	50-150	WG491430	08/02/10 10:02
Chromium,Hexavalent	< 2	mg/kg			WG491136	08/03/10 16:21
Nickel	< 1	mg/kg			WG490955	08/03/10 16:53
Specific Conductance	0.890	umhos/cm			WG491172	08/03/10 15:10
1-Methylnaphthalene	< .006	mg/kg			WG491916	08/05/10 17:22
2-Chloronaphthalene	< .006	mg/kg			WG491916	08/05/10 17:22
2-Methylnaphthalene	< .006	mg/kg			WG491916	08/05/10 17:22
Acenaphthene	< .006	mg/kg			WG491916	08/05/10 17:22
Acenaphthylene	< .006	mg/kg			WG491916	08/05/10 17:22
Anthracene	< .006	mg/kg			WG491916	08/05/10 17:22
Benzo(a)anthracene	< .006	mg/kg			WG491916	08/05/10 17:22
Benzo(a)pyrene	< .006	mg/kg			WG491916	08/05/10 17:22
Benzo(b)fluoranthene	< .006	mg/kg			WG491916	08/05/10 17:22
Benzo(g,h,i)perylene	< .006	mg/kg			WG491916	08/05/10 17:22
Benzo(k)fluoranthene	< .006	mg/kg			WG491916	08/05/10 17:22
Chrysene	< .006	mg/kg			WG491916	08/05/10 17:22
Dibenz(a,h)anthracene	< .006	mg/kg			WG491916	08/05/10 17:22
Fluoranthene	< .006	mg/kg			WG491916	08/05/10 17:22
Fluorene	< .006	mg/kg			WG491916	08/05/10 17:22
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG491916	08/05/10 17:22
Naphthalene	< .006	mg/kg			WG491916	08/05/10 17:22
Phenanthrene	< .006	mg/kg			WG491916	08/05/10 17:22
Pyrene	< .006	mg/kg			WG491916	08/05/10 17:22
2-Fluorobiphenyl		% Rec.	116.2	21-120	WG491916	08/05/10 17:22

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Parachute, CO 81635

Quality Assurance Report
Level II

L471050

August 06, 2010

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
			Duplicate				
Nitrobenzene-d5		% Rec.	119.7*		33-114	08/05/10 17:22	
p-Terphenyl-d14		% Rec.	145.7*		18-142	08/05/10 17:22	

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
			Duplicate				
Arsenic	mg/kg	26.0	28.0	7.02	20	L471124-05	WG490955
Barium	mg/kg	100.	85.9	18.1	20	L471124-05	WG490955
Cadmium	mg/kg	0	0	0	20	L471124-05	WG490955
Chromium	mg/kg	13.0	14.8	10.7	20	L471124-05	WG490955
Copper	mg/kg	26.0	30.7	17.3	20	L471124-05	WG490955
Lead	mg/kg	72.0	55.6	25.6*	20	L471124-05	WG490955
Selenium	mg/kg	0	0	0	20	L471124-05	WG490955
Silver	mg/kg	0	0	0	20	L471124-05	WG490955
Zinc	mg/kg	90.0	71.0	23.4*	20	L471124-05	WG490955
Mercury	mg/kg	0.0230	0.0250	8.77	20	L471045-01	WG490972
pH	su	7.60	7.50	1.32*	1	L470825-01	WG491011
Specific Conductance	umhos/cm	120.	120.	1.90	20	L471045-01	WG491172
Chromium,Hexavalent	mg/kg	0	0	0	20	L471047-01	WG491136
Chromium,Hexavalent	mg/kg	0	0	0	20	L471362-04	WG491136
ORP	mV	220.	220.	0	20	L471045-01	WG491167
ORP	mV	200.	200.	1.49	20	L471333-01	WG491167
Nickel	mg/kg	21.0	0	NA	20	L471124-05	WG490955

Analyte	Units	Known Val	Laboratory Control Sample Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0535	107.	76-113	WG490720
Ethylbenzene	mg/kg	.05	0.0544	109.	78-115	WG490720
Toluene	mg/kg	.05	0.0541	108.	76-114	WG490720
Total Xylene	mg/kg	.15	0.165	110.	81-118	WG490720
a,a,a-Trifluorotoluene(PID)				101.6	54-144	WG490720
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.09	111.	67-135	WG490720
a,a,a-Trifluorotoluene(FID)				90.80	59-128	WG490720
Arsenic	mg/kg	192	190.	99.0	78.6-120.8	WG490955
Barium	mg/kg	420	397.	94.5	78.8-121.4	WG490955
Cadmium	mg/kg	70.1	58.0	82.7	78.5-121.5	WG490955
Chromium	mg/kg	168	160.	95.2	80.4-120.2	WG490955
Copper	mg/kg	122	123.	101.	81.6-119.7	WG490955
Lead	mg/kg	113	111.	98.2	77.3-122.1	WG490955
Selenium	mg/kg	176	163.	92.6	75.6-125.0	WG490955
Silver	mg/kg	115	106.	92.2	66-133.9	WG490955
Zinc	mg/kg	437	391.	89.5	78.5-121.7	WG490955

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Quality Assurance Report
Level II

L471050

August 06, 2010

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Mercury	mg/kg	8.77	9.44	108.	71.6-127.7	WG490972
pH	su	9.36	9.30	99.4	98.9-102.0	WG491011
TPH (GC/FID) High Fraction	ppm	60	44.9	74.9	50-150	WG491430
o-Terphenyl				82.72	50-150	WG491430
Specific Conductance	umhos/cm	406	430.	106.	85-115	WG491172
Chromium,Hexavalent	mg/kg	100	95.5	95.5	50-143	WG491136
ORP	mV	229	220.	96.1	95.6-104.37	WG491167
Nickel	mg/kg	74.1	73.4	99.1	78.8-121.2	WG490955
1-Methylnaphthalene	mg/kg	.033	0.0276	83.5	41-110	WG491916
2-Chloronaphthalene	mg/kg	.033	0.0260	78.7	43-109	WG491916
2-Methylnaphthalene	mg/kg	.033	0.0272	82.3	38-104	WG491916
Acenaphthene	mg/kg	.033	0.0274	82.9	48-103	WG491916
Acenaphthylene	mg/kg	.033	0.0286	86.7	43-106	WG491916
Anthracene	mg/kg	.033	0.0259	78.6	51-110	WG491916
Benzo(a)anthracene	mg/kg	.033	0.0304	92.0	38-126	WG491916
Benzo(a)pyrene	mg/kg	.033	0.0271	82.2	47-118	WG491916
Benzo(b)fluoranthene	mg/kg	.033	0.0260	78.6	47-118	WG491916
Benzo(g,h,i)perylene	mg/kg	.033	0.0295	89.5	40-125	WG491916
Benzo(k)fluoranthene	mg/kg	.033	0.0292	88.5	45-121	WG491916
Chrysene	mg/kg	.033	0.0291	88.1	35-135	WG491916
Dibenz(a,h)anthracene	mg/kg	.033	0.0287	87.1	41-124	WG491916
Fluoranthene	mg/kg	.033	0.0268	81.3	50-114	WG491916
Fluorene	mg/kg	.033	0.0287	87.0	49-109	WG491916
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0292	88.6	40-126	WG491916
Naphthalene	mg/kg	.033	0.0269	81.4	36-100	WG491916
Phenanthrene	mg/kg	.033	0.0262	79.3	46-108	WG491916
Pyrene	mg/kg	.033	0.0273	82.8	30-136	WG491916
2-Fluorobiphenyl				118.7	21-120	WG491916
Nitrobenzene-d5				101.9	33-114	WG491916
p-Terphenyl-d14				105.5	18-142	WG491916

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0526	0.0535	105.	76-113	1.59	20	WG490720
Ethylbenzene	mg/kg	0.0535	0.0544	107.	78-115	1.62	20	WG490720
Toluene	mg/kg	0.0531	0.0541	106.	76-114	1.90	20	WG490720
Total Xylene	mg/kg	0.162	0.165	108.	81-118	1.86	20	WG490720
a,a,a-Trifluorotoluene(PID)				101.1	54-144			WG490720
TPH (GC/FID) Low Fraction	mg/kg	5.98	6.09	109.	67-135	1.84	20	WG490720
a,a,a-Trifluorotoluene(FID)				90.29	59-128			WG490720
pH	su	9.30	9.30	99.0	98.9-102.0	0	20	WG491011

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Quality Assurance Report
Level II

L471050

August 06, 2010

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
TPH (GC/FID) High Fraction	ppm	43.8	44.9	73.0	50-150	2.62	25	WG491430
o-Terphenyl				81.66	50-150			WG491430
Specific Conductance	umhos/	430.	430.	106.	85-115	0	20	WG491172
Chromium,Hexavalent	mg/kg	95.0	95.5	95.0	50-143	0.525	20	WG491136
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG491167
1-Methylnaphthalene	mg/kg	0.0283	0.0276	86.0	41-110	2.77	24	WG491916
2-Chloronaphthalene	mg/kg	0.0277	0.0260	84.0	43-109	6.27	21	WG491916
2-Methylnaphthalene	mg/kg	0.0285	0.0272	86.0	38-104	4.89	24	WG491916
Acenaphthene	mg/kg	0.0288	0.0274	87.0	48-103	5.22	20	WG491916
Acenaphthylene	mg/kg	0.0308	0.0286	93.0	43-106	7.26	20	WG491916
Anthracene	mg/kg	0.0284	0.0259	86.0	51-110	9.24	22	WG491916
Benzo(a)anthracene	mg/kg	0.0318	0.0304	96.0	38-126	4.75	20	WG491916
Benzo(a)pyrene	mg/kg	0.0291	0.0271	88.0	47-118	7.10	20	WG491916
Benzo(b)fluoranthene	mg/kg	0.0300	0.0260	91.0	47-118	14.6	29	WG491916
Benzo(g,h,i)perylene	mg/kg	0.0314	0.0295	95.0	40-125	6.22	20	WG491916
Benzo(k)fluoranthene	mg/kg	0.0285	0.0292	86.0	45-121	2.36	31	WG491916
Chrysene	mg/kg	0.0300	0.0291	91.0	35-135	3.23	20	WG491916
Dibenz(a,h)anthracene	mg/kg	0.0310	0.0287	94.0	41-124	7.56	20	WG491916
Fluoranthene	mg/kg	0.0271	0.0268	82.0	50-114	0.961	20	WG491916
Fluorene	mg/kg	0.0286	0.0287	86.0	49-109	0.492	19	WG491916
Indeno(1,2,3-cd)pyrene	mg/kg	0.0308	0.0292	93.0	40-126	5.34	20	WG491916
Naphthalene	mg/kg	0.0282	0.0269	85.0	36-100	4.81	24	WG491916
Phenanthrene	mg/kg	0.0284	0.0262	86.0	46-108	7.98	21	WG491916
Pyrene	mg/kg	0.0270	0.0273	82.0	30-136	1.12	20	WG491916
2-Fluorobiphenyl				116.8	21-120			WG491916
Nitrobenzene-d5				104.2	33-114			WG491916
p-Terphenyl-d14				107.9	18-142			WG491916

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/kg	0.254	0	.05	102.	32-137	L470868-01	WG490720
Ethylbenzene	mg/kg	0.246	0	.05	98.3	10-150	L470868-01	WG490720
Toluene	mg/kg	0.256	0	.05	102.	20-142	L470868-01	WG490720
Total Xylene	mg/kg	0.757	0	.15	101.	16-141	L470868-01	WG490720
a,a,a-Trifluorotoluene(PID)					101.6	54-144		WG490720
TPH (GC/FID) Low Fraction	mg/kg	23.0	0	5.5	83.8	55-109	L470868-01	WG490720
a,a,a-Trifluorotoluene(FID)					92.75	59-128		WG490720
Arsenic	mg/kg	71.1	28.0	50	86.2	75-125	L471124-05	WG490955
Barium	mg/kg	146.	85.9	50	120.	75-125	L471124-05	WG490955
Cadmium	mg/kg	43.6	0	50	87.2	75-125	L471124-05	WG490955
Chromium	mg/kg	60.8	14.8	50	92.0	75-125	L471124-05	WG490955
Copper	mg/kg	81.0	30.7	50	101.	75-125	L471124-05	WG490955
Lead	mg/kg	122.	55.6	50	133.*	75-125	L471124-05	WG490955
Selenium	mg/kg	43.1	0	50	86.2	75-125	L471124-05	WG490955
Silver	mg/kg	48.4	0	50	96.8	75-125	L471124-05	WG490955
Zinc	mg/kg	140.	71.0	50	138.*	75-125	L471124-05	WG490955

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Level II

L471050

August 06, 2010

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Mercury	mg/kg	0.246	0.0250	.25	88.4	70-130	L471045-01	WG490972
TPH (GC/FID) High Fraction	ppm	157.	150.	60	11.8*	50-150	L471622-01	WG491430
o-Terphenyl					79.03	50-150		WG491430
Chromium,Hexavalent	mg/kg	19.5	0	20	97.5	50-150	L471045-01	WG491136
Nickel	mg/kg	62.5	0	50	125.	75-125	L471124-05	WG490955

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.241	0.254	96.5	32-137	5.14	39	L470868-01	WG490720
Ethylbenzene	mg/kg	0.220	0.246	88.0	10-150	11.1	44	L470868-01	WG490720
Toluene	mg/kg	0.235	0.256	94.1	20-142	8.46	42	L470868-01	WG490720
Total Xylene	mg/kg	0.672	0.757	89.5	16-141	12.0	46	L470868-01	WG490720
a,a,a-Trifluorotoluene(PID)				100.9	54-144				WG490720
TPH (GC/FID) Low Fraction	mg/kg	18.6	23.0	67.8	55-109	21.1*	20	L470868-01	WG490720
a,a,a-Trifluorotoluene(FID)				93.60	59-128				WG490720
Arsenic	mg/kg	66.9	71.1	77.8	75-125	6.09	20	L471124-05	WG490955
Barium	mg/kg	140.	146.	108.	75-125	4.20	20	L471124-05	WG490955
Cadmium	mg/kg	41.9	43.6	83.8	75-125	3.98	20	L471124-05	WG490955
Chromium	mg/kg	59.0	60.8	88.4	75-125	3.01	20	L471124-05	WG490955
Copper	mg/kg	77.0	81.0	92.6	75-125	5.06	20	L471124-05	WG490955
Lead	mg/kg	121.	122.	131.*	75-125	0.823	20	L471124-05	WG490955
Selenium	mg/kg	41.9	43.1	83.8	75-125	2.82	20	L471124-05	WG490955
Silver	mg/kg	46.5	48.4	93.0	75-125	4.00	20	L471124-05	WG490955
Zinc	mg/kg	136.	140.	130.*	75-125	2.90	20	L471124-05	WG490955
Mercury	mg/kg	0.246	0.246	88.4	70-130	0	20	L471045-01	WG490972
TPH (GC/FID) High Fraction	ppm	162.	157.	20.5*	50-150	3.28	25	L471622-01	WG491430
o-Terphenyl				86.91	50-150				WG491430
Chromium,Hexavalent	mg/kg	18.3	19.5	91.5	50-150	6.35	20	L471045-01	WG491136
Nickel	mg/kg	64.5	62.5	129.*	75-125	3.15	20	L471124-05	WG490955

Batch number /Run number / Sample number cross reference

WG490720: R1304610: L471050-01
WG490955: R1306675: L471050-01
WG490972: R1307072: L471050-01
WG491011: R1307150: L471050-01
WG491430: R1309289: L471050-01
WG491167: R1310928: L471050-01
WG491172: R1310969: L471050-01
WG491136: R1311089: L471050-01

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Level II

L471050

August 06, 2010

WG491239: R1312128: L471050-01
WG491916: R1318648: L471050-01

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
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Level II

L471050

August 06, 2010

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Report Summary

Thursday August 05, 2010

Report Number: L471047
Samples Received: 07/29/10
Client Project: G08 Pit Closure

Description: G08 Pit Closure

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:

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

August 05, 2010

ESC Sample # : L471047-01

Date Received : July 29, 2010
Description : G08 Pit Closure

Site ID :

Sample ID : G08-E. PIT-072810

Project # : G08 Pit Closure

Collected By : Blair Rollins
Collection Date : 07/28/10 13:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	08/03/10	1
Chromium,Trivalent	32.	2.0	mg/kg	Calc.	07/31/10	1
ORP	180		mV	2580	08/03/10	1
pH	7.9		su	9045D	07/31/10	1
Sodium Adsorption Ratio	35.			Calc.	08/04/10	1
Specific Conductance	1900		umhos/cm	9050AMod	08/03/10	1
Mercury	0.033	0.020	mg/kg	7471	08/01/10	1
Arsenic	11.	1.0	mg/kg	6010B	07/31/10	1
Barium	460	0.25	mg/kg	6010B	07/31/10	1
Cadmium	0.57	0.50	mg/kg	6010B	08/03/10	2
Chromium	32.	0.50	mg/kg	6010B	07/31/10	1
Copper	25.	1.0	mg/kg	6010B	07/31/10	1
Lead	18.	0.25	mg/kg	6010B	07/31/10	1
Nickel	25.	2.0	mg/kg	6010B	08/03/10	2
Selenium	BDL	1.0	mg/kg	6010B	07/31/10	1
Silver	BDL	0.50	mg/kg	6010B	07/31/10	1
Zinc	57.	1.5	mg/kg	6010B	07/31/10	1
Benzene	0.0098	0.0025	mg/kg	8021/8015	07/29/10	5
Toluene	BDL	0.025	mg/kg	8021/8015	07/29/10	5
Ethylbenzene	0.028	0.0025	mg/kg	8021/8015	07/29/10	5
Total Xylene	0.017	0.0075	mg/kg	8021/8015	07/29/10	5
TPH (GC/FID) Low Fraction	12.	0.50	mg/kg	GRO	07/29/10	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	93.7		% Rec.	8021/8015	07/29/10	5
a,a,a-Trifluorotoluene(PID)	99.4		% Rec.	8021/8015	07/29/10	5
TPH (GC/FID) High Fraction	1000	80.	mg/kg	3546/DRO	07/31/10	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/31/10	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Acenaphthene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Acenaphthylene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Benzo(a)anthracene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Benzo(a)pyrene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L471047-01 (SV8270PAHSIM) - Diluted due to matrix
L471047-01 (PH) - 7.9@21.4c

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

August 05, 2010

ESC Sample # : L471047-01

Site ID :

Project # : G08 Pit Closure

Date Received : July 29, 2010
Description : G08 Pit Closure

Sample ID : G08-E. PIT-072810

Collected By : Blair Rollins
Collection Date : 07/28/10 13:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Benzo(g,h,i)perylene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Benzo(k)fluoranthene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Chrysene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Dibenz(a,h)anthracene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Fluoranthene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Fluorene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Indeno(1,2,3-cd)pyrene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Naphthalene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Phenanthrene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Pyrene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
1-Methylnaphthalene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
2-Methylnaphthalene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
2-Chloronaphthalene	BDL	0.060	mg/kg	8270C-SIM	08/05/10	10
Surrogate Recovery						
Nitrobenzene-d5	169.		% Rec.	8270C-SIM	08/05/10	10
2-Fluorobiphenyl	70.8		% Rec.	8270C-SIM	08/05/10	10
p-Terphenyl-d14	74.2		% Rec.	8270C-SIM	08/05/10	10

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 08/05/10 11:18 Printed: 08/05/10 14:33
L471047-01 (SV8270PAHSIM) - Diluted due to matrix
L471047-01 (PH) - 7.9@21.4c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L471047-01	WG490985	SAMP	Anthracene	R1307689	O
	WG490985	SAMP	Acenaphthene	R1307689	O
	WG490985	SAMP	Acenaphthylene	R1307689	O
	WG490985	SAMP	Benzo(a)anthracene	R1307689	O
	WG490985	SAMP	Benzo(a)pyrene	R1307689	O
	WG490985	SAMP	Benzo(b)fluoranthene	R1307689	O
	WG490985	SAMP	Benzo(g,h,i)perylene	R1307689	O
	WG490985	SAMP	Benzo(k)fluoranthene	R1307689	O
	WG490985	SAMP	Chrysene	R1307689	O
	WG490985	SAMP	Dibenz(a,h)anthracene	R1307689	O
	WG490985	SAMP	Fluoranthene	R1307689	O
	WG490985	SAMP	Fluorene	R1307689	O
	WG490985	SAMP	Indeno(1,2,3-cd)pyrene	R1307689	O
	WG490985	SAMP	Naphthalene	R1307689	O
	WG490985	SAMP	Phenanthrene	R1307689	O
	WG490985	SAMP	Pyrene	R1307689	O
	WG490985	SAMP	1-Methylnaphthalene	R1307689	O
	WG490985	SAMP	2-Methylnaphthalene	R1307689	O
	WG490985	SAMP	2-Chloronaphthalene	R1307689	O
	WG490985	SAMP	Nitrobenzene-d5	R1307689	J1
	WG490981	SAMP	o-Terphenyl	R1306211	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary 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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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
08/05/10 at 14:33:39

TSR Signing Reports: 358
R4 - Rush: Three Day

Create p-key for each project, and enter "project description" as Project Number and Project Name. Log all samples to separate L#s. Log all PAHs as SV8270PAHSIM. Log all BTEX samples by 8021.

Sample: L471047-01 Account: ENCANACO Received: 07/29/10 09:00 Due Date: 08/05/10 00:00 RPT Date: 08/05/10 11:18

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Parachute, CO 81635

Quality Assurance Report
Level II

L471047

August 05, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG490720	07/29/10 14:01
Ethylbenzene	< .0005	mg/kg			WG490720	07/29/10 14:01
Toluene	< .005	mg/kg			WG490720	07/29/10 14:01
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG490720	07/29/10 14:01
Total Xylene	< .0015	mg/kg			WG490720	07/29/10 14:01
a,a,a-Trifluorotoluene(FID)		% Rec.	98.08	59-128	WG490720	07/29/10 14:01
a,a,a-Trifluorotoluene(PID)		% Rec.	103.0	54-144	WG490720	07/29/10 14:01
TPH (GC/FID) High Fraction	< 4	ppm			WG490981	07/30/10 13:18
o-Terphenyl		% Rec.	89.17	50-150	WG490981	07/30/10 13:18
Arsenic	< 1	mg/kg			WG490955	07/30/10 23:42
Barium	< .25	mg/kg			WG490955	07/30/10 23:42
Cadmium	< .25	mg/kg			WG490955	07/30/10 23:42
Chromium	< .5	mg/kg			WG490955	07/30/10 23:42
Copper	< 1	mg/kg			WG490955	07/30/10 23:42
Lead	< .25	mg/kg			WG490955	07/30/10 23:42
Selenium	< 1	mg/kg			WG490955	07/30/10 23:42
Silver	< .5	mg/kg			WG490955	07/30/10 23:42
Zinc	< 1.5	mg/kg			WG490955	07/30/10 23:42
Mercury	< .02	mg/kg			WG490972	08/01/10 10:25
pH	5.30	su			WG491011	07/31/10 10:45
1-Methylnaphthalene	< .006	mg/kg			WG490985	08/02/10 08:57
2-Chloronaphthalene	< .006	mg/kg			WG490985	08/02/10 08:57
2-Methylnaphthalene	< .006	mg/kg			WG490985	08/02/10 08:57
Acenaphthene	< .006	mg/kg			WG490985	08/02/10 08:57
Acenaphthylene	< .006	mg/kg			WG490985	08/02/10 08:57
Anthracene	< .006	mg/kg			WG490985	08/02/10 08:57
Benzo(a)anthracene	< .006	mg/kg			WG490985	08/02/10 08:57
Benzo(a)pyrene	< .006	mg/kg			WG490985	08/02/10 08:57
Benzo(b)fluoranthene	< .006	mg/kg			WG490985	08/02/10 08:57
Benzo(g,h,i)perylene	< .006	mg/kg			WG490985	08/02/10 08:57
Benzo(k)fluoranthene	< .006	mg/kg			WG490985	08/02/10 08:57
Chrysene	< .006	mg/kg			WG490985	08/02/10 08:57
Dibenz(a,h)anthracene	< .006	mg/kg			WG490985	08/02/10 08:57
Fluoranthene	< .006	mg/kg			WG490985	08/02/10 08:57
Fluorene	< .006	mg/kg			WG490985	08/02/10 08:57
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG490985	08/02/10 08:57
Naphthalene	< .006	mg/kg			WG490985	08/02/10 08:57
Phenanthrene	< .006	mg/kg			WG490985	08/02/10 08:57
Pyrene	< .006	mg/kg			WG490985	08/02/10 08:57
2-Fluorobiphenyl		% Rec.	81.22	21-120	WG490985	08/02/10 08:57
Nitrobenzene-d5		% Rec.	75.07	33-114	WG490985	08/02/10 08:57
p-Terphenyl-d14		% Rec.	98.87	18-142	WG490985	08/02/10 08:57
Chromium,Hexavalent	< 2	mg/kg			WG491136	08/03/10 16:21
Nickel	< 1	mg/kg			WG490955	08/03/10 16:53

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Parachute, CO 81635

Quality Assurance Report
Level II

L471047

August 05, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Specific Conductance	0.890	umhos/cm			WG491172	08/03/10 15:10

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Arsenic	mg/kg	26.0	28.0	7.02	20	L471124-05	WG490955
Barium	mg/kg	100.	85.9	18.1	20	L471124-05	WG490955
Cadmium	mg/kg	0	0	0	20	L471124-05	WG490955
Chromium	mg/kg	13.0	14.8	10.7	20	L471124-05	WG490955
Copper	mg/kg	26.0	30.7	17.3	20	L471124-05	WG490955
Lead	mg/kg	72.0	55.6	25.6*	20	L471124-05	WG490955
Selenium	mg/kg	0	0	0	20	L471124-05	WG490955
Silver	mg/kg	0	0	0	20	L471124-05	WG490955
Zinc	mg/kg	90.0	71.0	23.4*	20	L471124-05	WG490955
Mercury	mg/kg	0.0230	0.0250	8.77	20	L471045-01	WG490972
pH	su	7.60	7.50	1.32*	1	L470825-01	WG491011
Specific Conductance	umhos/cm	120.	120.	1.90	20	L471045-01	WG491172
Chromium,Hexavalent	mg/kg	0	0	0	20	L471047-01	WG491136
Chromium,Hexavalent	mg/kg	0	0	0	20	L471362-04	WG491136
ORP	mV	220.	220.	0	20	L471045-01	WG491167
ORP	mV	200.	200.	1.49	20	L471333-01	WG491167
Nickel	mg/kg	21.0	0	NA	20	L471124-05	WG490955

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0535	107.	76-113	WG490720
Ethylbenzene	mg/kg	.05	0.0544	109.	78-115	WG490720
Toluene	mg/kg	.05	0.0541	108.	76-114	WG490720
Total Xylene	mg/kg	.15	0.165	110.	81-118	WG490720
a,a,a-Trifluorotoluene(PID)				101.6	54-144	WG490720
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.09	111.	67-135	WG490720
a,a,a-Trifluorotoluene(FID)				90.80	59-128	WG490720
TPH (GC/FID) High Fraction	ppm	60	51.1	85.1	50-150	WG490981
o-Terphenyl				95.53	50-150	WG490981
Arsenic	mg/kg	192	190.	99.0	78.6-120.8	WG490955
Barium	mg/kg	420	397.	94.5	78.8-121.4	WG490955
Cadmium	mg/kg	70.1	58.0	82.7	78.5-121.5	WG490955
Chromium	mg/kg	168	160.	95.2	80.4-120.2	WG490955
Copper	mg/kg	122	123.	101.	81.6-119.7	WG490955
Lead	mg/kg	113	111.	98.2	77.3-122.1	WG490955
Selenium	mg/kg	176	163.	92.6	75.6-125.0	WG490955

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Level II

L471047

August 05, 2010

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Silver	mg/kg	115	106.	92.2	66-133.9	WG490955
Zinc	mg/kg	437	391.	89.5	78.5-121.7	WG490955
Mercury	mg/kg	8.77	9.44	108.	71.6-127.7	WG490972
pH	su	9.36	9.30	99.4	98.9-102.0	WG491011
1-Methylnaphthalene	mg/kg	.033	0.0251	76.1	41-110	WG490985
2-Chloronaphthalene	mg/kg	.033	0.0249	75.5	43-109	WG490985
2-Methylnaphthalene	mg/kg	.033	0.0237	71.8	38-104	WG490985
Acenaphthene	mg/kg	.033	0.0243	73.6	48-103	WG490985
Acenaphthylene	mg/kg	.033	0.0227	68.8	43-106	WG490985
Anthracene	mg/kg	.033	0.0237	72.0	51-110	WG490985
Benzo(a)anthracene	mg/kg	.033	0.0222	67.2	38-126	WG490985
Benzo(a)pyrene	mg/kg	.033	0.0222	67.3	47-118	WG490985
Benzo(b)fluoranthene	mg/kg	.033	0.0198	60.1	47-118	WG490985
Benzo(g,h,i)perylene	mg/kg	.033	0.0224	67.7	40-125	WG490985
Benzo(k)fluoranthene	mg/kg	.033	0.0245	74.2	45-121	WG490985
Chrysene	mg/kg	.033	0.0266	80.5	35-135	WG490985
Dibenz(a,h)anthracene	mg/kg	.033	0.0226	68.5	41-124	WG490985
Fluoranthene	mg/kg	.033	0.0244	73.9	50-114	WG490985
Fluorene	mg/kg	.033	0.0239	72.4	49-109	WG490985
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0222	67.2	40-126	WG490985
Naphthalene	mg/kg	.033	0.0244	73.9	36-100	WG490985
Phenanthrene	mg/kg	.033	0.0239	72.3	46-108	WG490985
Pyrene	mg/kg	.033	0.0229	69.5	30-136	WG490985
2-Fluorobiphenyl				93.93	21-120	WG490985
Nitrobenzene-d5				81.37	33-114	WG490985
p-Terphenyl-d14				102.0	18-142	WG490985
Specific Conductance	umhos/cm	406	430.	106.	85-115	WG491172
Chromium,Hexavalent	mg/kg	100	95.5	95.5	50-143	WG491136
ORP	mV	229	220.	96.1	95.6-104.37	WG491167
Nickel	mg/kg	74.1	73.4	99.1	78.8-121.2	WG490955

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0526	0.0535	105.	76-113	1.59	20	WG490720
Ethylbenzene	mg/kg	0.0535	0.0544	107.	78-115	1.62	20	WG490720
Toluene	mg/kg	0.0531	0.0541	106.	76-114	1.90	20	WG490720
Total Xylene	mg/kg	0.162	0.165	108.	81-118	1.86	20	WG490720
a,a,a-Trifluorotoluene(PID)				101.1	54-144			WG490720
TPH (GC/FID) Low Fraction	mg/kg	5.98	6.09	109.	67-135	1.84	20	WG490720
a,a,a-Trifluorotoluene(FID)				90.29	59-128			WG490720
TPH (GC/FID) High Fraction	ppm	48.3	51.1	80.0	50-150	5.68	25	WG490981
o-Terphenyl				93.98	50-150			WG490981

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Quality Assurance Report
Level II

August 05, 2010

L471047

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
pH	su	9.30	9.30	99.0	98.9-102.0	0	20	WG491011
1-Methylnaphthalene	mg/kg	0.0237	0.0251	72.0	41-110	5.77	24	WG490985
2-Chloronaphthalene	mg/kg	0.0240	0.0249	73.0	43-109	3.88	21	WG490985
2-Methylnaphthalene	mg/kg	0.0232	0.0237	70.0	38-104	2.06	24	WG490985
Acenaphthene	mg/kg	0.0217	0.0243	66.0	48-103	11.4	20	WG490985
Acenaphthylene	mg/kg	0.0205	0.0227	62.0	43-106	10.4	20	WG490985
Anthracene	mg/kg	0.0222	0.0237	67.0	51-110	6.60	22	WG490985
Benzo(a)anthracene	mg/kg	0.0215	0.0222	65.0	38-126	2.92	20	WG490985
Benzo(a)pyrene	mg/kg	0.0205	0.0222	62.0	47-118	8.09	20	WG490985
Benzo(b)fluoranthene	mg/kg	0.0209	0.0198	63.0	47-118	5.05	29	WG490985
Benzo(g,h,i)perylene	mg/kg	0.0213	0.0224	64.0	40-125	4.81	20	WG490985
Benzo(k)fluoranthene	mg/kg	0.0219	0.0245	66.0	45-121	11.0	31	WG490985
Chrysene	mg/kg	0.0232	0.0266	70.0	35-135	13.7	20	WG490985
Dibenz(a,h)anthracene	mg/kg	0.0212	0.0226	64.0	41-124	6.62	20	WG490985
Fluoranthene	mg/kg	0.0211	0.0244	64.0	50-114	14.3	20	WG490985
Fluorene	mg/kg	0.0221	0.0239	67.0	49-109	7.56	19	WG490985
Indeno(1,2,3-cd)pyrene	mg/kg	0.0209	0.0222	63.0	40-126	6.15	20	WG490985
Naphthalene	mg/kg	0.0228	0.0244	69.0	36-100	6.93	24	WG490985
Phenanthrene	mg/kg	0.0223	0.0239	67.0	46-108	6.97	21	WG490985
Pyrene	mg/kg	0.0234	0.0229	71.0	30-136	2.04	20	WG490985
2-Fluorobiphenyl				83.22	21-120			WG490985
Nitrobenzene-d5				75.22	33-114			WG490985
p-Terphenyl-d14				100.0	18-142			WG490985
Specific Conductance	umhos/	430.	430.	106.	85-115	0	20	WG491172
Chromium,Hexavalent	mg/kg	95.0	95.5	95.0	50-143	0.525	20	WG491136
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG491167

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/kg	0.254	0	.05	102.	32-137	L470868-01	WG490720
Ethylbenzene	mg/kg	0.246	0	.05	98.3	10-150	L470868-01	WG490720
Toluene	mg/kg	0.256	0	.05	102.	20-142	L470868-01	WG490720
Total Xylene	mg/kg	0.757	0	.15	101.	16-141	L470868-01	WG490720
a,a,a-Trifluorotoluene(PID)					101.6	54-144		WG490720
TPH (GC/FID) Low Fraction	mg/kg	23.0	0	5.5	83.8	55-109	L470868-01	WG490720
a,a,a-Trifluorotoluene(FID)					92.75	59-128		WG490720
Arsenic	mg/kg	71.1	28.0	50	86.2	75-125	L471124-05	WG490955
Barium	mg/kg	146.	85.9	50	120.	75-125	L471124-05	WG490955
Cadmium	mg/kg	43.6	0	50	87.2	75-125	L471124-05	WG490955
Chromium	mg/kg	60.8	14.8	50	92.0	75-125	L471124-05	WG490955
Copper	mg/kg	81.0	30.7	50	101.	75-125	L471124-05	WG490955
Lead	mg/kg	122.	55.6	50	133.*	75-125	L471124-05	WG490955
Selenium	mg/kg	43.1	0	50	86.2	75-125	L471124-05	WG490955
Silver	mg/kg	48.4	0	50	96.8	75-125	L471124-05	WG490955
Zinc	mg/kg	140.	71.0	50	138.*	75-125	L471124-05	WG490955
Mercury	mg/kg	0.246	0.0250	.25	88.4	70-130	L471045-01	WG490972

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Parachute, CO 81635

Quality Assurance Report
Level II

L471047

August 05, 2010

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chromium,Hexavalent	mg/kg	19.5	0	20	97.5	50-150	L471045-01	WG491136
Nickel	mg/kg	62.5	0	50	125.	75-125	L471124-05	WG490955

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.241	0.254	96.5	32-137	5.14	39	L470868-01	WG490720
Ethylbenzene	mg/kg	0.220	0.246	88.0	10-150	11.1	44	L470868-01	WG490720
Toluene	mg/kg	0.235	0.256	94.1	20-142	8.46	42	L470868-01	WG490720
Total Xylene	mg/kg	0.672	0.757	89.5	16-141	12.0	46	L470868-01	WG490720
a,a,a-Trifluorotoluene(PID)				100.9	54-144				WG490720
TPH (GC/FID) Low Fraction	mg/kg	18.6	23.0	67.8	55-109	21.1*	20	L470868-01	WG490720
a,a,a-Trifluorotoluene(FID)				93.60	59-128				WG490720
Arsenic	mg/kg	66.9	71.1	77.8	75-125	6.09	20	L471124-05	WG490955
Barium	mg/kg	140.	146.	108.	75-125	4.20	20	L471124-05	WG490955
Cadmium	mg/kg	41.9	43.6	83.8	75-125	3.98	20	L471124-05	WG490955
Chromium	mg/kg	59.0	60.8	88.4	75-125	3.01	20	L471124-05	WG490955
Copper	mg/kg	77.0	81.0	92.6	75-125	5.06	20	L471124-05	WG490955
Lead	mg/kg	121.	122.	131.*	75-125	0.823	20	L471124-05	WG490955
Selenium	mg/kg	41.9	43.1	83.8	75-125	2.82	20	L471124-05	WG490955
Silver	mg/kg	46.5	48.4	93.0	75-125	4.00	20	L471124-05	WG490955
Zinc	mg/kg	136.	140.	130.*	75-125	2.90	20	L471124-05	WG490955
Mercury	mg/kg	0.246	0.246	88.4	70-130	0	20	L471045-01	WG490972
Chromium,Hexavalent	mg/kg	18.3	19.5	91.5	50-150	6.35	20	L471045-01	WG491136
Nickel	mg/kg	64.5	62.5	129.*	75-125	3.15	20	L471124-05	WG490955

Batch number /Run number / Sample number cross reference

WG490720: R1304610: L471047-01
WG490981: R1306211: L471047-01
WG490955: R1306675: L471047-01
WG490972: R1307072: L471047-01
WG491011: R1307150: L471047-01
WG490985: R1307689: L471047-01
WG491167: R1310928: L471047-01
WG491172: R1310969: L471047-01
WG491136: R1311089: L471047-01
WG491239: R1312128: L471047-01

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L471047

August 05, 2010

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Wednesday August 04, 2010

Report Number: L471048
Samples Received: 07/29/10
Client Project:

Description: G08 Pit Closure

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:

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

August 04, 2010

ESC Sample # : L471048-01

Date Received : July 29, 2010
Description : G08 Pit Closure

Site ID :

Sample ID : G08-W. PIT-072810

Project # :

Collected By : Blair Rollins
Collection Date : 07/28/10 13:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	08/03/10	1
Chromium,Trivalent	22.	2.0	mg/kg	Calc.	07/31/10	1
ORP	160		mV	2580	08/03/10	1
pH	12.		su	9045D	07/31/10	1
Sodium Adsorption Ratio	59.			Calc.	08/04/10	1
Specific Conductance	1900		umhos/cm	9050AMod	08/03/10	1
Mercury	0.021	0.020	mg/kg	7471	08/01/10	1
Arsenic	8.4	1.0	mg/kg	6010B	07/31/10	1
Barium	2500	0.25	mg/kg	6010B	07/31/10	1
Cadmium	3.2	0.25	mg/kg	6010B	08/03/10	1
Chromium	22.	0.50	mg/kg	6010B	07/31/10	1
Copper	19.	1.0	mg/kg	6010B	07/31/10	1
Lead	21.	1.2	mg/kg	6010B	07/31/10	5
Nickel	14.	1.0	mg/kg	6010B	08/03/10	1
Selenium	5.3	1.0	mg/kg	6010B	07/31/10	1
Silver	BDL	0.50	mg/kg	6010B	07/31/10	1
Zinc	48.	1.5	mg/kg	6010B	07/31/10	1
Benzene	0.22	0.050	mg/kg	8021/8015	07/29/10	100
Toluene	1.3	0.50	mg/kg	8021/8015	07/29/10	100
Ethylbenzene	0.34	0.050	mg/kg	8021/8015	07/29/10	100
Total Xylene	3.4	0.15	mg/kg	8021/8015	07/29/10	100
TPH (GC/FID) Low Fraction	77.	10.	mg/kg	GRO	07/29/10	100
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	93.5		% Rec.	8021/8015	07/29/10	100
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	07/29/10	100
TPH (GC/FID) High Fraction	2100	80.	mg/kg	3546/DRO	07/31/10	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/31/10	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Acenaphthene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Acenaphthylene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Benzo(a)anthracene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Benzo(a)pyrene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L471048-01 (PH) - 12.0@21.3c

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

August 04, 2010

ESC Sample # : L471048-01

Site ID :

Project # :

Date Received : July 29, 2010
Description : G08 Pit Closure

Sample ID : G08-W. PIT-072810

Collected By : Blair Rollins
Collection Date : 07/28/10 13:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(b)fluoranthene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Benzo(g,h,i)perylene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Benzo(k)fluoranthene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Chrysene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Dibenz(a,h)anthracene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Fluoranthene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Fluorene	0.26	0.15	mg/kg	8270C-SIM	08/03/10	25
Indeno(1,2,3-cd)pyrene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Naphthalene	0.42	0.15	mg/kg	8270C-SIM	08/03/10	25
Phenanthrene	0.23	0.15	mg/kg	8270C-SIM	08/03/10	25
Pyrene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
1-Methylnaphthalene	0.47	0.15	mg/kg	8270C-SIM	08/03/10	25
2-Methylnaphthalene	1.3	0.15	mg/kg	8270C-SIM	08/03/10	25
2-Chloronaphthalene	BDL	0.15	mg/kg	8270C-SIM	08/03/10	25
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	08/03/10	25
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	08/03/10	25
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	08/03/10	25

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: 08/04/10 16:00 Printed: 08/04/10 16:00
L471048-01 (PH) - 12.0@21.3c

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L471048-01	WG490985	SAMP	Nitrobenzene-d5	R1307689	J7
	WG490985	SAMP	2-Fluorobiphenyl	R1307689	J7
	WG490985	SAMP	p-Terphenyl-d14	R1307689	J7
	WG490981	SAMP	o-Terphenyl	R1306211	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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
08/04/10 at 16:00:44

TSR Signing Reports: 358
R4 - Rush: Three Day

Log all samples to separate L#s. Log all PAHs as SV8270PAHSIM. Log all BTEX samples by 8021.

Sample: L471048-01 Account: ENCANACO Received: 07/29/10 09:00 Due Date: 08/03/10 00:00 RPT Date: 08/04/10 16:00

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Quality Assurance Report
Level II

L471048

August 04, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG490720	07/29/10 14:01
Ethylbenzene	< .0005	mg/kg			WG490720	07/29/10 14:01
Toluene	< .005	mg/kg			WG490720	07/29/10 14:01
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG490720	07/29/10 14:01
Total Xylene	< .0015	mg/kg			WG490720	07/29/10 14:01
a,a,a-Trifluorotoluene(FID)		% Rec.	98.08	59-128	WG490720	07/29/10 14:01
a,a,a-Trifluorotoluene(PID)		% Rec.	103.0	54-144	WG490720	07/29/10 14:01
TPH (GC/FID) High Fraction	< 4	ppm			WG490981	07/30/10 13:18
o-Terphenyl		% Rec.	89.17	50-150	WG490981	07/30/10 13:18
Arsenic	< 1	mg/kg			WG490955	07/30/10 23:42
Barium	< .25	mg/kg			WG490955	07/30/10 23:42
Cadmium	< .25	mg/kg			WG490955	07/30/10 23:42
Chromium	< .5	mg/kg			WG490955	07/30/10 23:42
Copper	< 1	mg/kg			WG490955	07/30/10 23:42
Lead	< .25	mg/kg			WG490955	07/30/10 23:42
Selenium	< 1	mg/kg			WG490955	07/30/10 23:42
Silver	< .5	mg/kg			WG490955	07/30/10 23:42
Zinc	< 1.5	mg/kg			WG490955	07/30/10 23:42
Mercury	< .02	mg/kg			WG490972	08/01/10 10:25
pH	5.30	su			WG491011	07/31/10 10:45
1-Methylnaphthalene	< .006	mg/kg			WG490985	08/02/10 08:57
2-Chloronaphthalene	< .006	mg/kg			WG490985	08/02/10 08:57
2-Methylnaphthalene	< .006	mg/kg			WG490985	08/02/10 08:57
Acenaphthene	< .006	mg/kg			WG490985	08/02/10 08:57
Acenaphthylene	< .006	mg/kg			WG490985	08/02/10 08:57
Anthracene	< .006	mg/kg			WG490985	08/02/10 08:57
Benzo(a)anthracene	< .006	mg/kg			WG490985	08/02/10 08:57
Benzo(a)pyrene	< .006	mg/kg			WG490985	08/02/10 08:57
Benzo(b)fluoranthene	< .006	mg/kg			WG490985	08/02/10 08:57
Benzo(g,h,i)perylene	< .006	mg/kg			WG490985	08/02/10 08:57
Benzo(k)fluoranthene	< .006	mg/kg			WG490985	08/02/10 08:57
Chrysene	< .006	mg/kg			WG490985	08/02/10 08:57
Dibenz(a,h)anthracene	< .006	mg/kg			WG490985	08/02/10 08:57
Fluoranthene	< .006	mg/kg			WG490985	08/02/10 08:57
Fluorene	< .006	mg/kg			WG490985	08/02/10 08:57
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG490985	08/02/10 08:57
Naphthalene	< .006	mg/kg			WG490985	08/02/10 08:57
Phenanthrene	< .006	mg/kg			WG490985	08/02/10 08:57
Pyrene	< .006	mg/kg			WG490985	08/02/10 08:57
2-Fluorobiphenyl		% Rec.	81.22	21-120	WG490985	08/02/10 08:57
Nitrobenzene-d5		% Rec.	75.07	33-114	WG490985	08/02/10 08:57
p-Terphenyl-d14		% Rec.	98.87	18-142	WG490985	08/02/10 08:57
Chromium,Hexavalent	< 2	mg/kg			WG491136	08/03/10 16:21
Nickel	< 1	mg/kg			WG490955	08/03/10 16:53

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Parachute, CO 81635

Quality Assurance Report
Level II

L471048

August 04, 2010

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Specific Conductance	0.890	umhos/cm			WG491172	08/03/10 15:10

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Arsenic	mg/kg	26.0	28.0	7.02	20	L471124-05	WG490955
Barium	mg/kg	100.	85.9	18.1	20	L471124-05	WG490955
Cadmium	mg/kg	0	0	0	20	L471124-05	WG490955
Chromium	mg/kg	13.0	14.8	10.7	20	L471124-05	WG490955
Copper	mg/kg	26.0	30.7	17.3	20	L471124-05	WG490955
Lead	mg/kg	72.0	55.6	25.6*	20	L471124-05	WG490955
Selenium	mg/kg	0	0	0	20	L471124-05	WG490955
Silver	mg/kg	0	0	0	20	L471124-05	WG490955
Zinc	mg/kg	90.0	71.0	23.4*	20	L471124-05	WG490955
Mercury	mg/kg	0.0230	0.0250	8.77	20	L471045-01	WG490972
pH	su	7.60	7.50	1.32*	1	L470825-01	WG491011
Specific Conductance	umhos/cm	120.	120.	1.90	20	L471045-01	WG491172
Chromium,Hexavalent	mg/kg	0	0	0	20	L471047-01	WG491136
Chromium,Hexavalent	mg/kg	0	0	0	20	L471362-04	WG491136
ORP	mV	220.	220.	0	20	L471045-01	WG491167
ORP	mV	200.	200.	1.49	20	L471333-01	WG491167
Nickel	mg/kg	21.0	0	NA	20	L471124-05	WG490955

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0535	107.	76-113	WG490720
Ethylbenzene	mg/kg	.05	0.0544	109.	78-115	WG490720
Toluene	mg/kg	.05	0.0541	108.	76-114	WG490720
Total Xylene	mg/kg	.15	0.165	110.	81-118	WG490720
a,a,a-Trifluorotoluene(PID)				101.6	54-144	WG490720
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.09	111.	67-135	WG490720
a,a,a-Trifluorotoluene(FID)				90.80	59-128	WG490720
TPH (GC/FID) High Fraction	ppm	60	51.1	85.1	50-150	WG490981
o-Terphenyl				95.53	50-150	WG490981
Arsenic	mg/kg	192	190.	99.0	78.6-120.8	WG490955
Barium	mg/kg	420	397.	94.5	78.8-121.4	WG490955
Cadmium	mg/kg	70.1	58.0	82.7	78.5-121.5	WG490955
Chromium	mg/kg	168	160.	95.2	80.4-120.2	WG490955
Copper	mg/kg	122	123.	101.	81.6-119.7	WG490955
Lead	mg/kg	113	111.	98.2	77.3-122.1	WG490955
Selenium	mg/kg	176	163.	92.6	75.6-125.0	WG490955

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Parachute, CO 81635

Quality Assurance Report
Level II

L471048

August 04, 2010

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Silver	mg/kg	115	106.	92.2	66-133.9	WG490955
Zinc	mg/kg	437	391.	89.5	78.5-121.7	WG490955
Mercury	mg/kg	8.77	9.44	108.	71.6-127.7	WG490972
pH	su	9.36	9.30	99.4	98.9-102.0	WG491011
1-Methylnaphthalene	mg/kg	.033	0.0251	76.1	41-110	WG490985
2-Chloronaphthalene	mg/kg	.033	0.0249	75.5	43-109	WG490985
2-Methylnaphthalene	mg/kg	.033	0.0237	71.8	38-104	WG490985
Acenaphthene	mg/kg	.033	0.0243	73.6	48-103	WG490985
Acenaphthylene	mg/kg	.033	0.0227	68.8	43-106	WG490985
Anthracene	mg/kg	.033	0.0237	72.0	51-110	WG490985
Benzo(a)anthracene	mg/kg	.033	0.0222	67.2	38-126	WG490985
Benzo(a)pyrene	mg/kg	.033	0.0222	67.3	47-118	WG490985
Benzo(b)fluoranthene	mg/kg	.033	0.0198	60.1	47-118	WG490985
Benzo(g,h,i)perylene	mg/kg	.033	0.0224	67.7	40-125	WG490985
Benzo(k)fluoranthene	mg/kg	.033	0.0245	74.2	45-121	WG490985
Chrysene	mg/kg	.033	0.0266	80.5	35-135	WG490985
Dibenz(a,h)anthracene	mg/kg	.033	0.0226	68.5	41-124	WG490985
Fluoranthene	mg/kg	.033	0.0244	73.9	50-114	WG490985
Fluorene	mg/kg	.033	0.0239	72.4	49-109	WG490985
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0222	67.2	40-126	WG490985
Naphthalene	mg/kg	.033	0.0244	73.9	36-100	WG490985
Phenanthrene	mg/kg	.033	0.0239	72.3	46-108	WG490985
Pyrene	mg/kg	.033	0.0229	69.5	30-136	WG490985
2-Fluorobiphenyl				93.93	21-120	WG490985
Nitrobenzene-d5				81.37	33-114	WG490985
p-Terphenyl-d14				102.0	18-142	WG490985
Specific Conductance	umhos/cm	406	430.	106.	85-115	WG491172
Chromium,Hexavalent	mg/kg	100	95.5	95.5	50-143	WG491136
ORP	mV	229	220.	96.1	95.6-104.37	WG491167
Nickel	mg/kg	74.1	73.4	99.1	78.8-121.2	WG490955

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0526	0.0535	105.	76-113	1.59	20	WG490720
Ethylbenzene	mg/kg	0.0535	0.0544	107.	78-115	1.62	20	WG490720
Toluene	mg/kg	0.0531	0.0541	106.	76-114	1.90	20	WG490720
Total Xylene	mg/kg	0.162	0.165	108.	81-118	1.86	20	WG490720
a,a,a-Trifluorotoluene(PID)				101.1	54-144			WG490720
TPH (GC/FID) Low Fraction	mg/kg	5.98	6.09	109.	67-135	1.84	20	WG490720
a,a,a-Trifluorotoluene(FID)				90.29	59-128			WG490720
TPH (GC/FID) High Fraction	ppm	48.3	51.1	80.0	50-150	5.68	25	WG490981
o-Terphenyl				93.98	50-150			WG490981

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Quality Assurance Report
Level II

L471048

August 04, 2010

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
pH	su	9.30	9.30	99.0	98.9-102.0	0	20	WG491011
1-Methylnaphthalene	mg/kg	0.0237	0.0251	72.0	41-110	5.77	24	WG490985
2-Chloronaphthalene	mg/kg	0.0240	0.0249	73.0	43-109	3.88	21	WG490985
2-Methylnaphthalene	mg/kg	0.0232	0.0237	70.0	38-104	2.06	24	WG490985
Acenaphthene	mg/kg	0.0217	0.0243	66.0	48-103	11.4	20	WG490985
Acenaphthylene	mg/kg	0.0205	0.0227	62.0	43-106	10.4	20	WG490985
Anthracene	mg/kg	0.0222	0.0237	67.0	51-110	6.60	22	WG490985
Benzo(a)anthracene	mg/kg	0.0215	0.0222	65.0	38-126	2.92	20	WG490985
Benzo(a)pyrene	mg/kg	0.0205	0.0222	62.0	47-118	8.09	20	WG490985
Benzo(b)fluoranthene	mg/kg	0.0209	0.0198	63.0	47-118	5.05	29	WG490985
Benzo(g,h,i)perylene	mg/kg	0.0213	0.0224	64.0	40-125	4.81	20	WG490985
Benzo(k)fluoranthene	mg/kg	0.0219	0.0245	66.0	45-121	11.0	31	WG490985
Chrysene	mg/kg	0.0232	0.0266	70.0	35-135	13.7	20	WG490985
Dibenz(a,h)anthracene	mg/kg	0.0212	0.0226	64.0	41-124	6.62	20	WG490985
Fluoranthene	mg/kg	0.0211	0.0244	64.0	50-114	14.3	20	WG490985
Fluorene	mg/kg	0.0221	0.0239	67.0	49-109	7.56	19	WG490985
Indeno(1,2,3-cd)pyrene	mg/kg	0.0209	0.0222	63.0	40-126	6.15	20	WG490985
Naphthalene	mg/kg	0.0228	0.0244	69.0	36-100	6.93	24	WG490985
Phenanthrene	mg/kg	0.0223	0.0239	67.0	46-108	6.97	21	WG490985
Pyrene	mg/kg	0.0234	0.0229	71.0	30-136	2.04	20	WG490985
2-Fluorobiphenyl				83.22	21-120			WG490985
Nitrobenzene-d5				75.22	33-114			WG490985
p-Terphenyl-d14				100.0	18-142			WG490985
Specific Conductance	umhos/	430.	430.	106.	85-115	0	20	WG491172
Chromium,Hexavalent	mg/kg	95.0	95.5	95.0	50-143	0.525	20	WG491136
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG491167

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/kg	0.254	0	.05	102.	32-137	L470868-01	WG490720
Ethylbenzene	mg/kg	0.246	0	.05	98.3	10-150	L470868-01	WG490720
Toluene	mg/kg	0.256	0	.05	102.	20-142	L470868-01	WG490720
Total Xylene	mg/kg	0.757	0	.15	101.	16-141	L470868-01	WG490720
a,a,a-Trifluorotoluene(PID)					101.6	54-144		WG490720
TPH (GC/FID) Low Fraction	mg/kg	23.0	0	5.5	83.8	55-109	L470868-01	WG490720
a,a,a-Trifluorotoluene(FID)					92.75	59-128		WG490720
Arsenic	mg/kg	71.1	28.0	50	86.2	75-125	L471124-05	WG490955
Barium	mg/kg	146.	85.9	50	120.	75-125	L471124-05	WG490955
Cadmium	mg/kg	43.6	0	50	87.2	75-125	L471124-05	WG490955
Chromium	mg/kg	60.8	14.8	50	92.0	75-125	L471124-05	WG490955
Copper	mg/kg	81.0	30.7	50	101.	75-125	L471124-05	WG490955
Lead	mg/kg	122.	55.6	50	133.*	75-125	L471124-05	WG490955
Selenium	mg/kg	43.1	0	50	86.2	75-125	L471124-05	WG490955
Silver	mg/kg	48.4	0	50	96.8	75-125	L471124-05	WG490955
Zinc	mg/kg	140.	71.0	50	138.*	75-125	L471124-05	WG490955
Mercury	mg/kg	0.246	0.0250	.25	88.4	70-130	L471045-01	WG490972

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Level II

L471048

August 04, 2010

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chromium,Hexavalent	mg/kg	19.5	0	20	97.5	50-150	L471045-01	WG491136
Nickel	mg/kg	62.5	0	50	125.	75-125	L471124-05	WG490955

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.241	0.254	96.5	32-137	5.14	39	L470868-01	WG490720
Ethylbenzene	mg/kg	0.220	0.246	88.0	10-150	11.1	44	L470868-01	WG490720
Toluene	mg/kg	0.235	0.256	94.1	20-142	8.46	42	L470868-01	WG490720
Total Xylene	mg/kg	0.672	0.757	89.5	16-141	12.0	46	L470868-01	WG490720
a,a,a-Trifluorotoluene(PID)				100.9	54-144				WG490720
TPH (GC/FID) Low Fraction	mg/kg	18.6	23.0	67.8	55-109	21.1*	20	L470868-01	WG490720
a,a,a-Trifluorotoluene(FID)				93.60	59-128				WG490720
Arsenic	mg/kg	66.9	71.1	77.8	75-125	6.09	20	L471124-05	WG490955
Barium	mg/kg	140.	146.	108.	75-125	4.20	20	L471124-05	WG490955
Cadmium	mg/kg	41.9	43.6	83.8	75-125	3.98	20	L471124-05	WG490955
Chromium	mg/kg	59.0	60.8	88.4	75-125	3.01	20	L471124-05	WG490955
Copper	mg/kg	77.0	81.0	92.6	75-125	5.06	20	L471124-05	WG490955
Lead	mg/kg	121.	122.	131.*	75-125	0.823	20	L471124-05	WG490955
Selenium	mg/kg	41.9	43.1	83.8	75-125	2.82	20	L471124-05	WG490955
Silver	mg/kg	46.5	48.4	93.0	75-125	4.00	20	L471124-05	WG490955
Zinc	mg/kg	136.	140.	130.*	75-125	2.90	20	L471124-05	WG490955
Mercury	mg/kg	0.246	0.246	88.4	70-130	0	20	L471045-01	WG490972
Chromium,Hexavalent	mg/kg	18.3	19.5	91.5	50-150	6.35	20	L471045-01	WG491136
Nickel	mg/kg	64.5	62.5	129.*	75-125	3.15	20	L471124-05	WG490955

Batch number /Run number / Sample number cross reference

WG490720: R1304610: L471048-01
WG490981: R1306211: L471048-01
WG490955: R1306675: L471048-01
WG490972: R1307072: L471048-01
WG491011: R1307150: L471048-01
WG490985: R1307689: L471048-01
WG491167: R1310928: L471048-01
WG491172: R1310969: L471048-01
WG491136: R1311089: L471048-01
WG491239: R1312128: L471048-01

* * Calculations are performed prior to rounding of reported values .
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Level II

L471048

August 04, 2010

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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2717 County Road 215, Suite 100
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Report Summary

Thursday June 16, 2011

Report Number: L519784
Samples Received: 06/08/11
Client Project:

Description: G08

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: 

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
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June 16, 2011

ESC Sample # : L519784-01

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE1-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:26

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/15/11	1
Chromium,Trivalent	30.	2.0	mg/kg	Calc.	06/10/11	1
ORP	81.		mV	2580	06/09/11	1
pH	8.4		su	9045D	06/11/11	1
Sodium Adsorption Ratio	4.1			Calc.	06/13/11	1
Specific Conductance	490		umhos/cm	9050AMod	06/09/11	1
Mercury	0.029	0.020	mg/kg	7471	06/10/11	1
Arsenic	9.1	1.0	mg/kg	6010B	06/10/11	1
Barium	360	0.25	mg/kg	6010B	06/10/11	1
Cadmium	0.84	0.25	mg/kg	6010B	06/10/11	1
Chromium	30.	0.50	mg/kg	6010B	06/10/11	1
Copper	20.	1.0	mg/kg	6010B	06/10/11	1
Lead	16.	0.25	mg/kg	6010B	06/10/11	1
Nickel	20.	1.0	mg/kg	6010B	06/10/11	1
Selenium	11.	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	52.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519784-01 (SV8270PAHSIM) - Diluted due to matrix
L519784-01 (PH) - 8.4@21.4C

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-01

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE1-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:26

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	93.8		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	101.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	95.1		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	92.5		% Rec.	8260B	06/09/11	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519784-01 (SV8270PAHSIM) - Diluted due to matrix
L519784-01 (PH) - 8.4@21.4C

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Mt. Juliet, TN 37122
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-01

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE1-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:26

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	540	160	mg/kg	3546/DRO	06/12/11	40
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	40
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Acenaphthene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Acenaphthylene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Benzo(a)anthracene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Benzo(a)pyrene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Benzo(b)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Benzo(g,h,i)perylene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Benzo(k)fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Chrysene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Dibenz(a,h)anthracene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Fluoranthene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Fluorene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Indeno(1,2,3-cd)pyrene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Naphthalene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Phenanthrene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Pyrene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
1-Methylnaphthalene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
2-Methylnaphthalene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
2-Chloronaphthalene	BDL	0.030	mg/kg	8270C-SIM	06/14/11	5
Surrogate Recovery						
Nitrobenzene-d5	89.0		% Rec.	8270C-SIM	06/14/11	5
2-Fluorobiphenyl	79.8		% Rec.	8270C-SIM	06/14/11	5
p-Terphenyl-d14	76.8		% Rec.	8270C-SIM	06/14/11	5

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: 06/16/11 12:21 Printed: 06/16/11 12:22
L519784-01 (SV8270PAHSIM) - Diluted due to matrix
L519784-01 (PH) - 8.4@21.4C

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-02

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE2-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/15/11	1
Chromium,Trivalent	21.	2.0	mg/kg	Calc.	06/10/11	1
ORP	63.		mV	2580	06/09/11	1
pH	7.8		su	9045D	06/11/11	1
Sodium Adsorption Ratio	7.5			Calc.	06/13/11	1
Specific Conductance	390		umhos/cm	9050AMod	06/09/11	1
Mercury	0.72	0.020	mg/kg	7471	06/10/11	1
Arsenic	8.1	1.0	mg/kg	6010B	06/10/11	1
Barium	1500	0.25	mg/kg	6010B	06/10/11	1
Cadmium	0.58	0.25	mg/kg	6010B	06/10/11	1
Chromium	21.	0.50	mg/kg	6010B	06/10/11	1
Copper	27.	1.0	mg/kg	6010B	06/10/11	1
Lead	25.	0.25	mg/kg	6010B	06/10/11	1
Nickel	16.	1.0	mg/kg	6010B	06/10/11	1
Selenium	6.2	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	46.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	250	10.	mg/kg	8015D/GRO	06/09/11	100
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	100.		% Rec.	602/8015	06/09/11	100
Volatile Organics						
Acetone	BDL	5.0	mg/kg	8260B	06/09/11	100
Benzene	BDL	0.10	mg/kg	8260B	06/09/11	100
Bromochloromethane	BDL	0.10	mg/kg	8260B	06/09/11	100
Bromodichloromethane	BDL	0.10	mg/kg	8260B	06/09/11	100
Bromoform	BDL	0.10	mg/kg	8260B	06/09/11	100
Bromomethane	BDL	0.50	mg/kg	8260B	06/09/11	100
Carbon disulfide	BDL	0.10	mg/kg	8260B	06/09/11	100
Carbon tetrachloride	BDL	0.10	mg/kg	8260B	06/09/11	100
Chlorobenzene	BDL	0.10	mg/kg	8260B	06/09/11	100
Chlorodibromomethane	BDL	0.10	mg/kg	8260B	06/09/11	100
Chloroethane	BDL	0.50	mg/kg	8260B	06/09/11	100
Chloroform	BDL	0.50	mg/kg	8260B	06/09/11	100
Chloromethane	BDL	0.25	mg/kg	8260B	06/09/11	100
Cyclohexane	BDL	0.10	mg/kg	8260B	06/09/11	100

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519784-02 (PH) - 7.8@21.1C

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REPORT OF ANALYSIS

Chris Hines
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2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-02

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE2-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.50	mg/kg	8260B	06/09/11	100
1,2-Dibromoethane	BDL	0.10	mg/kg	8260B	06/09/11	100
Dichlorodifluoromethane	BDL	0.50	mg/kg	8260B	06/09/11	100
1,1-Dichloroethane	BDL	0.10	mg/kg	8260B	06/09/11	100
1,2-Dichloroethane	BDL	0.10	mg/kg	8260B	06/09/11	100
1,2-Dichlorobenzene	BDL	0.10	mg/kg	8260B	06/09/11	100
1,3-Dichlorobenzene	BDL	0.10	mg/kg	8260B	06/09/11	100
1,4-Dichlorobenzene	BDL	0.10	mg/kg	8260B	06/09/11	100
1,1-Dichloroethene	BDL	0.10	mg/kg	8260B	06/09/11	100
cis-1,2-Dichloroethene	BDL	0.10	mg/kg	8260B	06/09/11	100
trans-1,2-Dichloroethene	BDL	0.10	mg/kg	8260B	06/09/11	100
1,2-Dichloropropane	BDL	0.10	mg/kg	8260B	06/09/11	100
cis-1,3-Dichloropropene	BDL	0.10	mg/kg	8260B	06/09/11	100
trans-1,3-Dichloropropene	BDL	0.10	mg/kg	8260B	06/09/11	100
Ethylbenzene	BDL	0.10	mg/kg	8260B	06/09/11	100
n-Hexane	BDL	1.0	mg/kg	8260B	06/09/11	100
2-Hexanone	BDL	1.0	mg/kg	8260B	06/09/11	100
Isopropylbenzene	BDL	1.0	mg/kg	8260B	06/09/11	100
2-Butanone (MEK)	BDL	1.0	mg/kg	8260B	06/09/11	100
Methyl Acetate	BDL	2.0	mg/kg	8260B	06/09/11	100
Methyl Cyclohexane	4.2	0.10	mg/kg	8260B	06/09/11	100
Methylene Chloride	BDL	0.50	mg/kg	8260B	06/09/11	100
4-Methyl-2-pentanone (MIBK)	BDL	1.0	mg/kg	8260B	06/09/11	100
Methyl tert-butyl ether	BDL	0.10	mg/kg	8260B	06/09/11	100
Styrene	BDL	0.10	mg/kg	8260B	06/09/11	100
1,1,2,2-Tetrachloroethane	BDL	0.10	mg/kg	8260B	06/09/11	100
Tetrachloroethene	BDL	0.10	mg/kg	8260B	06/09/11	100
Toluene	BDL	0.50	mg/kg	8260B	06/09/11	100
1,2,3-Trichlorobenzene	BDL	0.10	mg/kg	8260B	06/09/11	100
1,2,4-Trichlorobenzene	BDL	0.10	mg/kg	8260B	06/09/11	100
1,1,1-Trichloroethane	BDL	0.10	mg/kg	8260B	06/09/11	100
1,1,2-Trichloroethane	BDL	0.10	mg/kg	8260B	06/09/11	100
Trichloroethene	BDL	0.10	mg/kg	8260B	06/09/11	100
Trichlorofluoromethane	BDL	0.50	mg/kg	8260B	06/09/11	100
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.10	mg/kg	8260B	06/09/11	100
Vinyl chloride	BDL	0.10	mg/kg	8260B	06/09/11	100
o-Xylene	BDL	0.10	mg/kg	8260B	06/09/11	100
m&p-Xylene	0.22	0.20	mg/kg	8260B	06/09/11	100
Xylenes, Total	BDL	0.30	mg/kg	8260B	06/09/11	100
Surrogate Recovery						
Toluene-d8	99.8		% Rec.	8260B	06/09/11	100
Dibromofluoromethane	97.4		% Rec.	8260B	06/09/11	100
a,a,a-Trifluorotoluene	102.		% Rec.	8260B	06/09/11	100
4-Bromofluorobenzene	114.		% Rec.	8260B	06/09/11	100

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519784-02 (PH) - 7.8@21.1C

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REPORT OF ANALYSIS

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2717 County Road 215, Suite 100
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June 16, 2011

ESC Sample # : L519784-02

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE2-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	7900	160	mg/kg	3546/DRO	06/12/11	40
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	40
Polynuclear Aromatic Hydrocarbons						
Anthracene	0.28	0.12	mg/kg	8270C-SIM	06/15/11	20
Acenaphthene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Acenaphthylene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Benzo(a)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Benzo(b)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Benzo(g,h,i)perylene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Benzo(k)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Chrysene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Fluorene	0.44	0.12	mg/kg	8270C-SIM	06/15/11	20
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Naphthalene	0.12	0.12	mg/kg	8270C-SIM	06/15/11	20
Phenanthrene	0.30	0.12	mg/kg	8270C-SIM	06/15/11	20
Pyrene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
1-Methylnaphthalene	0.25	0.12	mg/kg	8270C-SIM	06/15/11	20
2-Methylnaphthalene	0.48	0.12	mg/kg	8270C-SIM	06/15/11	20
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	06/15/11	20
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	06/15/11	20
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	06/15/11	20

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: 06/16/11 12:21 Printed: 06/16/11 12:22
L519784-02 (PH) - 7.8@21.1C

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REPORT OF ANALYSIS

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2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-03

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE3-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:33

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/15/11	1
Chromium,Trivalent	28.	2.0	mg/kg	Calc.	06/10/11	1
ORP	60.		mV	2580	06/09/11	1
pH	9.0		su	9045D	06/11/11	1
Sodium Adsorption Ratio	3.1			Calc.	06/13/11	1
Specific Conductance	410		umhos/cm	9050AMod	06/09/11	1
Mercury	0.051	0.020	mg/kg	7471	06/10/11	1
Arsenic	8.2	1.0	mg/kg	6010B	06/10/11	1
Barium	870	0.25	mg/kg	6010B	06/10/11	1
Cadmium	1.2	0.25	mg/kg	6010B	06/10/11	1
Chromium	28.	0.50	mg/kg	6010B	06/10/11	1
Copper	27.	2.0	mg/kg	6010B	06/10/11	2
Lead	15.	0.50	mg/kg	6010B	06/10/11	2
Nickel	34.	1.0	mg/kg	6010B	06/10/11	1
Selenium	3.1	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	67.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	3.2	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	100.		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519784-03 (PH) - 9.0@21.2C
L519784-03 (SV8270PAHSIM) - Diluted due to matrix

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-03

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE3-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:33

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	95.7		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	100.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	97.8		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	103.		% Rec.	8260B	06/09/11	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519784-03 (PH) - 9.0@21.2C
L519784-03 (SV8270PAHSIM) - Diluted due to matrix

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-03

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE3-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:33

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	1600	80.	mg/kg	3546/DRO	06/12/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Acenaphthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Acenaphthylene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(a)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(b)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(g,h,i)perylene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(k)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Chrysene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Fluorene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Naphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Phenanthrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
1-Methylnaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
2-Methylnaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	06/14/11	20
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	06/14/11	20
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	06/14/11	20

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: 06/16/11 12:21 Printed: 06/16/11 12:22
L519784-03 (PH) - 9.0@21.2C
L519784-03 (SV8270PAHSIM) - Diluted due to matrix

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-04

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE4-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:36

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/15/11	1
Chromium,Trivalent	37.	2.0	mg/kg	Calc.	06/10/11	1
ORP	68.		mV	2580	06/09/11	1
pH	8.2		su	9045D	06/11/11	1
Sodium Adsorption Ratio	12.			Calc.	06/13/11	1
Specific Conductance	570		umhos/cm	9050AMod	06/09/11	1
Mercury	0.26	0.020	mg/kg	7471	06/10/11	1
Arsenic	27.	1.0	mg/kg	6010B	06/10/11	1
Barium	2200	0.25	mg/kg	6010B	06/10/11	1
Cadmium	BDL	0.25	mg/kg	6010B	06/10/11	1
Chromium	37.	0.50	mg/kg	6010B	06/10/11	1
Copper	33.	1.0	mg/kg	6010B	06/10/11	1
Lead	35.	0.25	mg/kg	6010B	06/10/11	1
Nickel	40.	1.0	mg/kg	6010B	06/10/11	1
Selenium	1.3	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	71.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	58.	5.0	mg/kg	8015D/GRO	06/09/11	50
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	102.		% Rec.	602/8015	06/09/11	50
Volatile Organics						
Acetone	BDL	2.5	mg/kg	8260B	06/09/11	50
Benzene	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromochloromethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromodichloromethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromoform	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromomethane	BDL	0.25	mg/kg	8260B	06/09/11	50
Carbon disulfide	BDL	0.050	mg/kg	8260B	06/09/11	50
Carbon tetrachloride	BDL	0.050	mg/kg	8260B	06/09/11	50
Chlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
Chlorodibromomethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Chloroethane	BDL	0.25	mg/kg	8260B	06/09/11	50
Chloroform	BDL	0.25	mg/kg	8260B	06/09/11	50
Chloromethane	BDL	0.12	mg/kg	8260B	06/09/11	50
Cyclohexane	BDL	0.050	mg/kg	8260B	06/09/11	50

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519784-04 (SV8270PAHSIM) - Diluted due to matrix
L519784-04 (V8260TCL) - Non-target compounds too high to run at a lower dilution.
L519784-04 (PH) - 8.2@21.1C

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-04

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE4-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:36

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,2-Dibromoethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Dichlorodifluoromethane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,1-Dichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,3-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,4-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
cis-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
trans-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichloropropane	BDL	0.050	mg/kg	8260B	06/09/11	50
cis-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	06/09/11	50
trans-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	06/09/11	50
Ethylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
n-Hexane	BDL	0.50	mg/kg	8260B	06/09/11	50
2-Hexanone	BDL	0.50	mg/kg	8260B	06/09/11	50
Isopropylbenzene	BDL	0.50	mg/kg	8260B	06/09/11	50
2-Butanone (MEK)	BDL	0.50	mg/kg	8260B	06/09/11	50
Methyl Acetate	BDL	1.0	mg/kg	8260B	06/09/11	50
Methyl Cyclohexane	0.19	0.050	mg/kg	8260B	06/09/11	50
Methylene Chloride	BDL	0.25	mg/kg	8260B	06/09/11	50
4-Methyl-2-pentanone (MIBK)	BDL	0.50	mg/kg	8260B	06/09/11	50
Methyl tert-butyl ether	BDL	0.050	mg/kg	8260B	06/09/11	50
Styrene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,2,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Tetrachloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
Toluene	BDL	0.25	mg/kg	8260B	06/09/11	50
1,2,3-Trichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2,4-Trichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,1-Trichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,2-Trichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Trichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
Trichlorofluoromethane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.050	mg/kg	8260B	06/09/11	50
Vinyl chloride	BDL	0.050	mg/kg	8260B	06/09/11	50
o-Xylene	BDL	0.050	mg/kg	8260B	06/09/11	50
m&p-Xylene	BDL	0.10	mg/kg	8260B	06/09/11	50
Xylenes, Total	BDL	0.15	mg/kg	8260B	06/09/11	50
Surrogate Recovery						
Toluene-d8	97.7		% Rec.	8260B	06/09/11	50
Dibromofluoromethane	94.6		% Rec.	8260B	06/09/11	50
a,a,a-Trifluorotoluene	101.		% Rec.	8260B	06/09/11	50
4-Bromofluorobenzene	114.		% Rec.	8260B	06/09/11	50

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519784-04 (SV8270PAHSIM) - Diluted due to matrix
L519784-04 (V8260TCL) - Non-target compounds too high to run at a lower dilution.
L519784-04 (PH) - 8.2@21.1C

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-04

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE4-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:36

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	4200	80.	mg/kg	3546/DRO	06/12/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Acenaphthene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Acenaphthylene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Benzo(a)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Benzo(b)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Benzo(g,h,i)perylene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Benzo(k)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Chrysene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Fluorene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Naphthalene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Phenanthrene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Pyrene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
1-Methylnaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
2-Methylnaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/15/11	20
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	06/15/11	20
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	06/15/11	20
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	06/15/11	20

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/16/11 12:21 Printed: 06/16/11 12:22
L519784-04 (SV8270PAHSIM) - Diluted due to matrix
L519784-04 (V8260TCL) - Non-target compounds too high to run at a lower dilution.
L519784-04 (PH) - 8.2@21.1C

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-05

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE5-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:39

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/15/11	1
Chromium,Trivalent	27.	2.0	mg/kg	Calc.	06/10/11	1
ORP	71.		mV	2580	06/09/11	1
pH	8.3		su	9045D	06/11/11	1
Sodium Adsorption Ratio	9.4			Calc.	06/13/11	1
Specific Conductance	440		umhos/cm	9050AMod	06/09/11	1
Mercury	0.067	0.020	mg/kg	7471	06/10/11	1
Arsenic	9.4	1.0	mg/kg	6010B	06/10/11	1
Barium	630	0.25	mg/kg	6010B	06/10/11	1
Cadmium	0.39	0.25	mg/kg	6010B	06/10/11	1
Chromium	27.	0.50	mg/kg	6010B	06/10/11	1
Copper	21.	1.0	mg/kg	6010B	06/10/11	1
Lead	14.	0.25	mg/kg	6010B	06/10/11	1
Nickel	38.	1.0	mg/kg	6010B	06/10/11	1
Selenium	1.0	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	82.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	1.4	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519784-05 (SV8270PAHSIM) - Diluted due to matrix
L519784-05 (PH) - 8.3@21.2C

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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 Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-05

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE5-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:39

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	90.5		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	102.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	91.6		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	94.7		% Rec.	8260B	06/09/11	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519784-05 (SV8270PAHSIM) - Diluted due to matrix
L519784-05 (PH) - 8.3@21.2C

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Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 16, 2011

ESC Sample # : L519784-05

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITE5-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:39

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	2100	80.	mg/kg	3546/DRO	06/12/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Acenaphthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Acenaphthylene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(a)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(a)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(b)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(g,h,i)perylene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Benzo(k)fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Chrysene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Dibenz(a,h)anthracene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Fluoranthene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Fluorene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Indeno(1,2,3-cd)pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Naphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Phenanthrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Pyrene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
1-Methylnaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
2-Methylnaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	06/14/11	20
2-Fluorobiphenyl	0.00		% Rec.	8270C-SIM	06/14/11	20
p-Terphenyl-d14	0.00		% Rec.	8270C-SIM	06/14/11	20

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/16/11 12:21 Printed: 06/16/11 12:22
L519784-05 (SV8270PAHSIM) - Diluted due to matrix
L519784-05 (PH) - 8.3@21.2C

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L519784-01	WG539568	SAMP	Anthracene	R1719432	O
	WG539568	SAMP	Acenaphthene	R1719432	O
	WG539568	SAMP	Acenaphthylene	R1719432	O
	WG539568	SAMP	Benzo(a)anthracene	R1719432	O
	WG539568	SAMP	Benzo(a)pyrene	R1719432	O
	WG539568	SAMP	Benzo(b)fluoranthene	R1719432	O
	WG539568	SAMP	Benzo(g,h,i)perylene	R1719432	O
	WG539568	SAMP	Benzo(k)fluoranthene	R1719432	O
	WG539568	SAMP	Chrysene	R1719432	O
	WG539568	SAMP	Dibenz(a,h)anthracene	R1719432	O
	WG539568	SAMP	Fluoranthene	R1719432	O
	WG539568	SAMP	Fluorene	R1719432	O
	WG539568	SAMP	Indeno(1,2,3-cd)pyrene	R1719432	O
	WG539568	SAMP	Naphthalene	R1719432	O
	WG539568	SAMP	Phenanthrene	R1719432	O
	WG539568	SAMP	Pyrene	R1719432	O
	WG539568	SAMP	1-Methylnaphthalene	R1719432	O
	WG539568	SAMP	2-Methylnaphthalene	R1719432	O
	WG539568	SAMP	2-Chloronaphthalene	R1719432	O
	WG539511	SAMP	Styrene	R1717552	J4
	WG539694	SAMP	o-Terphenyl	R1719950	J7
L519784-02	WG539568	SAMP	Nitrobenzene-d5	R1719432	J7
	WG539568	SAMP	2-Fluorobiphenyl	R1719432	J7
	WG539568	SAMP	p-Terphenyl-d14	R1719432	J7
	WG539511	SAMP	Methyl Cyclohexane	R1717552	E
	WG539511	SAMP	Styrene	R1717552	J4
	WG539694	SAMP	o-Terphenyl	R1719950	J7
L519784-03	WG539568	SAMP	Anthracene	R1719432	O
	WG539568	SAMP	Acenaphthene	R1719432	O
	WG539568	SAMP	Acenaphthylene	R1719432	O
	WG539568	SAMP	Benzo(a)anthracene	R1719432	O
	WG539568	SAMP	Benzo(a)pyrene	R1719432	O
	WG539568	SAMP	Benzo(b)fluoranthene	R1719432	O
	WG539568	SAMP	Benzo(g,h,i)perylene	R1719432	O
	WG539568	SAMP	Benzo(k)fluoranthene	R1719432	O
	WG539568	SAMP	Chrysene	R1719432	O
	WG539568	SAMP	Dibenz(a,h)anthracene	R1719432	O
	WG539568	SAMP	Fluoranthene	R1719432	O
	WG539568	SAMP	Fluorene	R1719432	O
	WG539568	SAMP	Indeno(1,2,3-cd)pyrene	R1719432	O
	WG539568	SAMP	Naphthalene	R1719432	O
	WG539568	SAMP	Phenanthrene	R1719432	O
	WG539568	SAMP	Pyrene	R1719432	O
	WG539568	SAMP	1-Methylnaphthalene	R1719432	O
	WG539568	SAMP	2-Methylnaphthalene	R1719432	O
	WG539568	SAMP	2-Chloronaphthalene	R1719432	O
	WG539568	SAMP	Nitrobenzene-d5	R1719432	J7
	WG539568	SAMP	2-Fluorobiphenyl	R1719432	J7
	WG539568	SAMP	p-Terphenyl-d14	R1719432	J7
	WG539511	SAMP	Styrene	R1717552	J4
	WG539694	SAMP	o-Terphenyl	R1719950	J7
L519784-04	WG539568	SAMP	Anthracene	R1719432	O
	WG539568	SAMP	Acenaphthene	R1719432	O
	WG539568	SAMP	Acenaphthylene	R1719432	O
	WG539568	SAMP	Benzo(a)anthracene	R1719432	O
	WG539568	SAMP	Benzo(a)pyrene	R1719432	O
	WG539568	SAMP	Benzo(b)fluoranthene	R1719432	O
	WG539568	SAMP	Benzo(g,h,i)perylene	R1719432	O
	WG539568	SAMP	Benzo(k)fluoranthene	R1719432	O
	WG539568	SAMP	Chrysene	R1719432	O
	WG539568	SAMP	Dibenz(a,h)anthracene	R1719432	O
	WG539568	SAMP	Fluoranthene	R1719432	O
	WG539568	SAMP	Fluorene	R1719432	O
	WG539568	SAMP	Indeno(1,2,3-cd)pyrene	R1719432	O
	WG539568	SAMP	Naphthalene	R1719432	O
	WG539568	SAMP	Phenanthrene	R1719432	O
	WG539568	SAMP	Pyrene	R1719432	O
	WG539568	SAMP	1-Methylnaphthalene	R1719432	O
	WG539568	SAMP	2-Methylnaphthalene	R1719432	O

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
	WG539568	SAMP	2-Chloronaphthalene	R1719432	O
	WG539568	SAMP	Nitrobenzene-d5	R1719432	J7
	WG539568	SAMP	2-Fluorobiphenyl	R1719432	J7
	WG539568	SAMP	p-Terphenyl-d14	R1719432	J7
	WG539511	SAMP	Styrene	R1717552	J4
	WG539694	SAMP	o-Terphenyl	R1719950	J7
L519784-05	WG539568	SAMP	Anthracene	R1719432	O
	WG539568	SAMP	Acenaphthene	R1719432	O
	WG539568	SAMP	Acenaphthylene	R1719432	O
	WG539568	SAMP	Benzo(a)anthracene	R1719432	O
	WG539568	SAMP	Benzo(a)pyrene	R1719432	O
	WG539568	SAMP	Benzo(b)fluoranthene	R1719432	O
	WG539568	SAMP	Benzo(g,h,i)perylene	R1719432	O
	WG539568	SAMP	Benzo(k)fluoranthene	R1719432	O
	WG539568	SAMP	Chrysene	R1719432	O
	WG539568	SAMP	Dibenz(a,h)anthracene	R1719432	O
	WG539568	SAMP	Fluoranthene	R1719432	O
	WG539568	SAMP	Fluorene	R1719432	O
	WG539568	SAMP	Indeno(1,2,3-cd)pyrene	R1719432	O
	WG539568	SAMP	Naphthalene	R1719432	O
	WG539568	SAMP	Phenanthrene	R1719432	O
	WG539568	SAMP	Pyrene	R1719432	O
	WG539568	SAMP	1-Methylnaphthalene	R1719432	O
	WG539568	SAMP	2-Methylnaphthalene	R1719432	O
	WG539568	SAMP	2-Chloronaphthalene	R1719432	O
	WG539568	SAMP	Nitrobenzene-d5	R1719432	J7
	WG539568	SAMP	2-Fluorobiphenyl	R1719432	J7
	WG539568	SAMP	p-Terphenyl-d14	R1719432	J7
	WG539511	SAMP	Styrene	R1717552	J4
	WG539694	SAMP	o-Terphenyl	R1719950	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
J4	The associated batch QC was outside the established quality control range for accuracy.
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary 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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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
06/16/11 at 12:22:29

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L519784-01 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 12:21

Sample: L519784-02 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 12:21

Sample: L519784-03 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 12:21

Sample: L519784-04 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 12:21

Sample: L519784-05 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/16/11 12:21

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Est. 1970

EnCana Oil & Gas Inc. - CO
Chris Hines
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L519784

June 16, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1-Trichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2-Trichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1-Dichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2,3-Trichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2,4-Trichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG539511	06/09/11 02:44
1,2-Dibromoethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichloropropane	< .001	mg/kg			WG539511	06/09/11 02:44
1,3-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,4-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
2-Butanone (MEK)	< .01	mg/kg			WG539511	06/09/11 02:44
2-Hexanone	< .01	mg/kg			WG539511	06/09/11 02:44
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG539511	06/09/11 02:44
Acetone	< .05	mg/kg			WG539511	06/09/11 02:44
Benzene	< .001	mg/kg			WG539511	06/09/11 02:44
Bromochloromethane	< .001	mg/kg			WG539511	06/09/11 02:44
Bromodichloromethane	< .001	mg/kg			WG539511	06/09/11 02:44
Bromoform	< .001	mg/kg			WG539511	06/09/11 02:44
Bromomethane	< .005	mg/kg			WG539511	06/09/11 02:44
Carbon disulfide	< .001	mg/kg			WG539511	06/09/11 02:44
Carbon tetrachloride	< .001	mg/kg			WG539511	06/09/11 02:44
Chlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
Chlorodibromomethane	< .001	mg/kg			WG539511	06/09/11 02:44
Chloroethane	< .005	mg/kg			WG539511	06/09/11 02:44
Chloroform	< .005	mg/kg			WG539511	06/09/11 02:44
Chloromethane	< .0025	mg/kg			WG539511	06/09/11 02:44
cis-1,2-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
cis-1,3-Dichloropropene	< .001	mg/kg			WG539511	06/09/11 02:44
Cyclohexane	< .001	mg/kg			WG539511	06/09/11 02:44
Dichlorodifluoromethane	< .005	mg/kg			WG539511	06/09/11 02:44
Ethylbenzene	< .001	mg/kg			WG539511	06/09/11 02:44
Isopropylbenzene	< .001	mg/kg			WG539511	06/09/11 02:44
m&p-Xylene	< .002	mg/kg			WG539511	06/09/11 02:44
Methyl Acetate	< .02	mg/kg			WG539511	06/09/11 02:44
Methyl Cyclohexane	< .001	mg/kg			WG539511	06/09/11 02:44
Methyl tert-butyl ether	< .001	mg/kg			WG539511	06/09/11 02:44
Methylene Chloride	< .005	mg/kg			WG539511	06/09/11 02:44
n-Hexane	< .01	mg/kg			WG539511	06/09/11 02:44
o-Xylene	< .001	mg/kg			WG539511	06/09/11 02:44
Styrene	< .001	mg/kg			WG539511	06/09/11 02:44
Tetrachloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
Toluene	< .005	mg/kg			WG539511	06/09/11 02:44
trans-1,2-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
trans-1,3-Dichloropropene	< .001	mg/kg			WG539511	06/09/11 02:44
Trichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
Trichlorofluoromethane	< .005	mg/kg			WG539511	06/09/11 02:44
Vinyl chloride	< .001	mg/kg			WG539511	06/09/11 02:44
Xylenes, Total	< .003	mg/kg			WG539511	06/09/11 02:44
4-Bromofluorobenzene		% Rec.	100.1	59-140	WG539511	06/09/11 02:44
Dibromofluoromethane		% Rec.	100.7	63-139	WG539511	06/09/11 02:44
Toluene-d8		% Rec.	99.02	84-116	WG539511	06/09/11 02:44
a,a,a-Trifluorotoluene		% Rec.	100.1	80-118	WG539511	06/09/11 02:44

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Est. 1970

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Chris Hines
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L519784

June 16, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Specific Conductance	1.10	umhos/cm			WG539561	06/09/11 15:12
Arsenic	< 1	mg/kg			WG539592	06/10/11 11:02
Barium	< .25	mg/kg			WG539592	06/10/11 11:02
Cadmium	< .25	mg/kg			WG539592	06/10/11 11:02
Chromium	< .5	mg/kg			WG539592	06/10/11 11:02
Copper	< 1	mg/kg			WG539592	06/10/11 11:02
Lead	< .25	mg/kg			WG539592	06/10/11 11:02
Nickel	< 1	mg/kg			WG539592	06/10/11 11:02
Selenium	< 1	mg/kg			WG539592	06/10/11 11:02
Silver	< .5	mg/kg			WG539592	06/10/11 11:02
Zinc	< 1.5	mg/kg			WG539592	06/10/11 11:02
Arsenic	< 1	mg/kg			WG539593	06/10/11 11:07
Barium	< .25	mg/kg			WG539593	06/10/11 11:07
Cadmium	< .25	mg/kg			WG539593	06/10/11 11:07
Chromium	< .5	mg/kg			WG539593	06/10/11 11:07
Copper	< 1	mg/kg			WG539593	06/10/11 11:07
Lead	< .25	mg/kg			WG539593	06/10/11 11:07
Nickel	< 1	mg/kg			WG539593	06/10/11 11:07
Selenium	< 1	mg/kg			WG539593	06/10/11 11:07
Zinc	< 1.5	mg/kg			WG539593	06/10/11 11:07
Silver	< .5	mg/kg			WG539593	06/10/11 13:26
Mercury	< .02	mg/kg			WG539585	06/10/11 03:57
1-Methylnaphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
2-Chloronaphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
2-Methylnaphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
Acenaphthene	< .006	mg/kg			WG539568	06/10/11 11:38
Acenaphthylene	< .006	mg/kg			WG539568	06/10/11 11:38
Anthracene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(a)anthracene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(a)pyrene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(b)fluoranthene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(g,h,i)perylene	< .006	mg/kg			WG539568	06/10/11 11:38
Benzo(k)fluoranthene	< .006	mg/kg			WG539568	06/10/11 11:38
Chrysene	< .006	mg/kg			WG539568	06/10/11 11:38
Dibenz(a,h)anthracene	< .006	mg/kg			WG539568	06/10/11 11:38
Fluoranthene	< .006	mg/kg			WG539568	06/10/11 11:38
Fluorene	< .006	mg/kg			WG539568	06/10/11 11:38
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG539568	06/10/11 11:38
Naphthalene	< .006	mg/kg			WG539568	06/10/11 11:38
Phenanthrene	< .006	mg/kg			WG539568	06/10/11 11:38
Pyrene	< .006	mg/kg			WG539568	06/10/11 11:38
2-Fluorobiphenyl		% Rec.	63.39	21-120	WG539568	06/10/11 11:38
Nitrobenzene-d5		% Rec.	56.39	33-114	WG539568	06/10/11 11:38
p-Terphenyl-d14		% Rec.	72.40	18-142	WG539568	06/10/11 11:38
TPH (GC/FID) High Fraction	< 4	ppm			WG539694	06/11/11 10:54
o-Terphenyl		% Rec.	71.47	50-150	WG539694	06/11/11 10:54
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG539531	06/09/11 14:24

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Quality Assurance Report
Level II

L519784

June 16, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
a,a,a-Trifluorotoluene(FID)		% Rec.	101.6	59-128		06/09/11 14:24
pH	4.00	su			WG539889	06/11/11 14:14
Chromium,Hexavalent	< 2	mg/kg			WG540021	06/15/11 15:00

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
ORP	mV	69.0	66.0	4.44	20	L519614-03	WG539516
ORP	mV	120.	110.	7.02	20	L519788-04	WG539516
Specific Conductance	umhos/cm	4700	5000	7.04	20	L519614-03	WG539561
Specific Conductance	umhos/cm	0	440.	NA	20	L519784-05	WG539561
Arsenic	mg/kg	5.70	3.85	39.2*	20	L519756-07	WG539592
Barium	mg/kg	48.0	38.4	21.6*	20	L519756-07	WG539592
Cadmium	mg/kg	0.370	0.320	15.0	20	L519756-07	WG539592
Chromium	mg/kg	12.0	9.85	22.1*	20	L519756-07	WG539592
Copper	mg/kg	9.60	7.95	18.8	20	L519756-07	WG539592
Lead	mg/kg	36.0	47.7	26.6*	20	L519756-07	WG539592
Nickel	mg/kg	8.60	6.47	28.0*	20	L519756-07	WG539592
Selenium	mg/kg	6.90	6.25	10.3	20	L519756-07	WG539592
Silver	mg/kg	0	0.0236	NA	20	L519756-07	WG539592
Zinc	mg/kg	33.0	34.0	2.08	20	L519756-07	WG539592
Arsenic	mg/kg	3.40	3.40	0.590	20	L519761-01	WG539593
Barium	mg/kg	110.	108.	1.87	20	L519761-01	WG539593
Cadmium	mg/kg	0	0	0	20	L519761-01	WG539593
Chromium	mg/kg	15.0	17.0	12.5	20	L519761-01	WG539593
Copper	mg/kg	16.0	16.0	2.53	20	L519761-01	WG539593
Lead	mg/kg	13.0	16.0	19.2	20	L519761-01	WG539593
Nickel	mg/kg	14.0	12.0	17.5	20	L519761-01	WG539593
Selenium	mg/kg	1.10	0	NA	20	L519761-01	WG539593
Silver	mg/kg	0	0.129	NA	20	L519761-01	WG539593
Zinc	mg/kg	49.0	48.0	1.65	20	L519761-01	WG539593
Mercury	mg/kg	0.0170	0.0160	6.06	20	L519815-01	WG539585
pH	su	8.40	8.40	0	1	L519784-01	WG539889
pH	su	6.00	6.00	0	1	L520058-04	WG539889
Chromium,Hexavalent	mg/kg	0	0	0	20	L519784-01	WG540021
Chromium,Hexavalent	mg/kg	0	0	0	20	L520405-01	WG540021

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
ORP	mV	229	230.	100.	95.6-104.37	WG539516
1,1,1-Trichloroethane	mg/kg	.025	0.0279	112.	62-135	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0246	98.6	74-129	WG539511

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Quality Assurance Report
Level II

L519784

June 16, 2011

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1,2-Trichloroethane	mg/kg	.025	0.0252	101.	77-124	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.025	0.0337	135.	49-155	WG539511
1,1-Dichloroethane	mg/kg	.025	0.0287	115.	61-134	WG539511
1,1-Dichloroethene	mg/kg	.025	0.0322	129.	53-136	WG539511
1,2,3-Trichlorobenzene	mg/kg	.025	0.0255	102.	62-146	WG539511
1,2,4-Trichlorobenzene	mg/kg	.025	0.0264	106.	61-148	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0272	109.	61-134	WG539511
1,2-Dibromoethane	mg/kg	.025	0.0258	103.	76-127	WG539511
1,2-Dichlorobenzene	mg/kg	.025	0.0256	102.	77-123	WG539511
1,2-Dichloroethane	mg/kg	.025	0.0270	108.	58-141	WG539511
1,2-Dichloropropane	mg/kg	.025	0.0259	103.	71-128	WG539511
1,3-Dichlorobenzene	mg/kg	.025	0.0248	99.1	71-132	WG539511
1,4-Dichlorobenzene	mg/kg	.025	0.0259	104.	72-123	WG539511
2-Butanone (MEK)	mg/kg	.125	0.141	113.	51-131	WG539511
2-Hexanone	mg/kg	.125	0.137	110.	62-145	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.143	114.	61-143	WG539511
Acetone	mg/kg	.125	0.146	117.	44-140	WG539511
Benzene	mg/kg	.025	0.0278	111.	65-128	WG539511
Bromochloromethane	mg/kg	.025	0.0284	114.	73-130	WG539511
Bromodichloromethane	mg/kg	.025	0.0257	103.	66-126	WG539511
Bromoform	mg/kg	.025	0.0217	86.6	64-139	WG539511
Bromomethane	mg/kg	.025	0.0292	117.	41-175	WG539511
Carbon disulfide	mg/kg	.025	0.0341	136.	36-161	WG539511
Carbon tetrachloride	mg/kg	.025	0.0289	116.	60-140	WG539511
Chlorobenzene	mg/kg	.025	0.0247	99.0	75-125	WG539511
Chlorodibromomethane	mg/kg	.025	0.0257	103.	72-137	WG539511
Chloroethane	mg/kg	.025	0.0269	108.	44-159	WG539511
Chloroform	mg/kg	.025	0.0280	112.	63-123	WG539511
Chloromethane	mg/kg	.025	0.0261	104.	42-149	WG539511
cis-1,2-Dichloroethene	mg/kg	.025	0.0278	111.	71-129	WG539511
cis-1,3-Dichloropropene	mg/kg	.025	0.0268	107.	73-132	WG539511
Dichlorodifluoromethane	mg/kg	.025	0.0286	115.	26-186	WG539511
Ethylbenzene	mg/kg	.025	0.0249	99.8	74-128	WG539511
Isopropylbenzene	mg/kg	.025	0.0276	110.	73-130	WG539511
m&p-Xylene	mg/kg	.05	0.0504	101.	73-127	WG539511
Methyl tert-butyl ether	mg/kg	.025	0.0303	121.	44-148	WG539511
Methylene Chloride	mg/kg	.025	0.0293	117.	57-129	WG539511
n-Hexane	mg/kg	.025	0.0256	103.	28-169	WG539511
o-Xylene	mg/kg	.025	0.0250	99.8	75-129	WG539511
Styrene	mg/kg	.025	0.0190	75.9*	76-133	WG539511
Tetrachloroethene	mg/kg	.025	0.0248	99.3	65-135	WG539511
Toluene	mg/kg	.025	0.0254	102.	70-120	WG539511
trans-1,2-Dichloroethene	mg/kg	.025	0.0289	116.	61-133	WG539511
trans-1,3-Dichloropropene	mg/kg	.025	0.0262	105.	70-135	WG539511
Trichloroethene	mg/kg	.025	0.0260	104.	71-126	WG539511
Trichlorofluoromethane	mg/kg	.025	0.0285	114.	52-147	WG539511
Vinyl chloride	mg/kg	.025	0.0273	109.	50-151	WG539511
Xylenes, Total	mg/kg	.075	0.0753	100.	74-127	WG539511
4-Bromofluorobenzene				92.91	59-140	WG539511
Dibromofluoromethane				109.8	63-139	WG539511
Toluene-d8				98.29	84-116	WG539511
a,a,a-Trifluorotoluene				100.1	80-118	WG539511
Specific Conductance	umhos/cm	556	560.	101.	85-115	WG539561
Arsenic	mg/kg	192	187.	97.4	78.6-120.8	WG539592
Barium	mg/kg	420	418.	99.5	78.8-121.4	WG539592

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Quality Assurance Report
Level II

L519784

June 16, 2011

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Cadmium	mg/kg	70.1	66.7	95.2	78.5-121.5	WG539592
Chromium	mg/kg	168	170.	101.	80.4-120.2	WG539592
Copper	mg/kg	122	127.	104.	81.6-119.7	WG539592
Lead	mg/kg	113	113.	100.	77.3-122.1	WG539592
Nickel	mg/kg	74.1	78.0	105.	78.8-121.2	WG539592
Selenium	mg/kg	176	185.	105.	75.6-125.0	WG539592
Silver	mg/kg	115	116.	101.	66-133.9	WG539592
Zinc	mg/kg	437	424.	97.0	78.5-121.7	WG539592
Arsenic	mg/kg	192	164.	85.4	78.6-120.8	WG539593
Barium	mg/kg	420	382.	91.0	78.8-121.4	WG539593
Cadmium	mg/kg	70.1	60.8	86.7	78.5-121.5	WG539593
Chromium	mg/kg	168	155.	92.3	80.4-120.2	WG539593
Copper	mg/kg	122	115.	94.3	81.6-119.7	WG539593
Lead	mg/kg	113	98.2	86.9	77.3-122.1	WG539593
Nickel	mg/kg	74.1	63.6	85.8	78.8-121.2	WG539593
Selenium	mg/kg	176	158.	89.8	75.6-125.0	WG539593
Silver	mg/kg	115	106.	92.2	66-133.9	WG539593
Zinc	mg/kg	437	384.	87.9	78.5-121.7	WG539593
Mercury	mg/kg	8.77	8.60	98.1	71.6-127.7	WG539585
1-Methylnaphthalene	mg/kg	.033	0.0209	63.3	41-110	WG539568
2-Chloronaphthalene	mg/kg	.033	0.0210	63.6	43-109	WG539568
2-Methylnaphthalene	mg/kg	.033	0.0204	61.8	38-104	WG539568
Acenaphthene	mg/kg	.033	0.0221	66.9	48-103	WG539568
Acenaphthylene	mg/kg	.033	0.0225	68.1	43-106	WG539568
Anthracene	mg/kg	.033	0.0233	70.6	51-110	WG539568
Benzo(a)anthracene	mg/kg	.033	0.0249	75.4	38-126	WG539568
Benzo(a)pyrene	mg/kg	.033	0.0229	69.4	47-118	WG539568
Benzo(b)fluoranthene	mg/kg	.033	0.0274	83.1	47-118	WG539568
Benzo(g,h,i)perylene	mg/kg	.033	0.0277	84.0	40-125	WG539568
Benzo(k)fluoranthene	mg/kg	.033	0.0223	67.6	45-121	WG539568
Chrysene	mg/kg	.033	0.0225	68.3	35-135	WG539568
Dibenz(a,h)anthracene	mg/kg	.033	0.0263	79.8	41-124	WG539568
Fluoranthene	mg/kg	.033	0.0238	72.1	50-114	WG539568
Fluorene	mg/kg	.033	0.0234	70.8	49-109	WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0264	80.0	40-126	WG539568
Naphthalene	mg/kg	.033	0.0212	64.3	36-100	WG539568
Phenanthrene	mg/kg	.033	0.0238	72.1	46-108	WG539568
Pyrene	mg/kg	.033	0.0226	68.3	30-136	WG539568
2-Fluorobiphenyl				63.13	33-114	WG539568
Nitrobenzene-d5				58.34	21-120	WG539568
p-Terphenyl-d14				65.45	18-142	WG539568
TPH (GC/FID) High Fraction	ppm	60	50.7	84.5	50-150	WG539694
o-Terphenyl				69.54	50-150	WG539694
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.24	114.	67-135	WG539531
a,a,a-Trifluorotoluene(FID)				107.1	59-128	WG539531
pH	su	6.3	6.30	100.	97.98-102.02	WG539889

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Quality Assurance Report
Level II

June 16, 2011

L519784

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Chromium,Hexavalent	mg/kg	132	100.	75.8	50-150	WG540021

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
ORP	mV	220.	230.	96.0	95.6-104.37	4.44	20	WG539516
1,1,1-Trichloroethane	mg/kg	0.0258	0.0279	103.	62-135	7.82	20	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.0225	0.0246	90.0	74-129	9.22	20	WG539511
1,1,2-Trichloroethane	mg/kg	0.0231	0.0252	92.0	77-124	8.74	20	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0306	0.0337	122.	49-155	9.59	20	WG539511
1,1-Dichloroethane	mg/kg	0.0260	0.0287	104.	61-134	9.93	20	WG539511
1,1-Dichloroethene	mg/kg	0.0291	0.0322	116.	53-136	9.89	20	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0223	0.0255	89.0	62-146	13.5	20	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0232	0.0264	93.0	61-148	12.8	20	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.0221	0.0272	88.0	61-134	20.9	21	WG539511
1,2-Dibromoethane	mg/kg	0.0233	0.0258	93.0	76-127	9.96	20	WG539511
1,2-Dichlorobenzene	mg/kg	0.0227	0.0256	91.0	77-123	11.9	20	WG539511
1,2-Dichloroethane	mg/kg	0.0243	0.0270	97.0	58-141	10.6	20	WG539511
1,2-Dichloropropane	mg/kg	0.0229	0.0259	91.0	71-128	12.4	20	WG539511
1,3-Dichlorobenzene	mg/kg	0.0234	0.0248	94.0	71-132	5.62	20	WG539511
1,4-Dichlorobenzene	mg/kg	0.0233	0.0259	93.0	72-123	10.8	20	WG539511
2-Butanone (MEK)	mg/kg	0.119	0.141	96.0	51-131	16.4	25	WG539511
2-Hexanone	mg/kg	0.122	0.137	98.0	62-145	11.7	23	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.120	0.143	96.0	61-143	16.8	23	WG539511
Acetone	mg/kg	0.123	0.146	99.0	44-140	16.7	25	WG539511
Benzene	mg/kg	0.0252	0.0278	101.	65-128	9.53	20	WG539511
Bromochloromethane	mg/kg	0.0253	0.0284	101.	73-130	11.8	20	WG539511
Bromodichloromethane	mg/kg	0.0227	0.0257	91.0	66-126	12.3	20	WG539511
Bromoform	mg/kg	0.0200	0.0217	80.0	64-139	7.92	20	WG539511
Bromomethane	mg/kg	0.0276	0.0292	110.	41-175	5.53	20	WG539511
Carbon disulfide	mg/kg	0.0319	0.0341	128.	36-161	6.67	20	WG539511
Carbon tetrachloride	mg/kg	0.0262	0.0289	105.	60-140	9.65	20	WG539511
Chlorobenzene	mg/kg	0.0229	0.0247	92.0	75-125	7.77	20	WG539511
Chlorodibromomethane	mg/kg	0.0232	0.0257	93.0	72-137	10.3	20	WG539511
Chloroethane	mg/kg	0.0253	0.0269	101.	44-159	5.89	20	WG539511
Chloroform	mg/kg	0.0253	0.0280	101.	63-123	10.1	20	WG539511
Chloromethane	mg/kg	0.0240	0.0261	96.0	42-149	8.65	20	WG539511
cis-1,2-Dichloroethene	mg/kg	0.0252	0.0278	101.	71-129	9.52	20	WG539511
cis-1,3-Dichloropropene	mg/kg	0.0238	0.0268	95.0	73-132	11.9	20	WG539511
Dichlorodifluoromethane	mg/kg	0.0257	0.0286	103.	26-186	10.7	22	WG539511
Ethylbenzene	mg/kg	0.0234	0.0249	94.0	74-128	6.19	20	WG539511
Isopropylbenzene	mg/kg	0.0260	0.0276	104.	73-130	5.67	20	WG539511
m&p-Xylene	mg/kg	0.0473	0.0504	94.0	73-127	6.37	20	WG539511
Methyl tert-butyl ether	mg/kg	0.0271	0.0303	108.	44-148	11.3	20	WG539511
Methylene Chloride	mg/kg	0.0260	0.0293	104.	57-129	11.7	20	WG539511
n-Hexane	mg/kg	0.0232	0.0256	93.0	28-169	10.1	20	WG539511
o-Xylene	mg/kg	0.0233	0.0250	93.0	75-129	6.73	20	WG539511
Styrene	mg/kg	0.0175	0.0190	70*	76-133	7.90	20	WG539511
Tetrachloroethene	mg/kg	0.0229	0.0248	91.0	65-135	8.26	20	WG539511
Toluene	mg/kg	0.0226	0.0254	90.0	70-120	11.5	20	WG539511
trans-1,2-Dichloroethene	mg/kg	0.0260	0.0289	104.	61-133	10.5	20	WG539511
trans-1,3-Dichloropropene	mg/kg	0.0226	0.0262	90.0	70-135	15.0	20	WG539511
Trichloroethene	mg/kg	0.0233	0.0260	93.0	71-126	10.8	20	WG539511
Trichlorofluoromethane	mg/kg	0.0267	0.0285	107.	52-147	6.50	20	WG539511
Vinyl chloride	mg/kg	0.0252	0.0273	101.	50-151	8.28	20	WG539511
Xylenes, Total	mg/kg	0.0706	0.0753	94.0	74-127	6.49	20	WG539511

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Tax I.D. 62-0814289

Est. 1970

EnCana Oil & Gas Inc. - CO
Chris Hines
2717 County Road 215, Suite 100
Parachute, CO 81635

Quality Assurance Report
Level II

June 16, 2011

L519784

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
4-Bromofluorobenzene				99.51	59-140			
Dibromofluoromethane				104.4	63-139			
Toluene-d8				98.26	84-116			
a,a,a-Trifluorotoluene				98.97	80-118			
Specific Conductance	umhos/	560.	560.	101.	85-115	0	20	WG539561
1-Methylnaphthalene	mg/kg	0.0240	0.0209	73.0	41-110	14.1	24	WG539568
2-Chloronaphthalene	mg/kg	0.0243	0.0210	74.0	43-109	14.4	21	WG539568
2-Methylnaphthalene	mg/kg	0.0231	0.0204	70.0	38-104	12.6	24	WG539568
Acenaphthene	mg/kg	0.0250	0.0221	76.0	48-103	12.3	20	WG539568
Acenaphthylene	mg/kg	0.0253	0.0225	77.0	43-106	11.9	20	WG539568
Anthracene	mg/kg	0.0264	0.0233	80.0	51-110	12.3	22	WG539568
Benzo(a)anthracene	mg/kg	0.0293	0.0249	89.0	38-126	16.4	20	WG539568
Benzo(a)pyrene	mg/kg	0.0266	0.0229	81.0	47-118	15.0	20	WG539568
Benzo(b)fluoranthene	mg/kg	0.0295	0.0274	89.0	47-118	7.19	29	WG539568
Benzo(g,h,i)perylene	mg/kg	0.0327	0.0277	99.0	40-125	16.5	20	WG539568
Benzo(k)fluoranthene	mg/kg	0.0279	0.0223	85.0	45-121	22.4	31	WG539568
Chrysene	mg/kg	0.0247	0.0225	75.0	35-135	9.27	20	WG539568
Dibenz(a,h)anthracene	mg/kg	0.0308	0.0263	93.0	41-124	15.7	20	WG539568
Fluoranthene	mg/kg	0.0277	0.0238	84.0	50-114	15.2	20	WG539568
Fluorene	mg/kg	0.0261	0.0234	79.0	49-109	11.1	19	WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	0.0309	0.0264	94.0	40-126	15.6	20	WG539568
Naphthalene	mg/kg	0.0248	0.0212	75.0	36-100	15.6	24	WG539568
Phenanthrene	mg/kg	0.0282	0.0238	85.0	46-108	17.0	21	WG539568
Pyrene	mg/kg	0.0264	0.0226	80.0	30-136	15.6	20	WG539568
2-Fluorobiphenyl				71.57	33-114			WG539568
Nitrobenzene-d5				65.90	21-120			WG539568
p-Terphenyl-d14				73.75	18-142			WG539568
TPH (GC/FID) High Fraction	ppm	49.4	50.7	82.0	50-150	2.51	25	WG539694
o-Terphenyl				66.51	50-150			WG539694
TPH (GC/FID) Low Fraction	mg/kg	6.34	6.24	115.	67-135	1.52	20	WG539531
a,a,a-Trifluorotoluene(FID)				107.2	59-128			WG539531
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WG539889
Chromium,Hexavalent	mg/kg	110.	100.	83.0	50-150	9.52	20	WG540021

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/kg	0.147	0	.025	117.	23-147	L519783-02	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.108	0	.025	86.6	18-150	L519783-02	WG539511
1,1,2-Trichloroethane	mg/kg	0.120	0	.025	96.2	35-140	L519783-02	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.179	0	.025	143.	10-145	L519783-02	WG539511
1,1-Dichloroethane	mg/kg	0.142	0	.025	113.	24-148	L519783-02	WG539511
1,1-Dichloroethene	mg/kg	0.167	0	.025	133.	10-149	L519783-02	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0695	0	.025	55.6	10-129	L519783-02	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0789	0	.025	63.1	10-119	L519783-02	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.136	0	.025	109.	19-145	L519783-02	WG539511
1,2-Dibromoethane	mg/kg	0.119	0	.025	94.8	24-145	L519783-02	WG539511
1,2-Dichlorobenzene	mg/kg	0.113	0	.025	90.5	12-130	L519783-02	WG539511
1,2-Dichloroethane	mg/kg	0.127	0	.025	102.	21-155	L519783-02	WG539511

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Quality Assurance Report
Level II

June 16, 2011

L519784

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dichloropropane	mg/kg	0.119	0	.025	95.0	28-144	L519783-02	WG539511
1,3-Dichlorobenzene	mg/kg	0.0957	0	.025	76.6	10-129	L519783-02	WG539511
1,4-Dichlorobenzene	mg/kg	0.118	0	.025	94.4	10-121	L519783-02	WG539511
2-Butanone (MEK)	mg/kg	0.697	0	.125	112.	21-143	L519783-02	WG539511
2-Hexanone	mg/kg	0.692	0	.125	111.	22-151	L519783-02	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.688	0	.125	110.	31-151	L519783-02	WG539511
Acetone	mg/kg	0.749	0	.125	120.	13-158	L519783-02	WG539511
Benzene	mg/kg	0.135	0	.025	108.	16-143	L519783-02	WG539511
Bromochloromethane	mg/kg	0.131	0	.025	104.	25-152	L519783-02	WG539511
Bromodichloromethane	mg/kg	0.118	0	.025	94.5	27-139	L519783-02	WG539511
Bromoform	mg/kg	0.0966	0	.025	77.3	21-144	L519783-02	WG539511
Bromomethane	mg/kg	0.140	0	.025	112.	0-180	L519783-02	WG539511
Carbon disulfide	mg/kg	0.153	0	.025	122.	10-156	L519783-02	WG539511
Carbon tetrachloride	mg/kg	0.149	0	.025	119.	12-149	L519783-02	WG539511
Chlorobenzene	mg/kg	0.113	0	.025	90.3	17-134	L519783-02	WG539511
Chlorodibromomethane	mg/kg	0.118	0	.025	94.8	28-147	L519783-02	WG539511
Chloroethane	mg/kg	0.138	0	.025	111.	0-172	L519783-02	WG539511
Chloroform	mg/kg	0.138	0	.025	111.	28-138	L519783-02	WG539511
Chloromethane	mg/kg	0.126	0	.025	100.	10-158	L519783-02	WG539511
cis-1,2-Dichloroethene	mg/kg	0.133	0	.025	107.	21-147	L519783-02	WG539511
cis-1,3-Dichloropropene	mg/kg	0.122	0	.025	97.4	17-145	L519783-02	WG539511
Dichlorodifluoromethane	mg/kg	0.133	0	.025	106.	0-192	L519783-02	WG539511
Ethylbenzene	mg/kg	0.118	0	.025	94.4	12-137	L519783-02	WG539511
Isopropylbenzene	mg/kg	0.126	0	.025	100.	14-134	L519783-02	WG539511
m&p-Xylene	mg/kg	0.234	0	.05	93.6	10-135	L519783-02	WG539511
Methyl tert-butyl ether	mg/kg	0.146	0	.025	117.	21-157	L519783-02	WG539511
Methylene Chloride	mg/kg	0.140	0	.025	112.	12-149	L519783-02	WG539511
n-Hexane	mg/kg	0.0926	0	.025	74.1	10-129	L519783-02	WG539511
o-Xylene	mg/kg	0.114	0	.025	91.0	14-140	L519783-02	WG539511
Styrene	mg/kg	0.0819	0	.025	65.5	10-140	L519783-02	WG539511
Tetrachloroethene	mg/kg	0.119	0	.025	95.2	10-131	L519783-02	WG539511
Toluene	mg/kg	0.122	0	.025	97.6	12-136	L519783-02	WG539511
trans-1,2-Dichloroethene	mg/kg	0.140	0	.025	112.	10-143	L519783-02	WG539511
trans-1,3-Dichloropropene	mg/kg	0.116	0	.025	93.1	16-147	L519783-02	WG539511
Trichloroethene	mg/kg	0.129	0	.025	103.	10-155	L519783-02	WG539511
Trichlorofluoromethane	mg/kg	0.155	0	.025	124.	10-154	L519783-02	WG539511
Vinyl chloride	mg/kg	0.140	0	.025	112.	10-159	L519783-02	WG539511
Xylenes, Total	mg/kg	0.348	0	.075	92.8	10-138	L519783-02	WG539511
4-Bromofluorobenzene					89.10	59-140		WG539511
Dibromofluoromethane					109.7	63-139		WG539511
Toluene-d8					97.03	84-116		WG539511
a,a,a-Trifluorotoluene					96.67	80-118		WG539511
Arsenic	mg/kg	52.3	3.85	50	96.9	75-125	L519756-07	WG539592
Barium	mg/kg	85.8	38.4	50	94.8	75-125	L519756-07	WG539592
Cadmium	mg/kg	47.5	0.320	50	94.4	75-125	L519756-07	WG539592
Chromium	mg/kg	58.4	9.85	50	97.1	75-125	L519756-07	WG539592
Copper	mg/kg	59.1	7.95	50	102.	75-125	L519756-07	WG539592
Lead	mg/kg	97.8	47.7	50	100.	75-125	L519756-07	WG539592
Nickel	mg/kg	55.8	6.47	50	98.7	75-125	L519756-07	WG539592
Selenium	mg/kg	52.9	6.25	50	93.3	75-125	L519756-07	WG539592
Silver	mg/kg	49.5	0.0236	50	99.0	75-125	L519756-07	WG539592
Zinc	mg/kg	81.5	34.0	50	95.0	75-125	L519756-07	WG539592
Arsenic	mg/kg	48.8	3.40	50	90.8	75-125	L519761-01	WG539593
Barium	mg/kg	158.	108.	50	100.	75-125	L519761-01	WG539593
Cadmium	mg/kg	46.4	0	50	92.8	75-125	L519761-01	WG539593

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Quality Assurance Report
Level II

June 16, 2011

L519784

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Chromium	mg/kg	60.7	17.0	50	87.4	75-125	L519761-01	WG539593
Copper	mg/kg	62.3	16.0	50	92.6	75-125	L519761-01	WG539593
Lead	mg/kg	62.1	16.0	50	92.2	75-125	L519761-01	WG539593
Nickel	mg/kg	50.6	12.0	50	77.2	75-125	L519761-01	WG539593
Selenium	mg/kg	45.1	0	50	90.2	75-125	L519761-01	WG539593
Silver	mg/kg	45.4	0.129	50	90.5	75-125	L519761-01	WG539593
Zinc	mg/kg	95.1	48.0	50	94.2	75-125	L519761-01	WG539593
Mercury	mg/kg	0.250	0.0160	.25	93.6	70-130	L519815-01	WG539585
1-Methylnaphthalene	mg/kg	0.0214	0	.033	64.8	19-131	L519830-01	WG539568
2-Chloronaphthalene	mg/kg	0.0232	0	.033	70.4	38-117	L519830-01	WG539568
2-Methylnaphthalene	mg/kg	0.0232	0	.033	70.2	18-125	L519830-01	WG539568
Acenaphthene	mg/kg	0.0249	0	.033	75.6	31-120	L519830-01	WG539568
Acenaphthylene	mg/kg	0.0252	0	.033	76.3	34-116	L519830-01	WG539568
Anthracene	mg/kg	0.0253	0	.033	76.6	32-131	L519830-01	WG539568
Benzo(a)anthracene	mg/kg	0.0332	0.00640	.033	81.1	32-131	L519830-01	WG539568
Benzo(a)pyrene	mg/kg	0.0281	0.00620	.033	66.3	28-130	L519830-01	WG539568
Benzo(b)fluoranthene	mg/kg	0.0354	0.00730	.033	85.0	37-130	L519830-01	WG539568
Benzo(g,h,i)perylene	mg/kg	0.0193	0	.033	58.6	10-134	L519830-01	WG539568
Benzo(k)fluoranthene	mg/kg	0.0257	0	.033	77.8	31-129	L519830-01	WG539568
Chrysene	mg/kg	0.0244	0	.033	74.0	25-137	L519830-01	WG539568
Dibenz(a,h)anthracene	mg/kg	0.0197	0	.033	59.6	20-134	L519830-01	WG539568
Fluoranthene	mg/kg	0.0334	0.00900	.033	73.9	27-138	L519830-01	WG539568
Fluorene	mg/kg	0.0261	0	.033	79.2	26-136	L519830-01	WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	0.0199	0	.033	60.3	16-135	L519830-01	WG539568
Naphthalene	mg/kg	0.0239	0	.033	72.4	22-121	L519830-01	WG539568
Phenanthrene	mg/kg	0.0299	0	.033	90.6	27-133	L519830-01	WG539568
Pyrene	mg/kg	0.0283	0.00730	.033	63.6	22-133	L519830-01	WG539568
2-Fluorobiphenyl					71.25	33-114		WG539568
Nitrobenzene-d5					68.19	21-120		WG539568
p-Terphenyl-d14					66.68	18-142		WG539568
TPH (GC/FID) Low Fraction	mg/kg	22.2	0	5.5	80.6	55-109	L519796-01	WG539531
a,a,a-Trifluorotoluene(FID)					104.6	59-128		WG539531
Chromium,Hexavalent	mg/kg	0	0	20	0*	50-150	L520219-01	WG540021

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/kg	0.136	0.147	108.	23-147	7.82	32	L519783-02	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.0938	0.108	75.0	18-150	14.4	33	L519783-02	WG539511
1,1,2-Trichloroethane	mg/kg	0.106	0.120	85.0	35-140	12.3	29	L519783-02	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.158	0.179	126.	10-145	12.7	35	L519783-02	WG539511
1,1-Dichloroethane	mg/kg	0.130	0.142	104.	24-148	8.91	31	L519783-02	WG539511
1,1-Dichloroethene	mg/kg	0.146	0.167	117.	10-149	13.1	34	L519783-02	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0587	0.0695	47.0	10-129	16.9	43	L519783-02	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0681	0.0789	54.4	10-119	14.7	44	L519783-02	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.122	0.136	97.4	19-145	11.2	35	L519783-02	WG539511
1,2-Dibromoethane	mg/kg	0.104	0.119	83.0	24-145	13.2	31	L519783-02	WG539511
1,2-Dichlorobenzene	mg/kg	0.102	0.113	81.9	12-130	9.92	35	L519783-02	WG539511
1,2-Dichloroethane	mg/kg	0.116	0.127	93.1	21-155	8.95	29	L519783-02	WG539511
1,2-Dichloropropane	mg/kg	0.109	0.119	87.5	28-144	8.21	30	L519783-02	WG539511
1,3-Dichlorobenzene	mg/kg	0.0826	0.0957	66.1	10-129	14.8	38	L519783-02	WG539511

* Performance of this Analyte is outside of established criteria.
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EnCana Oil & Gas Inc. - CO
Chris Hines
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

June 16, 2011

L519784

Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
1,4-Dichlorobenzene	mg/kg	0.108	0.118	86.7	10-121	8.50	36	L519783-02	WG539511
2-Butanone (MEK)	mg/kg	0.621	0.697	99.4	21-143	11.5	37	L519783-02	WG539511
2-Hexanone	mg/kg	0.586	0.692	93.7	22-151	16.6	38	L519783-02	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.596	0.688	95.4	31-151	14.2	36	L519783-02	WG539511
Acetone	mg/kg	0.650	0.749	104.	13-158	14.2	34	L519783-02	WG539511
Benzene	mg/kg	0.122	0.135	97.8	16-143	9.69	31	L519783-02	WG539511
Bromochloromethane	mg/kg	0.120	0.131	95.9	25-152	8.57	29	L519783-02	WG539511
Bromodichloromethane	mg/kg	0.109	0.118	87.1	27-139	8.16	30	L519783-02	WG539511
Bromoform	mg/kg	0.0831	0.0966	66.5	21-144	15.0	34	L519783-02	WG539511
Bromomethane	mg/kg	0.130	0.140	104.	0-180	7.38	41	L519783-02	WG539511
Carbon disulfide	mg/kg	0.136	0.153	108.	10-156	11.9	38	L519783-02	WG539511
Carbon tetrachloride	mg/kg	0.134	0.149	107.	12-149	10.6	34	L519783-02	WG539511
Chlorobenzene	mg/kg	0.0986	0.113	78.9	17-134	13.5	34	L519783-02	WG539511
Chlorodibromomethane	mg/kg	0.103	0.118	82.7	28-147	13.6	32	L519783-02	WG539511
Chloroethane	mg/kg	0.126	0.138	101.	0-172	9.42	38	L519783-02	WG539511
Chloroform	mg/kg	0.126	0.138	101.	28-138	9.10	30	L519783-02	WG539511
Chloromethane	mg/kg	0.115	0.126	92.2	10-158	8.68	35	L519783-02	WG539511
cis-1,2-Dichloroethene	mg/kg	0.122	0.133	97.8	21-147	8.68	31	L519783-02	WG539511
cis-1,3-Dichloropropene	mg/kg	0.111	0.122	89.0	17-145	9.01	32	L519783-02	WG539511
Dichlorodifluoromethane	mg/kg	0.117	0.133	93.4	0-192	12.9	38	L519783-02	WG539511
Ethylbenzene	mg/kg	0.103	0.118	82.5	12-137	13.4	36	L519783-02	WG539511
Isopropylbenzene	mg/kg	0.109	0.126	87.4	14-134	14.1	37	L519783-02	WG539511
m&p-Xylene	mg/kg	0.206	0.234	82.2	10-135	13.0	37	L519783-02	WG539511
Methyl tert-butyl ether	mg/kg	0.134	0.146	107.	21-157	8.61	31	L519783-02	WG539511
Methylene Chloride	mg/kg	0.126	0.140	101.	12-149	9.91	31	L519783-02	WG539511
n-Hexane	mg/kg	0.0804	0.0926	64.3	10-129	14.2	42	L519783-02	WG539511
o-Xylene	mg/kg	0.100	0.114	80.0	14-140	12.8	35	L519783-02	WG539511
Styrene	mg/kg	0.0710	0.0819	56.8	10-140	14.3	35	L519783-02	WG539511
Tetrachloroethene	mg/kg	0.103	0.119	82.0	10-131	14.8	35	L519783-02	WG539511
Toluene	mg/kg	0.109	0.122	87.4	12-136	11.0	32	L519783-02	WG539511
trans-1,2-Dichloroethene	mg/kg	0.125	0.140	100.	10-143	11.3	33	L519783-02	WG539511
trans-1,3-Dichloropropene	mg/kg	0.106	0.116	84.7	16-147	9.47	32	L519783-02	WG539511
Trichloroethene	mg/kg	0.116	0.129	93.1	10-155	10.2	33	L519783-02	WG539511
Trichlorofluoromethane	mg/kg	0.141	0.155	113.	10-154	9.62	32	L519783-02	WG539511
Vinyl chloride	mg/kg	0.125	0.140	99.7	10-159	11.9	36	L519783-02	WG539511
Xylenes, Total	mg/kg	0.306	0.348	81.5	10-138	12.9	36	L519783-02	WG539511
4-Bromofluorobenzene				85.48	59-140				WG539511
Dibromofluoromethane				106.0	63-139				WG539511
Toluene-d8				96.95	84-116				WG539511
a,a,a-Trifluorotoluene				95.61	80-118				WG539511
Arsenic	mg/kg	49.6	52.3	91.5	75-125	5.30	20	L519756-07	WG539592
Barium	mg/kg	78.8	85.8	80.8	75-125	8.51	20	L519756-07	WG539592
Cadmium	mg/kg	45.2	47.5	89.8	75-125	4.96	20	L519756-07	WG539592
Chromium	mg/kg	56.0	58.4	92.3	75-125	4.20	20	L519756-07	WG539592
Copper	mg/kg	58.1	59.1	100.	75-125	1.71	20	L519756-07	WG539592
Lead	mg/kg	130.	97.8	165.*	75-125	28.3*	20	L519756-07	WG539592
Nickel	mg/kg	53.2	55.8	93.5	75-125	4.77	20	L519756-07	WG539592
Selenium	mg/kg	52.0	52.9	91.5	75-125	1.72	20	L519756-07	WG539592
Silver	mg/kg	48.5	49.5	97.0	75-125	2.04	20	L519756-07	WG539592
Zinc	mg/kg	79.2	81.5	90.4	75-125	2.86	20	L519756-07	WG539592
Arsenic	mg/kg	45.0	48.8	83.2	75-125	8.10	20	L519761-01	WG539593
Barium	mg/kg	137.	158.	58.0*	75-125	14.2	20	L519761-01	WG539593
Cadmium	mg/kg	43.8	46.4	87.6	75-125	5.76	20	L519761-01	WG539593
Chromium	mg/kg	55.3	60.7	76.6	75-125	9.31	20	L519761-01	WG539593
Copper	mg/kg	59.7	62.3	87.4	75-125	4.26	20	L519761-01	WG539593

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Quality Assurance Report
Level II

June 16, 2011

L519784

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Lead	mg/kg	56.6	62.1	81.2	75-125	9.27	20	L519761-01	WG539593
Nickel	mg/kg	48.5	50.6	73.0*	75-125	4.24	20	L519761-01	WG539593
Selenium	mg/kg	42.6	45.1	85.2	75-125	5.70	20	L519761-01	WG539593
Silver	mg/kg	45.1	45.4	89.9	75-125	0.663	20	L519761-01	WG539593
Zinc	mg/kg	85.4	95.1	74.8*	75-125	10.7	20	L519761-01	WG539593
Mercury	mg/kg	0.240	0.250	89.6	70-130	4.08	20	L519815-01	WG539585
1-Methylnaphthalene	mg/kg	0.0224	0.0214	68.0	19-131	4.76	30	L519830-01	WG539568
2-Chloronaphthalene	mg/kg	0.0232	0.0232	70.4	38-117	0.0723	26	L519830-01	WG539568
2-Methylnaphthalene	mg/kg	0.0233	0.0232	70.5	18-125	0.421	29	L519830-01	WG539568
Acenaphthene	mg/kg	0.0236	0.0249	71.6	31-120	5.35	30	L519830-01	WG539568
Acenaphthylene	mg/kg	0.0249	0.0252	75.5	34-116	1.03	29	L519830-01	WG539568
Anthracene	mg/kg	0.0255	0.0253	77.2	32-131	0.798	26	L519830-01	WG539568
Benzo(a)anthracene	mg/kg	0.0385	0.0332	97.4	32-131	14.9	31	L519830-01	WG539568
Benzo(a)pyrene	mg/kg	0.0323	0.0281	79.0	28-130	13.9	28	L519830-01	WG539568
Benzo(b)fluoranthene	mg/kg	0.0393	0.0354	96.9	37-130	10.5	41	L519830-01	WG539568
Benzo(g,h,i)perylene	mg/kg	0.0189	0.0193	57.2	10-134	2.37	26	L519830-01	WG539568
Benzo(k)fluoranthene	mg/kg	0.0248	0.0257	75.2	31-129	3.38	42	L519830-01	WG539568
Chrysene	mg/kg	0.0261	0.0244	78.9	25-137	6.42	22	L519830-01	WG539568
Dibenz(a,h)anthracene	mg/kg	0.0190	0.0197	57.6	20-134	3.41	25	L519830-01	WG539568
Fluoranthene	mg/kg	0.0415	0.0334	98.3	27-138	21.6	35	L519830-01	WG539568
Fluorene	mg/kg	0.0271	0.0261	82.1	26-136	3.60	30	L519830-01	WG539568
Indeno(1,2,3-cd)pyrene	mg/kg	0.0197	0.0199	59.8	16-135	0.853	26	L519830-01	WG539568
Naphthalene	mg/kg	0.0249	0.0239	75.6	22-121	4.20	30	L519830-01	WG539568
Phenanthrene	mg/kg	0.0332	0.0299	100.	27-133	10.3	36	L519830-01	WG539568
Pyrene	mg/kg	0.0351	0.0283	84.3	22-133	21.5	33	L519830-01	WG539568
2-Fluorobiphenyl				69.60	33-114				WG539568
Nitrobenzene-d5				66.50	21-120				WG539568
p-Terphenyl-d14				64.67	18-142				WG539568
TPH (GC/FID) Low Fraction	mg/kg	15.8	22.2	57.6	55-109	33.3*	20	L519796-01	WG539531
a,a,a-Trifluorotoluene(FID)				102.5	59-128				WG539531
Chromium,Hexavalent	mg/kg	0	0	0*	50-150	0	20	L520219-01	WG540021

Batch number /Run number / Sample number cross reference

WG539516: R1717549: L519784-01 02 03 04 05
WG539511: R1717552: L519784-01 02 03 04 05
WG539561: R1717770: L519784-01 02 03 04 05
WG539592: R1719111: L519784-01 02
WG539593: R1719159: L519784-03 04 05
WG539585: R1719396: L519784-01 02 03 04 05
WG539568: R1719432: L519784-01 02 03 04 05
WG539694: R1719950: L519784-01 02 03 04 05
WG539531: R1720792: L519784-01 02 03 04 05
WG539889: R1720869: L519784-01 02 03 04 05
WG539525: R1721352: L519784-01 02 03 04 05
WG540021: R1724574: L519784-01 02 03 04 05

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L519784

June 16, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Chris Hines
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2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Friday June 17, 2011

Report Number: L519789
Samples Received: 06/08/11
Client Project:

Description: G08

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: Alan Harvill

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-01

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW1-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 09:46

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	9.3		su	9045D	06/11/11	1
Sodium Adsorption Ratio	1.7			Calc.	06/13/11	1
Specific Conductance	440		umhos/cm	9050AMod	06/14/11	1
Mercury	0.023	0.020	mg/kg	7471	06/10/11	1
Arsenic	16.	1.0	mg/kg	6010B	06/10/11	1
Barium	2200	0.25	mg/kg	6010B	06/10/11	1
Cadmium	1.5	0.25	mg/kg	6010B	06/10/11	1
Chromium	25.	0.50	mg/kg	6010B	06/10/11	1
Copper	27.	2.0	mg/kg	6010B	06/10/11	2
Lead	18.	0.50	mg/kg	6010B	06/10/11	2
Nickel	21.	1.0	mg/kg	6010B	06/10/11	1
Selenium	3.4	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	57.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	06/09/11	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	94.1		% Rec.	602/8015	06/09/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519789-01 (PH) - 9.3@21.1C

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-01

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW1-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 09:46

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	BDL	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	92.1		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	108.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	90.6		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	81.5		% Rec.	8260B	06/09/11	5
TPH (GC/FID) High Fraction	3200	80.	mg/kg	3546/DRO	06/12/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	20

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: 06/17/11 10:08 Printed: 06/17/11 12:26
L519789-01 (PH) - 9.3@21.1C

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Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-02

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW2-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 09:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	12.		su	9045D	06/11/11	1
Sodium Adsorption Ratio	1.3			Calc.	06/13/11	1
Specific Conductance	1800		umhos/cm	9050AMod	06/14/11	1
Mercury	0.028	0.020	mg/kg	7471	06/10/11	1
Arsenic	8.6	1.0	mg/kg	6010B	06/10/11	1
Barium	2900	0.25	mg/kg	6010B	06/10/11	1
Cadmium	3.1	0.25	mg/kg	6010B	06/10/11	1
Chromium	23.	0.50	mg/kg	6010B	06/10/11	1
Copper	19.	2.0	mg/kg	6010B	06/10/11	2
Lead	19.	0.50	mg/kg	6010B	06/10/11	2
Nickel	12.	1.0	mg/kg	6010B	06/10/11	1
Selenium	6.8	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	51.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	390	5.0	mg/kg	8015D/GRO	06/10/11	50
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	91.3		% Rec.	602/8015	06/10/11	50
Volatile Organics						
Acetone	BDL	2.5	mg/kg	8260B	06/10/11	50
Benzene	0.088	0.050	mg/kg	8260B	06/10/11	50
Bromochloromethane	BDL	0.050	mg/kg	8260B	06/10/11	50
Bromodichloromethane	BDL	0.050	mg/kg	8260B	06/10/11	50
Bromoform	BDL	0.050	mg/kg	8260B	06/10/11	50
Bromomethane	BDL	0.25	mg/kg	8260B	06/10/11	50
Carbon disulfide	BDL	0.050	mg/kg	8260B	06/10/11	50
Carbon tetrachloride	BDL	0.050	mg/kg	8260B	06/10/11	50
Chlorobenzene	BDL	0.050	mg/kg	8260B	06/10/11	50
Chlorodibromomethane	BDL	0.050	mg/kg	8260B	06/10/11	50
Chloroethane	BDL	0.25	mg/kg	8260B	06/10/11	50
Chloroform	BDL	0.25	mg/kg	8260B	06/10/11	50
Chloromethane	BDL	0.12	mg/kg	8260B	06/10/11	50
Cyclohexane	0.28	0.050	mg/kg	8260B	06/10/11	50
1,2-Dibromo-3-Chloropropane	BDL	0.25	mg/kg	8260B	06/10/11	50
1,2-Dibromoethane	BDL	0.050	mg/kg	8260B	06/10/11	50
Dichlorodifluoromethane	BDL	0.25	mg/kg	8260B	06/10/11	50
1,1-Dichloroethane	BDL	0.050	mg/kg	8260B	06/10/11	50
1,2-Dichloroethane	BDL	0.050	mg/kg	8260B	06/10/11	50
1,2-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/10/11	50

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519789-02 (PH) - 12@20.9C

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Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-02

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW2-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 09:50

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/10/11	50
1,4-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/10/11	50
1,1-Dichloroethene	BDL	0.050	mg/kg	8260B	06/10/11	50
cis-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	06/10/11	50
trans-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	06/10/11	50
1,2-Dichloropropane	BDL	0.050	mg/kg	8260B	06/10/11	50
cis-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	06/10/11	50
trans-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	06/10/11	50
Ethylbenzene	0.74	0.050	mg/kg	8260B	06/10/11	50
n-Hexane	BDL	0.50	mg/kg	8260B	06/10/11	50
2-Hexanone	BDL	0.50	mg/kg	8260B	06/10/11	50
Isopropylbenzene	BDL	0.50	mg/kg	8260B	06/10/11	50
2-Butanone (MEK)	BDL	0.50	mg/kg	8260B	06/10/11	50
Methyl Acetate	BDL	1.0	mg/kg	8260B	06/10/11	50
Methyl Cyclohexane	3.7	0.50	mg/kg	8260B	06/13/11	500
Methylene Chloride	BDL	0.25	mg/kg	8260B	06/10/11	50
4-Methyl-2-pentanone (MIBK)	BDL	0.50	mg/kg	8260B	06/10/11	50
Methyl tert-butyl ether	BDL	0.050	mg/kg	8260B	06/10/11	50
Styrene	BDL	0.050	mg/kg	8260B	06/10/11	50
1,1,2,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	06/10/11	50
Tetrachloroethene	BDL	0.050	mg/kg	8260B	06/10/11	50
Toluene	2.1	0.25	mg/kg	8260B	06/10/11	50
1,2,3-Trichlorobenzene	BDL	0.050	mg/kg	8260B	06/10/11	50
1,2,4-Trichlorobenzene	BDL	0.050	mg/kg	8260B	06/10/11	50
1,1,1-Trichloroethane	BDL	0.050	mg/kg	8260B	06/10/11	50
1,1,2-Trichloroethane	BDL	0.050	mg/kg	8260B	06/10/11	50
Trichloroethene	BDL	0.050	mg/kg	8260B	06/10/11	50
Trichlorofluoromethane	BDL	0.25	mg/kg	8260B	06/10/11	50
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.050	mg/kg	8260B	06/10/11	50
Vinyl chloride	BDL	0.050	mg/kg	8260B	06/10/11	50
o-Xylene	5.6	0.50	mg/kg	8260B	06/13/11	500
m&p-Xylene	30.	1.0	mg/kg	8260B	06/13/11	500
Xylenes, Total	36.	1.5	mg/kg	8260B	06/13/11	500
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	06/10/11	50
Dibromofluoromethane	98.1		% Rec.	8260B	06/10/11	50
a,a,a-Trifluorotoluene	98.4		% Rec.	8260B	06/10/11	50
4-Bromofluorobenzene	121.		% Rec.	8260B	06/10/11	50
TPH (GC/FID) High Fraction	2500	80.	mg/kg	3546/DRO	06/12/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	20

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: 06/17/11 10:08 Printed: 06/17/11 12:26
L519789-02 (PH) - 12@20.9C

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-03

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW3-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 09:52

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	11.		su	9045D	06/11/11	1
Sodium Adsorption Ratio	4.4			Calc.	06/13/11	1
Specific Conductance	800		umhos/cm	9050AMod	06/14/11	1
Mercury	0.033	0.020	mg/kg	7471	06/10/11	1
Arsenic	10.	1.0	mg/kg	6010B	06/10/11	1
Barium	3000	0.25	mg/kg	6010B	06/10/11	1
Cadmium	2.7	0.25	mg/kg	6010B	06/10/11	1
Chromium	20.	0.50	mg/kg	6010B	06/10/11	1
Copper	22.	2.0	mg/kg	6010B	06/10/11	2
Lead	16.	0.50	mg/kg	6010B	06/10/11	2
Nickel	12.	1.0	mg/kg	6010B	06/10/11	1
Selenium	7.0	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	49.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	5.4	0.50	mg/kg	8015D/GRO	06/10/11	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	95.6		% Rec.	602/8015	06/10/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	0.0062	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	0.011	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519789-03 (PH) - 11@20.7C

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-03

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW3-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 09:52

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	0.028	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	0.074	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	0.084	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	0.16	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	0.088	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	0.24	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	97.3		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	99.1		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	95.5		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	93.8		% Rec.	8260B	06/09/11	5
TPH (GC/FID) High Fraction	350	80.	mg/kg	3546/DRO	06/12/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	20

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: 06/17/11 10:08 Printed: 06/17/11 12:26
L519789-03 (PH) - 11@20.7C

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Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-04

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW4-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 09:58

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
pH	9.5		su	9045D	06/11/11	1
Sodium Adsorption Ratio	2.1			Calc.	06/13/11	1
Specific Conductance	850		umhos/cm	9050AMod	06/14/11	1
Mercury	0.041	0.020	mg/kg	7471	06/10/11	1
Arsenic	20.	1.0	mg/kg	6010B	06/10/11	1
Barium	2600	0.25	mg/kg	6010B	06/10/11	1
Cadmium	2.3	0.25	mg/kg	6010B	06/10/11	1
Chromium	22.	0.50	mg/kg	6010B	06/10/11	1
Copper	23.	2.0	mg/kg	6010B	06/10/11	2
Lead	18.	0.50	mg/kg	6010B	06/10/11	2
Nickel	18.	1.0	mg/kg	6010B	06/10/11	1
Selenium	6.3	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	56.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	0.82	0.50	mg/kg	8015D/GRO	06/10/11	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	89.2		% Rec.	602/8015	06/10/11	5
Volatile Organics						
Acetone	BDL	0.25	mg/kg	8260B	06/09/11	5
Benzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromochloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromodichloromethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromoform	BDL	0.0050	mg/kg	8260B	06/09/11	5
Bromomethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Carbon disulfide	BDL	0.0050	mg/kg	8260B	06/09/11	5
Carbon tetrachloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chlorodibromomethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Chloroethane	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloroform	BDL	0.025	mg/kg	8260B	06/09/11	5
Chloromethane	BDL	0.012	mg/kg	8260B	06/09/11	5
Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dibromo-3-Chloropropane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2-Dibromoethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Dichlorodifluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519789-04 (SV8270PAHSIM) - Dilution due to matrix
L519789-04 (PH) - 9.5@20.8C

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Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-04

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW4-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 09:58

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,3-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,4-Dichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,2-Dichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2-Dichloropropane	BDL	0.0050	mg/kg	8260B	06/09/11	5
cis-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
trans-1,3-Dichloropropene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Ethylbenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
n-Hexane	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Hexanone	BDL	0.050	mg/kg	8260B	06/09/11	5
Isopropylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	5
2-Butanone (MEK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl Acetate	BDL	0.10	mg/kg	8260B	06/09/11	5
Methyl Cyclohexane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Methylene Chloride	BDL	0.025	mg/kg	8260B	06/09/11	5
4-Methyl-2-pentanone (MIBK)	BDL	0.050	mg/kg	8260B	06/09/11	5
Methyl tert-butyl ether	BDL	0.0050	mg/kg	8260B	06/09/11	5
Styrene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2,2-Tetrachloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Tetrachloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Toluene	BDL	0.025	mg/kg	8260B	06/09/11	5
1,2,3-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,2,4-Trichlorobenzene	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,1-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
1,1,2-Trichloroethane	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichloroethene	BDL	0.0050	mg/kg	8260B	06/09/11	5
Trichlorofluoromethane	BDL	0.025	mg/kg	8260B	06/09/11	5
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.0050	mg/kg	8260B	06/09/11	5
Vinyl chloride	BDL	0.0050	mg/kg	8260B	06/09/11	5
o-Xylene	0.0058	0.0050	mg/kg	8260B	06/09/11	5
m&p-Xylene	BDL	0.010	mg/kg	8260B	06/09/11	5
Xylenes, Total	BDL	0.015	mg/kg	8260B	06/09/11	5
Surrogate Recovery						
Toluene-d8	95.6		% Rec.	8260B	06/09/11	5
Dibromofluoromethane	105.		% Rec.	8260B	06/09/11	5
a,a,a-Trifluorotoluene	93.9		% Rec.	8260B	06/09/11	5
4-Bromofluorobenzene	96.4		% Rec.	8260B	06/09/11	5
TPH (GC/FID) High Fraction	950	80.	mg/kg	3546/DRO	06/12/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	20

Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519789-04 (SV8270PAHSIM) - Dilution due to matrix
L519789-04 (PH) - 9.5@20.8C

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12065 Lebanon Rd.
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(615) 758-5858
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-04

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW4-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 09:58

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Anthracene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Acenaphthene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Acenaphthylene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Benzo(a)anthracene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Benzo(a)pyrene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Benzo(b)fluoranthene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Benzo(g,h,i)perylene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Benzo(k)fluoranthene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Chrysene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Dibenz(a,h)anthracene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Fluoranthene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Fluorene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Indeno(1,2,3-cd)pyrene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Naphthalene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Phenanthrene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Pyrene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
1-Methylnaphthalene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
2-Methylnaphthalene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
2-Chloronaphthalene	BDL	0.60	mg/kg	8270C-SIM	06/13/11	10
Surrogate Recovery						
Nitrobenzene-d5	194.		% Rec.	8270C-SIM	06/13/11	10
2-Fluorobiphenyl	137.		% Rec.	8270C-SIM	06/13/11	10
p-Terphenyl-d14	118.		% Rec.	8270C-SIM	06/13/11	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: 06/17/11 10:08 Printed: 06/17/11 12:26
L519789-04 (SV8270PAHSIM) - Dilution due to matrix
L519789-04 (PH) - 9.5@20.8C

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Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-05

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW5-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:02

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	06/15/11	1
Chromium,Trivalent	22.	2.0	mg/kg	Calc.	06/10/11	1
ORP	78.		mV	2580	06/15/11	1
pH	8.7		su	9045D	06/11/11	1
Sodium Adsorption Ratio	11.			Calc.	06/13/11	1
Specific Conductance	430		umhos/cm	9050AMod	06/14/11	1
Mercury	0.053	0.020	mg/kg	7471	06/10/11	1
Arsenic	29.	1.0	mg/kg	6010B	06/10/11	1
Barium	980	0.25	mg/kg	6010B	06/10/11	1
Cadmium	0.34	0.25	mg/kg	6010B	06/10/11	1
Chromium	22.	0.50	mg/kg	6010B	06/10/11	1
Copper	28.	2.0	mg/kg	6010B	06/10/11	2
Lead	16.	0.50	mg/kg	6010B	06/10/11	2
Nickel	18.	1.0	mg/kg	6010B	06/10/11	1
Selenium	3.4	1.0	mg/kg	6010B	06/10/11	1
Silver	BDL	0.50	mg/kg	6010B	06/10/11	1
Zinc	54.	1.5	mg/kg	6010B	06/10/11	1
TPH (GC/FID) Low Fraction	99.	5.0	mg/kg	8015D/GRO	06/10/11	50
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	91.9		% Rec.	602/8015	06/10/11	50
Volatile Organics						
Acetone	BDL	2.5	mg/kg	8260B	06/09/11	50
Benzene	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromochloromethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromodichloromethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromoform	BDL	0.050	mg/kg	8260B	06/09/11	50
Bromomethane	BDL	0.25	mg/kg	8260B	06/09/11	50
Carbon disulfide	BDL	0.050	mg/kg	8260B	06/09/11	50
Carbon tetrachloride	BDL	0.050	mg/kg	8260B	06/09/11	50
Chlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
Chlorodibromomethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Chloroethane	BDL	0.25	mg/kg	8260B	06/09/11	50
Chloroform	BDL	0.25	mg/kg	8260B	06/09/11	50
Chloromethane	BDL	0.12	mg/kg	8260B	06/09/11	50
Cyclohexane	BDL	0.050	mg/kg	8260B	06/09/11	50

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519789-05 (PH) - 8.7@20.9C

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REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-05

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW5-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:02

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
1,2-Dibromo-3-Chloropropane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,2-Dibromoethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Dichlorodifluoromethane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,1-Dichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,3-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,4-Dichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
cis-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
trans-1,2-Dichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2-Dichloropropane	BDL	0.050	mg/kg	8260B	06/09/11	50
cis-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	06/09/11	50
trans-1,3-Dichloropropene	BDL	0.050	mg/kg	8260B	06/09/11	50
Ethylbenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
n-Hexane	BDL	0.50	mg/kg	8260B	06/09/11	50
2-Hexanone	BDL	0.50	mg/kg	8260B	06/09/11	50
Isopropylbenzene	BDL	0.50	mg/kg	8260B	06/09/11	50
2-Butanone (MEK)	BDL	0.50	mg/kg	8260B	06/09/11	50
Methyl Acetate	BDL	1.0	mg/kg	8260B	06/09/11	50
Methyl Cyclohexane	0.30	0.050	mg/kg	8260B	06/09/11	50
Methylene Chloride	BDL	0.25	mg/kg	8260B	06/09/11	50
4-Methyl-2-pentanone (MIBK)	BDL	0.50	mg/kg	8260B	06/09/11	50
Methyl tert-butyl ether	BDL	0.050	mg/kg	8260B	06/09/11	50
Styrene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,2,2-Tetrachloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Tetrachloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
Toluene	BDL	0.25	mg/kg	8260B	06/09/11	50
1,2,3-Trichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,2,4-Trichlorobenzene	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,1-Trichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
1,1,2-Trichloroethane	BDL	0.050	mg/kg	8260B	06/09/11	50
Trichloroethene	BDL	0.050	mg/kg	8260B	06/09/11	50
Trichlorofluoromethane	BDL	0.25	mg/kg	8260B	06/09/11	50
1,1,2-Trichloro-1,2,2-trifluoro	BDL	0.050	mg/kg	8260B	06/09/11	50
Vinyl chloride	BDL	0.050	mg/kg	8260B	06/09/11	50
o-Xylene	0.061	0.050	mg/kg	8260B	06/09/11	50
m&p-Xylene	0.26	0.10	mg/kg	8260B	06/09/11	50
Xylenes, Total	0.32	0.15	mg/kg	8260B	06/09/11	50
Surrogate Recovery						
Toluene-d8	99.0		% Rec.	8260B	06/09/11	50
Dibromofluoromethane	99.9		% Rec.	8260B	06/09/11	50
a,a,a-Trifluorotoluene	99.2		% Rec.	8260B	06/09/11	50
4-Bromofluorobenzene	116.		% Rec.	8260B	06/09/11	50

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L519789-05 (PH) - 8.7@20.9C

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Est. 1970

REPORT OF ANALYSIS

Chris Hines
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

June 17, 2011

ESC Sample # : L519789-05

Date Received : June 08, 2011
Description : G08

Site ID : G08

Sample ID : G08-PITW5-060711

Project # :

Collected By : Brannen Graff
Collection Date : 06/07/11 10:02

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) High Fraction	1500	80.	mg/kg	3546/DRO	06/12/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	06/12/11	20
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Acenaphthene	0.082	0.0060	mg/kg	8270C-SIM	06/13/11	1
Acenaphthylene	0.061	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(a)anthracene	0.013	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(g,h,i)perylene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Fluorene	0.14	0.0060	mg/kg	8270C-SIM	06/13/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	06/13/11	1
Naphthalene	0.36	0.12	mg/kg	8270C-SIM	06/14/11	20
Phenanthrene	0.11	0.0060	mg/kg	8270C-SIM	06/13/11	1
Pyrene	0.011	0.0060	mg/kg	8270C-SIM	06/13/11	1
1-Methylnaphthalene	0.26	0.12	mg/kg	8270C-SIM	06/14/11	20
2-Methylnaphthalene	0.80	0.12	mg/kg	8270C-SIM	06/14/11	20
2-Chloronaphthalene	BDL	0.12	mg/kg	8270C-SIM	06/14/11	20
Surrogate Recovery						
Nitrobenzene-d5	0.00		% Rec.	8270C-SIM	06/14/11	20
2-Fluorobiphenyl	107.		% Rec.	8270C-SIM	06/13/11	1
p-Terphenyl-d14	117.		% Rec.	8270C-SIM	06/13/11	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 06/17/11 10:08 Printed: 06/17/11 12:26
L519789-05 (PH) - 8.7@20.9C

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L519789-01	WG539511	SAMP	Styrene	R1717552	J4
	WG539694	SAMP	o-Terphenyl	R1719950	J7
L519789-02	WG539676	SAMP	Styrene	R1721449	J4
	WG539694	SAMP	o-Terphenyl	R1719950	J7
L519789-03	WG539511	SAMP	Styrene	R1717552	J4
	WG539845	SAMP	o-Terphenyl	R1719951	J7
L519789-04	WG540034	SAMP	Anthracene	R1721270	O
	WG540034	SAMP	Acenaphthene	R1721270	O
	WG540034	SAMP	Acenaphthylene	R1721270	O
	WG540034	SAMP	Benzo(a)anthracene	R1721270	O
	WG540034	SAMP	Benzo(a)pyrene	R1721270	J3O
	WG540034	SAMP	Benzo(b)fluoranthene	R1721270	O
	WG540034	SAMP	Benzo(g,h,i)perylene	R1721270	O
	WG540034	SAMP	Benzo(k)fluoranthene	R1721270	O
	WG540034	SAMP	Chrysene	R1721270	O
	WG540034	SAMP	Dibenz(a,h)anthracene	R1721270	O
	WG540034	SAMP	Fluoranthene	R1721270	O
	WG540034	SAMP	Fluorene	R1721270	O
	WG540034	SAMP	Indeno(1,2,3-cd)pyrene	R1721270	O
	WG540034	SAMP	Naphthalene	R1721270	O
	WG540034	SAMP	Phenanthrene	R1721270	O
	WG540034	SAMP	Pyrene	R1721270	O
	WG540034	SAMP	1-Methylnaphthalene	R1721270	O
	WG540034	SAMP	2-Methylnaphthalene	R1721270	O
	WG540034	SAMP	2-Chloronaphthalene	R1721270	O
	WG540034	SAMP	Nitrobenzene-d5	R1721270	J1
	WG540034	SAMP	2-Fluorobiphenyl	R1721270	J1
	WG539511	SAMP	Styrene	R1717552	J4
	WG539845	SAMP	o-Terphenyl	R1719951	J7
L519789-05	WG540034	SAMP	Benzo(a)pyrene	R1721270	J3
	WG540034	SAMP	Nitrobenzene-d5	R1721270	J7
	WG539511	SAMP	Styrene	R1717552	J4
	WG539845	SAMP	o-Terphenyl	R1719951	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary 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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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
06/17/11 at 12:26:15

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L519789-01 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/17/11 10:08
Deleted CR6SS , CR3, and SV8270PAHSIM per AH .AV 6/16
Sample: L519789-02 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/17/11 10:08
Deleted CR6SS , CR3, and SV8270PAHSIM per AH .AV 6/16
Sample: L519789-03 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/17/11 10:08
Deleted CR6SS , CR3, and SV8270PAHSIM per AH .AV 6/16
Sample: L519789-04 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/17/11 10:08
Deleted CR6SS , CR3, per AH .AV 6/16
Sample: L519789-05 Account: ENCANACO Received: 06/08/11 09:00 Due Date: 06/15/11 00:00 RPT Date: 06/17/11 10:08

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Chris Hines
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L519789

June 17, 2011

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1-Trichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2-Trichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1-Dichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,1-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2,3-Trichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2,4-Trichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG539511	06/09/11 02:44
1,2-Dibromoethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichloroethane	< .001	mg/kg			WG539511	06/09/11 02:44
1,2-Dichloropropane	< .001	mg/kg			WG539511	06/09/11 02:44
1,3-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
1,4-Dichlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
2-Butanone (MEK)	< .01	mg/kg			WG539511	06/09/11 02:44
2-Hexanone	< .01	mg/kg			WG539511	06/09/11 02:44
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG539511	06/09/11 02:44
Acetone	< .05	mg/kg			WG539511	06/09/11 02:44
Benzene	< .001	mg/kg			WG539511	06/09/11 02:44
Bromochloromethane	< .001	mg/kg			WG539511	06/09/11 02:44
Bromodichloromethane	< .001	mg/kg			WG539511	06/09/11 02:44
Bromoform	< .001	mg/kg			WG539511	06/09/11 02:44
Bromomethane	< .005	mg/kg			WG539511	06/09/11 02:44
Carbon disulfide	< .001	mg/kg			WG539511	06/09/11 02:44
Carbon tetrachloride	< .001	mg/kg			WG539511	06/09/11 02:44
Chlorobenzene	< .001	mg/kg			WG539511	06/09/11 02:44
Chlorodibromomethane	< .001	mg/kg			WG539511	06/09/11 02:44
Chloroethane	< .005	mg/kg			WG539511	06/09/11 02:44
Chloroform	< .005	mg/kg			WG539511	06/09/11 02:44
Chloromethane	< .0025	mg/kg			WG539511	06/09/11 02:44
cis-1,2-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
cis-1,3-Dichloropropene	< .001	mg/kg			WG539511	06/09/11 02:44
Cyclohexane	< .001	mg/kg			WG539511	06/09/11 02:44
Dichlorodifluoromethane	< .005	mg/kg			WG539511	06/09/11 02:44
Ethylbenzene	< .001	mg/kg			WG539511	06/09/11 02:44
Isopropylbenzene	< .001	mg/kg			WG539511	06/09/11 02:44
m&p-Xylene	< .002	mg/kg			WG539511	06/09/11 02:44
Methyl Acetate	< .02	mg/kg			WG539511	06/09/11 02:44
Methyl Cyclohexane	< .001	mg/kg			WG539511	06/09/11 02:44
Methyl tert-butyl ether	< .001	mg/kg			WG539511	06/09/11 02:44
Methylene Chloride	< .005	mg/kg			WG539511	06/09/11 02:44
n-Hexane	< .01	mg/kg			WG539511	06/09/11 02:44
o-Xylene	< .001	mg/kg			WG539511	06/09/11 02:44
Styrene	< .001	mg/kg			WG539511	06/09/11 02:44
Tetrachloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
Toluene	< .005	mg/kg			WG539511	06/09/11 02:44
trans-1,2-Dichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
trans-1,3-Dichloropropene	< .001	mg/kg			WG539511	06/09/11 02:44
Trichloroethene	< .001	mg/kg			WG539511	06/09/11 02:44
Trichlorofluoromethane	< .005	mg/kg			WG539511	06/09/11 02:44
Vinyl chloride	< .001	mg/kg			WG539511	06/09/11 02:44
Xylenes, Total	< .003	mg/kg			WG539511	06/09/11 02:44
4-Bromofluorobenzene		% Rec.	100.1	59-140	WG539511	06/09/11 02:44
Dibromofluoromethane		% Rec.	100.7	63-139	WG539511	06/09/11 02:44
Toluene-d8		% Rec.	99.02	84-116	WG539511	06/09/11 02:44
a,a,a-Trifluorotoluene		% Rec.	100.1	80-118	WG539511	06/09/11 02:44

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Level II

L519789

June 17, 2011

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG539698	06/09/11 16:43
a,a,a-Trifluorotoluene(FID)		% Rec.	95.12	59-128	WG539698	06/09/11 16:43
Arsenic	< 1	mg/kg			WG539593	06/10/11 11:07
Barium	< .25	mg/kg			WG539593	06/10/11 11:07
Cadmium	< .25	mg/kg			WG539593	06/10/11 11:07
Chromium	< .5	mg/kg			WG539593	06/10/11 11:07
Copper	< 1	mg/kg			WG539593	06/10/11 11:07
Lead	< .25	mg/kg			WG539593	06/10/11 11:07
Nickel	< 1	mg/kg			WG539593	06/10/11 11:07
Selenium	< 1	mg/kg			WG539593	06/10/11 11:07
Zinc	< 1.5	mg/kg			WG539593	06/10/11 11:07
Silver	< .5	mg/kg			WG539593	06/10/11 13:26
Mercury	< .02	mg/kg			WG539585	06/10/11 03:57
TPH (GC/FID) High Fraction	< 4	ppm			WG539694	06/11/11 10:54
o-Terphenyl		% Rec.	71.47	50-150	WG539694	06/11/11 10:54
TPH (GC/FID) High Fraction	< 4	ppm			WG539845	06/11/11 10:21
o-Terphenyl		% Rec.	60.50	50-150	WG539845	06/11/11 10:21
pH	4.00	su			WG539889	06/11/11 14:14
1-Methylnaphthalene	< .006	mg/kg			WG540034	06/13/11 10:24
2-Chloronaphthalene	< .006	mg/kg			WG540034	06/13/11 10:24
2-Methylnaphthalene	< .006	mg/kg			WG540034	06/13/11 10:24
Acenaphthene	< .006	mg/kg			WG540034	06/13/11 10:24
Acenaphthylene	< .006	mg/kg			WG540034	06/13/11 10:24
Anthracene	< .006	mg/kg			WG540034	06/13/11 10:24
Benzo(a)anthracene	< .006	mg/kg			WG540034	06/13/11 10:24
Benzo(a)pyrene	< .006	mg/kg			WG540034	06/13/11 10:24
Benzo(b)fluoranthene	< .006	mg/kg			WG540034	06/13/11 10:24
Benzo(g,h,i)perylene	< .006	mg/kg			WG540034	06/13/11 10:24
Benzo(k)fluoranthene	< .006	mg/kg			WG540034	06/13/11 10:24
Chrysene	< .006	mg/kg			WG540034	06/13/11 10:24
Dibenz(a,h)anthracene	< .006	mg/kg			WG540034	06/13/11 10:24
Fluoranthene	< .006	mg/kg			WG540034	06/13/11 10:24
Fluorene	< .006	mg/kg			WG540034	06/13/11 10:24
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG540034	06/13/11 10:24
Naphthalene	< .006	mg/kg			WG540034	06/13/11 10:24
Phenanthrene	< .006	mg/kg			WG540034	06/13/11 10:24
Pyrene	< .006	mg/kg			WG540034	06/13/11 10:24
2-Fluorobiphenyl		% Rec.	76.20	21-120	WG540034	06/13/11 10:24
Nitrobenzene-d5		% Rec.	66.85	33-114	WG540034	06/13/11 10:24
p-Terphenyl-d14		% Rec.	82.57	18-142	WG540034	06/13/11 10:24
1,1,1-Trichloroethane	< .001	mg/kg			WG539676	06/10/11 00:20
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG539676	06/10/11 00:20
1,1,2-Trichloroethane	< .001	mg/kg			WG539676	06/10/11 00:20
1,1,2-Trichloro-1,2,2-trifluoroethane	< .001	mg/kg			WG539676	06/10/11 00:20
1,1-Dichloroethane	< .001	mg/kg			WG539676	06/10/11 00:20

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Level II

L519789

June 17, 2011

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1-Dichloroethene	< .001	mg/kg			WG539676	06/10/11 00:20
1,2,3-Trichlorobenzene	< .001	mg/kg			WG539676	06/10/11 00:20
1,2,4-Trichlorobenzene	< .001	mg/kg			WG539676	06/10/11 00:20
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG539676	06/10/11 00:20
1,2-Dibromoethane	< .001	mg/kg			WG539676	06/10/11 00:20
1,2-Dichlorobenzene	< .001	mg/kg			WG539676	06/10/11 00:20
1,2-Dichloroethane	< .001	mg/kg			WG539676	06/10/11 00:20
1,2-Dichloropropane	< .001	mg/kg			WG539676	06/10/11 00:20
1,3-Dichlorobenzene	< .001	mg/kg			WG539676	06/10/11 00:20
1,4-Dichlorobenzene	< .001	mg/kg			WG539676	06/10/11 00:20
2-Butanone (MEK)	< .01	mg/kg			WG539676	06/10/11 00:20
2-Hexanone	< .01	mg/kg			WG539676	06/10/11 00:20
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG539676	06/10/11 00:20
Acetone	< .05	mg/kg			WG539676	06/10/11 00:20
Benzene	< .001	mg/kg			WG539676	06/10/11 00:20
Bromochloromethane	< .001	mg/kg			WG539676	06/10/11 00:20
Bromodichloromethane	< .001	mg/kg			WG539676	06/10/11 00:20
Bromoform	< .001	mg/kg			WG539676	06/10/11 00:20
Bromomethane	< .005	mg/kg			WG539676	06/10/11 00:20
Carbon disulfide	< .001	mg/kg			WG539676	06/10/11 00:20
Carbon tetrachloride	< .001	mg/kg			WG539676	06/10/11 00:20
Chlorobenzene	< .001	mg/kg			WG539676	06/10/11 00:20
Chlorodibromomethane	< .001	mg/kg			WG539676	06/10/11 00:20
Chloroethane	< .005	mg/kg			WG539676	06/10/11 00:20
Chloroform	< .005	mg/kg			WG539676	06/10/11 00:20
Chloromethane	< .0025	mg/kg			WG539676	06/10/11 00:20
cis-1,2-Dichloroethene	< .001	mg/kg			WG539676	06/10/11 00:20
cis-1,3-Dichloropropene	< .001	mg/kg			WG539676	06/10/11 00:20
Cyclohexane	< .001	mg/kg			WG539676	06/10/11 00:20
Dichlorodifluoromethane	< .005	mg/kg			WG539676	06/10/11 00:20
Ethylbenzene	< .001	mg/kg			WG539676	06/10/11 00:20
Isopropylbenzene	< .001	mg/kg			WG539676	06/10/11 00:20
Methyl Acetate	< .02	mg/kg			WG539676	06/10/11 00:20
Methyl tert-butyl ether	< .001	mg/kg			WG539676	06/10/11 00:20
Methylene Chloride	< .005	mg/kg			WG539676	06/10/11 00:20
n-Hexane	< .01	mg/kg			WG539676	06/10/11 00:20
Styrene	< .001	mg/kg			WG539676	06/10/11 00:20
Tetrachloroethene	< .001	mg/kg			WG539676	06/10/11 00:20
Toluene	< .005	mg/kg			WG539676	06/10/11 00:20
trans-1,2-Dichloroethene	< .001	mg/kg			WG539676	06/10/11 00:20
trans-1,3-Dichloropropene	< .001	mg/kg			WG539676	06/10/11 00:20
Trichloroethene	< .001	mg/kg			WG539676	06/10/11 00:20
Trichlorofluoromethane	< .005	mg/kg			WG539676	06/10/11 00:20
Vinyl chloride	< .001	mg/kg			WG539676	06/10/11 00:20
4-Bromofluorobenzene		% Rec.	102.2	59-140	WG539676	06/10/11 00:20
Dibromofluoromethane		% Rec.	102.5	63-139	WG539676	06/10/11 00:20
Toluene-d8		% Rec.	101.6	84-116	WG539676	06/10/11 00:20
a,a,a-Trifluorotoluene		% Rec.	102.9	80-118	WG539676	06/10/11 00:20
m&p-Xylene	< .002	mg/kg			WG540243	06/13/11 16:44
Methyl Cyclohexane	< .001	mg/kg			WG540243	06/13/11 16:44
o-Xylene	< .001	mg/kg			WG540243	06/13/11 16:44
Xylenes, Total	< .003	mg/kg			WG540243	06/13/11 16:44
4-Bromofluorobenzene		% Rec.	97.83	59-140	WG540243	06/13/11 16:44
Dibromofluoromethane		% Rec.	117.6	63-139	WG540243	06/13/11 16:44
Toluene-d8		% Rec.	103.1	84-116	WG540243	06/13/11 16:44
a,a,a-Trifluorotoluene		% Rec.	99.97	80-118	WG540243	06/13/11 16:44

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June 17, 2011

L519789

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Specific Conductance	0.860	umhos/cm			WG540012	06/14/11 15:04
Chromium,Hexavalent	< 2	mg/kg			WG540021	06/15/11 15:00

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Arsenic	mg/kg	3.40	3.40	0.590	20	L519761-01	WG539593
Barium	mg/kg	110.	108.	1.87	20	L519761-01	WG539593
Cadmium	mg/kg	0	0	0	20	L519761-01	WG539593
Chromium	mg/kg	15.0	17.0	12.5	20	L519761-01	WG539593
Copper	mg/kg	16.0	16.0	2.53	20	L519761-01	WG539593
Lead	mg/kg	13.0	16.0	19.2	20	L519761-01	WG539593
Nickel	mg/kg	14.0	12.0	17.5	20	L519761-01	WG539593
Selenium	mg/kg	1.10	0	NA	20	L519761-01	WG539593
Silver	mg/kg	0	0.129	NA	20	L519761-01	WG539593
Zinc	mg/kg	49.0	48.0	1.65	20	L519761-01	WG539593
Mercury	mg/kg	0.0170	0.0160	6.06	20	L519815-01	WG539585
pH	su	8.40	8.40	0	1	L519784-01	WG539889
pH	su	6.00	6.00	0	1	L520058-04	WG539889
Specific Conductance	umhos/cm	570.	540.	5.93	20	L519788-03	WG540012
Specific Conductance	umhos/cm	4.30	4.30	0.232	20	L520080-03	WG540012
ORP	mV	82.0	73.0	11.6	20	L519772-01	WG540230
ORP	mV	96.0	92.0	4.26	20	L520373-08	WG540230
Chromium,Hexavalent	mg/kg	0	0	0	20	L519784-01	WG540021
Chromium,Hexavalent	mg/kg	0	0	0	20	L520405-01	WG540021

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1-Trichloroethane	mg/kg	.025	0.0279	112.	62-135	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0246	98.6	74-129	WG539511
1,1,2-Trichloroethane	mg/kg	.025	0.0252	101.	77-124	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.025	0.0337	135.	49-155	WG539511
1,1-Dichloroethane	mg/kg	.025	0.0287	115.	61-134	WG539511
1,1-Dichloroethene	mg/kg	.025	0.0322	129.	53-136	WG539511
1,2,3-Trichlorobenzene	mg/kg	.025	0.0255	102.	62-146	WG539511
1,2,4-Trichlorobenzene	mg/kg	.025	0.0264	106.	61-148	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0272	109.	61-134	WG539511
1,2-Dibromoethane	mg/kg	.025	0.0258	103.	76-127	WG539511
1,2-Dichlorobenzene	mg/kg	.025	0.0256	102.	77-123	WG539511
1,2-Dichloroethane	mg/kg	.025	0.0270	108.	58-141	WG539511
1,2-Dichloropropane	mg/kg	.025	0.0259	103.	71-128	WG539511
1,3-Dichlorobenzene	mg/kg	.025	0.0248	99.1	71-132	WG539511
1,4-Dichlorobenzene	mg/kg	.025	0.0259	104.	72-123	WG539511
2-Butanone (MEK)	mg/kg	.125	0.141	113.	51-131	WG539511
2-Hexanone	mg/kg	.125	0.137	110.	62-145	WG539511

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Level II

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.143	114.	61-143	WG539511
Acetone	mg/kg	.125	0.146	117.	44-140	WG539511
Benzene	mg/kg	.025	0.0278	111.	65-128	WG539511
Bromochloromethane	mg/kg	.025	0.0284	114.	73-130	WG539511
Bromodichloromethane	mg/kg	.025	0.0257	103.	66-126	WG539511
Bromoform	mg/kg	.025	0.0217	86.6	64-139	WG539511
Bromomethane	mg/kg	.025	0.0292	117.	41-175	WG539511
Carbon disulfide	mg/kg	.025	0.0341	136.	36-161	WG539511
Carbon tetrachloride	mg/kg	.025	0.0289	116.	60-140	WG539511
Chlorobenzene	mg/kg	.025	0.0247	99.0	75-125	WG539511
Chlorodibromomethane	mg/kg	.025	0.0257	103.	72-137	WG539511
Chloroethane	mg/kg	.025	0.0269	108.	44-159	WG539511
Chloroform	mg/kg	.025	0.0280	112.	63-123	WG539511
Chloromethane	mg/kg	.025	0.0261	104.	42-149	WG539511
cis-1,2-Dichloroethene	mg/kg	.025	0.0278	111.	71-129	WG539511
cis-1,3-Dichloropropene	mg/kg	.025	0.0268	107.	73-132	WG539511
Dichlorodifluoromethane	mg/kg	.025	0.0286	115.	26-186	WG539511
Ethylbenzene	mg/kg	.025	0.0249	99.8	74-128	WG539511
Isopropylbenzene	mg/kg	.025	0.0276	110.	73-130	WG539511
m&p-Xylene	mg/kg	.05	0.0504	101.	73-127	WG539511
Methyl tert-butyl ether	mg/kg	.025	0.0303	121.	44-148	WG539511
Methylene Chloride	mg/kg	.025	0.0293	117.	57-129	WG539511
n-Hexane	mg/kg	.025	0.0256	103.	28-169	WG539511
o-Xylene	mg/kg	.025	0.0250	99.8	75-129	WG539511
Styrene	mg/kg	.025	0.0190	75.9*	76-133	WG539511
Tetrachloroethene	mg/kg	.025	0.0248	99.3	65-135	WG539511
Toluene	mg/kg	.025	0.0254	102.	70-120	WG539511
trans-1,2-Dichloroethene	mg/kg	.025	0.0289	116.	61-133	WG539511
trans-1,3-Dichloropropene	mg/kg	.025	0.0262	105.	70-135	WG539511
Trichloroethene	mg/kg	.025	0.0260	104.	71-126	WG539511
Trichlorofluoromethane	mg/kg	.025	0.0285	114.	52-147	WG539511
Vinyl chloride	mg/kg	.025	0.0273	109.	50-151	WG539511
Xylenes, Total	mg/kg	.075	0.0753	100.	74-127	WG539511
4-Bromofluorobenzene				92.91	59-140	WG539511
Dibromofluoromethane				109.8	63-139	WG539511
Toluene-d8				98.29	84-116	WG539511
a,a,a-Trifluorotoluene				100.1	80-118	WG539511
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.97	127.	67-135	WG539698
a,a,a-Trifluorotoluene(FID)				99.44	59-128	WG539698
Arsenic	mg/kg	192	164.	85.4	78.6-120.8	WG539593
Barium	mg/kg	420	382.	91.0	78.8-121.4	WG539593
Cadmium	mg/kg	70.1	60.8	86.7	78.5-121.5	WG539593
Chromium	mg/kg	168	155.	92.3	80.4-120.2	WG539593
Copper	mg/kg	122	115.	94.3	81.6-119.7	WG539593
Lead	mg/kg	113	98.2	86.9	77.3-122.1	WG539593
Nickel	mg/kg	74.1	63.6	85.8	78.8-121.2	WG539593
Selenium	mg/kg	176	158.	89.8	75.6-125.0	WG539593
Silver	mg/kg	115	106.	92.2	66-133.9	WG539593
Zinc	mg/kg	437	384.	87.9	78.5-121.7	WG539593
Mercury	mg/kg	8.77	8.60	98.1	71.6-127.7	WG539585
TPH (GC/FID) High Fraction	ppm	60	50.7	84.5	50-150	WG539694

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Est. 1970

EnCana Oil & Gas Inc. - CO
Chris Hines
2717 County Road 215, Suite 100
Parachute, CO 81635

Quality Assurance Report
Level II

L519789

June 17, 2011

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
o-Terphenyl				69.54	50-150	
TPH (GC/FID) High Fraction	ppm	60	45.4	75.6	50-150	WG539845
o-Terphenyl				64.40	50-150	WG539845
pH	su	6.3	6.30	100.	97.98-102.02	WG539889
1-Methylnaphthalene	mg/kg	.033	0.0212	64.3	41-110	WG540034
2-Chloronaphthalene	mg/kg	.033	0.0229	69.3	43-109	WG540034
2-Methylnaphthalene	mg/kg	.033	0.0218	66.2	38-104	WG540034
Acenaphthene	mg/kg	.033	0.0236	71.5	48-103	WG540034
Acenaphthylene	mg/kg	.033	0.0233	70.5	43-106	WG540034
Anthracene	mg/kg	.033	0.0261	79.2	51-110	WG540034
Benzo(a)anthracene	mg/kg	.033	0.0243	73.7	38-126	WG540034
Benzo(a)pyrene	mg/kg	.033	0.0245	74.4	47-118	WG540034
Benzo(b)fluoranthene	mg/kg	.033	0.0243	73.5	47-118	WG540034
Benzo(g,h,i)perylene	mg/kg	.033	0.0264	80.0	40-125	WG540034
Benzo(k)fluoranthene	mg/kg	.033	0.0264	80.1	45-121	WG540034
Chrysene	mg/kg	.033	0.0247	74.9	35-135	WG540034
Dibenz(a,h)anthracene	mg/kg	.033	0.0252	76.3	41-124	WG540034
Fluoranthene	mg/kg	.033	0.0272	82.5	50-114	WG540034
Fluorene	mg/kg	.033	0.0251	76.0	49-109	WG540034
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0257	77.8	40-126	WG540034
Naphthalene	mg/kg	.033	0.0217	65.6	36-100	WG540034
Phenanthrene	mg/kg	.033	0.0246	74.5	46-108	WG540034
Pyrene	mg/kg	.033	0.0270	81.9	30-136	WG540034
2-Fluorobiphenyl				68.29	33-114	WG540034
Nitrobenzene-d5				66.60	21-120	WG540034
p-Terphenyl-d14				76.71	18-142	WG540034
1,1,1-Trichloroethane	mg/kg	.025	0.0281	113.	62-135	WG539676
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0254	102.	74-129	WG539676
1,1,2-Trichloroethane	mg/kg	.025	0.0255	102.	77-124	WG539676
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	.025	0.0356	142.	49-155	WG539676
1,1-Dichloroethane	mg/kg	.025	0.0282	113.	61-134	WG539676
1,1-Dichloroethene	mg/kg	.025	0.0327	131.	53-136	WG539676
1,2,3-Trichlorobenzene	mg/kg	.025	0.0280	112.	62-146	WG539676
1,2,4-Trichlorobenzene	mg/kg	.025	0.0294	118.	61-148	WG539676
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0287	115.	61-134	WG539676
1,2-Dibromoethane	mg/kg	.025	0.0269	108.	76-127	WG539676
1,2-Dichlorobenzene	mg/kg	.025	0.0259	104.	77-123	WG539676
1,2-Dichloroethane	mg/kg	.025	0.0272	109.	58-141	WG539676
1,2-Dichloropropane	mg/kg	.025	0.0264	106.	71-128	WG539676
1,3-Dichlorobenzene	mg/kg	.025	0.0265	106.	71-132	WG539676
1,4-Dichlorobenzene	mg/kg	.025	0.0261	104.	72-123	WG539676
2-Butanone (MEK)	mg/kg	.125	0.139	111.	51-131	WG539676
2-Hexanone	mg/kg	.125	0.152	121.	62-145	WG539676
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.146	117.	61-143	WG539676
Acetone	mg/kg	.125	0.139	111.	44-140	WG539676
Benzene	mg/kg	.025	0.0266	106.	65-128	WG539676
Bromochloromethane	mg/kg	.025	0.0267	107.	73-130	WG539676
Bromodichloromethane	mg/kg	.025	0.0267	107.	66-126	WG539676
Bromoform	mg/kg	.025	0.0252	101.	64-139	WG539676
Bromomethane	mg/kg	.025	0.0344	138.	41-175	WG539676
Carbon disulfide	mg/kg	.025	0.0326	131.	36-161	WG539676
Carbon tetrachloride	mg/kg	.025	0.0275	110.	60-140	WG539676
Chlorobenzene	mg/kg	.025	0.0251	100.	75-125	WG539676

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Quality Assurance Report
Level II

L519789

June 17, 2011

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Chlorodibromomethane	mg/kg	.025	0.0269	107.	72-137	WG539676
Chloroethane	mg/kg	.025	0.0282	113.	44-159	WG539676
Chloroform	mg/kg	.025	0.0277	111.	63-123	WG539676
Chloromethane	mg/kg	.025	0.0295	118.	42-149	WG539676
cis-1,2-Dichloroethene	mg/kg	.025	0.0272	109.	71-129	WG539676
cis-1,3-Dichloropropene	mg/kg	.025	0.0278	111.	73-132	WG539676
Dichlorodifluoromethane	mg/kg	.025	0.0366	146.	26-186	WG539676
Ethylbenzene	mg/kg	.025	0.0258	103.	74-128	WG539676
Isopropylbenzene	mg/kg	.025	0.0287	115.	73-130	WG539676
Methyl tert-butyl ether	mg/kg	.025	0.0312	125.	44-148	WG539676
Methylene Chloride	mg/kg	.025	0.0264	106.	57-129	WG539676
n-Hexane	mg/kg	.025	0.0251	100.	28-169	WG539676
Styrene	mg/kg	.025	0.0203	81.3	76-133	WG539676
Tetrachloroethene	mg/kg	.025	0.0258	103.	65-135	WG539676
Toluene	mg/kg	.025	0.0241	96.5	70-120	WG539676
trans-1,2-Dichloroethene	mg/kg	.025	0.0276	111.	61-133	WG539676
trans-1,3-Dichloropropene	mg/kg	.025	0.0238	95.3	70-135	WG539676
Trichloroethene	mg/kg	.025	0.0277	111.	71-126	WG539676
Trichlorofluoromethane	mg/kg	.025	0.0282	113.	52-147	WG539676
Vinyl chloride	mg/kg	.025	0.0265	106.	50-151	WG539676
4-Bromofluorobenzene				98.98	59-140	WG539676
Dibromofluoromethane				104.8	63-139	WG539676
Toluene-d8				99.13	84-116	WG539676
a,a,a-Trifluorotoluene				102.6	80-118	WG539676
m&p-Xylene	mg/kg	.05	0.0483	96.7	73-127	WG540243
o-Xylene	mg/kg	.025	0.0231	92.6	75-129	WG540243
Xylenes, Total	mg/kg	.075	0.0715	95.3	74-127	WG540243
4-Bromofluorobenzene				95.12	59-140	WG540243
Dibromofluoromethane				117.7	63-139	WG540243
Toluene-d8				102.9	84-116	WG540243
a,a,a-Trifluorotoluene				98.19	80-118	WG540243
Specific Conductance	umhos/cm	442	440.	99.5	85-115	WG540012
ORP	mV	229	230.	100.	95.6-104.37	WG540230
Chromium,Hexavalent	mg/kg	132	100.	75.8	50-150	WG540021

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1-Trichloroethane	mg/kg	0.0258	0.0279	103.	62-135	7.82	20	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.0225	0.0246	90.0	74-129	9.22	20	WG539511
1,1,2-Trichloroethane	mg/kg	0.0231	0.0252	92.0	77-124	8.74	20	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0306	0.0337	122.	49-155	9.59	20	WG539511
1,1-Dichloroethane	mg/kg	0.0260	0.0287	104.	61-134	9.93	20	WG539511
1,1-Dichloroethene	mg/kg	0.0291	0.0322	116.	53-136	9.89	20	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0223	0.0255	89.0	62-146	13.5	20	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0232	0.0264	93.0	61-148	12.8	20	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.0221	0.0272	88.0	61-134	20.9	21	WG539511
1,2-Dibromoethane	mg/kg	0.0233	0.0258	93.0	76-127	9.96	20	WG539511
1,2-Dichlorobenzene	mg/kg	0.0227	0.0256	91.0	77-123	11.9	20	WG539511
1,2-Dichloroethane	mg/kg	0.0243	0.0270	97.0	58-141	10.6	20	WG539511
1,2-Dichloropropane	mg/kg	0.0229	0.0259	91.0	71-128	12.4	20	WG539511

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Chris Hines
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Quality Assurance Report
Level II

June 17, 2011

L519789

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
1,3-Dichlorobenzene	mg/kg	0.0234	0.0248	94.0	71-132	5.62	20	WG539511
1,4-Dichlorobenzene	mg/kg	0.0233	0.0259	93.0	72-123	10.8	20	WG539511
2-Butanone (MEK)	mg/kg	0.119	0.141	96.0	51-131	16.4	25	WG539511
2-Hexanone	mg/kg	0.122	0.137	98.0	62-145	11.7	23	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.120	0.143	96.0	61-143	16.8	23	WG539511
Acetone	mg/kg	0.123	0.146	99.0	44-140	16.7	25	WG539511
Benzene	mg/kg	0.0252	0.0278	101.	65-128	9.53	20	WG539511
Bromochloromethane	mg/kg	0.0253	0.0284	101.	73-130	11.8	20	WG539511
Bromodichloromethane	mg/kg	0.0227	0.0257	91.0	66-126	12.3	20	WG539511
Bromoform	mg/kg	0.0200	0.0217	80.0	64-139	7.92	20	WG539511
Bromomethane	mg/kg	0.0276	0.0292	110.	41-175	5.53	20	WG539511
Carbon disulfide	mg/kg	0.0319	0.0341	128.	36-161	6.67	20	WG539511
Carbon tetrachloride	mg/kg	0.0262	0.0289	105.	60-140	9.65	20	WG539511
Chlorobenzene	mg/kg	0.0229	0.0247	92.0	75-125	7.77	20	WG539511
Chlorodibromomethane	mg/kg	0.0232	0.0257	93.0	72-137	10.3	20	WG539511
Chloroethane	mg/kg	0.0253	0.0269	101.	44-159	5.89	20	WG539511
Chloroform	mg/kg	0.0253	0.0280	101.	63-123	10.1	20	WG539511
Chloromethane	mg/kg	0.0240	0.0261	96.0	42-149	8.65	20	WG539511
cis-1,2-Dichloroethene	mg/kg	0.0252	0.0278	101.	71-129	9.52	20	WG539511
cis-1,3-Dichloropropene	mg/kg	0.0238	0.0268	95.0	73-132	11.9	20	WG539511
Dichlorodifluoromethane	mg/kg	0.0257	0.0286	103.	26-186	10.7	22	WG539511
Ethylbenzene	mg/kg	0.0234	0.0249	94.0	74-128	6.19	20	WG539511
Isopropylbenzene	mg/kg	0.0260	0.0276	104.	73-130	5.67	20	WG539511
m&p-Xylene	mg/kg	0.0473	0.0504	94.0	73-127	6.37	20	WG539511
Methyl tert-butyl ether	mg/kg	0.0271	0.0303	108.	44-148	11.3	20	WG539511
Methylene Chloride	mg/kg	0.0260	0.0293	104.	57-129	11.7	20	WG539511
n-Hexane	mg/kg	0.0232	0.0256	93.0	28-169	10.1	20	WG539511
o-Xylene	mg/kg	0.0233	0.0250	93.0	75-129	6.73	20	WG539511
Styrene	mg/kg	0.0175	0.0190	70*	76-133	7.90	20	WG539511
Tetrachloroethene	mg/kg	0.0229	0.0248	91.0	65-135	8.26	20	WG539511
Toluene	mg/kg	0.0226	0.0254	90.0	70-120	11.5	20	WG539511
trans-1,2-Dichloroethene	mg/kg	0.0260	0.0289	104.	61-133	10.5	20	WG539511
trans-1,3-Dichloropropene	mg/kg	0.0226	0.0262	90.0	70-135	15.0	20	WG539511
Trichloroethene	mg/kg	0.0233	0.0260	93.0	71-126	10.8	20	WG539511
Trichlorofluoromethane	mg/kg	0.0267	0.0285	107.	52-147	6.50	20	WG539511
Vinyl chloride	mg/kg	0.0252	0.0273	101.	50-151	8.28	20	WG539511
Xylenes, Total	mg/kg	0.0706	0.0753	94.0	74-127	6.49	20	WG539511
4-Bromofluorobenzene				99.51	59-140			WG539511
Dibromofluoromethane				104.4	63-139			WG539511
Toluene-d8				98.26	84-116			WG539511
a,a,a-Trifluorotoluene				98.97	80-118			WG539511
TPH (GC/FID) Low Fraction	mg/kg	6.04	6.97	110.	67-135	14.3	20	WG539698
a,a,a-Trifluorotoluene(FID)				93.60	59-128			WG539698
TPH (GC/FID) High Fraction	ppm	49.4	50.7	82.0	50-150	2.51	25	WG539694
o-Terphenyl				66.51	50-150			WG539694
TPH (GC/FID) High Fraction	ppm	46.7	45.4	78.0	50-150	3.00	25	WG539845
o-Terphenyl				63.73	50-150			WG539845
pH	su	6.30	6.30	100.	97.98-102.02	0	20	WG539889
1-Methylnaphthalene	mg/kg	0.0249	0.0212	76.0	41-110	16.2	24	WG540034

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Quality Assurance Report
Level II

June 17, 2011

L519789

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
2-Chloronaphthalene	mg/kg	0.0256	0.0229	78.0	43-109	11.2	21	WG540034
2-Methylnaphthalene	mg/kg	0.0254	0.0218	77.0	38-104	15.2	24	WG540034
Acenaphthene	mg/kg	0.0271	0.0236	82.0	48-103	14.0	20	WG540034
Acenaphthylene	mg/kg	0.0272	0.0233	82.0	43-106	15.4	20	WG540034
Anthracene	mg/kg	0.0295	0.0261	89.0	51-110	11.9	22	WG540034
Benzo(a)anthracene	mg/kg	0.0271	0.0243	82.0	38-126	10.7	20	WG540034
Benzo(a)pyrene	mg/kg	0.0308	0.0245	93.0	47-118	22.6*	20	WG540034
Benzo(b)fluoranthene	mg/kg	0.0265	0.0243	80.0	47-118	8.81	29	WG540034
Benzo(g,h,i)perylene	mg/kg	0.0297	0.0264	90.0	40-125	11.7	20	WG540034
Benzo(k)fluoranthene	mg/kg	0.0304	0.0264	92.0	45-121	13.9	31	WG540034
Chrysene	mg/kg	0.0281	0.0247	85.0	35-135	12.8	20	WG540034
Dibenz(a,h)anthracene	mg/kg	0.0283	0.0252	86.0	41-124	11.8	20	WG540034
Fluoranthene	mg/kg	0.0305	0.0272	92.0	50-114	11.3	20	WG540034
Fluorene	mg/kg	0.0280	0.0251	85.0	49-109	11.1	19	WG540034
Indeno(1,2,3-cd)pyrene	mg/kg	0.0288	0.0257	87.0	40-126	11.5	20	WG540034
Naphthalene	mg/kg	0.0242	0.0217	73.0	36-100	11.2	24	WG540034
Phenanthrene	mg/kg	0.0278	0.0246	84.0	46-108	12.1	21	WG540034
Pyrene	mg/kg	0.0300	0.0270	91.0	30-136	10.6	20	WG540034
2-Fluorobiphenyl				79.29	33-114			WG540034
Nitrobenzene-d5				75.44	21-120			WG540034
p-Terphenyl-d14				85.12	18-142			WG540034
1,1,1-Trichloroethane	mg/kg	0.0263	0.0281	105.	62-135	6.63	20	WG539676
1,1,2,2-Tetrachloroethane	mg/kg	0.0248	0.0254	99.0	74-129	2.44	20	WG539676
1,1,2-Trichloroethane	mg/kg	0.0250	0.0255	100.	77-124	2.12	20	WG539676
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.0330	0.0356	132.	49-155	7.59	20	WG539676
1,1-Dichloroethane	mg/kg	0.0254	0.0282	102.	61-134	10.3	20	WG539676
1,1-Dichloroethene	mg/kg	0.0298	0.0327	119.	53-136	9.35	20	WG539676
1,2,3-Trichlorobenzene	mg/kg	0.0278	0.0280	111.	62-146	0.560	20	WG539676
1,2,4-Trichlorobenzene	mg/kg	0.0277	0.0294	111.	61-148	5.93	20	WG539676
1,2-Dibromo-3-Chloropropane	mg/kg	0.0263	0.0287	105.	61-134	8.45	21	WG539676
1,2-Dibromoethane	mg/kg	0.0257	0.0269	103.	76-127	4.86	20	WG539676
1,2-Dichlorobenzene	mg/kg	0.0244	0.0259	98.0	77-123	5.92	20	WG539676
1,2-Dichloroethane	mg/kg	0.0257	0.0272	103.	58-141	5.37	20	WG539676
1,2-Dichloropropane	mg/kg	0.0251	0.0264	100.	71-128	5.20	20	WG539676
1,3-Dichlorobenzene	mg/kg	0.0241	0.0265	96.0	71-132	9.60	20	WG539676
1,4-Dichlorobenzene	mg/kg	0.0242	0.0261	97.0	72-123	7.79	20	WG539676
2-Butanone (MEK)	mg/kg	0.138	0.139	111.	51-131	0.750	25	WG539676
2-Hexanone	mg/kg	0.143	0.152	114.	62-145	5.96	23	WG539676
4-Methyl-2-pentanone (MIBK)	mg/kg	0.140	0.146	112.	61-143	4.11	23	WG539676
Acetone	mg/kg	0.135	0.139	108.	44-140	3.24	25	WG539676
Benzene	mg/kg	0.0246	0.0266	98.0	65-128	7.51	20	WG539676
Bromochloromethane	mg/kg	0.0251	0.0267	100.	73-130	6.25	20	WG539676
Bromodichloromethane	mg/kg	0.0252	0.0267	101.	66-126	5.66	20	WG539676
Bromoform	mg/kg	0.0246	0.0252	98.0	64-139	2.19	20	WG539676
Bromomethane	mg/kg	0.0339	0.0344	136.	41-175	1.43	20	WG539676
Carbon disulfide	mg/kg	0.0311	0.0326	124.	36-161	4.69	20	WG539676
Carbon tetrachloride	mg/kg	0.0258	0.0275	103.	60-140	6.44	20	WG539676
Chlorobenzene	mg/kg	0.0238	0.0251	95.0	75-125	5.30	20	WG539676
Chlorodibromomethane	mg/kg	0.0257	0.0269	103.	72-137	4.55	20	WG539676
Chloroethane	mg/kg	0.0275	0.0282	110.	44-159	2.54	20	WG539676
Chloroform	mg/kg	0.0257	0.0277	103.	63-123	7.59	20	WG539676
Chloromethane	mg/kg	0.0267	0.0295	107.	42-149	10.0	20	WG539676
cis-1,2-Dichloroethene	mg/kg	0.0251	0.0272	100.	71-129	7.92	20	WG539676
cis-1,3-Dichloropropene	mg/kg	0.0261	0.0278	104.	73-132	6.29	20	WG539676
Dichlorodifluoromethane	mg/kg	0.0332	0.0366	133.	26-186	9.72	22	WG539676
Ethylbenzene	mg/kg	0.0234	0.0258	93.0	74-128	9.94	20	WG539676
Isopropylbenzene	mg/kg	0.0264	0.0287	105.	73-130	8.33	20	WG539676

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EnCana Oil & Gas Inc. - CO
Chris Hines
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Parachute, CO 81635

Quality Assurance Report
Level II

June 17, 2011

L519789

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
Methyl tert-butyl ether	mg/kg	0.0297	0.0312	119.	44-148	4.85	20	WG539676
Methylene Chloride	mg/kg	0.0241	0.0264	96.0	57-129	9.19	20	WG539676
n-Hexane	mg/kg	0.0225	0.0251	90.0	28-169	11.0	20	WG539676
Styrene	mg/kg	0.0185	0.0203	74*	76-133	9.41	20	WG539676
Tetrachloroethene	mg/kg	0.0235	0.0258	94.0	65-135	9.12	20	WG539676
Toluene	mg/kg	0.0228	0.0241	91.0	70-120	5.58	20	WG539676
trans-1,2-Dichloroethene	mg/kg	0.0252	0.0276	101.	61-133	9.30	20	WG539676
trans-1,3-Dichloropropene	mg/kg	0.0234	0.0238	94.0	70-135	1.88	20	WG539676
Trichloroethene	mg/kg	0.0249	0.0277	99.0	71-126	10.8	20	WG539676
Trichlorofluoromethane	mg/kg	0.0271	0.0282	108.	52-147	3.99	20	WG539676
Vinyl chloride	mg/kg	0.0251	0.0265	100.	50-151	5.36	20	WG539676
4-Bromofluorobenzene				98.27	59-140			WG539676
Dibromofluoromethane				102.4	63-139			WG539676
Toluene-d8				100.9	84-116			WG539676
a,a,a-Trifluorotoluene				99.28	80-118			WG539676
m&p-Xylene	mg/kg	0.0443	0.0483	89.0	73-127	8.71	20	WG540243
o-Xylene	mg/kg	0.0216	0.0231	86.0	75-129	6.74	20	WG540243
Xylenes, Total	mg/kg	0.0659	0.0715	88.0	74-127	8.06	20	WG540243
4-Bromofluorobenzene				95.08	59-140			WG540243
Dibromofluoromethane				113.3	63-139			WG540243
Toluene-d8				102.9	84-116			WG540243
a,a,a-Trifluorotoluene				98.75	80-118			WG540243
Specific Conductance	umhos/	440.	440.	100.	85-115	0	20	WG540012
ORP	mV	220.	230.	96.0	95.6-104.37	4.44	20	WG540230
Chromium,Hexavalent	mg/kg	110.	100.	83.0	50-150	9.52	20	WG540021

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/kg	0.147	0	.025	117.	23-147	L519783-02	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.108	0	.025	86.6	18-150	L519783-02	WG539511
1,1,2-Trichloroethane	mg/kg	0.120	0	.025	96.2	35-140	L519783-02	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.179	0	.025	143.	10-145	L519783-02	WG539511
1,1-Dichloroethane	mg/kg	0.142	0	.025	113.	24-148	L519783-02	WG539511
1,1-Dichloroethene	mg/kg	0.167	0	.025	133.	10-149	L519783-02	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0695	0	.025	55.6	10-129	L519783-02	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0789	0	.025	63.1	10-119	L519783-02	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.136	0	.025	109.	19-145	L519783-02	WG539511
1,2-Dibromoethane	mg/kg	0.119	0	.025	94.8	24-145	L519783-02	WG539511
1,2-Dichlorobenzene	mg/kg	0.113	0	.025	90.5	12-130	L519783-02	WG539511
1,2-Dichloroethane	mg/kg	0.127	0	.025	102.	21-155	L519783-02	WG539511
1,2-Dichloropropane	mg/kg	0.119	0	.025	95.0	28-144	L519783-02	WG539511
1,3-Dichlorobenzene	mg/kg	0.0957	0	.025	76.6	10-129	L519783-02	WG539511
1,4-Dichlorobenzene	mg/kg	0.118	0	.025	94.4	10-121	L519783-02	WG539511
2-Butanone (MEK)	mg/kg	0.697	0	.125	112.	21-143	L519783-02	WG539511
2-Hexanone	mg/kg	0.692	0	.125	111.	22-151	L519783-02	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.688	0	.125	110.	31-151	L519783-02	WG539511
Acetone	mg/kg	0.749	0	.125	120.	13-158	L519783-02	WG539511
Benzene	mg/kg	0.135	0	.025	108.	16-143	L519783-02	WG539511
Bromochloromethane	mg/kg	0.131	0	.025	104.	25-152	L519783-02	WG539511
Bromodichloromethane	mg/kg	0.118	0	.025	94.5	27-139	L519783-02	WG539511

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Bromoform	mg/kg	0.0966	0	.025	77.3	21-144	L519783-02	WG539511
Bromomethane	mg/kg	0.140	0	.025	112.	0-180	L519783-02	WG539511
Carbon disulfide	mg/kg	0.153	0	.025	122.	10-156	L519783-02	WG539511
Carbon tetrachloride	mg/kg	0.149	0	.025	119.	12-149	L519783-02	WG539511
Chlorobenzene	mg/kg	0.113	0	.025	90.3	17-134	L519783-02	WG539511
Chlorodibromomethane	mg/kg	0.118	0	.025	94.8	28-147	L519783-02	WG539511
Chloroethane	mg/kg	0.138	0	.025	111.	0-172	L519783-02	WG539511
Chloroform	mg/kg	0.138	0	.025	111.	28-138	L519783-02	WG539511
Chloromethane	mg/kg	0.126	0	.025	100.	10-158	L519783-02	WG539511
cis-1,2-Dichloroethene	mg/kg	0.133	0	.025	107.	21-147	L519783-02	WG539511
cis-1,3-Dichloropropene	mg/kg	0.122	0	.025	97.4	17-145	L519783-02	WG539511
Dichlorodifluoromethane	mg/kg	0.133	0	.025	106.	0-192	L519783-02	WG539511
Ethylbenzene	mg/kg	0.118	0	.025	94.4	12-137	L519783-02	WG539511
Isopropylbenzene	mg/kg	0.126	0	.025	100.	14-134	L519783-02	WG539511
m&p-Xylene	mg/kg	0.234	0	.05	93.6	10-135	L519783-02	WG539511
Methyl tert-butyl ether	mg/kg	0.146	0	.025	117.	21-157	L519783-02	WG539511
Methylene Chloride	mg/kg	0.140	0	.025	112.	12-149	L519783-02	WG539511
n-Hexane	mg/kg	0.0926	0	.025	74.1	10-129	L519783-02	WG539511
o-Xylene	mg/kg	0.114	0	.025	91.0	14-140	L519783-02	WG539511
Styrene	mg/kg	0.0819	0	.025	65.5	10-140	L519783-02	WG539511
Tetrachloroethene	mg/kg	0.119	0	.025	95.2	10-131	L519783-02	WG539511
Toluene	mg/kg	0.122	0	.025	97.6	12-136	L519783-02	WG539511
trans-1,2-Dichloroethene	mg/kg	0.140	0	.025	112.	10-143	L519783-02	WG539511
trans-1,3-Dichloropropene	mg/kg	0.116	0	.025	93.1	16-147	L519783-02	WG539511
Trichloroethene	mg/kg	0.129	0	.025	103.	10-155	L519783-02	WG539511
Trichlorofluoromethane	mg/kg	0.155	0	.025	124.	10-154	L519783-02	WG539511
Vinyl chloride	mg/kg	0.140	0	.025	112.	10-159	L519783-02	WG539511
Xylenes, Total	mg/kg	0.348	0	.075	92.8	10-138	L519783-02	WG539511
4-Bromofluorobenzene					89.10	59-140		WG539511
Dibromofluoromethane					109.7	63-139		WG539511
Toluene-d8					97.03	84-116		WG539511
a,a,a-Trifluorotoluene					96.67	80-118		WG539511
TPH (GC/FID) Low Fraction	mg/kg	29.9	4.80	5.5	91.2	55-109	L519859-01	WG539698
a,a,a-Trifluorotoluene(FID)					101.6	59-128		WG539698
Arsenic	mg/kg	48.8	3.40	50	90.8	75-125	L519761-01	WG539593
Barium	mg/kg	158.	108.	50	100.	75-125	L519761-01	WG539593
Cadmium	mg/kg	46.4	0	50	92.8	75-125	L519761-01	WG539593
Chromium	mg/kg	60.7	17.0	50	87.4	75-125	L519761-01	WG539593
Copper	mg/kg	62.3	16.0	50	92.6	75-125	L519761-01	WG539593
Lead	mg/kg	62.1	16.0	50	92.2	75-125	L519761-01	WG539593
Nickel	mg/kg	50.6	12.0	50	77.2	75-125	L519761-01	WG539593
Selenium	mg/kg	45.1	0	50	90.2	75-125	L519761-01	WG539593
Silver	mg/kg	45.4	0.129	50	90.5	75-125	L519761-01	WG539593
Zinc	mg/kg	95.1	48.0	50	94.2	75-125	L519761-01	WG539593
Mercury	mg/kg	0.250	0.0160	.25	93.6	70-130	L519815-01	WG539585
TPH (GC/FID) High Fraction	ppm	41.7	4.00	60	62.9	50-150	L519859-01	WG539845
o-Terphenyl					64.37	50-150		WG539845
1,1,1-Trichloroethane	mg/kg	0.114	0	.025	91.1	23-147	L519741-01	WG539676
1,1,2,2-Tetrachloroethane	mg/kg	0.0895	0	.025	71.6	18-150	L519741-01	WG539676

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Analyte	Units	MS Res	Matrix Spike Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,2-Trichloroethane	mg/kg	0.0973	0	.025	77.8	35-140	L519741-01	WG539676
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.141	0	.025	113.	10-145	L519741-01	WG539676
1,1-Dichloroethane	mg/kg	0.116	0	.025	92.5	24-148	L519741-01	WG539676
1,1-Dichloroethene	mg/kg	0.142	0.00500	.025	110.	10-149	L519741-01	WG539676
1,2,3-Trichlorobenzene	mg/kg	0.0537	0	.025	43.0	10-129	L519741-01	WG539676
1,2,4-Trichlorobenzene	mg/kg	0.0580	0	.025	46.4	10-119	L519741-01	WG539676
1,2-Dibromo-3-Chloropropane	mg/kg	0.0967	0	.025	77.3	19-145	L519741-01	WG539676
1,2-Dibromoethane	mg/kg	0.101	0	.025	80.5	24-145	L519741-01	WG539676
1,2-Dichlorobenzene	mg/kg	0.0714	0	.025	57.1	12-130	L519741-01	WG539676
1,2-Dichloroethane	mg/kg	0.116	0	.025	92.5	21-155	L519741-01	WG539676
1,2-Dichloropropane	mg/kg	0.103	0	.025	82.4	28-144	L519741-01	WG539676
1,3-Dichlorobenzene	mg/kg	0.0625	0	.025	50.0	10-129	L519741-01	WG539676
1,4-Dichlorobenzene	mg/kg	0.0762	0	.025	61.0	10-121	L519741-01	WG539676
2-Butanone (MEK)	mg/kg	0.683	0	.125	109.	21-143	L519741-01	WG539676
2-Hexanone	mg/kg	0.651	0	.125	104.	22-151	L519741-01	WG539676
4-Methyl-2-pentanone (MIBK)	mg/kg	0.676	0	.125	108.	31-151	L519741-01	WG539676
Acetone	mg/kg	0.701	0	.125	112.	13-158	L519741-01	WG539676
Benzene	mg/kg	0.106	0	.025	84.8	16-143	L519741-01	WG539676
Bromochloromethane	mg/kg	0.116	0	.025	92.4	25-152	L519741-01	WG539676
Bromodichloromethane	mg/kg	0.101	0	.025	80.7	27-139	L519741-01	WG539676
Bromoform	mg/kg	0.0835	0	.025	66.8	21-144	L519741-01	WG539676
Bromomethane	mg/kg	0.143	0	.025	114.	0-180	L519741-01	WG539676
Carbon disulfide	mg/kg	0.135	0	.025	108.	10-156	L519741-01	WG539676
Carbon tetrachloride	mg/kg	0.109	0	.025	87.0	12-149	L519741-01	WG539676
Chlorobenzene	mg/kg	0.0795	0	.025	63.6	17-134	L519741-01	WG539676
Chlorodibromomethane	mg/kg	0.0952	0	.025	76.2	28-147	L519741-01	WG539676
Chloroethane	mg/kg	0.128	0	.025	102.	0-172	L519741-01	WG539676
Chloroform	mg/kg	0.111	0	.025	89.0	28-138	L519741-01	WG539676
Chloromethane	mg/kg	0.129	0	.025	103.	10-158	L519741-01	WG539676
cis-1,2-Dichloroethene	mg/kg	0.108	0	.025	86.4	21-147	L519741-01	WG539676
cis-1,3-Dichloropropene	mg/kg	0.0959	0	.025	76.7	17-145	L519741-01	WG539676
Dichlorodifluoromethane	mg/kg	0.168	0	.025	134.	0-192	L519741-01	WG539676
Ethylbenzene	mg/kg	0.0801	0	.025	64.1	12-137	L519741-01	WG539676
Isopropylbenzene	mg/kg	0.0823	0	.025	65.9	14-134	L519741-01	WG539676
Methyl tert-butyl ether	mg/kg	0.146	0	.025	117.	21-157	L519741-01	WG539676
Methylene Chloride	mg/kg	0.114	0	.025	91.0	12-149	L519741-01	WG539676
n-Hexane	mg/kg	0.0774	0	.025	61.9	10-129	L519741-01	WG539676
Styrene	mg/kg	0.0598	0	.025	47.8	10-140	L519741-01	WG539676
Tetrachloroethene	mg/kg	0.0790	0	.025	63.2	10-131	L519741-01	WG539676
Toluene	mg/kg	0.0852	0	.025	68.2	12-136	L519741-01	WG539676
trans-1,2-Dichloroethene	mg/kg	0.114	0	.025	91.1	10-143	L519741-01	WG539676
trans-1,3-Dichloropropene	mg/kg	0.0879	0	.025	70.3	16-147	L519741-01	WG539676
Trichloroethene	mg/kg	0.0983	0	.025	78.6	10-155	L519741-01	WG539676
Trichlorofluoromethane	mg/kg	0.117	0	.025	93.8	10-154	L519741-01	WG539676
Vinyl chloride	mg/kg	0.118	0	.025	94.3	10-159	L519741-01	WG539676
4-Bromofluorobenzene					91.56	59-140		WG539676
Dibromofluoromethane					107.9	63-139		WG539676
Toluene-d8					96.69	84-116		WG539676
a,a,a-Trifluorotoluene					96.94	80-118		WG539676
m&p-Xylene	mg/kg	0.156	0.00143	.05	61.9	10-135	L519968-19	WG540243
o-Xylene	mg/kg	0.0853	0.000358	.025	68.0	14-140	L519968-19	WG540243
Xylenes, Total	mg/kg	0.242	0	.075	64.4	10-138	L519968-19	WG540243
4-Bromofluorobenzene					52.88*	59-140		WG540243
Dibromofluoromethane					130.4	63-139		WG540243
Toluene-d8					94.41	84-116		WG540243
a,a,a-Trifluorotoluene					86.36	80-118		WG540243

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Tax I.D. 62-0814289

Est. 1970

EnCana Oil & Gas Inc. - CO
Chris Hines
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L519789

June 17, 2011

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1-Methylnaphthalene	mg/kg	0.0261	0	.033	79.1	19-131	L519957-03	WG540034
2-Chloronaphthalene	mg/kg	0.0272	0	.033	82.5	38-117	L519957-03	WG540034
2-Methylnaphthalene	mg/kg	0.0257	0	.033	78.0	18-125	L519957-03	WG540034
Acenaphthene	mg/kg	0.0225	0	.033	68.2	31-120	L519957-03	WG540034
Acenaphthylene	mg/kg	0.0250	0	.033	75.6	34-116	L519957-03	WG540034
Anthracene	mg/kg	0.0231	0	.033	70.0	32-131	L519957-03	WG540034
Benzo(a)anthracene	mg/kg	0.0290	0.00940	.033	59.5	32-131	L519957-03	WG540034
Benzo(a)pyrene	mg/kg	0.0248	0	.033	75.3	28-130	L519957-03	WG540034
Benzo(b)fluoranthene	mg/kg	0.0311	0.00990	.033	64.3	37-130	L519957-03	WG540034
Benzo(g,h,i)perylene	mg/kg	0.0221	0	.033	67.1	10-134	L519957-03	WG540034
Benzo(k)fluoranthene	mg/kg	0.0254	0	.033	77.0	31-129	L519957-03	WG540034
Chrysene	mg/kg	0.0242	0	.033	73.3	25-137	L519957-03	WG540034
Dibenz(a,h)anthracene	mg/kg	0.0176	0	.033	53.4	20-134	L519957-03	WG540034
Fluoranthene	mg/kg	0.0268	0	.033	81.3	27-138	L519957-03	WG540034
Fluorene	mg/kg	0.0254	0	.033	76.9	26-136	L519957-03	WG540034
Indeno(1,2,3-cd)pyrene	mg/kg	0.0181	0	.033	54.8	16-135	L519957-03	WG540034
Naphthalene	mg/kg	0.0251	0	.033	76.0	22-121	L519957-03	WG540034
Phenanthrene	mg/kg	0.0279	0	.033	84.6	27-133	L519957-03	WG540034
Pyrene	mg/kg	0.0293	0	.033	88.8	22-133	L519957-03	WG540034
2-Fluorobiphenyl					67.78	33-114		WG540034
Nitrobenzene-d5					87.09	21-120		WG540034
p-Terphenyl-d14					66.63	18-142		WG540034
Chromium,Hexavalent	mg/kg	0	0	20	0*	50-150	L520219-01	WG540021

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1-Trichloroethane	mg/kg	0.136	0.147	108.	23-147	7.82	32	L519783-02	WG539511
1,1,2,2-Tetrachloroethane	mg/kg	0.0938	0.108	75.0	18-150	14.4	33	L519783-02	WG539511
1,1,2-Trichloroethane	mg/kg	0.106	0.120	85.0	35-140	12.3	29	L519783-02	WG539511
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.158	0.179	126.	10-145	12.7	35	L519783-02	WG539511
1,1-Dichloroethane	mg/kg	0.130	0.142	104.	24-148	8.91	31	L519783-02	WG539511
1,1-Dichloroethene	mg/kg	0.146	0.167	117.	10-149	13.1	34	L519783-02	WG539511
1,2,3-Trichlorobenzene	mg/kg	0.0587	0.0695	47.0	10-129	16.9	43	L519783-02	WG539511
1,2,4-Trichlorobenzene	mg/kg	0.0681	0.0789	54.4	10-119	14.7	44	L519783-02	WG539511
1,2-Dibromo-3-Chloropropane	mg/kg	0.122	0.136	97.4	19-145	11.2	35	L519783-02	WG539511
1,2-Dibromoethane	mg/kg	0.104	0.119	83.0	24-145	13.2	31	L519783-02	WG539511
1,2-Dichlorobenzene	mg/kg	0.102	0.113	81.9	12-130	9.92	35	L519783-02	WG539511
1,2-Dichloroethane	mg/kg	0.116	0.127	93.1	21-155	8.95	29	L519783-02	WG539511
1,2-Dichloropropane	mg/kg	0.109	0.119	87.5	28-144	8.21	30	L519783-02	WG539511
1,3-Dichlorobenzene	mg/kg	0.0826	0.0957	66.1	10-129	14.8	38	L519783-02	WG539511
1,4-Dichlorobenzene	mg/kg	0.108	0.118	86.7	10-121	8.50	36	L519783-02	WG539511
2-Butanone (MEK)	mg/kg	0.621	0.697	99.4	21-143	11.5	37	L519783-02	WG539511
2-Hexanone	mg/kg	0.586	0.692	93.7	22-151	16.6	38	L519783-02	WG539511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.596	0.688	95.4	31-151	14.2	36	L519783-02	WG539511
Acetone	mg/kg	0.650	0.749	104.	13-158	14.2	34	L519783-02	WG539511
Benzene	mg/kg	0.122	0.135	97.8	16-143	9.69	31	L519783-02	WG539511
Bromochloromethane	mg/kg	0.120	0.131	95.9	25-152	8.57	29	L519783-02	WG539511
Bromodichloromethane	mg/kg	0.109	0.118	87.1	27-139	8.16	30	L519783-02	WG539511
Bromoform	mg/kg	0.0831	0.0966	66.5	21-144	15.0	34	L519783-02	WG539511
Bromomethane	mg/kg	0.130	0.140	104.	0-180	7.38	41	L519783-02	WG539511
Carbon disulfide	mg/kg	0.136	0.153	108.	10-156	11.9	38	L519783-02	WG539511
Carbon tetrachloride	mg/kg	0.134	0.149	107.	12-149	10.6	34	L519783-02	WG539511
Chlorobenzene	mg/kg	0.0986	0.113	78.9	17-134	13.5	34	L519783-02	WG539511
Chlorodibromomethane	mg/kg	0.103	0.118	82.7	28-147	13.6	32	L519783-02	WG539511
Chloroethane	mg/kg	0.126	0.138	101.	0-172	9.42	38	L519783-02	WG539511

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Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Chloroform	mg/kg	0.126	0.138	101.	28-138	9.10	30	L519783-02	WG539511
Chloromethane	mg/kg	0.115	0.126	92.2	10-158	8.68	35	L519783-02	WG539511
cis-1,2-Dichloroethene	mg/kg	0.122	0.133	97.8	21-147	8.68	31	L519783-02	WG539511
cis-1,3-Dichloropropene	mg/kg	0.111	0.122	89.0	17-145	9.01	32	L519783-02	WG539511
Dichlorodifluoromethane	mg/kg	0.117	0.133	93.4	0-192	12.9	38	L519783-02	WG539511
Ethylbenzene	mg/kg	0.103	0.118	82.5	12-137	13.4	36	L519783-02	WG539511
Isopropylbenzene	mg/kg	0.109	0.126	87.4	14-134	14.1	37	L519783-02	WG539511
m&p-Xylene	mg/kg	0.206	0.234	82.2	10-135	13.0	37	L519783-02	WG539511
Methyl tert-butyl ether	mg/kg	0.134	0.146	107.	21-157	8.61	31	L519783-02	WG539511
Methylene Chloride	mg/kg	0.126	0.140	101.	12-149	9.91	31	L519783-02	WG539511
n-Hexane	mg/kg	0.0804	0.0926	64.3	10-129	14.2	42	L519783-02	WG539511
o-Xylene	mg/kg	0.100	0.114	80.0	14-140	12.8	35	L519783-02	WG539511
Styrene	mg/kg	0.0710	0.0819	56.8	10-140	14.3	35	L519783-02	WG539511
Tetrachloroethene	mg/kg	0.103	0.119	82.0	10-131	14.8	35	L519783-02	WG539511
Toluene	mg/kg	0.109	0.122	87.4	12-136	11.0	32	L519783-02	WG539511
trans-1,2-Dichloroethene	mg/kg	0.125	0.140	100.	10-143	11.3	33	L519783-02	WG539511
trans-1,3-Dichloropropene	mg/kg	0.106	0.116	84.7	16-147	9.47	32	L519783-02	WG539511
Trichloroethene	mg/kg	0.116	0.129	93.1	10-155	10.2	33	L519783-02	WG539511
Trichlorofluoromethane	mg/kg	0.141	0.155	113.	10-154	9.62	32	L519783-02	WG539511
Vinyl chloride	mg/kg	0.125	0.140	99.7	10-159	11.9	36	L519783-02	WG539511
Xylenes, Total	mg/kg	0.306	0.348	81.5	10-138	12.9	36	L519783-02	WG539511
4-Bromofluorobenzene				85.48	59-140				WG539511
Dibromofluoromethane				106.0	63-139				WG539511
Toluene-d8				96.95	84-116				WG539511
a,a,a-Trifluorotoluene				95.61	80-118				WG539511
TPH (GC/FID) Low Fraction	mg/kg	32.9	29.9	102.	55-109	9.74	20	L519859-01	WG539698
a,a,a-Trifluorotoluene(FID)				102.5	59-128				WG539698
Arsenic	mg/kg	45.0	48.8	83.2	75-125	8.10	20	L519761-01	WG539593
Barium	mg/kg	137.	158.	58.0*	75-125	14.2	20	L519761-01	WG539593
Cadmium	mg/kg	43.8	46.4	87.6	75-125	5.76	20	L519761-01	WG539593
Chromium	mg/kg	55.3	60.7	76.6	75-125	9.31	20	L519761-01	WG539593
Copper	mg/kg	59.7	62.3	87.4	75-125	4.26	20	L519761-01	WG539593
Lead	mg/kg	56.6	62.1	81.2	75-125	9.27	20	L519761-01	WG539593
Nickel	mg/kg	48.5	50.6	73.0*	75-125	4.24	20	L519761-01	WG539593
Selenium	mg/kg	42.6	45.1	85.2	75-125	5.70	20	L519761-01	WG539593
Silver	mg/kg	45.1	45.4	89.9	75-125	0.663	20	L519761-01	WG539593
Zinc	mg/kg	85.4	95.1	74.8*	75-125	10.7	20	L519761-01	WG539593
Mercury	mg/kg	0.240	0.250	89.6	70-130	4.08	20	L519815-01	WG539585
TPH (GC/FID) High Fraction	ppm	41.5	41.7	62.5	50-150	0.493	25	L519859-01	WG539845
o-Terphenyl				65.73	50-150				WG539845
1,1,1-Trichloroethane	mg/kg	0.122	0.114	97.3	23-147	6.59	32	L519741-01	WG539676
1,1,2,2-Tetrachloroethane	mg/kg	0.0876	0.0895	70.1	18-150	2.18	33	L519741-01	WG539676
1,1,2-Trichloroethane	mg/kg	0.103	0.0973	82.0	35-140	5.27	29	L519741-01	WG539676
1,1,2-Trichloro-1,2,2-trifluoroethane	mg/kg	0.141	0.141	113.	10-145	0.0400	35	L519741-01	WG539676
1,1-Dichloroethane	mg/kg	0.126	0.116	101.	24-148	8.84	31	L519741-01	WG539676
1,1-Dichloroethene	mg/kg	0.153	0.142	119.	10-149	7.63	34	L519741-01	WG539676
1,2,3-Trichlorobenzene	mg/kg	0.0447	0.0537	35.7	10-129	18.4	43	L519741-01	WG539676
1,2,4-Trichlorobenzene	mg/kg	0.0504	0.0580	40.3	10-119	14.2	44	L519741-01	WG539676
1,2-Dibromo-3-Chloropropane	mg/kg	0.113	0.0967	90.8	19-145	16.0	35	L519741-01	WG539676

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Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
1,2-Dibromoethane	mg/kg	0.0997	0.101	79.7	24-145	0.970	31	L519741-01	WG539676
1,2-Dichlorobenzene	mg/kg	0.0739	0.0714	59.1	12-130	3.45	35	L519741-01	WG539676
1,2-Dichloroethane	mg/kg	0.129	0.116	103.	21-155	10.9	29	L519741-01	WG539676
1,2-Dichloropropane	mg/kg	0.112	0.103	89.7	28-144	8.39	30	L519741-01	WG539676
1,3-Dichlorobenzene	mg/kg	0.0484	0.0625	38.7	10-129	25.4	38	L519741-01	WG539676
1,4-Dichlorobenzene	mg/kg	0.0798	0.0762	63.8	10-121	4.63	36	L519741-01	WG539676
2-Butanone (MEK)	mg/kg	0.774	0.683	124.	21-143	12.5	37	L519741-01	WG539676
2-Hexanone	mg/kg	0.630	0.651	101.	22-151	3.42	38	L519741-01	WG539676
4-Methyl-2-pentanone (MIBK)	mg/kg	0.736	0.676	118.	31-151	8.54	36	L519741-01	WG539676
Acetone	mg/kg	0.770	0.701	123.	13-158	9.41	34	L519741-01	WG539676
Benzene	mg/kg	0.110	0.106	88.3	16-143	4.08	31	L519741-01	WG539676
Bromochloromethane	mg/kg	0.122	0.116	97.3	25-152	5.17	29	L519741-01	WG539676
Bromodichloromethane	mg/kg	0.104	0.101	83.2	27-139	3.07	30	L519741-01	WG539676
Bromoform	mg/kg	0.0793	0.0835	63.4	21-144	5.13	34	L519741-01	WG539676
Bromomethane	mg/kg	0.149	0.143	119.	0-180	4.20	41	L519741-01	WG539676
Carbon disulfide	mg/kg	0.139	0.135	111.	10-156	2.53	38	L519741-01	WG539676
Carbon tetrachloride	mg/kg	0.108	0.109	86.1	12-149	1.00	34	L519741-01	WG539676
Chlorobenzene	mg/kg	0.0731	0.0795	58.5	17-134	8.38	34	L519741-01	WG539676
Chlorodibromomethane	mg/kg	0.0960	0.0952	76.8	28-147	0.880	32	L519741-01	WG539676
Chloroethane	mg/kg	0.146	0.128	116.	0-172	12.6	38	L519741-01	WG539676
Chloroform	mg/kg	0.121	0.111	96.5	28-138	8.05	30	L519741-01	WG539676
Chloromethane	mg/kg	0.143	0.129	114.	10-158	9.76	35	L519741-01	WG539676
cis-1,2-Dichloroethene	mg/kg	0.116	0.108	92.4	21-147	6.69	31	L519741-01	WG539676
cis-1,3-Dichloropropene	mg/kg	0.0917	0.0959	73.4	17-145	4.48	32	L519741-01	WG539676
Dichlorodifluoromethane	mg/kg	0.185	0.168	148.	0-192	9.90	38	L519741-01	WG539676
Ethylbenzene	mg/kg	0.0737	0.0801	59.0	12-137	8.25	36	L519741-01	WG539676
Isopropylbenzene	mg/kg	0.0721	0.0823	57.6	14-134	13.3	37	L519741-01	WG539676
Methyl tert-butyl ether	mg/kg	0.162	0.146	130.	21-157	10.5	31	L519741-01	WG539676
Methylene Chloride	mg/kg	0.122	0.114	97.7	12-149	7.13	31	L519741-01	WG539676
n-Hexane	mg/kg	0.0712	0.0774	57.0	10-129	8.36	42	L519741-01	WG539676
Styrene	mg/kg	0.0520	0.0598	41.6	10-140	14.0	35	L519741-01	WG539676
Tetrachloroethene	mg/kg	0.0745	0.0790	59.6	10-131	5.82	35	L519741-01	WG539676
Toluene	mg/kg	0.0865	0.0852	69.2	12-136	1.49	32	L519741-01	WG539676
trans-1,2-Dichloroethene	mg/kg	0.119	0.114	95.4	10-143	4.62	33	L519741-01	WG539676
trans-1,3-Dichloropropene	mg/kg	0.0849	0.0879	67.9	16-147	3.51	32	L519741-01	WG539676
Trichloroethene	mg/kg	0.0988	0.0983	79.0	10-155	0.480	33	L519741-01	WG539676
Trichlorofluoromethane	mg/kg	0.134	0.117	107.	10-154	13.2	32	L519741-01	WG539676
Vinyl chloride	mg/kg	0.133	0.118	106.	10-159	11.7	36	L519741-01	WG539676
4-Bromofluorobenzene				75.41	59-140				WG539676
Dibromofluoromethane				113.1	63-139				WG539676
Toluene-d8				94.71	84-116				WG539676
a,a,a-Trifluorotoluene				88.99	80-118				WG539676
m&p-Xylene	mg/kg	0.173	0.156	68.6	10-135	10.2	37	L519968-19	WG540243
o-Xylene	mg/kg	0.0899	0.0853	71.6	14-140	5.15	35	L519968-19	WG540243
Xylenes, Total	mg/kg	0.263	0.242	70.1	10-138	8.44	36	L519968-19	WG540243
4-Bromofluorobenzene				71.51	59-140				WG540243
Dibromofluoromethane				121.1	63-139				WG540243
Toluene-d8				97.71	84-116				WG540243
a,a,a-Trifluorotoluene				93.52	80-118				WG540243
1-Methylnaphthalene	mg/kg	0.0236	0.0261	71.4	19-131	10.2	30	L519957-03	WG540034
2-Chloronaphthalene	mg/kg	0.0238	0.0272	72.1	38-117	13.5	26	L519957-03	WG540034
2-Methylnaphthalene	mg/kg	0.0217	0.0257	65.8	18-125	16.8	29	L519957-03	WG540034
Acenaphthene	mg/kg	0.0189	0.0225	57.1	31-120	17.7	30	L519957-03	WG540034
Acenaphthylene	mg/kg	0.0212	0.0250	64.1	34-116	16.5	29	L519957-03	WG540034
Anthracene	mg/kg	0.0207	0.0231	62.6	32-131	11.1	26	L519957-03	WG540034

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June 17, 2011

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Analyte	Units	Matrix Spike MSD	Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzo(a)anthracene	mg/kg	0.0201	0.0290	32.4	32-131	36.4*	31	L519957-03	WG540034
Benzo(a)pyrene	mg/kg	0.0204	0.0248	61.8	28-130	19.7	28	L519957-03	WG540034
Benzo(b)fluoranthene	mg/kg	0.0252	0.0311	46.5	37-130	20.9	41	L519957-03	WG540034
Benzo(g,h,i)perylene	mg/kg	0.0152	0.0221	46.0	10-134	37.2*	26	L519957-03	WG540034
Benzo(k)fluoranthene	mg/kg	0.0205	0.0254	62.1	31-129	21.5	42	L519957-03	WG540034
Chrysene	mg/kg	0.0212	0.0242	64.3	25-137	13.0	22	L519957-03	WG540034
Dibenz(a,h)anthracene	mg/kg	0.0149	0.0176	45.2	20-134	16.5	25	L519957-03	WG540034
Fluoranthene	mg/kg	0.0217	0.0268	65.6	27-138	21.3	35	L519957-03	WG540034
Fluorene	mg/kg	0.0198	0.0254	60.0	26-136	24.7	30	L519957-03	WG540034
Indeno(1,2,3-cd)pyrene	mg/kg	0.0144	0.0181	43.5	16-135	22.9	26	L519957-03	WG540034
Naphthalene	mg/kg	0.0225	0.0251	68.2	22-121	10.8	30	L519957-03	WG540034
Phenanthrene	mg/kg	0.0234	0.0279	71.0	27-133	17.4	36	L519957-03	WG540034
Pyrene	mg/kg	0.0244	0.0293	74.0	22-133	18.2	33	L519957-03	WG540034
2-Fluorobiphenyl				53.94	33-114				WG540034
Nitrobenzene-d5				71.42	21-120				WG540034
p-Terphenyl-d14				55.27	18-142				WG540034
Chromium,Hexavalent	mg/kg	0	0	0*	50-150	0	20	L520219-01	WG540021

Batch number /Run number / Sample number cross reference

WG539516: R1717549: L519789-01 02
WG539511: R1717552: L519789-01 03 04 05
WG539698: R1718129: L519789-01 02 03 04 05
WG539593: R1719159: L519789-01 02 03 04 05
WG539585: R1719396: L519789-01 02 03 04 05
WG539694: R1719950: L519789-01 02
WG539845: R1719951: L519789-03 04 05
WG539889: R1720869: L519789-01 02 03 04 05
WG540034: R1721270: L519789-04 05
WG539525: R1721352: L519789-01 02 03 04 05
WG539676: R1721449: L519789-02
WG540243: R1721910: L519789-02
WG540012: R1722889: L519789-01 02 03 04 05
WG540230: R1724289: L519789-03 04 05
WG540021: R1724574: L519789-01 02 03 04 05

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Chris Hines
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L519789

June 17, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Tuesday July 26, 2011

Report Number: L527322
Samples Received: 07/22/11
Client Project: G08

Description: G08 PitX

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: Darren D. Reeder

Darren Reeder , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

July 26, 2011

ESC Sample # : L527322-01

Date Received : July 22, 2011
Description : G08 PitX

Site ID : G08

Sample ID : G08-PITX-EP-WB-072111

Project # : G08

Collected By : Brennan Graff
Collection Date : 07/21/11 11:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/22/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/22/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	85.1		% Rec.	8021/8015	07/22/11	5
a,a,a-Trifluorotoluene(PID)	96.8		% Rec.	8021/8015	07/22/11	5
TPH (GC/FID) High Fraction	2100	80.	mg/kg	3546/DRO	07/25/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/25/11	20

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: 07/26/11 16:36 Printed: 07/26/11 16:43

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REPORT OF ANALYSIS

Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

July 26, 2011

ESC Sample # : L527322-03

Date Received : July 22, 2011
Description : G08 PitX

Site ID : G08

Sample ID : G08-PITX-EP-EB-072111

Project # : G08

Collected By : Brennan Graff
Collection Date : 07/21/11 11:46

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/22/11	5
TPH (GC/FID) Low Fraction	1.5	0.50	mg/kg	GRO	07/22/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	85.4		% Rec.	8021/8015	07/22/11	5
a,a,a-Trifluorotoluene(PID)	97.0		% Rec.	8021/8015	07/22/11	5
TPH (GC/FID) High Fraction	2700	80.	mg/kg	3546/DRO	07/25/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/25/11	20

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: 07/26/11 16:36 Printed: 07/26/11 16:43

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REPORT OF ANALYSIS

Chris Hines / Jake Harris
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2717 County Road 215, Suite 100
Parachute, CO 81635

July 26, 2011

ESC Sample # : L527322-04

Date Received : July 22, 2011
Description : G08 PitX

Site ID : G08

Sample ID : G08-PITX-EP-NEW-072111

Project # : G08

Collected By : Brennan Graff
Collection Date : 07/21/11 11:48

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/22/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/22/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	84.3		% Rec.	8021/8015	07/22/11	5
a,a,a-Trifluorotoluene(PID)	96.2		% Rec.	8021/8015	07/22/11	5
TPH (GC/FID) High Fraction	56.	20.	mg/kg	3546/DRO	07/26/11	5
Surrogate recovery(%)						
o-Terphenyl	60.4		% Rec.	3546/DRO	07/26/11	5

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: 07/26/11 16:36 Printed: 07/26/11 16:43

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REPORT OF ANALYSIS

Chris Hines / Jake Harris
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Parachute, CO 81635

July 26, 2011

ESC Sample # : L527322-05

Date Received : July 22, 2011
Description : G08 PitX

Site ID : G08

Sample ID : G08-PITX-WP-EB-072111

Project # : G08

Collected By : Brennan Graff
Collection Date : 07/21/11 11:51

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/22/11	5
TPH (GC/FID) Low Fraction	1.1	0.50	mg/kg	GRO	07/22/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	85.0		% Rec.	8021/8015	07/22/11	5
a,a,a-Trifluorotoluene(PID)	97.0		% Rec.	8021/8015	07/22/11	5
TPH (GC/FID) High Fraction	3600	200	mg/kg	3546/DRO	07/26/11	50
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/26/11	50

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: 07/26/11 16:36 Printed: 07/26/11 16:43

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REPORT OF ANALYSIS

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July 26, 2011

ESC Sample # : L527322-06

Date Received : July 22, 2011
Description : G08 PitX

Site ID : G08

Sample ID : G08-PITX-WP-NW-072111

Project # : G08

Collected By : Brennan Graff
Collection Date : 07/21/11 11:57

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/22/11	5
TPH (GC/FID) Low Fraction	0.95	0.50	mg/kg	GRO	07/22/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	85.6		% Rec.	8021/8015	07/22/11	5
a,a,a-Trifluorotoluene(PID)	97.0		% Rec.	8021/8015	07/22/11	5
TPH (GC/FID) High Fraction	190	20.	mg/kg	3546/DRO	07/26/11	5
Surrogate recovery(%)						
o-Terphenyl	136.		% Rec.	3546/DRO	07/26/11	5

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: 07/26/11 16:36 Printed: 07/26/11 16:43

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REPORT OF ANALYSIS

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July 26, 2011

ESC Sample # : L527322-07

Date Received : July 22, 2011
Description : G08 PitX

Site ID : G08

Sample ID : G08-PITX-WP-WB-072111

Project # : G08

Collected By : Brennan Graff
Collection Date : 07/21/11 11:58

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/22/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/22/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	85.3		% Rec.	8021/8015	07/22/11	5
a,a,a-Trifluorotoluene(PID)	97.4		% Rec.	8021/8015	07/22/11	5
TPH (GC/FID) High Fraction	600	80.	mg/kg	3546/DRO	07/25/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/25/11	20

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: 07/26/11 16:36 Printed: 07/26/11 16:43

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REPORT OF ANALYSIS

Chris Hines / Jake Harris
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Parachute, CO 81635

July 26, 2011

ESC Sample # : L527322-08

Date Received : July 22, 2011
Description : G08 PitX

Site ID : G08

Sample ID : G08-PITX-WP-WW-072111

Project # : G08

Collected By : Brennan Graff
Collection Date : 07/21/11 12:01

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/24/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	07/24/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	103.		% Rec.	8021/8015	07/24/11	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	07/24/11	5
TPH (GC/FID) High Fraction	2000	80.	mg/kg	3546/DRO	07/25/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/25/11	20

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: 07/26/11 16:36 Printed: 07/26/11 16:43

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L527322-01	WG547055	SAMP	o-Terphenyl	R1781970	J7
L527322-03	WG547055	SAMP	o-Terphenyl	R1781970	J7
L527322-04	WG546912	SAMP	TPH (GC/FID) Low Fraction	R1779390	J6
L527322-05	WG547369	SAMP	o-Terphenyl	R1784290	J7
L527322-07	WG547176	SAMP	o-Terphenyl	R1782192	J7
L527322-08	WG547055	SAMP	o-Terphenyl	R1781970	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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
07/26/11 at 16:43:53

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L527322-01 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 07/26/11 00:00 RPT Date: 07/26/11 16:36

Sample: L527322-03 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 07/26/11 00:00 RPT Date: 07/26/11 16:36

Sample: L527322-04 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 07/26/11 00:00 RPT Date: 07/26/11 16:36

Sample: L527322-05 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 07/26/11 00:00 RPT Date: 07/26/11 16:36

Sample: L527322-06 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 07/26/11 00:00 RPT Date: 07/26/11 16:36

Sample: L527322-07 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 07/26/11 00:00 RPT Date: 07/26/11 16:36

Sample: L527322-08 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 07/26/11 00:00 RPT Date: 07/26/11 16:36

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EnCana Oil & Gas Inc. - CO
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2717 County Road 215, Suite 100
Parachute, CO 81635

Quality Assurance Report
Level II

L527322

July 26, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG546912	07/22/11 17:56
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG546912	07/22/11 17:56
a,a,a-Trifluorotoluene(FID)		% Rec.	85.96	59-128	WG546912	07/22/11 17:56
a,a,a-Trifluorotoluene(PID)		% Rec.	97.65	54-144	WG546912	07/22/11 17:56
Benzene	< .0005	mg/kg			WG547042	07/24/11 02:22
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG547042	07/24/11 02:22
a,a,a-Trifluorotoluene(FID)		% Rec.	105.0	59-128	WG547042	07/24/11 02:22
a,a,a-Trifluorotoluene(PID)		% Rec.	103.0	54-144	WG547042	07/24/11 02:22
TPH (GC/FID) High Fraction	< 4	ppm			WG547055	07/24/11 06:04
o-Terphenyl		% Rec.	71.14	50-150	WG547055	07/24/11 06:04
TPH (GC/FID) High Fraction	< 4	ppm			WG547176	07/25/11 09:11
o-Terphenyl		% Rec.	78.38	50-150	WG547176	07/25/11 09:11
TPH (GC/FID) High Fraction	< 4	ppm			WG547369	07/26/11 10:01
o-Terphenyl		% Rec.	74.59	50-150	WG547369	07/26/11 10:01

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0429	85.9	76-113	WG546912
a,a,a-Trifluorotoluene(FID)				85.94	59-128	WG546912
a,a,a-Trifluorotoluene(PID)				97.22	54-144	WG546912
TPH (GC/FID) Low Fraction	mg/kg	5.5	4.85	88.2	67-135	WG546912
a,a,a-Trifluorotoluene(FID)				91.35	59-128	WG546912
a,a,a-Trifluorotoluene(PID)				105.5	54-144	WG546912
Benzene	mg/kg	.05	0.0489	97.7	76-113	WG547042
a,a,a-Trifluorotoluene(FID)				103.7	59-128	WG547042
a,a,a-Trifluorotoluene(PID)				99.67	54-144	WG547042
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.44	99.0	67-135	WG547042
a,a,a-Trifluorotoluene(FID)				106.4	59-128	WG547042
a,a,a-Trifluorotoluene(PID)				105.8	54-144	WG547042
TPH (GC/FID) High Fraction	ppm	60	50.1	83.5	50-150	WG547055
o-Terphenyl				68.47	50-150	WG547055
TPH (GC/FID) High Fraction	ppm	60	55.6	92.7	50-150	WG547176
o-Terphenyl				74.57	50-150	WG547176
TPH (GC/FID) High Fraction	ppm	60	53.2	88.7	50-150	WG547369
o-Terphenyl				68.22	50-150	WG547369

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
TPH (GC/FID) Low Fraction	mg/kg	4.96	4.85	90.0	67-135	2.28	20	WG546912
a,a,a-Trifluorotoluene(FID)				92.18	59-128			WG546912
a,a,a-Trifluorotoluene(PID)				106.4	54-144			WG546912

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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EnCana Oil & Gas Inc. - CO
Chris Hines / Jake Harris
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L527322

July 26, 2011

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0503	0.0429	100.	76-113	15.8	20	WG546912
a,a,a-Trifluorotoluene(FID)				85.95	59-128			WG546912
a,a,a-Trifluorotoluene(PID)				96.41	54-144			WG546912
Benzene	mg/kg	0.0505	0.0489	101.	76-113	3.31	20	WG547042
a,a,a-Trifluorotoluene(FID)				104.5	59-128			WG547042
a,a,a-Trifluorotoluene(PID)				100.3	54-144			WG547042
TPH (GC/FID) Low Fraction	mg/kg	5.43	5.44	99.0	67-135	0.230	20	WG547042
a,a,a-Trifluorotoluene(FID)				106.1	59-128			WG547042
a,a,a-Trifluorotoluene(PID)				105.5	54-144			WG547042
TPH (GC/FID) High Fraction	ppm	50.8	50.1	85.0	50-150	1.50	25	WG547055
o-Terphenyl				65.45	50-150			WG547055
TPH (GC/FID) High Fraction	ppm	57.3	55.6	95.0	50-150	2.97	20	WG547176
o-Terphenyl				75.90	50-150			WG547176
TPH (GC/FID) High Fraction	ppm	54.9	53.2	91.0	50-150	3.13	25	WG547369
o-Terphenyl				67.79	50-150			WG547369

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/kg	0.224	0	.05	89.4	32-137	L527322-04	WG546912
a,a,a-Trifluorotoluene(FID)					84.21	59-128		WG546912
a,a,a-Trifluorotoluene(PID)					95.28	54-144		WG546912
TPH (GC/FID) Low Fraction	mg/kg	14.7	0	5.5	53.5*	55-109	L527322-04	WG546912
a,a,a-Trifluorotoluene(FID)					87.95	59-128		WG546912
a,a,a-Trifluorotoluene(PID)					100.1	54-144		WG546912
Benzene	mg/kg	0.250	0	.05	100.	32-137	L527490-01	WG547042
a,a,a-Trifluorotoluene(FID)					104.4	59-128		WG547042
a,a,a-Trifluorotoluene(PID)					100.6	54-144		WG547042
TPH (GC/FID) Low Fraction	mg/kg	22.0	0	5.5	79.8	55-109	L527490-01	WG547042
a,a,a-Trifluorotoluene(FID)					101.0	59-128		WG547042
a,a,a-Trifluorotoluene(PID)					105.2	54-144		WG547042
TPH (GC/FID) High Fraction	ppm	76.2	0	60	127.	50-150	L526978-02	WG547176
o-Terphenyl					62.64	50-150		WG547176
TPH (GC/FID) High Fraction	ppm	49.7	3.00	60	77.8	50-150	L527007-06	WG547369
o-Terphenyl					57.88	50-150		WG547369

Matrix Spike Duplicate

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.210	0.224	84.0	32-137	6.31	39	L527322-04	WG546912
a,a,a-Trifluorotoluene(FID)				85.22	59-128				WG546912
a,a,a-Trifluorotoluene(PID)				96.30	54-144				WG546912
TPH (GC/FID) Low Fraction	mg/kg	15.4	14.7	55.8	55-109	4.22	20	L527322-04	WG546912
a,a,a-Trifluorotoluene(FID)				88.43	59-128				WG546912
a,a,a-Trifluorotoluene(PID)				100.3	54-144				WG546912

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Parachute, CO 81635

Quality Assurance Report
Level II

L527322

July 26, 2011

Analyte	Units	Matrix Spike MSD	Matrix Spike Ref	Duplicate %Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.261	0.250	104.	32-137	3.97	39	L527490-01	WG547042
a,a,a-Trifluorotoluene(FID)				105.0	59-128				WG547042
a,a,a-Trifluorotoluene(PID)				100.7	54-144				WG547042
TPH (GC/FID) Low Fraction	mg/kg	21.8	22.0	79.4	55-109	0.490	20	L527490-01	WG547042
a,a,a-Trifluorotoluene(FID)				100.2	59-128				WG547042
a,a,a-Trifluorotoluene(PID)				104.9	54-144				WG547042
TPH (GC/FID) High Fraction	ppm	45.1	76.2	75.1	50-150	51.3*	20	L526978-02	WG547176
o-Terphenyl				52.18	50-150				WG547176
TPH (GC/FID) High Fraction	ppm	48.6	49.7	76.1	50-150	2.14	25	L527007-06	WG547369
o-Terphenyl				63.45	50-150				WG547369

Batch number /Run number / Sample number cross reference

WG546912: R1779390: L527322-01 03 04 05 06 07
WG547042: R1779450: L527322-08
WG547055: R1781970: L527322-01 03 08
WG547176: R1782192: L527322-07
WG547369: R1784290: L527322-04 05 06

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L527322

July 26, 2011

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Parachute, CO 81635

Report Summary

Tuesday July 26, 2011

Report Number: L527323
Samples Received: 07/22/11
Client Project: G08

Description: G08 Pit X

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: Darren D. Reeder

Darren Reeder , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

July 26, 2011

ESC Sample # : L527323-01

Date Received : July 22, 2011
Description : G08 Pit X

Site ID : G08

Sample ID : G08-PITX-MOI-072111

Project # : G08

Collected By : Brennen Graff
Collection Date : 07/21/11 12:43

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	07/24/11	5
TPH (GC/FID) Low Fraction	1.3	0.50	mg/kg	GRO	07/24/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	103.		% Rec.	8021/8015	07/24/11	5
a,a,a-Trifluorotoluene(PID)	100.		% Rec.	8021/8015	07/24/11	5
TPH (GC/FID) High Fraction	1600	80.	mg/kg	3546/DRO	07/25/11	20
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	07/25/11	20

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

.
Reported: 07/26/11 20:44 Printed: 07/26/11 20:45

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L527323-01	WG547055	SAMP	o-Terphenyl	R1781970	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out

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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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
07/26/11 at 20:45:16

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L527323-01 Account: ENCANACO Received: 07/22/11 09:00 Due Date: 07/26/11 00:00 RPT Date: 07/26/11 20:44

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Quality Assurance Report
Level II

L527323

July 26, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Benzene	< .0005	mg/kg			WG547042	07/24/11 02:22
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG547042	07/24/11 02:22
a,a,a-Trifluorotoluene(FID)		% Rec.	105.0	59-128	WG547042	07/24/11 02:22
a,a,a-Trifluorotoluene(PID)		% Rec.	103.0	54-144	WG547042	07/24/11 02:22
TPH (GC/FID) High Fraction	< 4	ppm			WG547055	07/24/11 06:04
o-Terphenyl		% Rec.	71.14	50-150	WG547055	07/24/11 06:04

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Benzene	mg/kg	.05	0.0489	97.7	76-113	WG547042
a,a,a-Trifluorotoluene(FID)				103.7	59-128	WG547042
a,a,a-Trifluorotoluene(PID)				99.67	54-144	WG547042
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.44	99.0	67-135	WG547042
a,a,a-Trifluorotoluene(FID)				106.4	59-128	WG547042
a,a,a-Trifluorotoluene(PID)				105.8	54-144	WG547042
TPH (GC/FID) High Fraction	ppm	60	50.1	83.5	50-150	WG547055
o-Terphenyl				68.47	50-150	WG547055

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0505	0.0489	101.	76-113	3.31	20	WG547042
a,a,a-Trifluorotoluene(FID)				104.5	59-128			WG547042
a,a,a-Trifluorotoluene(PID)				100.3	54-144			WG547042
TPH (GC/FID) Low Fraction	mg/kg	5.43	5.44	99.0	67-135	0.230	20	WG547042
a,a,a-Trifluorotoluene(FID)				106.1	59-128			WG547042
a,a,a-Trifluorotoluene(PID)				105.5	54-144			WG547042
TPH (GC/FID) High Fraction	ppm	50.8	50.1	85.0	50-150	1.50	25	WG547055
o-Terphenyl				65.45	50-150			WG547055

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/kg	0.250	0	.05	100.	32-137	L527490-01	WG547042
a,a,a-Trifluorotoluene(FID)					104.4	59-128		WG547042
a,a,a-Trifluorotoluene(PID)					100.6	54-144		WG547042
TPH (GC/FID) Low Fraction	mg/kg	22.0	0	5.5	79.8	55-109	L527490-01	WG547042
a,a,a-Trifluorotoluene(FID)					101.0	59-128		WG547042
a,a,a-Trifluorotoluene(PID)					105.2	54-144		WG547042

Matrix Spike Duplicate

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.261	0.250	104.	32-137	3.97	39	L527490-01	WG547042
a,a,a-Trifluorotoluene(FID)				105.0	59-128				WG547042
a,a,a-Trifluorotoluene(PID)				100.7	54-144				WG547042
TPH (GC/FID) Low Fraction	mg/kg	21.8	22.0	79.4	55-109	0.490	20	L527490-01	WG547042
a,a,a-Trifluorotoluene(FID)				100.2	59-128				WG547042
a,a,a-Trifluorotoluene(PID)				104.9	54-144				WG547042

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L527323

July 26, 2011

Batch number /Run number / Sample number cross reference

WG547042: R1779450: L527323-01
WG547055: R1781970: L527323-01

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Level II

L527323

July 26, 2011

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Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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Report Summary

Friday August 12, 2011

Report Number: L530207
Samples Received: 08/10/11
Client Project:

Description: G08 Pit Closure

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: Jarred Willis

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002,NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.
Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Chris Hines / Jake Harris
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

August 12, 2011

ESC Sample # : L530207-01

Date Received : August 10, 2011
Description : G08 Pit Closure

Site ID : G08

Sample ID : G08-PITX-SPOIL-080911 4-6IN

Project # :

Collected By : Brennen Graff
Collection Date : 08/09/11 10:47

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	8015D/GRO	08/10/11	5
Surrogate Recovery (70-130)						
a,a,a-Trifluorotoluene(FID)	96.6		% Rec.	602/8015	08/10/11	5
TPH (GC/FID) High Fraction	280	4.0	mg/kg	3546/DRO	08/11/11	1
Surrogate recovery(%)						
o-Terphenyl	22.9		% Rec.	3546/DRO	08/11/11	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: 08/12/11 16:11 Printed: 08/12/11 16:11
L530207-01 (DRO) - Second extraction also had low SURR recovery. Matrix effect.

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L530207-01	WG549763	SAMP	o-Terphenyl	R1811890	J2

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits

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 Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography 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
08/12/11 at 16:11:58

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L530207-01 Account: ENCANACO Received: 08/10/11 09:00 Due Date: 08/12/11 00:00 RPT Date: 08/12/11 16:11

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Tax I.D. 62-0814289

Est. 1970

EnCana Oil & Gas Inc. - CO
Chris Hines / Jake Harris
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L530207

August 12, 2011

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG549816	08/10/11 15:34
a,a,a-Trifluorotoluene(FID)		% Rec.	98.13	59-128	WG549816	08/10/11 15:34
TPH (GC/FID) High Fraction	< 4	ppm			WG549763	08/11/11 15:43
o-Terphenyl		% Rec.	65.13	50-150	WG549763	08/11/11 15:43

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.45	99.1	67-135	WG549816
a,a,a-Trifluorotoluene(FID)				105.0	59-128	WG549816
TPH (GC/FID) High Fraction	ppm	60	47.6	79.3	50-150	WG549763
o-Terphenyl				72.80	50-150	WG549763

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
TPH (GC/FID) Low Fraction	mg/kg	5.99	5.45	109.	67-135	9.39	20	WG549816
a,a,a-Trifluorotoluene(FID)				105.6	59-128			WG549816
TPH (GC/FID) High Fraction	ppm	49.4	47.6	82.0	50-150	3.87	25	WG549763
o-Terphenyl				74.82	50-150			WG549763

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	mg/kg	24.6	0	5.5	89.5	55-109	L530126-01	WG549816
a,a,a-Trifluorotoluene(FID)					101.6	59-128		WG549816
TPH (GC/FID) High Fraction	ppm	40.5	0	60	67.4	50-150	L529828-01	WG549763
o-Terphenyl					61.16	50-150		WG549763

Matrix Spike Duplicate

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	mg/kg	22.4	24.6	81.6	55-109	9.21	20	L530126-01	WG549816
a,a,a-Trifluorotoluene(FID)				100.1	59-128				WG549816
TPH (GC/FID) High Fraction	ppm	45.0	40.5	74.9	50-150	10.5	25	L529828-01	WG549763
o-Terphenyl				68.29	50-150				WG549763

Batch number /Run number / Sample number cross reference

WG549816: R1810457: L530207-01
WG549763: R1811890: L530207-01

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.