

				Analytes (BDL = Below Detection Limit; ND = Non Detect)																																		
Allowable Concentration -->				Organic Compounds in Soil (mg/kg [ppm])																	Inorganics in Soil			Metals in Soil (mg/kg [ppm])														
Location	Sample Date:	Sample Matrix	Matrix Notes	500	TPH-GRO (C6-C10) Low Fraction	TPH-DRO (C10-C36) High Fraction	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	
				TPH (total volatile and extractable petroleum hydrocarbons)			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	Naphthalene	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
K22NW	06/21/10	Cuttings		181.8	4.8	177	0.0025	0.0041	ND	0.0029	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.035	ND	0.062	ND	0.32	1.4	9.28	4.8	ND	0.045	14	ND	13	7.3	0.017	11	ND	ND	33

ANALYTICAL REPORT

Job Number: 280-4717-2

Job Description: K22NW CUTTINGS CLEARANCE - 062110

For:
EnCana Oil & Gas, Inc. (USA)
2717 County Road 215
Suite 100
Parachute, CO 81635
Attention: Chris Hines



Approved for release.
Lori A Parsons
Project Manager I
7/9/2010 12:03 PM

Lori A Parsons
Project Manager I
lori.parsons@testamericainc.com
07/09/2010

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

The Lab Certification ID# is E87667.

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

TestAmerica Laboratories, Inc.

TestAmerica Denver 4955 Yarrow Street, Arvada, CO 80002
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CASE NARRATIVE

Client: EnCana Oil & Gas, Inc. (USA)

Project: K22NW CUTTINGS CLEARANCE - 062110

Report Number: 280-4717-2

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

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

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

RECEIPT

The samples were received on 06/23/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 degrees C

The hexavalent chromium analyses were performed by TestAmerica Chicago and the results have been included in the report. Chicago Laboratory: 2417 Bond Street; University Park, IL 60484; Phone: 708.534.5200.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 06/28/2010.

No difficulties were encountered during the VOC analyses.

All quality control parameters were within the acceptance limits.

SEMIVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 06/24/2010 and analyzed on 06/30/2010.

No difficulties were encountered during the SVOC analyses.

All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 07/02/2010.

Gasoline Range Organics (GRO)-C6-C10 was detected in method blank MB 280-21419/3-A at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the GRO analyses.

All other quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS

Samples K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for diesel range organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 06/24/2010 and analyzed on 06/26/2010.

The MS/MSD associated with analytical batch 21047 was performed on an unrelated sample and exhibited an RPD value above the control limits for C10-C22. The MS/MSD percent recoveries were in control and the LCS analyses data indicated the analytical system was within control; therefore corrective action was deemed unnecessary.

No other difficulties were encountered during the DRO analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS

Samples K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 06/28/2010 and analyzed on 06/30/2010.

Barium and Chromium were detected in method blank MB 280-20576/1-A at levels that were above the method detection limit but below the reporting limit. The samples were either non-detect or the detection was greater than 10X the detections in the Method Blank. The values should be considered estimates, and have been flagged "J". If the associated sample reported a result above the MDL and/or RL, the result has been "B" flagged.

No other difficulties were encountered during the metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS - ARSENIC

Samples K22NW-SWBACK-062110 (280-4717-4), K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 06/28/2010 and analyzed on 07/02/2010.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared on 06/28/2010 and analyzed on 06/29/2010.

No difficulties were encountered during the mercury analyses.

All quality control parameters were within the acceptance limits.

SODIUM ABSORPTION RATIO

Samples K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for Sodium Absorption Ratio in accordance with USDA Handbook 60 - 20B. The samples were prepared on 06/29/2010 and analyzed on 07/01/2010.

No difficulties were encountered during the SAR analyses.

All quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were prepared and analyzed on 06/29/2010.

No difficulties were encountered during the hexavalent chromium analyses.

All quality control parameters were within the acceptance limits.

TRIVALENT CHROMIUM

Samples K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for Trivalent Chromium in accordance with SW-846 7196A_CR3. The samples were analyzed on 07/08/2010.

No difficulties were encountered during the trivalent chromium analyses.

All quality control parameters were within the acceptance limits.

PH

Samples K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for pH in accordance with EPA SW-846 Method 9045C. The samples were leached on 06/26/2010 and analyzed on 06/26/2010.

No difficulties were encountered during the pH analyses.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTANCE

Samples K22NW-SWBACK-062110 (280-4717-5) and K22NW-CUTTINGS-062110 (280-4717-6) were analyzed for specific conductance in accordance with EPA SW-846 9050A. The samples were leached on 06/25/2010 and analyzed on 06/28/2010.

No difficulties were encountered during the conductivity analyses.

All quality control parameters were within the acceptance limits.

EXECUTIVE SUMMARY - Detections

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-4717-4	K22NW-SEBACK-062110				
Arsenic		4.1	0.55	mg/Kg	6020
280-4717-5	K22NW-SWBACK-062110				
Toluene		0.00083 J	0.0047	mg/Kg	8260B
C22-C36		5.6 J	12	mg/Kg	8015D
Barium		370 B	0.87	mg/Kg	6010B
Cadmium		0.23 J	0.43	mg/Kg	6010B
Chromium		9.2 B	1.3	mg/Kg	6010B
Copper		7.8	1.7	mg/Kg	6010B
Lead		3.7	0.70	mg/Kg	6010B
Nickel		8.1	3.5	mg/Kg	6010B
Zinc		18	2.6	mg/Kg	6010B
Arsenic		8.1	0.54	mg/Kg	6020
Mercury		0.022	0.016	mg/Kg	7471A
Cr (III)		9.1	2.0	mg/Kg	7196A
Chromium, hexavalent		0.13	0.096	mg/Kg	7196A
<i>Soluble</i>					
Sodium Adsorption Ratio		0.62	0.12	No Unit	20B
pH adj. to 25 deg C-Soluble		9.47	0.0100	SU	9045C
Specific Conductance-Soluble		190	2.0	umhos/cm	9050A

EXECUTIVE SUMMARY - Detections

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier		Reporting Limit	Units	Method
280-4717-6	K22NW-CUTTINGS-062110					
Benzene		0.0025	J	0.0046	mg/Kg	8260B
Toluene		0.0041	J	0.0046	mg/Kg	8260B
Xylenes, Total		0.0029	J	0.0046	mg/Kg	8260B
Fluorene		0.035	J	0.33	mg/Kg	8270C
Naphthalene		0.062	J	0.33	mg/Kg	8270C
Gasoline Range Organics (GRO)-C6-C10		4.8	B	1.2	mg/Kg	8015B
C10-C22		92		4.0	mg/Kg	8015D
C22-C36		85		12	mg/Kg	8015D
Cadmium		0.045	J	0.45	mg/Kg	6010B
Chromium		14	B	1.4	mg/Kg	6010B
Copper		13		1.8	mg/Kg	6010B
Lead		7.3		0.73	mg/Kg	6010B
Nickel		11		3.6	mg/Kg	6010B
Zinc		33		2.7	mg/Kg	6010B
Arsenic		4.8		0.56	mg/Kg	6020
Mercury		0.017		0.015	mg/Kg	7471A
Cr (III)		14		2.0	mg/Kg	7196A
<i>Soluble</i>						
Sodium Adsorption Ratio		1.4		0.12	No Unit	20B
pH adj. to 25 deg C-Soluble		9.28		0.0100	SU	9045C
Specific Conductance-Soluble		320		2.0	umhos/cm	9050A

METHOD SUMMARY

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Volatile Organic Compounds (GC/MS)	TAL DEN	SW846 8260B	
Purge and Trap	TAL DEN		SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)	TAL DEN	SW846 8270C	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Gasoline Range Organics - (GC)	TAL DEN	SW846 8015B	
Purge and Trap	TAL DEN		SW846 5030B
Diesel Range Organics (DRO)	TAL DEN	SW846 8015D	
Ultrasonic Extraction	TAL DEN		SW846 3550C
Sodium Adsorption Ratio	TAL DEN	USDA 20B	
Preparation, Sodium Absorption Ratio	TAL DEN		USDA 20B
RCRA Metals	TAL DEN	SW846 6010B	
Preparation, Metals	TAL DEN		SW846 3050B
Metals (ICP/MS)	TAL DEN	SW846 6020	
Preparation, Metals	TAL DEN		SW846 3050B
Mercury	TAL DEN	SW846 7471A	
Preparation, Mercury	TAL DEN		SW846 7471A
Chromium, Hexavalent	TAL CHI	SW846 7196A	
Anions, Ion Chromatography, 10% Wt/Vol	TAL CHI		MCAWW 300_Prep
Chromium, Trivalent (Colorimetric)	TAL DEN	SW846 7196A	
pH	TAL DEN	SW846 9045C	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach
Specific Conductance	TAL DEN	SW846 9050A	
Deionized Water Leaching Procedure	TAL DEN		ASTM DI Leach

Lab References:

TAL CHI = TestAmerica Chicago

TAL DEN = TestAmerica Denver

Method References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

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

METHOD / ANALYST SUMMARY

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method	Analyst	Analyst ID
SW846 8260B	Reinhardt, Jason	JR
SW846 8270C	Todea, Rwanda	RT
SW846 8015B	Moore, Tegan E	TEM
SW846 8015D	Birdsell, Matthew R	MRB
USDA 20B	Harre, John K	JKH
SW846 6010B	Harre, John K	JKH
SW846 6020	Lill, Thomas E	TEL
SW846 7471A	Stoltz, Katie	KS
SW846 7196A	Deb, Khona	KD
SW846 7196A	Gomer, Doug	DG
SW846 9045C	Kilker, Lorelei M	LMK
SW846 9050A	Derosia, Marcia R	MRD

SAMPLE SUMMARY

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-4717-4	K22NW-SEBACK-062110	Solid	06/21/2010 1555	06/23/2010 0945
280-4717-5	K22NW-SWBACK-062110	Solid	06/21/2010 1545	06/23/2010 0945
280-4717-6	K22NW-CUTTINGS-062110	Solid	06/21/2010 1620	06/23/2010 0945

SAMPLE RESULTS

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-SWBACK-062110

Lab Sample ID: 280-4717-5

Date Sampled: 06/21/2010 1545

Client Matrix: Solid

Date Received: 06/23/2010 0945

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-21024	Instrument ID:	MSV_J
Preparation:	5030B		Lab File ID:	J8810.D
Dilution:	1.0		Initial Weight/Volume:	5.37 g
Date Analyzed:	06/28/2010 1423		Final Weight/Volume:	5 mL
Date Prepared:	06/28/2010 1423			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Benzene		ND		0.00044	0.0047
Ethylbenzene		ND		0.00062	0.0047
Toluene		0.00083	J	0.00064	0.0047
Xylenes, Total		ND		0.00057	0.0047

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82		58 - 140
Toluene-d8 (Surr)	101		80 - 126
4-Bromofluorobenzene (Surr)	106		76 - 127
Dibromofluoromethane (Surr)	101		75 - 121

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-CUTTINGS-062110

Lab Sample ID: 280-4717-6

Date Sampled: 06/21/2010 1620

Client Matrix: Solid

Date Received: 06/23/2010 0945

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-21024	Instrument ID:	MSV_J
Preparation:	5030B		Lab File ID:	J8811.D
Dilution:	1.0		Initial Weight/Volume:	5.38 g
Date Analyzed:	06/28/2010 1445		Final Weight/Volume:	5 mL
Date Prepared:	06/28/2010 1445			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Benzene		0.0025	J	0.00044	0.0046
Ethylbenzene		ND		0.00062	0.0046
Toluene		0.0041	J	0.00064	0.0046
Xylenes, Total		0.0029	J	0.00057	0.0046

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	80		58 - 140
Toluene-d8 (Surr)	106		80 - 126
4-Bromofluorobenzene (Surr)	112		76 - 127
Dibromofluoromethane (Surr)	99		75 - 121

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-SWBACK-062110

Lab Sample ID: 280-4717-5

Date Sampled: 06/21/2010 1545

Client Matrix: Solid

Date Received: 06/23/2010 0945

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 280-21332	Instrument ID:	MSS_B
Preparation:	3550C	Prep Batch: 280-20560	Lab File ID:	B8592.D
Dilution:	1.0		Initial Weight/Volume:	30.4 g
Date Analyzed:	06/30/2010 0215		Final Weight/Volume:	1000 uL
Date Prepared:	06/24/2010 1910		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Pyrene		ND		0.012	0.33
Acenaphthene		ND		0.010	0.33
Anthracene		ND		0.017	0.33
Benzo[a]anthracene		ND		0.020	0.33
Benzo[b]fluoranthene		ND		0.026	0.33
Benzo[k]fluoranthene		ND		0.039	0.33
Benzo[a]pyrene		ND		0.020	0.33
Chrysene		ND		0.027	0.33
Dibenz(a,h)anthracene		ND		0.019	0.33
Fluoranthene		ND		0.036	0.33
Fluorene		ND		0.018	0.33
Indeno[1,2,3-cd]pyrene		ND		0.022	0.33
Naphthalene		ND		0.031	0.33

Surrogate	%Rec	Qualifier	Acceptance Limits
2-Fluorobiphenyl	66		50 - 120
Nitrobenzene-d5	70		50 - 120
Terphenyl-d14	82		55 - 120

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-CUTTINGS-062110

Lab Sample ID: 280-4717-6

Date Sampled: 06/21/2010 1620

Client Matrix: Solid

Date Received: 06/23/2010 0945

8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)

Method:	8270C	Analysis Batch: 280-21332	Instrument ID:	MSS_B
Preparation:	3550C	Prep Batch: 280-20560	Lab File ID:	B8593.D
Dilution:	1.0		Initial Weight/Volume:	30.4 g
Date Analyzed:	06/30/2010 0235		Final Weight/Volume:	1000 uL
Date Prepared:	06/24/2010 1910		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Pyrene		ND		0.012	0.33
Acenaphthene		ND		0.010	0.33
Anthracene		ND		0.017	0.33
Benzo[a]anthracene		ND		0.020	0.33
Benzo[b]fluoranthene		ND		0.026	0.33
Benzo[k]fluoranthene		ND		0.039	0.33
Benzo[a]pyrene		ND		0.020	0.33
Chrysene		ND		0.027	0.33
Dibenz(a,h)anthracene		ND		0.019	0.33
Fluoranthene		ND		0.036	0.33
Fluorene		0.035	J	0.018	0.33
Indeno[1,2,3-cd]pyrene		ND		0.022	0.33
Naphthalene		0.062	J	0.031	0.33
Surrogate		%Rec	Qualifier	Acceptance Limits	
2-Fluorobiphenyl		74		50 - 120	
Nitrobenzene-d5		72		50 - 120	
Terphenyl-d14		87		55 - 120	

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-SWBACK-062110

Lab Sample ID: 280-4717-5

Date Sampled: 06/21/2010 1545

Client Matrix: Solid

Date Received: 06/23/2010 0945

8015B Gasoline Range Organics - (GC)

Method:	8015B	Analysis Batch: 280-21741	Instrument ID:	GCV_B
Preparation:	5030B	Prep Batch: 280-21419	Initial Weight/Volume:	10.14 g
Dilution:	1.0		Final Weight/Volume:	500 mL
Date Analyzed:	07/02/2010 1752		Injection Volume:	5 mL
Date Prepared:	07/01/2010 1125		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10		ND		0.32	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	88		77 - 123

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-CUTTINGS-062110

Lab Sample ID: 280-4717-6

Date Sampled: 06/21/2010 1620

Client Matrix: Solid

Date Received: 06/23/2010 0945

8015B Gasoline Range Organics - (GC)

Method:	8015B	Analysis Batch: 280-21741	Instrument ID:	GCV_B
Preparation:	5030B	Prep Batch: 280-21419	Initial Weight/Volume:	10.12 g
Dilution:	1.0		Final Weight/Volume:	500 mL
Date Analyzed:	07/02/2010 1826		Injection Volume:	5 mL
Date Prepared:	07/01/2010 1125		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10		4.8	B	0.32	1.2

Surrogate	%Rec	Qualifier	Acceptance Limits
a,a,a-Trifluorotoluene	84		77 - 123

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-SWBACK-062110

Lab Sample ID: 280-4717-5

Date Sampled: 06/21/2010 1545

Client Matrix: Solid

Date Received: 06/23/2010 0945

8015D Diesel Range Organics (DRO)

Method:	8015D	Analysis Batch: 280-21047	Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-20523	Initial Weight/Volume:	30.1 g
Dilution:	1.0		Final Weight/Volume:	1000 uL
Date Analyzed:	06/26/2010 0819		Injection Volume:	1 uL
Date Prepared:	06/24/2010 1805		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
C10-C22		ND		0.99	4.0
C22-C36		5.6	J	3.9	12

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	62		49 - 115

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-CUTTINGS-062110

Lab Sample ID: 280-4717-6

Date Sampled: 06/21/2010 1620

Client Matrix: Solid

Date Received: 06/23/2010 0945

8015D Diesel Range Organics (DRO)

Method:	8015D	Analysis Batch: 280-21047	Instrument ID:	GCS_U
Preparation:	3550C	Prep Batch: 280-20523	Initial Weight/Volume:	30.0 g
Dilution:	1.0		Final Weight/Volume:	1000 uL
Date Analyzed:	06/26/2010 0943		Injection Volume:	1 uL
Date Prepared:	06/24/2010 1805		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
C10-C22		92		1.0	4.0
C22-C36		85		3.9	12

Surrogate	%Rec	Qualifier	Acceptance Limits
o-Terphenyl	71		49 - 115

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-SEBACK-062110

Lab Sample ID: 280-4717-4

Date Sampled: 06/21/2010 1555

Client Matrix: Solid

Date Received: 06/23/2010 0945

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 280-21772	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-20555	Lab File ID:	068SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.10 g
Date Analyzed:	07/02/2010 1536		Final Weight/Volume:	100 mL
Date Prepared:	06/28/2010 1400			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.1		0.046	0.55

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-SWBACK-062110

Lab Sample ID: 280-4717-5

Date Sampled: 06/21/2010 1545

Client Matrix: Solid

Date Received: 06/23/2010 0945

20B Sodium Adsorption Ratio-Soluble

Method:	20B	Analysis Batch: 280-21434	Instrument ID:	MT_025
Preparation:	20B	Prep Batch: 280-20554	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/01/2010 1216		Final Weight/Volume:	50 mL
Date Prepared:	06/29/2010 1700			

Analyte	DryWt Corrected: N	Result (No Unit)	Qualifier	RL	RL
Sodium Adsorption Ratio		0.62		0.12	0.12

6010B RCRA Metals

Method:	6010B	Analysis Batch: 280-21202	Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-20576	Lab File ID:	25A6062910.txt
Dilution:	1.0		Initial Weight/Volume:	1.15 g
Date Analyzed:	06/30/2010 0117		Final Weight/Volume:	100 mL
Date Prepared:	06/28/2010 1400			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Barium		370	B	0.066	0.87
Cadmium		0.23	J	0.036	0.43
Chromium		9.2	B	0.050	1.3
Copper		7.8		0.19	1.7
Lead		3.7		0.23	0.70
Nickel		8.1		0.11	3.5
Selenium		ND		0.75	1.1
Silver		ND		0.14	0.87
Zinc		18		0.35	2.6

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 280-21772	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-20555	Lab File ID:	069SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.12 g
Date Analyzed:	07/02/2010 1539		Final Weight/Volume:	100 mL
Date Prepared:	06/28/2010 1400			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		8.1		0.045	0.54

7471A Mercury

Method:	7471A	Analysis Batch: 280-21239	Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-20987	Lab File ID:	100629AA.txt
Dilution:	1.0		Initial Weight/Volume:	0.63 g
Date Analyzed:	06/29/2010 1359		Final Weight/Volume:	50 mL
Date Prepared:	06/28/2010 1637			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.022		0.0053	0.016

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-SWBACK-062110

Lab Sample ID: 280-4717-5

Date Sampled: 06/21/2010 1545

Client Matrix: Solid

Date Received: 06/23/2010 0945

7471A Mercury

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-CUTTINGS-062110

Lab Sample ID: 280-4717-6

Date Sampled: 06/21/2010 1620

Client Matrix: Solid

Date Received: 06/23/2010 0945

20B Sodium Adsorption Ratio-Soluble

Method:	20B	Analysis Batch: 280-21434	Instrument ID:	MT_025
Preparation:	20B	Prep Batch: 280-20554	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/01/2010 1216		Final Weight/Volume:	50 mL
Date Prepared:	06/29/2010 1700			

Analyte	DryWt Corrected: N	Result (No Unit)	Qualifier	RL	RL
Sodium Adsorption Ratio		1.4		0.12	0.12

6010B RCRA Metals

Method:	6010B	Analysis Batch: 280-21202	Instrument ID:	MT_025
Preparation:	3050B	Prep Batch: 280-20576	Lab File ID:	25A6062910.txt
Dilution:	1.0		Initial Weight/Volume:	1.10 g
Date Analyzed:	06/30/2010 0119		Final Weight/Volume:	100 mL
Date Prepared:	06/28/2010 1400			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Barium		ND		0.069	0.91
Cadmium		0.045	J	0.037	0.45
Chromium		14	B	0.053	1.4
Copper		13		0.20	1.8
Lead		7.3		0.25	0.73
Nickel		11		0.11	3.6
Selenium		ND		0.78	1.2
Silver		ND		0.15	0.91
Zinc		33		0.36	2.7

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 280-21772	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-20555	Lab File ID:	070SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.07 g
Date Analyzed:	07/02/2010 1542		Final Weight/Volume:	100 mL
Date Prepared:	06/28/2010 1400			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.8		0.047	0.56

7471A Mercury

Method:	7471A	Analysis Batch: 280-21239	Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-20987	Lab File ID:	100629AA.txt
Dilution:	1.0		Initial Weight/Volume:	0.66 g
Date Analyzed:	06/29/2010 1401		Final Weight/Volume:	50 mL
Date Prepared:	06/28/2010 1637			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.017		0.0050	0.015

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Client Sample ID: K22NW-CUTTINGS-062110

Lab Sample ID: 280-4717-6

Date Sampled: 06/21/2010 1620

Client Matrix: Solid

Date Received: 06/23/2010 0945

7471A Mercury

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

General Chemistry**Client Sample ID:** K22NW-SWBACK-062110

Lab Sample ID: 280-4717-5

Date Sampled: 06/21/2010 1545

Client Matrix: Solid

Date Received: 06/23/2010 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium, hexavalent	0.13		mg/Kg	0.019	0.096	1.0	7196A
Analysis Batch: 500-88767		Date Analyzed (Start): 06/29/2010 1230 (End) 06/29/2010 1230					DryWt Corrected: N
Prep Batch: 500-88756		Date Prepared: 06/29/2010 0945					

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Cr (III)	9.1		mg/Kg	2.0	2.0	1.0	7196A
Analysis Batch: 280-22131		Date Analyzed: 07/08/2010 0858					DryWt Corrected: N
pH adj. to 25 deg C-Soluble	9.47		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-20849		Date Analyzed: 06/26/2010 1049					DryWt Corrected: N
Specific Conductance-Soluble	190		umhos/cm	2.0	2.0	1.0	9050A
Analysis Batch: 280-21061		Date Analyzed: 06/28/2010 1621					DryWt Corrected: N

Analytical Data

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

General Chemistry**Client Sample ID:** K22NW-CUTTINGS-062110

Lab Sample ID: 280-4717-6

Date Sampled: 06/21/2010 1620

Client Matrix: Solid

Date Received: 06/23/2010 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium, hexavalent	ND		mg/Kg	0.019	0.093	1.0	7196A
Analysis Batch: 500-88767		Date Analyzed (Start): 06/29/2010 1232 (End) 06/29/2010 1233					DryWt Corrected: N
Prep Batch: 500-88756		Date Prepared: 06/29/2010 0945					

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Cr (III)	14		mg/Kg	2.0	2.0	1.0	7196A
Analysis Batch: 280-22131		Date Analyzed: 07/08/2010 0858					DryWt Corrected: N
pH adj. to 25 deg C-Soluble	9.28		SU	0.0100	0.0100	1.0	9045C
Analysis Batch: 280-20849		Date Analyzed: 06/26/2010 1051					DryWt Corrected: N
Specific Conductance-Soluble	320		umhos/cm	2.0	2.0	1.0	9050A
Analysis Batch: 280-21061		Date Analyzed: 06/28/2010 1621					DryWt Corrected: N

DATA REPORTING QUALIFIERS

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Lab Section	Qualifier	Description
GC/MS VOA	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC/MS Semi VOA	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC VOA	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
GC Semi VOA	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
	F	RPD of the MS and MSD exceeds the control limits
Metals	B	Compound was found in the blank and sample.
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

QUALITY CONTROL RESULTS

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Analysis Batch:280-21024					
LCS 280-21024/4	Lab Control Sample	T	Solid	8260B	
LCSD 280-21024/5	Lab Control Sample Duplicate	T	Solid	8260B	
MB 280-21024/6	Method Blank	T	Solid	8260B	
280-4717-5	K22NW-SWBACK-062110	T	Solid	8260B	
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	8260B	
280-4818-F-13 MS	Matrix Spike	T	Solid	8260B	
280-4818-F-13 MSD	Matrix Spike Duplicate	T	Solid	8260B	

Report Basis

T = Total

GC/MS Semi VOA

Prep Batch: 280-20560					
LCS 280-20560/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-20560/1-A	Method Blank	T	Solid	3550C	
280-4717-C-3-E MS	Matrix Spike	T	Solid	3550C	
280-4717-C-3-F MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-4717-5	K22NW-SWBACK-062110	T	Solid	3550C	
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	3550C	
Analysis Batch:280-21332					
LCS 280-20560/2-A	Lab Control Sample	T	Solid	8270C	280-20560
MB 280-20560/1-A	Method Blank	T	Solid	8270C	280-20560
280-4717-C-3-E MS	Matrix Spike	T	Solid	8270C	280-20560
280-4717-C-3-F MSD	Matrix Spike Duplicate	T	Solid	8270C	280-20560
280-4717-5	K22NW-SWBACK-062110	T	Solid	8270C	280-20560
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	8270C	280-20560

Report Basis

T = Total

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Prep Batch: 280-21419					
LCS 280-21419/1-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-21419/2-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-21419/3-A	Method Blank	T	Solid	5030B	
280-4717-5	K22NW-SWBACK-062110	T	Solid	5030B	
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	5030B	
280-4857-E-1-B MS	Matrix Spike	T	Solid	5030B	
280-4857-E-1-C MSD	Matrix Spike Duplicate	T	Solid	5030B	
Analysis Batch:280-21741					
LCS 280-21419/1-A	Lab Control Sample	T	Solid	8015B	280-21419
LCSD 280-21419/2-A	Lab Control Sample Duplicate	T	Solid	8015B	280-21419
MB 280-21419/3-A	Method Blank	T	Solid	8015B	280-21419
280-4717-5	K22NW-SWBACK-062110	T	Solid	8015B	280-21419
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	8015B	280-21419
280-4857-E-1-B MS	Matrix Spike	T	Solid	8015B	280-21419
280-4857-E-1-C MSD	Matrix Spike Duplicate	T	Solid	8015B	280-21419
Report Basis					
T = Total					
GC Semi VOA					
Prep Batch: 280-20523					
LCS 280-20523/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-20523/1-A	Method Blank	T	Solid	3550C	
280-4717-C-3-B MS	Matrix Spike	T	Solid	3550C	
280-4717-C-3-C MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-4717-5	K22NW-SWBACK-062110	T	Solid	3550C	
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	3550C	
Analysis Batch:280-21047					
LCS 280-20523/2-A	Lab Control Sample	T	Solid	8015D	280-20523
MB 280-20523/1-A	Method Blank	T	Solid	8015D	280-20523
280-4717-C-3-B MS	Matrix Spike	T	Solid	8015D	280-20523
280-4717-C-3-C MSD	Matrix Spike Duplicate	T	Solid	8015D	280-20523
280-4717-5	K22NW-SWBACK-062110	T	Solid	8015D	280-20523
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	8015D	280-20523
Report Basis					
T = Total					

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Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-20554					
MB 280-20554/1-A	Method Blank	S	Solid	20B	
280-4717-5	K22NW-SWBACK-062110	S	Solid	20B	
280-4717-6	K22NW-CUTTINGS-062110	S	Solid	20B	
Prep Batch: 280-20555					
LCS 280-20555/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-20555/1-A	Method Blank	T	Solid	3050B	
280-4717-A-1-B MS	Matrix Spike	T	Solid	3050B	
280-4717-A-1-C MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-4717-4	K22NW-SEBACK-062110	T	Solid	3050B	
280-4717-5	K22NW-SWBACK-062110	T	Solid	3050B	
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	3050B	
Prep Batch: 280-20576					
LCS 280-20576/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-20576/1-A	Method Blank	T	Solid	3050B	
280-4717-A-2-D MS	Matrix Spike	T	Solid	3050B	
280-4717-A-2-E MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-4717-5	K22NW-SWBACK-062110	T	Solid	3050B	
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	3050B	
Prep Batch: 280-20987					
LCS 280-20987/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-20987/1-A	Method Blank	T	Solid	7471A	
280-4717-5	K22NW-SWBACK-062110	T	Solid	7471A	
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	7471A	
280-4818-B-25-J MS	Matrix Spike	T	Solid	7471A	
280-4818-B-25-K MSD	Matrix Spike Duplicate	T	Solid	7471A	
Analysis Batch:280-21202					
LCS 280-20576/2-A	Lab Control Sample	T	Solid	6010B	280-20576
MB 280-20576/1-A	Method Blank	T	Solid	6010B	280-20576
280-4717-A-2-D MS	Matrix Spike	T	Solid	6010B	280-20576
280-4717-A-2-E MSD	Matrix Spike Duplicate	T	Solid	6010B	280-20576
280-4717-5	K22NW-SWBACK-062110	T	Solid	6010B	280-20576
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	6010B	280-20576
Analysis Batch:280-21239					
LCS 280-20987/2-A	Lab Control Sample	T	Solid	7471A	280-20987
MB 280-20987/1-A	Method Blank	T	Solid	7471A	280-20987
280-4717-5	K22NW-SWBACK-062110	T	Solid	7471A	280-20987
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	7471A	280-20987
280-4818-B-25-J MS	Matrix Spike	T	Solid	7471A	280-20987
280-4818-B-25-K MSD	Matrix Spike Duplicate	T	Solid	7471A	280-20987

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Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Analysis Batch:280-21434					
MB 280-20554/1-A	Method Blank	S	Solid	20B	280-20554
280-4717-5	K22NW-SWBACK-062110	S	Solid	20B	280-20554
280-4717-6	K22NW-CUTTINGS-062110	S	Solid	20B	280-20554
Analysis Batch:280-21772					
LCS 280-20555/2-A	Lab Control Sample	T	Solid	6020	280-20555
MB 280-20555/1-A	Method Blank	T	Solid	6020	280-20555
280-4717-A-1-B MS	Matrix Spike	T	Solid	6020	280-20555
280-4717-A-1-C MSD	Matrix Spike Duplicate	T	Solid	6020	280-20555
280-4717-4	K22NW-SEBACK-062110	T	Solid	6020	280-20555
280-4717-5	K22NW-SWBACK-062110	T	Solid	6020	280-20555
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	6020	280-20555

Report Basis

S = Soluble

T = Total

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-20811					
MB 280-20811/1-A	Method Blank	S	Solid	DI Leach	
280-4717-C-2-D DU	Duplicate	S	Solid	DI Leach	
280-4717-5	K22NW-SWBACK-062110	S	Solid	DI Leach	
280-4717-6	K22NW-CUTTINGS-062110	S	Solid	DI Leach	
Prep Batch: 280-20838					
280-4717-C-2-E DU	Duplicate	S	Solid	DI Leach	
280-4717-5	K22NW-SWBACK-062110	S	Solid	DI Leach	
280-4717-6	K22NW-CUTTINGS-062110	S	Solid	DI Leach	
Analysis Batch:280-20849					
LCS 280-20849/4	Lab Control Sample	T	Water	9045C	
LCSD 280-20849/5	Lab Control Sample Duplicate	T	Water	9045C	
280-4717-C-2-E DU	Duplicate	S	Solid	9045C	
280-4717-5	K22NW-SWBACK-062110	S	Solid	9045C	
280-4717-6	K22NW-CUTTINGS-062110	S	Solid	9045C	
Analysis Batch:280-21061					
LCS 280-21061/9	Lab Control Sample	T	Solid	9050A	
LCSD 280-21061/10	Lab Control Sample Duplicate	T	Solid	9050A	
MB 280-20811/1-A	Method Blank	S	Solid	9050A	
280-4717-C-2-D DU	Duplicate	S	Solid	9050A	
280-4717-5	K22NW-SWBACK-062110	S	Solid	9050A	
280-4717-6	K22NW-CUTTINGS-062110	S	Solid	9050A	
Analysis Batch:280-22131					
MB 280-22131/1	Method Blank	T	Solid	7196A	
280-4717-5	K22NW-SWBACK-062110	T	Solid	7196A	
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	7196A	
Prep Batch: 500-88756					
LCS 500-88756/2-A	Lab Control Sample	T	Solid	300_Prep	
MB 500-88756/1-A	Method Blank	T	Solid	300_Prep	
280-4717-5	K22NW-SWBACK-062110	T	Solid	300_Prep	
280-4717-5MS	Matrix Spike	T	Solid	300_Prep	
280-4717-5MSD	Matrix Spike Duplicate	T	Solid	300_Prep	
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	300_Prep	
Analysis Batch:500-88767					
LCS 500-88756/2-A	Lab Control Sample	T	Solid	7196A	500-88756
MB 500-88756/1-A	Method Blank	T	Solid	7196A	500-88756
280-4717-5	K22NW-SWBACK-062110	T	Solid	7196A	500-88756
280-4717-5MS	Matrix Spike	T	Solid	7196A	500-88756
280-4717-5MSD	Matrix Spike Duplicate	T	Solid	7196A	500-88756
280-4717-6	K22NW-CUTTINGS-062110	T	Solid	7196A	500-88756

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Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
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Report Basis

S = Soluble

T = Total

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

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

Lab Sample ID	Client Sample ID	DCA %Rec	TOL %Rec	BFB %Rec	DBFM %Rec
280-4717-5	K22NW-SWBACK-06 2110	82	101	106	101
280-4717-6	K22NW-CUTTINGS-0 62110	80	106	112	99
MB 280-21024/6		81	98	95	99
LCS 280-21024/4		81	101	92	93
LCSD 280-21024/5		83	104	93	97
280-4818-F-13 MS		87	107	103	97
280-4818-F-13 MSD		85	105	103	96

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	58-140
TOL = Toluene-d8 (Surr)	80-126
BFB = 4-Bromofluorobenzene (Surr)	76-127
DBFM = Dibromofluoromethane (Surr)	75-121

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Surrogate Recovery Report**8270C Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS)****Client Matrix: Solid**

Lab Sample ID	Client Sample ID	FBP %Rec	NBZ %Rec	TPH %Rec
280-4717-5	K22NW-SWBACK-06 2110	66	70	82
280-4717-6	K22NW-CUTTINGS-0 62110	74	72	87
MB 280-20560/1-A		72	73	81
LCS 280-20560/2-A		71	73	81
280-4717-C-3-E MS		72	69	91
280-4717-C-3-F MSD		73	72	88

Surrogate	Acceptance Limits
FBP = 2-Fluorobiphenyl	50-120
NBZ = Nitrobenzene-d5	50-120
TPH = Terphenyl-d14	55-120

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Surrogate Recovery Report

8015B Gasoline Range Organics - (GC)

Client Matrix: Solid

Lab Sample ID	Client Sample ID	TFT1 %Rec
280-4717-5	K22NW-SWBACK-06 2110	88
280-4717-6	K22NW-CUTTINGS-0 62110	84
MB 280-21419/3-A		90
LCS 280-21419/1-A		96
LCSD 280-21419/2-A		95
280-4857-E-1-B MS		96
280-4857-E-1-C MSD		94

Surrogate	Acceptance Limits
TFT = a,a,a-Trifluorotoluene	77-123

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Surrogate Recovery Report**8015D Diesel Range Organics (DRO)****Client Matrix: Solid**

Lab Sample ID	Client Sample ID	OTPH1 %Rec
280-4717-5	K22NW-SWBACK-06 2110	62
280-4717-6	K22NW-CUTTINGS-0 62110	71
MB 280-20523/1-A		65
LCS 280-20523/2-A		66
280-4717-C-3-B MS		74
280-4717-C-3-C MSD		89

Surrogate	Acceptance Limits
OTPH = o-Terphenyl	49-115

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method Blank - Batch: 280-21024

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 280-21024/6
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 0912
Date Prepared: 06/28/2010 0912

Analysis Batch: 280-21024
Prep Batch: N/A
Units: mg/Kg

Instrument ID: MSV_J
Lab File ID: J8796.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	Result	Qual	MDL	RL
Benzene	ND		0.00047	0.0050
Ethylbenzene	ND		0.00067	0.0050
Toluene	ND		0.00069	0.0050
Xylenes, Total	ND		0.00061	0.0050

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	81	58 - 140
Toluene-d8 (Surr)	98	80 - 126
4-Bromofluorobenzene (Surr)	95	76 - 127
Dibromofluoromethane (Surr)	99	75 - 121

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 280-21024**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 280-21024/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 0805
Date Prepared: 06/28/2010 0805

Analysis Batch: 280-21024
Prep Batch: N/A
Units: mg/Kg

Instrument ID: MSV_J
Lab File ID: J8793.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 280-21024/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 0827
Date Prepared: 06/28/2010 0827

Analysis Batch: 280-21024
Prep Batch: N/A
Units: mg/Kg

Instrument ID: MSV_J
Lab File ID: J8794.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	108	110	76 - 120	2	20		
Ethylbenzene	112	111	78 - 120	1	20		
Toluene	107	110	72 - 120	3	20		
Xylenes, Total	111	113	77 - 120	1	20		

Surrogate	LCS % Rec	LCSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	81	83	58 - 140
Toluene-d8 (Surr)	101	104	80 - 126
4-Bromofluorobenzene (Surr)	92	93	76 - 127
Dibromofluoromethane (Surr)	93	97	75 - 121

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-21024**

**Method: 8260B
Preparation: 5030B**

LCS Lab Sample ID: LCS 280-21024/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 0805
Date Prepared: 06/28/2010 0805

Units: mg/Kg

LCSD Lab Sample ID: LCSD 280-21024/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 0827
Date Prepared: 06/28/2010 0827

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	0.0500	0.0500	0.0542	0.0551
Ethylbenzene	0.0500	0.0500	0.0560	0.0554
Toluene	0.0500	0.0500	0.0534	0.0548
Xylenes, Total	0.150	0.150	0.167	0.169

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-21024

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-4818-F-13 MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 0956
Date Prepared: 06/28/2010 0956

Analysis Batch: 280-21024
Prep Batch: N/A

Instrument ID: MSV_J
Lab File ID: J8798.D
Initial Weight/Volume: 5.35 g
Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-4818-F-13 MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 1019
Date Prepared: 06/28/2010 1019

Analysis Batch: 280-21024
Prep Batch: N/A

Instrument ID: MSV_J
Lab File ID: J8799.D
Initial Weight/Volume: 5.40 g
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Benzene	110	108	76 - 120	3	20		
Ethylbenzene	111	111	78 - 120	1	20		
Toluene	107	104	72 - 120	3	20		
Xylenes, Total	112	108	77 - 120	5	20		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	87	85	58 - 140
Toluene-d8 (Surr)	107	105	80 - 126
4-Bromofluorobenzene (Surr)	103	103	76 - 127
Dibromofluoromethane (Surr)	97	96	75 - 121

Matrix Spike/ Matrix Spike Duplicate Data Report - Batch: 280-21024

Method: 8260B
Preparation: 5030B

MS Lab Sample ID: 280-4818-F-13 MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 0956
Date Prepared: 06/28/2010 0956

Units: mg/Kg

MSD Lab Sample ID: 280-4818-F-13 MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 1019
Date Prepared: 06/28/2010 1019

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	ND	0.0467	0.0463	0.0513	0.0499
Ethylbenzene	ND	0.0467	0.0463	0.0519	0.0513
Toluene	ND	0.0467	0.0463	0.0500	0.0484
Xylenes, Total	ND	0.140	0.139	0.158	0.150

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method Blank - Batch: 280-20560

Lab Sample ID: MB 280-20560/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 06/29/2010 1710
 Date Prepared: 06/24/2010 1910

Analysis Batch: 280-21332
 Prep Batch: 280-20560
 Units: mg/Kg

Method: 8270C Preparation: 3550C

Instrument ID: MSS_B
 Lab File ID: B8565.D
 Initial Weight/Volume: 30.5 g
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	Result	Qual	MDL	RL
Pyrene	ND		0.012	0.32
Acenaphthene	ND		0.010	0.32
Anthracene	ND		0.017	0.32
Benzo[a]anthracene	ND		0.020	0.32
Benzo[b]fluoranthene	ND		0.026	0.32
Benzo[k]fluoranthene	ND		0.039	0.32
Benzo[a]pyrene	ND		0.020	0.32
Chrysene	ND		0.027	0.32
Dibenz(a,h)anthracene	ND		0.019	0.32
Fluoranthene	ND		0.035	0.32
Fluorene	ND		0.018	0.32
Indeno[1,2,3-cd]pyrene	ND		0.022	0.32
Naphthalene	ND		0.030	0.32
Surrogate	% Rec	Acceptance Limits		
2-Fluorobiphenyl	72	50 - 120		
Nitrobenzene-d5	73	50 - 120		
Terphenyl-d14	81	55 - 120		

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Lab Control Sample - Batch: 280-20560

Method: 8270C
Preparation: 3550C

Lab Sample ID: LCS 280-20560/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2010 1730
Date Prepared: 06/24/2010 1910

Analysis Batch: 280-21332
Prep Batch: 280-20560
Units: mg/Kg

Instrument ID: MSS_B
Lab File ID: B8566.D
Initial Weight/Volume: 30.5 g
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Pyrene	2.62	2.26	86	50 - 120	
Acenaphthene	2.62	1.88	72	52 - 120	
Anthracene	2.62	2.08	79	57 - 120	
Benzo[a]anthracene	2.62	2.10	80	55 - 120	
Benzo[b]fluoranthene	2.62	2.08	79	52 - 120	
Benzo[k]fluoranthene	2.62	2.25	86	54 - 120	
Benzo[a]pyrene	2.62	1.87	71	54 - 120	
Chrysene	2.62	2.09	80	55 - 120	
Dibenz(a,h)anthracene	2.62	2.04	78	55 - 120	
Fluoranthene	2.62	2.08	79	55 - 120	
Fluorene	2.62	2.01	77	55 - 120	
Indeno[1,2,3-cd]pyrene	2.62	1.98	75	54 - 120	
Naphthalene	2.62	1.85	71	50 - 120	
Surrogate	% Rec		Acceptance Limits		
2-Fluorobiphenyl	71		50 - 120		
Nitrobenzene-d5	73		50 - 120		
Terphenyl-d14	81		55 - 120		

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-20560

Method: 8270C
Preparation: 3550C

MS Lab Sample ID: 280-4717-C-3-E MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/30/2010 0115
Date Prepared: 06/24/2010 1910

Analysis Batch: 280-21332
Prep Batch: 280-20560

Instrument ID: MSS_B
Lab File ID: B8589.D
Initial Weight/Volume: 31.5 g
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

MSD Lab Sample ID: 280-4717-C-3-F MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/30/2010 0135
Date Prepared: 06/24/2010 1910

Analysis Batch: 280-21332
Prep Batch: 280-20560

Instrument ID: MSS_B
Lab File ID: B8590.D
Initial Weight/Volume: 31.5 g
Final Weight/Volume: 1000 uL
Injection Volume: 0.5 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Pyrene	95	91	50 - 120	4	38		
Acenaphthene	73	74	52 - 120	1	30		
Anthracene	82	84	57 - 120	2	30		
Benzo[a]anthracene	85	79	55 - 120	8	30		
Benzo[b]fluoranthene	92	93	52 - 120	2	44		
Benzo[k]fluoranthene	74	72	54 - 120	2	30		
Benzo[a]pyrene	74	74	54 - 120	0	30		
Chrysene	85	81	55 - 120	5	35		
Dibenz(a,h)anthracene	79	79	55 - 120	0	30		
Fluoranthene	80	81	55 - 120	2	30		
Fluorene	78	80	55 - 120	2	30		
Indeno[1,2,3-cd]pyrene	78	73	54 - 120	6	30		
Naphthalene	67	70	50 - 120	4	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
2-Fluorobiphenyl	72	73	50 - 120
Nitrobenzene-d5	69	72	50 - 120
Terphenyl-d14	91	88	55 - 120

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Matrix Spike/

Matrix Spike Duplicate Data Report - Batch: 280-20560

Method: 8270C

Preparation: 3550C

MS Lab Sample ID: 280-4717-C-3-E MS

Units: mg/Kg

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 06/30/2010 0115

Date Prepared: 06/24/2010 1910

MSD Lab Sample ID: 280-4717-C-3-F MSD

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 06/30/2010 0135

Date Prepared: 06/24/2010 1910

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Pyrene	ND	2.54	2.54	2.40	2.31
Acenaphthene	ND	2.54	2.54	1.86	1.88
Anthracene	ND	2.54	2.54	2.08	2.13
Benzo[a]anthracene	ND	2.54	2.54	2.16	2.00
Benzo[b]fluoranthene	ND	2.54	2.54	2.32	2.36
Benzo[k]fluoranthene	ND	2.54	2.54	1.87	1.83
Benzo[a]pyrene	ND	2.54	2.54	1.88	1.88
Chrysene	ND	2.54	2.54	2.17	2.06
Dibenz(a,h)anthracene	ND	2.54	2.54	1.99	2.00
Fluoranthene	ND	2.54	2.54	2.03	2.06
Fluorene	ND	2.54	2.54	1.99	2.04
Indeno[1,2,3-cd]pyrene	ND	2.54	2.54	1.97	1.85
Naphthalene	ND	2.54	2.54	1.70	1.77

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method Blank - Batch: 280-21419

Lab Sample ID: MB 280-21419/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2010 1341
Date Prepared: 07/01/2010 1125

Analysis Batch: 280-21741
Prep Batch: 280-21419
Units: mg/Kg

Method: 8015B
Preparation: 5030B

Instrument ID: GCV_B
Lab File ID: 107F0601.D
Initial Weight/Volume: 10.06 g
Final Weight/Volume: 500 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	0.443	J	0.32	1.2

Surrogate	% Rec	Acceptance Limits
a,a,a-Trifluorotoluene	90	77 - 123

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-21419

LCS Lab Sample ID: LCS 280-21419/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2010 1231
Date Prepared: 07/01/2010 1125

Analysis Batch: 280-21741
Prep Batch: 280-21419
Units: mg/Kg

Method: 8015B
Preparation: 5030B

Instrument ID: GCV_B
Lab File ID: 105F0401.D
Initial Weight/Volume: 10.11 g
Final Weight/Volume: 500 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Gasoline Range Organics (GRO)-C6-C10	101	90	85 - 153	11	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
a,a,a-Trifluorotoluene	96		95		77 - 123		

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-21419

Method: 8015B
Preparation: 5030B

LCS Lab Sample ID: LCS 280-21419/1-A Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2010 1231
Date Prepared: 07/01/2010 1125

LCSD Lab Sample ID: LCSD 280-21419/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2010 1306
Date Prepared: 07/01/2010 1125

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	5.44	5.46	5.48	4.93

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-21419

Method: 8015B
Preparation: 5030B

MS Lab Sample ID: 280-4857-E-1-B MS Analysis Batch: 280-21741
Client Matrix: Solid Prep Batch: 280-21419
Dilution: 1.0
Date Analyzed: 07/02/2010 1509
Date Prepared: 07/01/2010 1125

Instrument ID: GCV_B
Lab File ID: 109F0801.D
Initial Weight/Volume: 10.15 g
Final Weight/Volume: 500 mL
Injection Volume: 5 mL
Column ID: PRIMARY

MSD Lab Sample ID: 280-4857-E-1-C MSD Analysis Batch: 280-21741
Client Matrix: Solid Prep Batch: 280-21419
Dilution: 1.0
Date Analyzed: 07/02/2010 1542
Date Prepared: 07/01/2010 1125

Instrument ID: GCV_B
Lab File ID: 110F0901.D
Initial Weight/Volume: 10.16 g
Final Weight/Volume: 500 mL
Injection Volume: 5 mL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Gasoline Range Organics (GRO)-C6-C10	104	96	85 - 153	7	30		

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
a,a,a-Trifluorotoluene	96	94	77 - 123

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

**Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 280-21419**

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

MS Lab Sample ID: 280-4857-E-1-B MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2010 1509
Date Prepared: 07/01/2010 1125

Units: mg/Kg

MSD Lab Sample ID: 280-4857-E-1-C MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2010 1542
Date Prepared: 07/01/2010 1125

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	0.83	J	5.42	5.41	6.46	6.05

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method Blank - Batch: 280-20523

Method: 8015D
Preparation: 3550C

Lab Sample ID: MB 280-20523/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/26/2010 0408
Date Prepared: 06/24/2010 1805

Analysis Batch: 280-21047
Prep Batch: 280-20523
Units: mg/Kg

Instrument ID: GCS_U
Lab File ID: 023B2301.D
Initial Weight/Volume: 32.8 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
C10-C22	ND		0.91	3.7
C22-C36	ND		3.6	11

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	65	49 - 115

Lab Control Sample - Batch: 280-20523

Method: 8015D
Preparation: 3550C

Lab Sample ID: LCS 280-20523/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/26/2010 0436
Date Prepared: 06/24/2010 1805

Analysis Batch: 280-21047
Prep Batch: 280-20523
Units: mg/Kg

Instrument ID: GCS_U
Lab File ID: 024B2401.D
Initial Weight/Volume: 30.8 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C22	64.9	60.0	92	50 - 150	

Surrogate	% Rec	Acceptance Limits
o-Terphenyl	66	49 - 115

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-20523

Method: 8015D
Preparation: 3550C

MS Lab Sample ID: 280-4717-C-3-B MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/26/2010 0531
Date Prepared: 06/24/2010 1805

Analysis Batch: 280-21047
Prep Batch: 280-20523

Instrument ID: GCS_U
Lab File ID: 026B2601.D
Initial Weight/Volume: 30.6 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

MSD Lab Sample ID: 280-4717-C-3-C MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/26/2010 0559
Date Prepared: 06/24/2010 1805

Analysis Batch: 280-21047
Prep Batch: 280-20523

Instrument ID: GCS_U
Lab File ID: 027B2701.D
Initial Weight/Volume: 30.3 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
C10-C22	75	131	50 - 150	43	30		F

Surrogate	MS % Rec	MSD % Rec	Acceptance Limits
o-Terphenyl	74	89	49 - 115

Matrix Spike/ Matrix Spike Duplicate Data Report - Batch: 280-20523

Method: 8015D
Preparation: 3550C

MS Lab Sample ID: 280-4717-C-3-B MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/26/2010 0531
Date Prepared: 06/24/2010 1805

Units: mg/Kg

MSD Lab Sample ID: 280-4717-C-3-C MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/26/2010 0559
Date Prepared: 06/24/2010 1805

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
C10-C22	20	65.4	66.0	68.9	106 F

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method Blank - Batch: 280-20554

Lab Sample ID: MB 280-20554/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/01/2010 1216
Date Prepared: 06/29/2010 1700

Analysis Batch: 280-21434
Prep Batch: 280-20554
Units: No Unit

Method: 20B

Preparation: 20B

Soluble

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume: 5 mL
Final Weight/Volume: 50 mL

Analyte	Result	Qual	RL	RL
Sodium Adsorption Ratio	ND		0.12	0.12

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method Blank - Batch: 280-20576

Method: 6010B

Preparation: 3050B

Lab Sample ID: MB 280-20576/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/30/2010 0100
Date Prepared: 06/28/2010 1400

Analysis Batch: 280-21202
Prep Batch: 280-20576
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25A6062910.txt
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Barium	0.229	J	0.076	1.0
Cadmium	ND		0.041	0.50
Chromium	0.0860	J	0.058	1.5
Copper	ND		0.22	2.0
Lead	ND		0.27	0.80
Nickel	ND		0.12	4.0
Selenium	ND		0.86	1.3
Silver	ND		0.16	1.0
Zinc	ND		0.40	3.0

Lab Control Sample - Batch: 280-20576

Method: 6010B

Preparation: 3050B

Lab Sample ID: LCS 280-20576/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/30/2010 0102
Date Prepared: 06/28/2010 1400

Analysis Batch: 280-21202
Prep Batch: 280-20576
Units: mg/Kg

Instrument ID: MT_025
Lab File ID: 25A6062910.txt
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	200	212	106	87 - 112	
Cadmium	10.0	10.0	100	87 - 110	
Chromium	20.0	19.7	99	84 - 114	
Copper	25.0	24.9	100	88 - 110	
Lead	50.0	48.5	97	86 - 110	
Nickel	50.0	47.8	96	87 - 110	
Selenium	200	195	98	83 - 110	
Silver	5.00	4.56	91	87 - 114	
Zinc	50.0	45.7	91	76 - 114	

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-20576

Method: 6010B
Preparation: 3050B

MS Lab Sample ID: 280-4717-A-2-D MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/30/2010 0109
Date Prepared: 06/28/2010 1400

Analysis Batch: 280-21202
Prep Batch: 280-20576

Instrument ID: MT_025
Lab File ID: 25A6062910.txt
Initial Weight/Volume: 1.10 g
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 280-4717-A-2-E MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/30/2010 0112
Date Prepared: 06/28/2010 1400

Analysis Batch: 280-21202
Prep Batch: 280-20576

Instrument ID: MT_025
Lab File ID: 25A6062910.txt
Initial Weight/Volume: 1.13 g
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Cadmium	93	93	40 - 130	3	30		
Chromium	114	110	70 - 200	4	40		
Copper	107	101	37 - 187	5	30		
Lead	88	85	70 - 200	4	40		
Nickel	88	87	61 - 126	3	30		
Selenium	89	89	76 - 104	3	30		
Silver	92	90	75 - 141	5	30		
Zinc	99	102	70 - 200	0	40		

Matrix Spike/ Matrix Spike Duplicate Data Report - Batch: 280-20576

Method: 6010B
Preparation: 3050B

MS Lab Sample ID: 280-4717-A-2-D MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/30/2010 0109
Date Prepared: 06/28/2010 1400

Units: mg/Kg

MSD Lab Sample ID: 280-4717-A-2-E MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/30/2010 0112
Date Prepared: 06/28/2010 1400

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Cadmium	ND	9.09	8.85	8.46	8.24
Chromium	13	18.2	17.7	33.8	32.5
Copper	15	22.7	22.1	39.0	37.1
Lead	8.4	45.5	44.2	48.2	46.2
Nickel	9.9	45.5	44.2	49.9	48.4
Selenium	ND	182	177	162	158
Silver	ND	4.55	4.42	4.19	3.99
Zinc	33	45.5	44.2	78.6	78.5

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method Blank - Batch: 280-20555

Method: 6020
Preparation: 3050B

Lab Sample ID: MB 280-20555/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2010 1506
Date Prepared: 06/28/2010 1400

Analysis Batch: 280-21772
Prep Batch: 280-20555
Units: mg/Kg

Instrument ID: MT_024
Lab File ID: 057_BLK.D
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Arsenic	ND		0.051	0.60

Lab Control Sample - Batch: 280-20555

Method: 6020
Preparation: 3050B

Lab Sample ID: LCS 280-20555/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2010 1509
Date Prepared: 06/28/2010 1400

Analysis Batch: 280-21772
Prep Batch: 280-20555
Units: mg/Kg

Instrument ID: MT_024
Lab File ID: 058_LCS.D
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	20.0	20.3	102	83 - 111	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-20555

Method: 6020
Preparation: 3050B

MS Lab Sample ID: 280-4717-A-1-B MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2010 1520
Date Prepared: 06/28/2010 1400

Analysis Batch: 280-21772
Prep Batch: 280-20555

Instrument ID: MT_024
Lab File ID: 062_MS.D
Initial Weight/Volume: 1.01 g
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 280-4717-A-1-C MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/02/2010 1528
Date Prepared: 06/28/2010 1400

Analysis Batch: 280-21772
Prep Batch: 280-20555

Instrument ID: MT_024
Lab File ID: 065_MSD.D
Initial Weight/Volume: 1.04 g
Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Arsenic	105	107	83 - 111	0	20		

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Matrix Spike/

Matrix Spike Duplicate Data Report - Batch: 280-20555

Method: 6020

Preparation: 3050B

MS Lab Sample ID: 280-4717-A-1-B MS

Units: mg/Kg

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 07/02/2010 1520

Date Prepared: 06/28/2010 1400

MSD Lab Sample ID: 280-4717-A-1-C MSD

Client Matrix: Solid

Dilution: 1.0

Date Analyzed: 07/02/2010 1528

Date Prepared: 06/28/2010 1400

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	5.5	19.8	19.2	26.2	26.1

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method Blank - Batch: 280-20987

Method: 7471A
Preparation: 7471A

Lab Sample ID: MB 280-20987/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2010 1329
Date Prepared: 06/28/2010 1637

Analysis Batch: 280-21239
Prep Batch: 280-20987
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 100629AA.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Result	Qual	MDL	RL
Mercury	ND		0.0055	0.017

Lab Control Sample - Batch: 280-20987

Method: 7471A
Preparation: 7471A

Lab Sample ID: LCS 280-20987/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2010 1331
Date Prepared: 06/28/2010 1637

Analysis Batch: 280-21239
Prep Batch: 280-20987
Units: mg/Kg

Instrument ID: MT_033
Lab File ID: 100629AA.txt
Initial Weight/Volume: 0.60 g
Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.427	103	87 - 111	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-20987

Method: 7471A
Preparation: 7471A

MS Lab Sample ID: 280-4818-B-25-J MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2010 1338
Date Prepared: 06/28/2010 1637

Analysis Batch: 280-21239
Prep Batch: 280-20987

Instrument ID: MT_033
Lab File ID: 100629AA.txt
Initial Weight/Volume: 0.66 g
Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-4818-B-25-K MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2010 1340
Date Prepared: 06/28/2010 1637

Analysis Batch: 280-21239
Prep Batch: 280-20987

Instrument ID: MT_033
Lab File ID: 100629AA.txt
Initial Weight/Volume: 0.61 g
Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	101	99	87 - 111	5	20		

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

**Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 280-20987**

**Method: 7471A
Preparation: 7471A**

MS Lab Sample ID: 280-4818-B-25-J MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2010 1338
Date Prepared: 06/28/2010 1637

Units: mg/Kg

MSD Lab Sample ID: 280-4818-B-25-K MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2010 1340
Date Prepared: 06/28/2010 1637

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	ND	0.379	0.410	0.384	0.405

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method Blank - Batch: 280-22131

Lab Sample ID: MB 280-22131/1
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/08/2010 0858
Date Prepared: N/A

Analysis Batch: 280-22131
Prep Batch: N/A
Units: mg/Kg

Method: 7196A Preparation: N/A

Instrument ID: MT_025
Lab File ID: N/A
Initial Weight/Volume: 1.0 mL
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Cr (III)	ND		2.0	2.0

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method Blank - Batch: 500-88756

Lab Sample ID: MB 500-88756/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2010 1226
Date Prepared: 06/29/2010 0945

Analysis Batch: 500-88767
Prep Batch: 500-88756
Units: mg/Kg

Method: 7196A Preparation: 300_Prep

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 25 g
Final Weight/Volume: 250 mL

Analyte	Result	Qual	MDL	RL
Chromium, hexavalent	ND		0.020	0.10

Lab Control Sample - Batch: 500-88756

Lab Sample ID: LCS 500-88756/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/29/2010 1227
Date Prepared: 06/29/2010 0945

Analysis Batch: 500-88767
Prep Batch: 500-88756
Units: mg/Kg

Method: 7196A Preparation: 300_Prep

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 25 g
Final Weight/Volume: 250 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Chromium, hexavalent	2.50	2.40	96	80 - 120	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 500-88756

Method: 7196A Preparation: 300_Prep

MS Lab Sample ID: 280-4717-5
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 06/29/2010 1230
Date Prepared: 06/29/2010 0945

Analysis Batch: 500-88767
Prep Batch: 500-88756

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 25.9736 g
Final Weight/Volume: 250 mL

MSD Lab Sample ID: 280-4717-5
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 06/29/2010 1231
Date Prepared: 06/29/2010 0945

Analysis Batch: 500-88767
Prep Batch: 500-88756

Instrument ID: SPEC5
Lab File ID: N/A
Initial Weight/Volume: 25.5303 g
Final Weight/Volume: 250 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chromium, hexavalent	97	95	75 - 125	0	20		

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

**Matrix Spike/
Matrix Spike Duplicate Data Report - Batch: 500-88756**

**Method: 7196A
Preparation: 300_Prep**

MS Lab Sample ID: 280-4717-5
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 06/29/2010 1230
Date Prepared: 06/29/2010 0945

Units: mg/Kg

MSD Lab Sample ID: 280-4717-5
Client Matrix: Solid
Dilution: 5.0
Date Analyzed: 06/29/2010 1231
Date Prepared: 06/29/2010 0945

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chromium, hexavalent	0.13	19.3	19.6	18.8	18.8

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-20849

Method: 9045C
Preparation: N/A

LCS Lab Sample ID: LCS 280-20849/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2010 1042
Date Prepared: N/A

Analysis Batch: 280-20849
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 mL
Final Weight/Volume: 1 mL

LCSD Lab Sample ID: LCSD 280-20849/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2010 1043
Date Prepared: N/A

Analysis Batch: 280-20849
Prep Batch: N/A
Units: SU

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 mL
Final Weight/Volume: 1 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
pH adj. to 25 deg C-Soluble	100	100	97 - 103	0	5		

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-20849

Method: 9045C
Preparation: N/A

LCS Lab Sample ID: LCS 280-20849/4
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2010 1042
Date Prepared: N/A

Units: SU

LCSD Lab Sample ID: LCSD 280-20849/5
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 06/26/2010 1043
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
pH adj. to 25 deg C-Soluble	7.00	7.00	7.030	7.020

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Duplicate - Batch: 280-20849

Lab Sample ID: 280-4717-C-2-E DU
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/26/2010 1046
Date Prepared: N/A
Date Leached: 06/26/2010 0845

Analysis Batch: 280-20849
Prep Batch: N/A
Units: SU

Method: 9045C Preparation: N/A

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume: 1 mL
Final Weight/Volume: 1 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
pH adj. to 25 deg C-Soluble	9.99	9.980	0	5	

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Method Blank - Batch: 280-21061

Method: 9050A
Preparation: N/A

Lab Sample ID: MB 280-20811/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 1621
Date Prepared: N/A
Date Leached: 06/25/2010 1747

Analysis Batch: 280-21061
Prep Batch: N/A
Units: umhos/cm

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Result	Qual	RL	RL
Specific Conductance-Soluble	ND		2.0	2.0

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-21061

Method: 9050A
Preparation: N/A

LCS Lab Sample ID: LCS 280-21061/9
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 1621
Date Prepared: N/A

Analysis Batch: 280-21061
Prep Batch: N/A
Units: umhos/cm

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

LCSD Lab Sample ID: LCSD 280-21061/10
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 1621
Date Prepared: N/A

Analysis Batch: 280-21061
Prep Batch: N/A
Units: umhos/cm

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Specific Conductance-Soluble	100	100	90 - 110	0	10		

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-21061

Method: 9050A
Preparation: N/A

LCS Lab Sample ID: LCS 280-21061/9
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 1621
Date Prepared: N/A

Units: umhos/cm

LCSD Lab Sample ID: LCSD 280-21061/10
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 1621
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Specific Conductance-Soluble	1410	1410	1410	1410

Duplicate - Batch: 280-21061

Method: 9050A
Preparation: N/A

Lab Sample ID: 280-4717-C-2-D DU
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 06/28/2010 1621
Date Prepared: N/A
Date Leached: 06/25/2010 1747

Analysis Batch: 280-21061
Prep Batch: N/A
Units: umhos/cm

Instrument ID: No Equipment Assigned
Lab File ID: N/A
Initial Weight/Volume:
Final Weight/Volume: 1.0 mL

Analyte	Sample Result/Qual	Result	RPD	Limit	Qual
Specific Conductance-Soluble	360	355	2	20	

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Laboratory Chronicle

Lab ID: 280-4717-4

Client ID: K22NW-SEBACK-062110

Sample Date/Time: 06/21/2010 15:55

Received Date/Time: 06/23/2010 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3050B	280-4717-A-4-A		280-21772	280-20555	06/28/2010 14:00	1	TAL DEN	CGG
A:6020	280-4717-A-4-A		280-21772	280-20555	07/02/2010 15:36	1	TAL DEN	TEL

Lab ID: 280-4717-5

Client ID: K22NW-SWBACK-062110

Sample Date/Time: 06/21/2010 15:45

Received Date/Time: 06/23/2010 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-4717-C-5		280-21024		06/28/2010 14:23	1	TAL DEN	JR
A:8260B	280-4717-C-5		280-21024		06/28/2010 14:23	1	TAL DEN	JR
P:3550C	280-4717-C-5-B		280-21332	280-20560	06/24/2010 19:10	1	TAL DEN	JCV
A:8270C	280-4717-C-5-B		280-21332	280-20560	06/30/2010 02:15	1	TAL DEN	RT
P:5030B	280-4717-B-5-A		280-21741	280-21419	07/01/2010 11:25	1	TAL DEN	TEM
A:8015B	280-4717-B-5-A		280-21741	280-21419	07/02/2010 17:52	1	TAL DEN	TEM
P:3550C	280-4717-C-5-A		280-21047	280-20523	06/24/2010 18:05	1	TAL DEN	JCV
A:8015D	280-4717-C-5-A		280-21047	280-20523	06/26/2010 08:19	1	TAL DEN	MRB
P:20B	280-4717-A-5-A		280-21434	280-20554	06/29/2010 17:00	1	TAL DEN	JW
A:20B	280-4717-A-5-A		280-21434	280-20554	07/01/2010 12:16	1	TAL DEN	JKH
P:3050B	280-4717-A-5-C		280-21202	280-20576	06/28/2010 14:00	1	TAL DEN	CGG
A:6010B	280-4717-A-5-C		280-21202	280-20576	06/30/2010 01:17	1	TAL DEN	JKH
P:3050B	280-4717-A-5-B		280-21772	280-20555	06/28/2010 14:00	1	TAL DEN	CGG
A:6020	280-4717-A-5-B		280-21772	280-20555	07/02/2010 15:39	1	TAL DEN	TEL
P:7471A	280-4717-C-5-E		280-21239	280-20987	06/28/2010 16:37	1	TAL DEN	KS
A:7471A	280-4717-C-5-E		280-21239	280-20987	06/29/2010 13:59	1	TAL DEN	KS
P:300_Prep	280-4717-A-5-D		500-88767	500-88756	06/29/2010 09:45	1	TAL CHI	KD
A:7196A	280-4717-A-5-D		500-88767	500-88756	06/29/2010 12:30	1	TAL CHI	KD
A:7196A	280-4717-A-5		280-22131		07/08/2010 08:58	1	TAL DEN	DG
A:9045C	280-4717-C-5-D		280-20849		06/26/2010 10:49	1	TAL DEN	LMK
A:9050A	280-4717-C-5-C		280-21061		06/28/2010 16:21	1	TAL DEN	MRD

Lab ID: 280-4717-5 MS

Client ID: K22NW-SWBACK-062110

Sample Date/Time: 06/21/2010 15:45

Received Date/Time: 06/23/2010 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:300_Prep	280-4717-A-5-E MS		500-88767	500-88756	06/29/2010 09:45	5	TAL CHI	KD
A:7196A	280-4717-A-5-E MS		500-88767	500-88756	06/29/2010 12:30	5	TAL CHI	KD

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Laboratory Chronicle

Lab ID: 280-4717-5 MSD

Client ID: K22NW-SWBACK-062110

Sample Date/Time: 06/21/2010 15:45

Received Date/Time: 06/23/2010 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:300_Prep	280-4717-A-5-F MSD		500-88767	500-88756	06/29/2010 09:45	5	TAL CHI	KD
A:7196A	280-4717-A-5-F MSD		500-88767	500-88756	06/29/2010 12:31	5	TAL CHI	KD

Lab ID: 280-4717-6

Client ID: K22NW-CUTTINGS-062110

Sample Date/Time: 06/21/2010 16:20

Received Date/Time: 06/23/2010 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-4717-C-6		280-21024		06/28/2010 14:45	1	TAL DEN	JR
A:8260B	280-4717-C-6		280-21024		06/28/2010 14:45	1	TAL DEN	JR
P:3550C	280-4717-C-6-B		280-21332	280-20560	06/24/2010 19:10	1	TAL DEN	JCV
A:8270C	280-4717-C-6-B		280-21332	280-20560	06/30/2010 02:35	1	TAL DEN	RT
P:5030B	280-4717-B-6-A		280-21741	280-21419	07/01/2010 11:25	1	TAL DEN	TEM
A:8015B	280-4717-B-6-A		280-21741	280-21419	07/02/2010 18:26	1	TAL DEN	TEM
P:3550C	280-4717-C-6-A		280-21047	280-20523	06/24/2010 18:05	1	TAL DEN	JCV
A:8015D	280-4717-C-6-A		280-21047	280-20523	06/26/2010 09:43	1	TAL DEN	MRB
P:20B	280-4717-A-6-A		280-21434	280-20554	06/29/2010 17:00	1	TAL DEN	JW
A:20B	280-4717-A-6-A		280-21434	280-20554	07/01/2010 12:16	1	TAL DEN	JKH
P:3050B	280-4717-A-6-C		280-21202	280-20576	06/28/2010 14:00	1	TAL DEN	CGG
A:6010B	280-4717-A-6-C		280-21202	280-20576	06/30/2010 01:19	1	TAL DEN	JKH
P:3050B	280-4717-A-6-B		280-21772	280-20555	06/28/2010 14:00	1	TAL DEN	CGG
A:6020	280-4717-A-6-B		280-21772	280-20555	07/02/2010 15:42	1	TAL DEN	TEL
P:7471A	280-4717-C-6-E		280-21239	280-20987	06/28/2010 16:37	1	TAL DEN	KS
A:7471A	280-4717-C-6-E		280-21239	280-20987	06/29/2010 14:01	1	TAL DEN	KS
P:300_Prep	280-4717-A-6-D		500-88767	500-88756	06/29/2010 09:45	1	TAL CHI	KD
A:7196A	280-4717-A-6-D		500-88767	500-88756	06/29/2010 12:32	1	TAL CHI	KD
A:7196A	280-4717-A-6		280-22131		07/08/2010 08:58	1	TAL DEN	DG
A:9045C	280-4717-C-6-D		280-20849		06/26/2010 10:51	1	TAL DEN	LMK
A:9050A	280-4717-C-6-C		280-21061		06/28/2010 16:21	1	TAL DEN	MRD

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	MB 280-21024/6		280-21024		06/28/2010 09:12	1	TAL DEN	JR
A:8260B	MB 280-21024/6		280-21024		06/28/2010 09:12	1	TAL DEN	JR
P:3550C	MB 280-20560/1-A		280-21332	280-20560	06/24/2010 19:10	1	TAL DEN	JCV
A:8270C	MB 280-20560/1-A		280-21332	280-20560	06/29/2010 17:10	1	TAL DEN	RT
P:5030B	MB 280-21419/3-A		280-21741	280-21419	07/01/2010 11:25	1	TAL DEN	TEM
A:8015B	MB 280-21419/3-A		280-21741	280-21419	07/02/2010 13:41	1	TAL DEN	TEM
P:3550C	MB 280-20523/1-A		280-21047	280-20523	06/24/2010 18:05	1	TAL DEN	JCV
A:8015D	MB 280-20523/1-A		280-21047	280-20523	06/26/2010 04:08	1	TAL DEN	MRB
P:20B	MB 280-20554/1-A		280-21434	280-20554	06/29/2010 17:00	1	TAL DEN	JW
A:20B	MB 280-20554/1-A		280-21434	280-20554	07/01/2010 12:16	1	TAL DEN	JKH
P:3050B	MB 280-20576/1-A		280-21202	280-20576	06/28/2010 14:00	1	TAL DEN	CGG
A:6010B	MB 280-20576/1-A		280-21202	280-20576	06/30/2010 01:00	1	TAL DEN	JKH
P:3050B	MB 280-20555/1-A		280-21772	280-20555	06/28/2010 14:00	1	TAL DEN	CGG
A:6020	MB 280-20555/1-A		280-21772	280-20555	07/02/2010 15:06	1	TAL DEN	TEL
P:7471A	MB 280-20987/1-A		280-21239	280-20987	06/28/2010 16:37	1	TAL DEN	KS
A:7471A	MB 280-20987/1-A		280-21239	280-20987	06/29/2010 13:29	1	TAL DEN	KS
P:300_Prep	MB 500-88756/1-A		500-88767	500-88756	06/29/2010 09:45	1	TAL CHI	KD
A:7196A	MB 500-88756/1-A		500-88767	500-88756	06/29/2010 12:26	1	TAL CHI	KD
A:7196A	MB 280-22131/1		280-22131		07/08/2010 08:58	1	TAL DEN	DG
A:9050A	MB 280-20811/1-A		280-21061		06/28/2010 16:21	1	TAL DEN	MRD

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCS 280-21024/4		280-21024		06/28/2010 08:05	1	TAL DEN	JR
A:8260B	LCS 280-21024/4		280-21024		06/28/2010 08:05	1	TAL DEN	JR
P:3550C	LCS 280-20560/2-A		280-21332	280-20560	06/24/2010 19:10	1	TAL DEN	JCV
A:8270C	LCS 280-20560/2-A		280-21332	280-20560	06/29/2010 17:30	1	TAL DEN	RT
P:5030B	LCS 280-21419/1-A		280-21741	280-21419	07/01/2010 11:25	1	TAL DEN	TEM
A:8015B	LCS 280-21419/1-A		280-21741	280-21419	07/02/2010 12:31	1	TAL DEN	TEM
P:3550C	LCS 280-20523/2-A		280-21047	280-20523	06/24/2010 18:05	1	TAL DEN	JCV
A:8015D	LCS 280-20523/2-A		280-21047	280-20523	06/26/2010 04:36	1	TAL DEN	MRB
P:3050B	LCS 280-20576/2-A		280-21202	280-20576	06/28/2010 14:00	1	TAL DEN	CGG
A:6010B	LCS 280-20576/2-A		280-21202	280-20576	06/30/2010 01:02	1	TAL DEN	JKH
P:3050B	LCS 280-20555/2-A		280-21772	280-20555	06/28/2010 14:00	1	TAL DEN	CGG
A:6020	LCS 280-20555/2-A		280-21772	280-20555	07/02/2010 15:09	1	TAL DEN	TEL
P:7471A	LCS 280-20987/2-A		280-21239	280-20987	06/28/2010 16:37	1	TAL DEN	KS
A:7471A	LCS 280-20987/2-A		280-21239	280-20987	06/29/2010 13:31	1	TAL DEN	KS
P:300_Prep	LCS 500-88756/2-A		500-88767	500-88756	06/29/2010 09:45	1	TAL CHI	KD
A:7196A	LCS 500-88756/2-A		500-88767	500-88756	06/29/2010 12:27	1	TAL CHI	KD
A:9045C	LCS 280-20849/4		280-20849		06/26/2010 10:42	1	TAL DEN	LMK
A:9050A	LCS 280-21061/9		280-21061		06/28/2010 16:21	1	TAL DEN	MRD

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Laboratory Chronicle

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	LCSD 280-21024/5		280-21024		06/28/2010 08:27	1	TAL DEN	JR
A:8260B	LCSD 280-21024/5		280-21024		06/28/2010 08:27	1	TAL DEN	JR
P:5030B	LCSD 280-21419/2-A		280-21741	280-21419	07/01/2010 11:25	1	TAL DEN	TEM
A:8015B	LCSD 280-21419/2-A		280-21741	280-21419	07/02/2010 13:06	1	TAL DEN	TEM
A:9045C	LCSD 280-20849/5		280-20849		06/26/2010 10:43	1	TAL DEN	LMK
A:9050A	LCSD 280-21061/10		280-21061		06/28/2010 16:21	1	TAL DEN	MRD

Lab ID: MS

Client ID: N/A

Sample Date/Time: 06/24/2010 10:08

Received Date/Time: 06/25/2010 15:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-4818-F-13 MS		280-21024		06/28/2010 09:56	1	TAL DEN	JR
A:8260B	280-4818-F-13 MS		280-21024		06/28/2010 09:56	1	TAL DEN	JR
P:3550C	280-4717-C-3-E MS		280-21332	280-20560	06/24/2010 19:10	1	TAL DEN	JCV
A:8270C	280-4717-C-3-E MS		280-21332	280-20560	06/30/2010 01:15	1	TAL DEN	RT
P:5030B	280-4857-E-1-B MS		280-21741	280-21419	07/01/2010 11:25	1	TAL DEN	TEM
A:8015B	280-4857-E-1-B MS		280-21741	280-21419	07/02/2010 15:09	1	TAL DEN	TEM
P:3550C	280-4717-C-3-B MS		280-21047	280-20523	06/24/2010 18:05	1	TAL DEN	JCV
A:8015D	280-4717-C-3-B MS		280-21047	280-20523	06/26/2010 05:31	1	TAL DEN	MRB
P:3050B	280-4717-A-2-D MS		280-21202	280-20576	06/28/2010 14:00	1	TAL DEN	CGG
A:6010B	280-4717-A-2-D MS		280-21202	280-20576	06/30/2010 01:09	1	TAL DEN	JKH
P:3050B	280-4717-A-1-B MS		280-21772	280-20555	06/28/2010 14:00	1	TAL DEN	CGG
A:6020	280-4717-A-1-B MS		280-21772	280-20555	07/02/2010 15:20	1	TAL DEN	TEL
P:7471A	280-4818-B-25-J MS		280-21239	280-20987	06/28/2010 16:37	1	TAL DEN	KS
A:7471A	280-4818-B-25-J MS		280-21239	280-20987	06/29/2010 13:38	1	TAL DEN	KS

Quality Control Results

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Laboratory Chronicle

Lab ID: MSD

Client ID: N/A

Sample Date/Time: 06/24/2010 10:08

Received Date/Time: 06/25/2010 15:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-4818-F-13 MSD		280-21024		06/28/2010 10:19	1	TAL DEN	JR
A:8260B	280-4818-F-13 MSD		280-21024		06/28/2010 10:19	1	TAL DEN	JR
P:3550C	280-4717-C-3-F MSD		280-21332	280-20560	06/24/2010 19:10	1	TAL DEN	JCV
A:8270C	280-4717-C-3-F MSD		280-21332	280-20560	06/30/2010 01:35	1	TAL DEN	RT
P:5030B	280-4857-E-1-C MSD		280-21741	280-21419	07/01/2010 11:25	1	TAL DEN	TEM
A:8015B	280-4857-E-1-C MSD		280-21741	280-21419	07/02/2010 15:42	1	TAL DEN	TEM
P:3550C	280-4717-C-3-C MSD		280-21047	280-20523	06/24/2010 18:05	1	TAL DEN	JCV
A:8015D	280-4717-C-3-C MSD		280-21047	280-20523	06/26/2010 05:59	1	TAL DEN	MRB
P:3050B	280-4717-A-2-E MSD		280-21202	280-20576	06/28/2010 14:00	1	TAL DEN	CGG
A:6010B	280-4717-A-2-E MSD		280-21202	280-20576	06/30/2010 01:12	1	TAL DEN	JKH
P:3050B	280-4717-A-1-C MSD		280-21772	280-20555	06/28/2010 14:00	1	TAL DEN	CGG
A:6020	280-4717-A-1-C MSD		280-21772	280-20555	07/02/2010 15:28	1	TAL DEN	TEL
P:7471A	280-4818-B-25-K MSD		280-21239	280-20987	06/28/2010 16:37	1	TAL DEN	KS
A:7471A	280-4818-B-25-K MSD		280-21239	280-20987	06/29/2010 13:40	1	TAL DEN	KS

Lab ID: DU

Client ID: N/A

Sample Date/Time: 06/21/2010 11:45

Received Date/Time: 06/23/2010 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9045C	280-4717-C-2-E DU		280-20849		06/26/2010 10:46	1	TAL DEN	LMK
A:9050A	280-4717-C-2-D DU		280-21061		06/28/2010 16:21	1	TAL DEN	MRD

Lab References:

TAL CHI = TestAmerica Chicago

TAL DEN = TestAmerica Denver

Login Sample Receipt Check List

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Login Number: 4717

List Source: TestAmerica Denver

Creator: Bindel, Aaron M

List Number: 1

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

Login Sample Receipt Check List

Client: EnCana Oil & Gas, Inc. (USA)

Job Number: 280-4717-2

Login Number: 4717

Creator: Lunt, Jeff T

List Number: 1

List Source: TestAmerica Chicago

List Creation: 06/25/10 01:02 PM

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