



Encana Oil & Gas (USA) Inc.

370 - 17 Street, Suite 1700

Denver, CO 80202

**M34 496 (Location: 335927)
Pit (Facility: 414440)
Encana Oil & Gas (USA) Inc. (Operator: 100185)**

REPORT OF WORK COMPLETED

- Form 27 (Doc: 2521864) (Rem: 5347)
- Form 19 (Spill Doc: 2521853)

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 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. Field observations noted staining and hydrocarbon odor in both cells of the pit, and sample results confirmed concentrations/levels above the allowable limits in COGCC Table 910-1 for TPH, Benzene, SAR, and arsenic. A Form 19 was submitted to document discovery of impacted soils beneath the liner. A composite sample of a drill cuttings stockpile visible onsite was also collected during initial sampling efforts.

Following identification of below-liner impacts, both pit cells were excavated to remove visually stained soils. Excavated material was blended and stockpiled on location for characterization and remediation if needed. Excavation efforts supported by sample collection were carried out until competent bedrock was encountered during the third excavation attempt, which prevented further vertical pursuit of soil impacts. After excavation efforts were completed, a composite sample of the material remaining on top of the bedrock was collected along with a grab sample from material remaining in a fracture visible in the bedrock.

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

The composite sample collected in the pit bottom was within the allowable limit in Table 910-1, but the grab sample from the fracture in the bedrock had a TPH result above the allowable limit. The presence of competent bedrock prevented further vertical excavation of impacted material.

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 grab sample in question was collected from unrecoverable material within a fracture in the bedrock. The sample is not representative of the bedrock or the geology beneath the bedrock, and only demonstrates 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.

- During discussions about this project in 2010 a water quality monitoring plan was prepared and submitted by Encana and approved by the COGCC. Encana has nearly 4 years of sampling data since the closure of this pit without any water quality problems identified. See attached water quality monitoring plan from 2010 with map of sampling locations.

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, and receipt of laboratory results demonstrating compliance of the pit walls, the drill cuttings stockpile (approximately 900 cubic yards) and pit spoil stockpile were placed in the pit excavation.

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. Water Quality Monitoring Program (approved in 2010)
4. Laboratory Reports



North Parachute Mountain

Garfield County, Colorado

0 3,200 6,400 Feet

1 inch = 3,000 feet

T004S-R097W

T005S-R097W

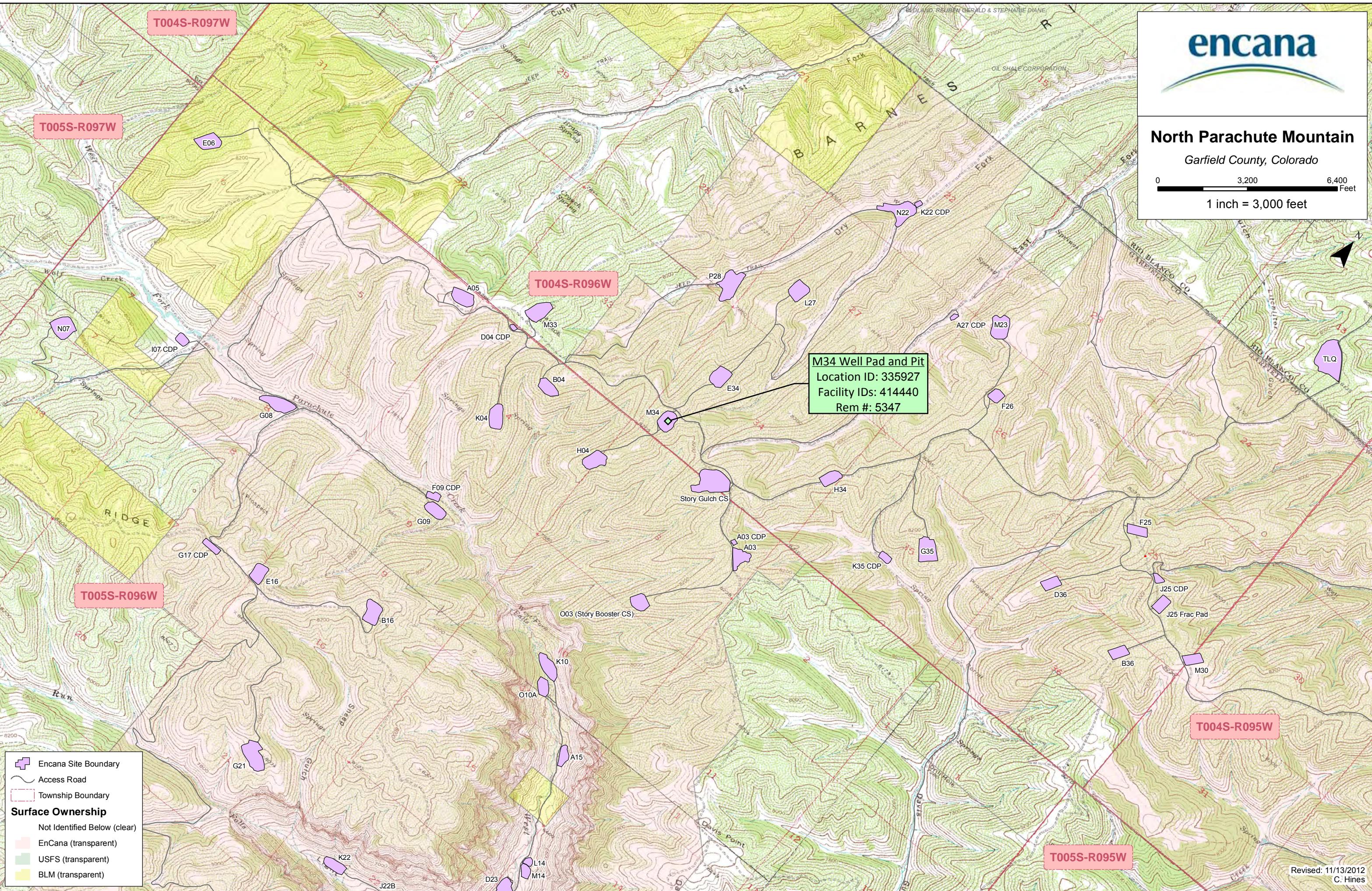
T004S-R096W

T005S-R096W

T004S-R095W

T005S-R095W

M34 Well Pad and Pit
Location ID: 335927
Facility IDs: 414440
Rem #: 5347



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

December 18, 2010

Carlos A. Luján, Ph.D.
Colorado Oil and Gas Conservation Commission
1120 Lincoln Street, Suite 801
Denver, CO 80203
carlos.lujan@state.co.us
720.272.2306

**RE: Proposed Water Quality Monitoring Points
Condition of Approval for Pit Closures on Encana's E34, H04, H34, and M34**

COGCC tracking/remediation numbers addressed in this letter.

Well Pad (Pit Location)	Form 27 Document Tracking #	Remediation Project #
E34	32522041	5355
H04	2522039	5353
H34	2522025	5352
M34	2521864	5347

Dr. Luján:

This letter was prepared to present sampling locations added to Encana's existing water quality monitoring program for the North Parachute Mountain. These locations were selected to monitor all potentially affected streams, springs, and seeps in the area around the E34, H04, H34, and M34 well pads as agreed to by Encana in support of pit closure activities on these well pads.

These sampling locations are currently proposed and may be revised in the Spring of 2011 during the initial sampling event for these locations. Due to typical snowpack at this elevation, the locations identified in this letter will be sampled semiannually (Spring and Fall) for the attached analytical suite. Laboratory results will be kept on file at Encana's Parachute Field Office, and will be provided to the COGCC upon request, or upon discovery of water quality issues during semiannual sampling events.

If you have any questions about this project, or the information presented here, please don't hesitate to contact me at christopher.hines@encana.com or 970.261.1127.

Regards,



Christopher C. Hines
Natural Resources Specialist
Contract Environmental Field Coordinator

Attachments:

- Table of Proposed Water Quality Monitoring Locations
- Topographic Map of Proposed Water Quality Monitoring Locations
- Water Quality Analytical Suite

December 18, 2010

Sample ID	Sample Type	Location Description / Notes
ENPR4SP	Spring	Known spring location in unnamed intermittent tributary to West Fork Parachute Creek southwest of project locations.
ENPR22ST	Stream	Sampling point on West Fork Parachute Creek downstream from unnamed intermittent tributaries southeast and southwest of the project locations.
ENPR1WW	Water Well	Water well in the valley bottom of the Dry Fork of Stewart Gulch, north of the project locations.
ENPR23ST	Stream	Sampling point along the Dry Fork of Stewart Gulch, north of the project locations. As this stream is known to be intermittent, this location may not be viable in the Fall.
ENPR29SP	Spring	Spring along the East Fork of Stewart Gulch, north of the project locations.
East Stewart Spring	Spring	Spring along the East Fork of Stewart Gulch, north of the project locations. This sampling location was inherited from ConocoPhillips, and may undergo a name change as it is incorporated into Encana's monitoring program.
ENPR24ST	Stream	Sampling point along the East Fork of Stewart Gulch, north of the project locations.
ENPR30SP	Spring	Spring location along an unnamed intermittent tributary to Davis Gulch, east of the project locations.
ENPR25ST	Stream	Sampling point along Davis Gulch, east of the project locations.

Encana Oil & Gas (USA) Inc.

2717 County Road 215, Suite 100

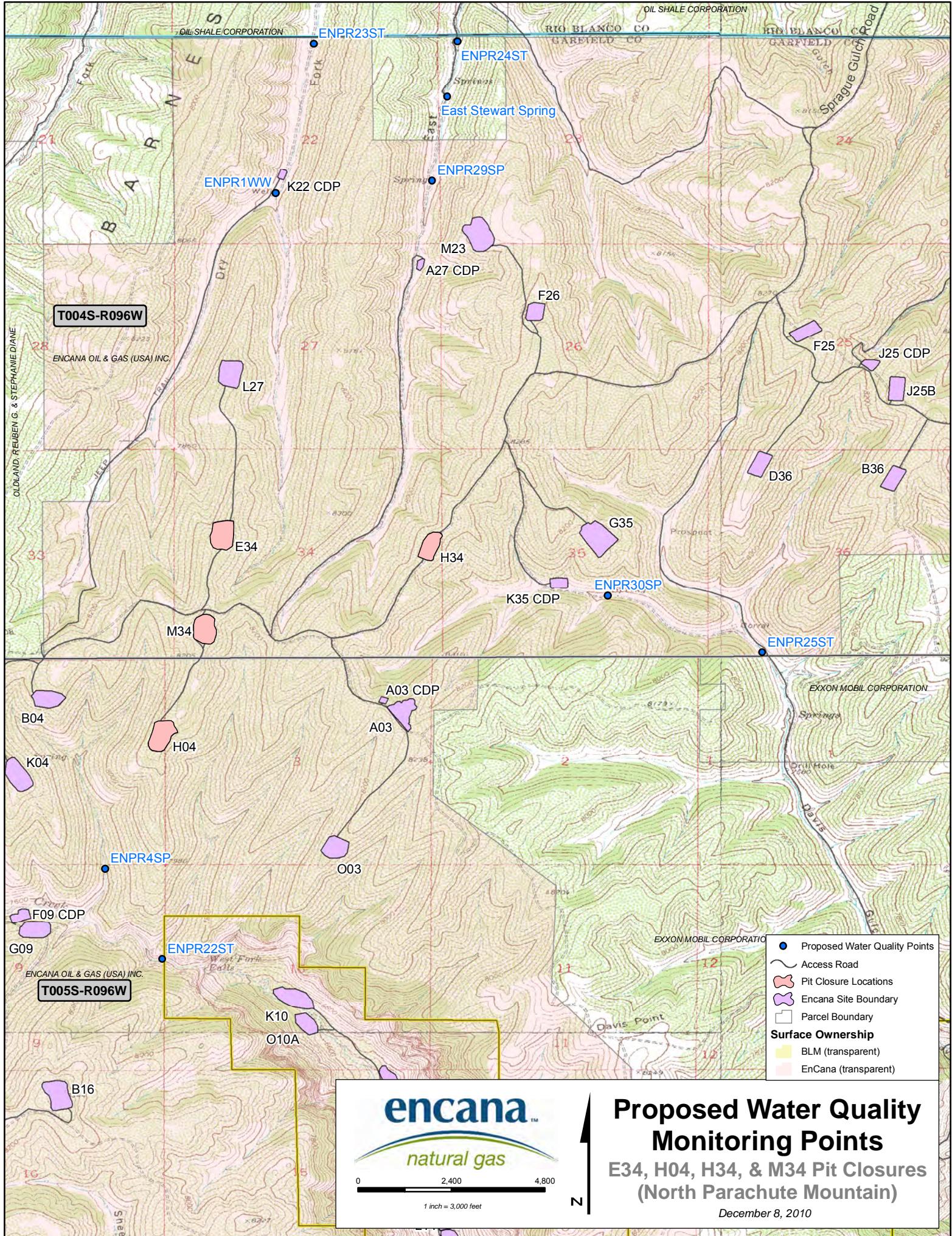
Parachute, Colorado

United States 81635

t 970.285.2600

f 970.285.2705

www.encana.com



Laboratory Analysis Method

Methane **RSK-175**

Sulfide

MTBE (Methyl-tert-butyl ether) **8260B**

BTEX - *Benzene* **8260B**

Toluene

ethylbenzene

xylenes

8260B

8260B

8260B

8260B

Ammonia-N

Anions - *Bromide*

Chloride

Fluoride

Nitrate

Nitrite

Sulfate

pH

Conductivity

TDS (Total Dissolved Solids)

Total Alkalinity

Bicarbonate

Carbonate

Dissolved Metals - *Arsenic*
Barium
Cadmium
Chromium
Copper
Lead
Silver
Calcium
Iron
Potassium
Magnesium
Manganese
Sodium
Selenium

ANALYTICAL REPORT

Job Number: 280-5234-2

Job Description: M34 CoP Diligence

For:

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

Attention: Chris Hines



Approved for release.
Katie Abbott
Project Mgmt. Assistant
8/3/2010 3:53 PM

Designee for
Lori A Parsons
Project Manager I
lori.parsons@testamericainc.com
08/03/2010

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

Tel (303) 736-0100 Fax (303) 431-7171 www.testamericainc.com



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CASE NARRATIVE

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

Project: M34 CoP Diligence

Report Number: 280-5234-2

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 07/10/2010; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt were 3.1 and 1.7 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 M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for volatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/15/2010 and 07/16/2010.

Sample M34-NE BACK-070810 (280-5234-7) exhibited a surrogate recovery above the control limits for 4-bromofluorobenzene. Sample M34-S. PIT BOTTOM-070810 (280-5234-10) exhibited a surrogate recovery below the control limits for dibromofluoromethane. The surrogate failures were due to matrix interferences.

The MS/MSD associated with analytical batch 23266 was performed on unrelated samples and exhibited percent recoveries below the control limits for dibromofluoromethane. The acceptable LCS analyses data indicated the analytical system was within control; therefore corrective action was deemed unnecessary.

The MS/MSD associated with analytical batch 23407 was performed on an unrelated sample and exhibited an RPD value above the control limits for ethylbenzene. The acceptable LCS analyses data indicated the analytical system was within control; therefore corrective action was deemed unnecessary.

No other difficulties were encountered during the VOC analyses.

All other quality control parameters were within the acceptance limits.

SEMOVOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for semivolatile organic compounds (GC-MS) in accordance with EPA SW-846 Method 8270C. The samples were prepared on 07/11/2010 and analyzed on 08/02/2010.

No difficulties were encountered during the SVOC analyses.

All quality control parameters were within the acceptance limits.

GASOLINE RANGE ORGANICS (GRO)

Samples M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for gasoline range organics (GRO) in accordance with EPA SW-846 Method 8015B - GRO. The samples were analyzed on 07/15/2010.

The MS/MSD associated with analytical batch 23436 was performed on an unrelated sample and exhibited percent recoveries below the control limits for GRO (C6-C10). The acceptable LCS and LCSD analyses data indicated the analytical system was within control; therefore corrective action was deemed unnecessary.

No other difficulties were encountered during the GRO analyses.

All other quality control parameters were within the acceptance limits.

DIESEL RANGE ORGANICS

Samples M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for diesel range organics in accordance with EPA SW-846 Method 8015B - DRO. The samples were prepared on 07/11/2010 and analyzed on 07/13/2010.

Samples M34-N. PIT BOTTOM-070810 (280-5234-9)[5X] and M34-S. PIT BOTTOM-070810 (280-5234-10)[20X] required dilution prior to analysis due to the abundance of target analytes. The reporting limits have been adjusted accordingly. Additionally the surrogate recoveries were below the control limits due to the dilutions performed.

No other difficulties were encountered during the DRO analyses.

All other quality control parameters were within the acceptance limits.

SODIUM ABSORPTION RATIO

Samples M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for Sodium Absorption Ratio in accordance with USDA Handbook 60 - 20B. The samples were prepared on 07/26/2010 and analyzed on 07/27/2010.

No difficulties were encountered during the SAR analyses.

All quality control parameters were within the acceptance limits.

TOTAL METALS

Samples M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for total metals in accordance with EPA SW-846 Method 6010B. The samples were prepared on 07/21/2010 and analyzed on 07/22/2010.

Chromium was detected in method blank MB 280-23479/1-A at a level that was above the method detection limit but below the reporting limit. The samples exhibited detections greater than ten times the detection in the Method Blank. 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 metals analyses.

All other quality control parameters were within the acceptance limits.

TOTAL METALS ICP/MS -ARSENIC

Samples M34-SE BACK-070810 (280-5234-6), M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for total metals in accordance with EPA SW-846 Method 6020. The samples were prepared on 07/21/2010 and analyzed on 07/23/2010.

No difficulties were encountered during the metals analyses.

All quality control parameters were within the acceptance limits.

TOTAL MERCURY

Samples M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for total mercury in accordance with EPA SW-846 Method 7471A. The samples were prepared and analyzed on 07/26/2010.

The MS/MSD was performed on sample M34-CUTTINGS-070810MSD (280-5234-8) and exhibited an RPD value above the control limits and a percent recovery in the MSD above the control limits for mercury. The acceptable LCS analyses data indicated the analytical system was within control; therefore corrective action was deemed unnecessary.

No other difficulties were encountered during the mercury analyses.

All other quality control parameters were within the acceptance limits.

HEXAVALENT CHROMIUM

Samples M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for hexavalent chromium in accordance with EPA SW-846 Method 7196A. The samples were prepared on 07/15/2010 and analyzed on 07/16/2010.

The MS/MSD was performed on sample M34-NE BACK-070810MSD (280-5234-7) and the MSD exhibited a percent recovery below the control limits for hexavalent chromium. The MS/MSD exhibited an RPD value above the control limitis for hexavalent chromium. The acceptable LCS analyses data indicated the analytical system was within control; therefore corrective action was deemed unnecessary.

No other difficulties were encountered during the hexavalent chromium analyses.

All other quality control parameters were within the acceptance limits.

TRIVALENT CHROMIUM

Samples M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for Trivalent Chromium in accordance with SW-846 7196A_CR3. The samples were analyzed on 07/27/2010.

No difficulties were encountered during the trivalent chromium analyses.

All quality control parameters were within the acceptance limits.

pH

Samples M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for pH in accordance with EPA SW-846 Method 9045C. The samples were leached on 07/13/2010 and analyzed on 07/13/2010.

No difficulties were encountered during the pH analyses.

All quality control parameters were within the acceptance limits.

SPECIFIC CONDUCTANCE

Samples M34-NE BACK-070810 (280-5234-7), M34-CUTTINGS-070810 (280-5234-8), M34-N. PIT BOTTOM-070810 (280-5234-9) and M34-S. PIT BOTTOM-070810 (280-5234-10) were analyzed for specific conductance in accordance with EPA SW-846 9050A. The samples were leached on 07/16/2010 and analyzed on 07/16/2010.

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: 280-5234-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-5234-6 M34-SE BACK-070810					
Arsenic		3.8	0.55	mg/Kg	6020
280-5234-7 M34-NE BACK-070810					
Gasoline Range Organics (GRO)-C6-C10	0.82	J	1.2	mg/Kg	8015B
C10-C22	1.2	J	4.0	mg/Kg	8015D
C22-C36	23		12	mg/Kg	8015D
Barium	510		0.94	mg/Kg	6010B
Cadmium	0.082	J	0.47	mg/Kg	6010B
Chromium	40	B	1.4	mg/Kg	6010B
Copper	12		1.9	mg/Kg	6010B
Lead	12		0.75	mg/Kg	6010B
Nickel	18		3.8	mg/Kg	6010B
Zinc	41		2.8	mg/Kg	6010B
Arsenic	3.1		0.57	mg/Kg	6020
Mercury	0.0075	J	0.016	mg/Kg	7471A
Cr (III)	40		2.0	mg/Kg	7196A
<i>Soluble</i>					
pH adj. to 25 deg C-Soluble	6.72		0.0100	SU	9045C
Specific Conductance-Soluble	19		2.0	umhos/cm	9050A

EXECUTIVE SUMMARY - Detections

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

Job Number: 280-5234-2

Lab Sample ID Analyte	Client Sample ID M34-CUTTINGS-070810	Result / Qualifier	Reporting Limit	Units	Method
Benzene	0.00093	J	0.0050	mg/Kg	8260B
Toluene	0.0019	J	0.0050	mg/Kg	8260B
Xylenes, Total	0.0013	J	0.0050	mg/Kg	8260B
Pyrene	0.027	J	0.32	mg/Kg	8270C
Naphthalene	0.087	J	0.32	mg/Kg	8270C
Gasoline Range Organics (GRO)-C6-C10	5.3		1.2	mg/Kg	8015B
C10-C22	83		4.0	mg/Kg	8015D
C22-C36	52		12	mg/Kg	8015D
Barium	1700		0.84	mg/Kg	6010B
Cadmium	0.29	J	0.42	mg/Kg	6010B
Chromium	24	B	1.3	mg/Kg	6010B
Copper	15		1.7	mg/Kg	6010B
Lead	14		0.67	mg/Kg	6010B
Nickel	13		3.4	mg/Kg	6010B
Selenium	0.73	J	1.1	mg/Kg	6010B
Zinc	46		2.5	mg/Kg	6010B
Arsenic	4.4		0.57	mg/Kg	6020
Mercury	0.013	J	0.016	mg/Kg	7471A
Cr (III)	24		2.0	mg/Kg	7196A
Chromium, hexavalent	0.18		0.099	mg/Kg	7196A
<i>Soluble</i>					
pH adj. to 25 deg C-Soluble	10.9		0.0100	SU	9045C
Specific Conductance-Soluble	430		2.0	umhos/cm	9050A

EXECUTIVE SUMMARY - Detections

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

Job Number: 280-5234-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-5234-9 M34-N. PIT BOTTOM-070810					
Ethylbenzene	43	J	250	ug/Kg	8260B
Toluene	73	J	250	ug/Kg	8260B
Xylenes, Total	420		250	ug/Kg	8260B
Pyrene	0.022	J	0.31	mg/Kg	8270C
Anthracene	0.065	J	0.31	mg/Kg	8270C
Fluorene	0.15	J	0.31	mg/Kg	8270C
Naphthalene	0.050	J	0.31	mg/Kg	8270C
Gasoline Range Organics (GRO)-C6-C10	39		1.2	mg/Kg	8015B
C10-C22	2600		20	mg/Kg	8015D
C22-C36	460		59	mg/Kg	8015D
Barium	2200		0.98	mg/Kg	6010B
Cadmium	0.12	J	0.49	mg/Kg	6010B
Chromium	29	B	1.5	mg/Kg	6010B
Copper	16		2.0	mg/Kg	6010B
Lead	15		0.78	mg/Kg	6010B
Nickel	17		3.9	mg/Kg	6010B
Zinc	47		2.9	mg/Kg	6010B
Arsenic	7.2		0.54	mg/Kg	6020
Mercury	0.020		0.016	mg/Kg	7471A
Cr (III)	29		2.0	mg/Kg	7196A
<i>Soluble</i>					
Sodium Adsorption Ratio	2.0		0.12	No Unit	20B
pH adj. to 25 deg C-Soluble	8.49		0.0100	SU	9045C
Specific Conductance-Soluble	140		2.0	umhos/cm	9050A

EXECUTIVE SUMMARY - Detections

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

Job Number: 280-5234-2

Lab Sample ID Analyte	Client Sample ID	Result / Qualifier	Reporting Limit	Units	Method
280-5234-10 M34-S. PIT BOTTOM-070810					
Benzene	280		250	ug/Kg	8260B
Ethylbenzene	72	J	250	ug/Kg	8260B
Toluene	440		250	ug/Kg	8260B
Xylenes, Total	760		250	ug/Kg	8260B
Pyrene	0.045	J	0.31	mg/Kg	8270C
Anthracene	0.14	J	0.31	mg/Kg	8270C
Chrysene	0.038	J	0.31	mg/Kg	8270C
Fluorene	0.65		0.31	mg/Kg	8270C
Naphthalene	0.36		0.31	mg/Kg	8270C
Gasoline Range Organics (GRO)-C6-C10	40		1.2	mg/Kg	8015B
C10-C22	6900		79	mg/Kg	8015D
C22-C36	730		240	mg/Kg	8015D
Barium	1900		0.90	mg/Kg	6010B
Cadmium	0.67		0.45	mg/Kg	6010B
Chromium	18	B	1.4	mg/Kg	6010B
Copper	14		1.8	mg/Kg	6010B
Lead	13		0.72	mg/Kg	6010B
Nickel	11		3.6	mg/Kg	6010B
Selenium	0.92	J	1.2	mg/Kg	6010B
Zinc	40		2.7	mg/Kg	6010B
Arsenic	4.2		0.57	mg/Kg	6020
Mercury	0.017		0.015	mg/Kg	7471A
Cr (III)	18		2.0	mg/Kg	7196A
Chromium, hexavalent	0.069	J	0.097	mg/Kg	7196A
<i>Soluble</i>					
pH adj. to 25 deg C-Soluble	11.9		0.0100	SU	9045C
Specific Conductance-Soluble	1000		2.0	umhos/cm	9050A

METHOD SUMMARY

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

Job Number: 280-5234-2

Description		Lab Location	Method	Preparation Method
Matrix	Solid			
Volatile Organic Compounds (GC/MS) Purge and Trap		TAL DEN	SW846 8260B	SW846 5030B
Semivolatile Compounds by Gas Chromatography/Mass Spectrometry (GC/MS) Ultrasonic Extraction		TAL DEN	SW846 8270C	SW846 3550C
Gasoline Range Organics - (GC) Purge and Trap		TAL DEN	SW846 8015B	SW846 5030B
Diesel Range Organics (DRO) Ultrasonic Extraction		TAL DEN	SW846 8015D	SW846 3550C
Sodium Adsorption Ratio Preparation, Sodium Absorption Ratio		TAL DEN	USDA 20B	USDA 20B
RCRA Metals Preparation, Metals		TAL DEN	SW846 6010B	SW846 3050B
Metals (ICP/MS) Preparation, Metals		TAL DEN	SW846 6020	SW846 3050B
Mercury Preparation, Mercury		TAL DEN	SW846 7471A	SW846 7471A
Chromium, Hexavalent Anions, Ion Chromatography, 10% Wt/Vol		TAL CHI	SW846 7196A	MCAWW 300_Prep
Chromium, Trivalent (Colorimetric)		TAL DEN	SW846 7196A	
pH Deionized Water Leaching Procedure		TAL DEN	SW846 9045C	ASTM DI Leach
Specific Conductance Deionized Water Leaching Procedure		TAL DEN	SW846 9050A	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: 280-5234-2

Method	Analyst	Analyst ID
SW846 8260B	Dobransky, Michael E	MD
SW846 8260B	Zhou, Huaqing	HZ
SW846 8270C	Kiekel, Daniel C	DCK
SW846 8015B	Moore, Tegan E	TEM
SW846 8015D	Birdsell, Matthew R	MRB
USDA 20B	Wells, David	DW
SW846 6010B	Wells, David	DW
SW846 6020	Lill, Thomas E	TEL
SW846 7471A	Stoltz, Katie	KS
SW846 7196A	Burns, Julie M	JMB
SW846 7196A	Deb, Khona	KD
SW846 9045C	Kilker, Lorelei M	LMK
SW846 9050A	Plumb, Paul M	PMP

SAMPLE SUMMARY

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

Job Number: 280-5234-2

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
280-5234-6	M34-SE BACK-070810	Solid	07/08/2010 1450	07/10/2010 0945
280-5234-7	M34-NE BACK-070810	Solid	07/08/2010 1500	07/10/2010 0945
280-5234-8	M34-CUTTINGS-070810	Solid	07/08/2010 1615	07/10/2010 0945
280-5234-9	M34-N. PIT BOTTOM-070810	Solid	07/08/2010 1545	07/10/2010 0945
280-5234-10	M34-S. PIT BOTTOM-070810	Solid	07/08/2010 1520	07/10/2010 0945

SAMPLE RESULTS

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-NE BACK-070810

Lab Sample ID: 280-5234-7

Date Sampled: 07/08/2010 1500

Client Matrix: Solid

Date Received: 07/10/2010 0945

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch:	280-23407	Instrument ID:	MSV_J
Preparation:	5030B			Lab File ID:	J9584.D
Dilution:	1.0			Initial Weight/Volume:	5.860 g
Date Analyzed:	07/16/2010 1447			Final Weight/Volume:	5 mL
Date Prepared:	07/16/2010 1447				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Benzene		ND		0.00040	0.0043
Ethylbenzene		ND		0.00057	0.0043
Toluene		ND		0.00059	0.0043
Xylenes, Total		ND		0.00052	0.0043

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	82		58 - 140
Toluene-d8 (Surr)	107		80 - 126
4-Bromofluorobenzene (Surr)	134	X	76 - 127
Dibromofluoromethane (Surr)	91		75 - 121

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-CUTTINGS-070810

Lab Sample ID: 280-5234-8

Date Sampled: 07/08/2010 1615

Client Matrix: Solid

Date Received: 07/10/2010 0945

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch:	280-23407	Instrument ID:	MSV_J
Preparation:	5030B			Lab File ID:	J9585.D
Dilution:	1.0			Initial Weight/Volume:	5.048 g
Date Analyzed:	07/16/2010 1509			Final Weight/Volume:	5 mL
Date Prepared:	07/16/2010 1509				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Benzene		0.00093	J	0.00047	0.0050
Ethylbenzene		ND		0.00066	0.0050
Toluene		0.0019	J	0.00068	0.0050
Xylenes, Total		0.0013	J	0.00060	0.0050

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	84		58 - 140
Toluene-d8 (Surr)	99		80 - 126
4-Bromofluorobenzene (Surr)	127		76 - 127
Dibromofluoromethane (Surr)	81		75 - 121

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: **M34-N. PIT BOTTOM-070810**

Lab Sample ID: 280-5234-9

Date Sampled: 07/08/2010 1545

Client Matrix: Solid

Date Received: 07/10/2010 0945

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-23266	Instrument ID:	MSV_P
Preparation:	5030B	Prep Batch: 280-22953	Lab File ID:	P9532.D
Dilution:	1.0		Initial Weight/Volume:	4.938 g
Date Analyzed:	07/15/2010 1354		Final Weight/Volume:	1000 mL
Date Prepared:	07/14/2010 1512			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		ND		46	250
Ethylbenzene		43	J	34	250
Toluene		73	J	39	250
Xylenes, Total		420		35	250

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	66		50 - 139
Toluene-d8 (Surr)	81		68 - 143
4-Bromofluorobenzene (Surr)	84		62 - 133
Dibromofluoromethane (Surr)	71		60 - 133

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: **M34-S. PIT BOTTOM-070810**

Lab Sample ID: 280-5234-10

Date Sampled: 07/08/2010 1520

Client Matrix: Solid

Date Received: 07/10/2010 0945

8260B Volatile Organic Compounds (GC/MS)

Method:	8260B	Analysis Batch: 280-23266	Instrument ID:	MSV_P
Preparation:	5030B	Prep Batch: 280-22953	Lab File ID:	P9533.D
Dilution:	1.0		Initial Weight/Volume:	4.927 g
Date Analyzed:	07/15/2010 1414		Final Weight/Volume:	1000 mL
Date Prepared:	07/14/2010 1512			

Analyte	DryWt Corrected: N	Result (ug/Kg)	Qualifier	MDL	RL
Benzene		280		46	250
Ethylbenzene		72	J	35	250
Toluene		440		40	250
Xylenes, Total		760		36	250

Surrogate	%Rec	Qualifier	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	62		50 - 139
Toluene-d8 (Surr)	72		68 - 143
4-Bromofluorobenzene (Surr)	77		62 - 133
Dibromofluoromethane (Surr)	15	X	60 - 133

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-NE BACK-070810

Lab Sample ID: 280-5234-7

Date Sampled: 07/08/2010 1500

Client Matrix: Solid

Date Received: 07/10/2010 0945

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

Method:	8270C	Analysis Batch: 280-25217	Instrument ID:	MSS_B
Preparation:	3550C	Prep Batch: 280-22524	Lab File ID:	B9394.D
Dilution:	1.0		Initial Weight/Volume:	30.5 uL
Date Analyzed:	08/02/2010 1608		Final Weight/Volume:	1000 uL
Date Prepared:	07/11/2010 0925		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	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	Qualifier	Acceptance Limits	
2-Fluorobiphenyl		69		50 - 120	
Nitrobenzene-d5		66		50 - 120	
Terphenyl-d14		79		55 - 120	

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-CUTTINGS-070810

Lab Sample ID: 280-5234-8

Date Sampled: 07/08/2010 1615

Client Matrix: Solid

Date Received: 07/10/2010 0945

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

Method:	8270C	Analysis Batch: 280-25217	Instrument ID:	MSS_B
Preparation:	3550C	Prep Batch: 280-22524	Lab File ID:	B9395.D
Dilution:	1.0		Initial Weight/Volume:	30.8 uL
Date Analyzed:	08/02/2010 1629		Final Weight/Volume:	1000 uL
Date Prepared:	07/11/2010 0925		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Pyrene		0.027	J	0.012	0.32
Acenaphthene		ND		0.010	0.32
Anthracene		ND		0.017	0.32
Benzo[a]anthracene		ND		0.019	0.32
Benzo[b]fluoranthene		ND		0.026	0.32
Benzo[k]fluoranthene		ND		0.039	0.32
Benzo[a]pyrene		ND		0.019	0.32
Chrysene		ND		0.026	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		0.021	0.32
Naphthalene		0.087	J	0.030	0.32
Surrogate		%Rec	Qualifier	Acceptance Limits	
2-Fluorobiphenyl		70		50 - 120	
Nitrobenzene-d5		63		50 - 120	
Terphenyl-d14		78		55 - 120	

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-N. PIT BOTTOM-070810

Lab Sample ID: 280-5234-9

Date Sampled: 07/08/2010 1545

Client Matrix: Solid

Date Received: 07/10/2010 0945

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

Method:	8270C	Analysis Batch: 280-25217	Instrument ID:	MSS_B
Preparation:	3550C	Prep Batch: 280-22524	Lab File ID:	B9396.D
Dilution:	1.0		Initial Weight/Volume:	32.4 uL
Date Analyzed:	08/02/2010 1649		Final Weight/Volume:	1000 uL
Date Prepared:	07/11/2010 0925		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Pyrene		0.022	J	0.011	0.31
Acenaphthene		ND		0.0095	0.31
Anthracene		0.065	J	0.016	0.31
Benzo[a]anthracene		ND		0.019	0.31
Benzo[b]fluoranthene		ND		0.024	0.31
Benzo[k]fluoranthene		ND		0.037	0.31
Benzo[a]pyrene		ND		0.019	0.31
Chrysene		ND		0.025	0.31
Dibenz(a,h)anthracene		ND		0.018	0.31
Fluoranthene		ND		0.033	0.31
Fluorene		0.15	J	0.017	0.31
Indeno[1,2,3-cd]pyrene		ND		0.020	0.31
Naphthalene		0.050	J	0.029	0.31
Surrogate		%Rec	Qualifier	Acceptance Limits	
2-Fluorobiphenyl		72		50 - 120	
Nitrobenzene-d5		79		50 - 120	
Terphenyl-d14		76		55 - 120	

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-S. PIT BOTTOM-070810

Lab Sample ID: 280-5234-10

Date Sampled: 07/08/2010 1520

Client Matrix: Solid

Date Received: 07/10/2010 0945

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

Method:	8270C	Analysis Batch: 280-25217	Instrument ID:	MSS_B
Preparation:	3550C	Prep Batch: 280-22524	Lab File ID:	B9397.D
Dilution:	1.0		Initial Weight/Volume:	31.9 uL
Date Analyzed:	08/02/2010 1709		Final Weight/Volume:	1000 uL
Date Prepared:	07/11/2010 0925		Injection Volume:	0.5 uL

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Pyrene		0.045	J	0.011	0.31
Acenaphthene		ND		0.0097	0.31
Anthracene		0.14	J	0.016	0.31
Benzo[a]anthracene		ND		0.019	0.31
Benzo[b]fluoranthene		ND		0.025	0.31
Benzo[k]fluoranthene		ND		0.038	0.31
Benzo[a]pyrene		ND		0.019	0.31
Chrysene		0.038	J	0.025	0.31
Dibenz(a,h)anthracene		ND		0.018	0.31
Fluoranthene		ND		0.034	0.31
Fluorene		0.65		0.017	0.31
Indeno[1,2,3-cd]pyrene		ND		0.021	0.31
Naphthalene		0.36		0.029	0.31
Surrogate		%Rec	Qualifier	Acceptance Limits	
2-Fluorobiphenyl		79		50 - 120	
Nitrobenzene-d5		85		50 - 120	
Terphenyl-d14		87		55 - 120	

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-NE BACK-070810

Lab Sample ID: 280-5234-7

Date Sampled: 07/08/2010 1500

Client Matrix: Solid

Date Received: 07/10/2010 0945

8015B Gasoline Range Organics - (GC)

Method:	8015B	Analysis Batch:	280-23436	Instrument ID:	GCV_L
Preparation:	5030B	Prep Batch:	280-22749	Initial Weight/Volume:	10.03 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Date Analyzed:	07/15/2010 0035			Injection Volume:	5 mL
Date Prepared:	07/13/2010 1107			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10		0.82	J	0.32	1.2
Surrogate a,a,a-Trifluorotoluene		%Rec 78	Qualifier	Acceptance Limits 77 - 123	

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: **M34-CUTTINGS-070810**

Lab Sample ID: 280-5234-8

Date Sampled: 07/08/2010 1615

Client Matrix: Solid

Date Received: 07/10/2010 0945

8015B Gasoline Range Organics - (GC)

Method:	8015B	Analysis Batch:	280-23436	Instrument ID:	GCV_L
Preparation:	5030B	Prep Batch:	280-22749	Initial Weight/Volume:	10.18 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Date Analyzed:	07/15/2010 0112			Injection Volume:	5 mL
Date Prepared:	07/13/2010 1107			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10		5.3		0.32	1.2
Surrogate	%Rec		Qualifier		Acceptance Limits
a,a,a-Trifluorotoluene	83				77 - 123

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-N. PIT BOTTOM-070810

Lab Sample ID: 280-5234-9

Date Sampled: 07/08/2010 1545

Client Matrix: Solid

Date Received: 07/10/2010 0945

8015B Gasoline Range Organics - (GC)

Method:	8015B	Analysis Batch: 280-23436	Instrument ID:	GCV_L
Preparation:	5030B	Prep Batch: 280-22749	Initial Weight/Volume:	10.24 g
Dilution:	1.0		Final Weight/Volume:	500 mL
Date Analyzed:	07/15/2010 0150		Injection Volume:	5 mL
Date Prepared:	07/13/2010 1107		Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10		39		0.32	1.2
Surrogate	%Rec		Qualifier		Acceptance Limits
a,a,a-Trifluorotoluene	82				77 - 123

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-S. PIT BOTTOM-070810

Lab Sample ID: 280-5234-10

Date Sampled: 07/08/2010 1520

Client Matrix: Solid

Date Received: 07/10/2010 0945

8015B Gasoline Range Organics - (GC)

Method:	8015B	Analysis Batch:	280-23436	Instrument ID:	GCV_L
Preparation:	5030B	Prep Batch:	280-22749	Initial Weight/Volume:	10.02 g
Dilution:	1.0			Final Weight/Volume:	500 mL
Date Analyzed:	07/15/2010 0227			Injection Volume:	5 mL
Date Prepared:	07/13/2010 1107			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Gasoline Range Organics (GRO)-C6-C10		40		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: 280-5234-2

Client Sample ID: M34-NE BACK-070810

Lab Sample ID: 280-5234-7

Date Sampled: 07/08/2010 1500

Client Matrix: Solid

Date Received: 07/10/2010 0945

8015D Diesel Range Organics (DRO)

Method:	8015D	Analysis Batch:	280-22885	Instrument ID:	GCS_U2
Preparation:	3550C	Prep Batch:	280-22529	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Date Analyzed:	07/13/2010 0054			Injection Volume:	1 uL
Date Prepared:	07/11/2010 1210			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
C10-C22		1.2	J	0.99	4.0
C22-C36		23		3.9	12
Surrogate	%Rec			Acceptance Limits	
o-Terphenyl	70			49 - 115	

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: **M34-CUTTINGS-070810**

Lab Sample ID: 280-5234-8

Date Sampled: 07/08/2010 1615

Client Matrix: Solid

Date Received: 07/10/2010 0945

8015D Diesel Range Organics (DRO)

Method:	8015D	Analysis Batch:	280-22885	Instrument ID:	GCS_U2
Preparation:	3550C	Prep Batch:	280-22529	Initial Weight/Volume:	30.1 g
Dilution:	1.0			Final Weight/Volume:	1000 uL
Date Analyzed:	07/13/2010 0127			Injection Volume:	1 uL
Date Prepared:	07/11/2010 1210			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
C10-C22		83		0.99	4.0
C22-C36		52		3.9	12
Surrogate	%Rec			Qualifier	
o-Terphenyl	56			Acceptance Limits	
				49 - 115	

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: **M34-N. PIT BOTTOM-070810**

Lab Sample ID: 280-5234-9

Date Sampled: 07/08/2010 1545

Client Matrix: Solid

Date Received: 07/10/2010 0945

8015D Diesel Range Organics (DRO)

Method:	8015D	Analysis Batch:	280-22885	Instrument ID:	GCS_U2
Preparation:	3550C	Prep Batch:	280-22529	Initial Weight/Volume:	30.5 g
Dilution:	5.0			Final Weight/Volume:	1000 uL
Date Analyzed:	07/13/2010 1916			Injection Volume:	1 uL
Date Prepared:	07/11/2010 1210			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
C10-C22		2600		4.9	20
C22-C36		460		19	59
Surrogate	%Rec			Qualifier	
o-Terphenyl	0			Acceptance Limits	

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: **M34-S. PIT BOTTOM-070810**

Lab Sample ID: 280-5234-10

Date Sampled: 07/08/2010 1520

Client Matrix: Solid

Date Received: 07/10/2010 0945

8015D Diesel Range Organics (DRO)

Method:	8015D	Analysis Batch:	280-22885	Instrument ID:	GCS_U2
Preparation:	3550C	Prep Batch:	280-22529	Initial Weight/Volume:	30.2 g
Dilution:	20			Final Weight/Volume:	1000 uL
Date Analyzed:	07/13/2010 1949			Injection Volume:	1 uL
Date Prepared:	07/11/2010 1210			Result Type:	PRIMARY

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
C10-C22		6900		20	79
C22-C36		730		78	240
Surrogate	%Rec			Qualifier	
o-Terphenyl	0			Acceptance Limits	

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: **M34-SE BACK-070810**

Lab Sample ID: 280-5234-6

Date Sampled: 07/08/2010 1450

Client Matrix: Solid

Date Received: 07/10/2010 0945

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch:	280-23997	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch:	280-23465	Lab File ID:	134SMPL.D
Dilution:	1.0			Initial Weight/Volume:	1.09 g
Date Analyzed:	07/23/2010 0147			Final Weight/Volume:	100 mL
Date Prepared:	07/21/2010 0900				

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		3.8		0.046	0.55

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-NE BACK-070810

Lab Sample ID: 280-5234-7

Date Sampled: 07/08/2010 1500

Client Matrix: Solid

Date Received: 07/10/2010 0945

20B Sodium Adsorption Ratio-Soluble

Method:	20B	Analysis Batch: 280-24582	Instrument ID:	NOEQUIP
Preparation:	20B	Prep Batch: 280-23725	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/27/2010 1806		Final Weight/Volume:	50 mL
Date Prepared:	07/26/2010 2300			

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

6010B RCRA Metals

Method:	6010B	Analysis Batch: 280-23824	Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-23479	Lab File ID:	26c072110.txt
Dilution:	1.0		Initial Weight/Volume:	1.06 g
Date Analyzed:	07/22/2010 0058		Final Weight/Volume:	100 mL
Date Prepared:	07/21/2010 0900			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Barium		510		0.072	0.94
Cadmium		0.082	J	0.039	0.47
Chromium		40	B	0.055	1.4
Copper		12		0.20	1.9
Lead		12		0.25	0.75
Nickel		18		0.12	3.8
Selenium		ND		0.81	1.2
Silver		ND		0.15	0.94
Zinc		41		0.38	2.8

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 280-23997	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-23465	Lab File ID:	135SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.05 g
Date Analyzed:	07/23/2010 0150		Final Weight/Volume:	100 mL
Date Prepared:	07/21/2010 0900			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		3.1		0.048	0.57

7471A Mercury

Method:	7471A	Analysis Batch: 280-24299	Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-23901	Lab File ID:	100726AA2.txt
Dilution:	1.0		Initial Weight/Volume:	0.62 g
Date Analyzed:	07/26/2010 1226		Final Weight/Volume:	50 mL
Date Prepared:	07/26/2010 0830			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.0075	J	0.0054	0.016

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-NE BACK-070810

Lab Sample ID: 280-5234-7

Client Matrix: Solid

Date Sampled: 07/08/2010 1500

Date Received: 07/10/2010 0945

7471A Mercury

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-CUTTINGS-070810

Lab Sample ID: 280-5234-8

Date Sampled: 07/08/2010 1615

Client Matrix: Solid

Date Received: 07/10/2010 0945

20B Sodium Adsorption Ratio-Soluble

Method:	20B	Analysis Batch: 280-24582	Instrument ID:	NOEQUIP
Preparation:	20B	Prep Batch: 280-23725	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/27/2010 1809		Final Weight/Volume:	50 mL
Date Prepared:	07/26/2010 2300			

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

6010B RCRA Metals

Method:	6010B	Analysis Batch: 280-23824	Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-23479	Lab File ID:	26c072110.txt
Dilution:	1.0		Initial Weight/Volume:	1.19 g
Date Analyzed:	07/22/2010 0111		Final Weight/Volume:	100 mL
Date Prepared:	07/21/2010 0900			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Barium		1700		0.064	0.84
Cadmium		0.29	J	0.034	0.42
Chromium		24	B	0.049	1.3
Copper		15		0.18	1.7
Lead		14		0.23	0.67
Nickel		13		0.10	3.4
Selenium		0.73	J	0.72	1.1
Silver		ND		0.13	0.84
Zinc		46		0.33	2.5

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 280-23997	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-23465	Lab File ID:	136SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.05 g
Date Analyzed:	07/23/2010 0153		Final Weight/Volume:	100 mL
Date Prepared:	07/21/2010 0900			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.4		0.048	0.57

7471A Mercury

Method:	7471A	Analysis Batch: 280-24299	Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-23901	Lab File ID:	100726AA2.txt
Dilution:	1.0		Initial Weight/Volume:	0.65 g
Date Analyzed:	07/26/2010 1229		Final Weight/Volume:	50 mL
Date Prepared:	07/26/2010 0830			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.013	J	0.0051	0.016

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: **M34-CUTTINGS-070810**

Lab Sample ID: 280-5234-8

Date Sampled: 07/08/2010 1615

Client Matrix: Solid

Date Received: 07/10/2010 0945

7471A Mercury

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-N. PIT BOTTOM-070810

Lab Sample ID: 280-5234-9

Date Sampled: 07/08/2010 1545

Client Matrix: Solid

Date Received: 07/10/2010 0945

20B Sodium Adsorption Ratio-Soluble

Method:	20B	Analysis Batch: 280-24582	Instrument ID:	NOEQUIP
Preparation:	20B	Prep Batch: 280-23725	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/27/2010 1811		Final Weight/Volume:	50 mL
Date Prepared:	07/26/2010 2300			

Analyte	DryWt Corrected: N	Result (No Unit)	Qualifier	RL	RL
Sodium Adsorption Ratio		2.0		0.12	0.12

6010B RCRA Metals

Method:	6010B	Analysis Batch: 280-23824	Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-23479	Lab File ID:	26c072110.txt
Dilution:	1.0		Initial Weight/Volume:	1.02 g
Date Analyzed:	07/22/2010 0113		Final Weight/Volume:	100 mL
Date Prepared:	07/21/2010 0900			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Barium		2200		0.075	0.98
Cadmium		0.12	J	0.040	0.49
Chromium		29	B	0.057	1.5
Copper		16		0.21	2.0
Lead		15		0.26	0.78
Nickel		17		0.12	3.9
Selenium		ND		0.84	1.3
Silver		ND		0.16	0.98
Zinc		47		0.39	2.9

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 280-23997	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-23465	Lab File ID:	137SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.12 g
Date Analyzed:	07/23/2010 0156		Final Weight/Volume:	100 mL
Date Prepared:	07/21/2010 0900			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		7.2		0.045	0.54

7471A Mercury

Method:	7471A	Analysis Batch: 280-24299	Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-23901	Lab File ID:	100726AA2.txt
Dilution:	1.0		Initial Weight/Volume:	0.64 g
Date Analyzed:	07/26/2010 1236		Final Weight/Volume:	50 mL
Date Prepared:	07/26/2010 0830			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.020		0.0052	0.016

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-N. PIT BOTTOM-070810

Lab Sample ID: 280-5234-9

Client Matrix: Solid

Date Sampled: 07/08/2010 1545

Date Received: 07/10/2010 0945

7471A Mercury

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-S. PIT BOTTOM-070810

Lab Sample ID: 280-5234-10

Date Sampled: 07/08/2010 1520

Client Matrix: Solid

Date Received: 07/10/2010 0945

20B Sodium Adsorption Ratio-Soluble

Method:	20B	Analysis Batch: 280-24582	Instrument ID:	NOEQUIP
Preparation:	20B	Prep Batch: 280-23725	Lab File ID:	N/A
Dilution:	1.0		Initial Weight/Volume:	5 mL
Date Analyzed:	07/27/2010 1814		Final Weight/Volume:	50 mL
Date Prepared:	07/26/2010 2300			

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

6010B RCRA Metals

Method:	6010B	Analysis Batch: 280-23824	Instrument ID:	MT_026
Preparation:	3050B	Prep Batch: 280-23479	Lab File ID:	26c072110.txt
Dilution:	1.0		Initial Weight/Volume:	1.11 g
Date Analyzed:	07/22/2010 0116		Final Weight/Volume:	100 mL
Date Prepared:	07/21/2010 0900			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Barium		1900		0.068	0.90
Cadmium		0.67		0.037	0.45
Chromium		18	B	0.052	1.4
Copper		14		0.20	1.8
Lead		13		0.24	0.72
Nickel		11		0.11	3.6
Selenium		0.92	J	0.77	1.2
Silver		ND		0.14	0.90
Zinc		40		0.36	2.7

6020 Metals (ICP/MS)

Method:	6020	Analysis Batch: 280-23997	Instrument ID:	MT_024
Preparation:	3050B	Prep Batch: 280-23465	Lab File ID:	138SMPL.D
Dilution:	1.0		Initial Weight/Volume:	1.05 g
Date Analyzed:	07/23/2010 0158		Final Weight/Volume:	100 mL
Date Prepared:	07/21/2010 0900			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Arsenic		4.2		0.048	0.57

7471A Mercury

Method:	7471A	Analysis Batch: 280-24299	Instrument ID:	MT_033
Preparation:	7471A	Prep Batch: 280-23901	Lab File ID:	100726AA2.txt
Dilution:	1.0		Initial Weight/Volume:	0.68 g
Date Analyzed:	07/26/2010 1238		Final Weight/Volume:	50 mL
Date Prepared:	07/26/2010 0830			

Analyte	DryWt Corrected: N	Result (mg/Kg)	Qualifier	MDL	RL
Mercury		0.017		0.0049	0.015

Analytical Data

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

Job Number: 280-5234-2

Client Sample ID: M34-S. PIT BOTTOM-070810

Lab Sample ID: 280-5234-10

Client Matrix: Solid

Date Sampled: 07/08/2010 1520

Date Received: 07/10/2010 0945

7471A Mercury

Analytical Data

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

Job Number: 280-5234-2

General Chemistry**Client Sample ID:** M34-NE BACK-070810

Lab Sample ID: 280-5234-7

Date Sampled: 07/08/2010 1500

Client Matrix: Solid

Date Received: 07/10/2010 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium, hexavalent	ND		mg/Kg	0.020	0.10	1.0	7196A
	Analysis Batch: 500-89762		Date Analyzed (Start): 07/16/2010 1336 (End) 07/16/2010 1337				DryWt Corrected: N
	Prep Batch: 500-89751		Date Prepared: 07/15/2010 1300				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Cr (III)	40		mg/Kg	2.0	2.0	1.0	7196A
	Analysis Batch: 280-24413		Date Analyzed: 07/27/2010 1505				DryWt Corrected: N
pH adj. to 25 deg C-Soluble	6.72		SU	0.0100	0.0100	1.0	9045C
	Analysis Batch: 280-22764		Date Analyzed: 07/13/2010 1226				DryWt Corrected: N
Specific Conductance-Soluble	19		umhos/cm	2.0	2.0	1.0	9050A
	Analysis Batch: 280-23232		Date Analyzed: 07/16/2010 1330				DryWt Corrected: N

Analytical Data

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

Job Number: 280-5234-2

General Chemistry**Client Sample ID:** M34-CUTTINGS-070810

Lab Sample ID: 280-5234-8

Date Sampled: 07/08/2010 1615

Client Matrix: Solid

Date Received: 07/10/2010 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium, hexavalent	0.18		mg/Kg	0.020	0.099	1.0	7196A
	Analysis Batch: 500-89762		Date Analyzed (Start): 07/16/2010 1338 (End) 07/16/2010 1339				DryWt Corrected: N
	Prep Batch: 500-89751		Date Prepared: 07/15/2010 1300				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Cr (III)	24		mg/Kg	2.0	2.0	1.0	7196A
	Analysis Batch: 280-24413		Date Analyzed: 07/27/2010 1505				DryWt Corrected: N
pH adj. to 25 deg C-Soluble	10.9		SU	0.0100	0.0100	1.0	9045C
	Analysis Batch: 280-22764		Date Analyzed: 07/13/2010 1259				DryWt Corrected: N
Specific Conductance-Soluble	430		umhos/cm	2.0	2.0	1.0	9050A
	Analysis Batch: 280-23232		Date Analyzed: 07/16/2010 1330				DryWt Corrected: N

Analytical Data

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

Job Number: 280-5234-2

General Chemistry**Client Sample ID:** M34-N. PIT BOTTOM-070810

Lab Sample ID: 280-5234-9

Date Sampled: 07/08/2010 1545

Client Matrix: Solid

Date Received: 07/10/2010 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium, hexavalent	ND		mg/Kg	0.020	0.099	1.0	7196A
	Analysis Batch: 500-89762		Date Analyzed (Start): 07/16/2010 1339 (End) 07/16/2010 1340				DryWt Corrected: N
	Prep Batch: 500-89751		Date Prepared: 07/15/2010 1300				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Cr (III)	29		mg/Kg	2.0	2.0	1.0	7196A
	Analysis Batch: 280-24413		Date Analyzed: 07/27/2010 1505				DryWt Corrected: N
pH adj. to 25 deg C-Soluble	8.49		SU	0.0100	0.0100	1.0	9045C
	Analysis Batch: 280-22764		Date Analyzed: 07/13/2010 1230				DryWt Corrected: N
Specific Conductance-Soluble	140		umhos/cm	2.0	2.0	1.0	9050A
	Analysis Batch: 280-23232		Date Analyzed: 07/16/2010 1330				DryWt Corrected: N

Analytical Data

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

Job Number: 280-5234-2

General Chemistry**Client Sample ID:** M34-S. PIT BOTTOM-070810

Lab Sample ID: 280-5234-10

Date Sampled: 07/08/2010 1520

Client Matrix: Solid

Date Received: 07/10/2010 0945

Analyte	Result	Qual	Units	MDL	RL	Dil	Method
Chromium, hexavalent	0.069	J	mg/Kg	0.019	0.097	1.0	7196A
	Analysis Batch: 500-89762		Date Analyzed (Start): 07/16/2010 1340 (End) 07/16/2010 1340				DryWt Corrected: N
	Prep Batch: 500-89751		Date Prepared: 07/15/2010 1300				
Analyte	Result	Qual	Units	RL	RL	Dil	Method
Cr (III)	18		mg/Kg	2.0	2.0	1.0	7196A
	Analysis Batch: 280-24413		Date Analyzed: 07/27/2010 1505				DryWt Corrected: N
pH adj. to 25 deg C-Soluble	11.9		SU	0.0100	0.0100	1.0	9045C
	Analysis Batch: 280-22764		Date Analyzed: 07/13/2010 1301				DryWt Corrected: N
Specific Conductance-Soluble	1000		umhos/cm	2.0	2.0	1.0	9050A
	Analysis Batch: 280-23232		Date Analyzed: 07/16/2010 1330				DryWt Corrected: N

DATA REPORTING QUALIFIERS

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

Job Number: 280-5234-2

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.
	F	RPD of the MS and MSD exceeds the control limits
	X	Surrogate is outside control limits
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	F	MS or MSD exceeds the control limits
	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.
	D	Sample results are obtained from a dilution; the surrogate or matrix spike recoveries reported are calculated from diluted samples.
Metals	B	Compound was found in the blank and sample.
	F	MS or MSD exceeds the control limits
	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

DATA REPORTING QUALIFIERS

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

Job Number: 280-5234-2

Lab Section	Qualifier	Description
General Chemistry		
	F	MS or MSD exceeds the control limits
	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

QUALITY CONTROL RESULTS

Quality Control Results

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

Job Number: 280-5234-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS VOA					
Prep Batch: 280-22953					
LCS 280-22953/2-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-22953/3-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-22953/1-A	Method Blank	T	Solid	5030B	
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	5030B	
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	5030B	
280-5287-C-1-B MS	Matrix Spike	T	Solid	5030B	
280-5287-C-1-C MSD	Matrix Spike Duplicate	T	Solid	5030B	
Analysis Batch:280-23266					
LCS 280-22953/2-A	Lab Control Sample	T	Solid	8260B	280-22953
LCSD 280-22953/3-A	Lab Control Sample Duplicate	T	Solid	8260B	280-22953
MB 280-22953/1-A	Method Blank	T	Solid	8260B	280-22953
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	8260B	280-22953
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	8260B	280-22953
280-5287-C-1-B MS	Matrix Spike	T	Solid	8260B	280-22953
280-5287-C-1-C MSD	Matrix Spike Duplicate	T	Solid	8260B	280-22953
Analysis Batch:280-23407					
LCS 280-23407/4	Lab Control Sample	T	Solid	8260B	
LCSD 280-23407/5	Lab Control Sample Duplicate	T	Solid	8260B	
MB 280-23407/6	Method Blank	T	Solid	8260B	
280-5234-7	M34-NE BACK-070810	T	Solid	8260B	
280-5234-8	M34-CUTTINGS-070810	T	Solid	8260B	
280-5251-E-6 MS	Matrix Spike	T	Solid	8260B	
280-5251-E-6 MSD	Matrix Spike Duplicate	T	Solid	8260B	

Report Basis

T = Total

Quality Control Results

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

Job Number: 280-5234-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC/MS Semi VOA					
Prep Batch: 280-22524					
LCS 280-22524/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-22524/1-A	Method Blank	T	Solid	3550C	
280-5234-A-2-B MS	Matrix Spike	T	Solid	3550C	
280-5234-A-2-C MSD	Matrix Spike Duplicate	T	Solid	3550C	
280-5234-7	M34-NE BACK-070810	T	Solid	3550C	
280-5234-8	M34-CUTTINGS-070810	T	Solid	3550C	
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	3550C	
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	3550C	
Analysis Batch: 280-25217					
LCS 280-22524/2-A	Lab Control Sample	T	Solid	8270C	280-22524
MB 280-22524/1-A	Method Blank	T	Solid	8270C	280-22524
280-5234-A-2-B MS	Matrix Spike	T	Solid	8270C	280-22524
280-5234-A-2-C MSD	Matrix Spike Duplicate	T	Solid	8270C	280-22524
280-5234-7	M34-NE BACK-070810	T	Solid	8270C	280-22524
280-5234-8	M34-CUTTINGS-070810	T	Solid	8270C	280-22524
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	8270C	280-22524
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	8270C	280-22524

Report Basis

T = Total

Quality Control Results

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

Job Number: 280-5234-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC VOA					
Prep Batch: 280-22749					
LCS 280-22749/1-A	Lab Control Sample	T	Solid	5030B	
LCSD 280-22749/2-A	Lab Control Sample Duplicate	T	Solid	5030B	
MB 280-22749/3-A	Method Blank	T	Solid	5030B	
280-5234-7	M34-NE BACK-070810	T	Solid	5030B	
280-5234-8	M34-CUTTINGS-070810	T	Solid	5030B	
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	5030B	
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	5030B	
280-5251-C-6-B MS	Matrix Spike	T	Solid	5030B	
280-5251-C-6-C MSD	Matrix Spike Duplicate	T	Solid	5030B	
Analysis Batch: 280-23436					
LCS 280-22749/1-A	Lab Control Sample	T	Solid	8015B	280-22749
LCSD 280-22749/2-A	Lab Control Sample Duplicate	T	Solid	8015B	280-22749
MB 280-22749/3-A	Method Blank	T	Solid	8015B	280-22749
280-5234-7	M34-NE BACK-070810	T	Solid	8015B	280-22749
280-5234-8	M34-CUTTINGS-070810	T	Solid	8015B	280-22749
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	8015B	280-22749
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	8015B	280-22749
280-5251-C-6-B MS	Matrix Spike	T	Solid	8015B	280-22749
280-5251-C-6-C MSD	Matrix Spike Duplicate	T	Solid	8015B	280-22749

Report Basis

T = Total

Quality Control Results

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

Job Number: 280-5234-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 280-22529					
LCS 280-22529/2-A	Lab Control Sample	T	Solid	3550C	
MB 280-22529/1-A	Method Blank	T	Solid	3550C	
280-5234-7	M34-NE BACK-070810	T	Solid	3550C	
280-5234-8	M34-CUTTINGS-070810	T	Solid	3550C	
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	3550C	
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	3550C	
280-5234-A-12-C MS	Matrix Spike	T	Solid	3550C	
280-5234-A-12-D MSD	Matrix Spike Duplicate	T	Solid	3550C	
Analysis Batch:280-22885					
LCS 280-22529/2-A	Lab Control Sample	T	Solid	8015D	280-22529
MB 280-22529/1-A	Method Blank	T	Solid	8015D	280-22529
280-5234-7	M34-NE BACK-070810	T	Solid	8015D	280-22529
280-5234-8	M34-CUTTINGS-070810	T	Solid	8015D	280-22529
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	8015D	280-22529
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	8015D	280-22529
280-5234-A-12-C MS	Matrix Spike	T	Solid	8015D	280-22529
280-5234-A-12-D MSD	Matrix Spike Duplicate	T	Solid	8015D	280-22529

Report Basis

T = Total

Quality Control Results

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

Job Number: 280-5234-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-23465					
LCS 280-23465/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-23465/1-A	Method Blank	T	Solid	3050B	
280-5234-A-2-L MS	Matrix Spike	T	Solid	3050B	
280-5234-A-2-M MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-5234-6	M34-SE BACK-070810	T	Solid	3050B	
280-5234-7	M34-NE BACK-070810	T	Solid	3050B	
280-5234-8	M34-CUTTINGS-070810	T	Solid	3050B	
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	3050B	
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	3050B	
Prep Batch: 280-23479					
LCS 280-23479/2-A	Lab Control Sample	T	Solid	3050B	
MB 280-23479/1-A	Method Blank	T	Solid	3050B	
280-5234-A-2-O MS	Matrix Spike	T	Solid	3050B	
280-5234-A-2-P MSD	Matrix Spike Duplicate	T	Solid	3050B	
280-5234-7	M34-NE BACK-070810	T	Solid	3050B	
280-5234-8	M34-CUTTINGS-070810	T	Solid	3050B	
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	3050B	
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	3050B	
Prep Batch: 280-23725					
MB 280-23725/1-A	Method Blank	S	Solid	20B	
280-5234-7	M34-NE BACK-070810	S	Solid	20B	
280-5234-8	M34-CUTTINGS-070810	S	Solid	20B	
280-5234-9	M34-N. PIT BOTTOM-070810	S	Solid	20B	
280-5234-10	M34-S. PIT BOTTOM-070810	S	Solid	20B	
Analysis Batch: 280-23824					
LCS 280-23479/2-A	Lab Control Sample	T	Solid	6010B	280-23479
MB 280-23479/1-A	Method Blank	T	Solid	6010B	280-23479
280-5234-A-2-O MS	Matrix Spike	T	Solid	6010B	280-23479
280-5234-A-2-P MSD	Matrix Spike Duplicate	T	Solid	6010B	280-23479
280-5234-7	M34-NE BACK-070810	T	Solid	6010B	280-23479
280-5234-8	M34-CUTTINGS-070810	T	Solid	6010B	280-23479
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	6010B	280-23479
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	6010B	280-23479

Quality Control Results

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

Job Number: 280-5234-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
Metals					
Prep Batch: 280-23901					
LCS 280-23901/2-A	Lab Control Sample	T	Solid	7471A	
MB 280-23901/1-A	Method Blank	T	Solid	7471A	
280-5234-7	M34-NE BACK-070810	T	Solid	7471A	
280-5234-8	M34-CUTTINGS-070810	T	Solid	7471A	
280-5234-8MS	Matrix Spike	T	Solid	7471A	
280-5234-8MSD	Matrix Spike Duplicate	T	Solid	7471A	
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	7471A	
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	7471A	
Analysis Batch:280-23997					
LCS 280-23465/2-A	Lab Control Sample	T	Solid	6020	280-23465
MB 280-23465/1-A	Method Blank	T	Solid	6020	280-23465
280-5234-A-2-L MS	Matrix Spike	T	Solid	6020	280-23465
280-5234-A-2-M MSD	Matrix Spike Duplicate	T	Solid	6020	280-23465
280-5234-6	M34-SE BACK-070810	T	Solid	6020	280-23465
280-5234-7	M34-NE BACK-070810	T	Solid	6020	280-23465
280-5234-8	M34-CUTTINGS-070810	T	Solid	6020	280-23465
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	6020	280-23465
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	6020	280-23465
Analysis Batch:280-24299					
LCS 280-23901/2-A	Lab Control Sample	T	Solid	7471A	280-23901
MB 280-23901/1-A	Method Blank	T	Solid	7471A	280-23901
280-5234-7	M34-NE BACK-070810	T	Solid	7471A	280-23901
280-5234-8	M34-CUTTINGS-070810	T	Solid	7471A	280-23901
280-5234-8MS	Matrix Spike	T	Solid	7471A	280-23901
280-5234-8MSD	Matrix Spike Duplicate	T	Solid	7471A	280-23901
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	7471A	280-23901
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	7471A	280-23901
Analysis Batch:280-24526					
MB 280-23725/1-A	Method Blank	S	Solid	20B	280-23725
280-5234-7	M34-NE BACK-070810	S	Solid	20B	280-23725
280-5234-8	M34-CUTTINGS-070810	S	Solid	20B	280-23725
280-5234-9	M34-N. PIT BOTTOM-070810	S	Solid	20B	280-23725
280-5234-10	M34-S. PIT BOTTOM-070810	S	Solid	20B	280-23725
Analysis Batch:280-24582					
MB 280-23725/1-A	Method Blank	S	Solid	20B	280-23725
280-5234-7	M34-NE BACK-070810	S	Solid	20B	280-23725
280-5234-8	M34-CUTTINGS-070810	S	Solid	20B	280-23725
280-5234-9	M34-N. PIT BOTTOM-070810	S	Solid	20B	280-23725
280-5234-10	M34-S. PIT BOTTOM-070810	S	Solid	20B	280-23725

Quality Control Results

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

Job Number: 280-5234-2

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

Quality Control Results

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

Job Number: 280-5234-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 280-22705					
280-5234-A-2-F DU	Duplicate	S	Solid	DI Leach	
280-5234-A-4-C DU	Duplicate	S	Solid	DI Leach	
280-5234-7	M34-NE BACK-070810	S	Solid	DI Leach	
280-5234-8	M34-CUTTINGS-070810	S	Solid	DI Leach	
280-5234-9	M34-N. PIT BOTTOM-070810	S	Solid	DI Leach	
280-5234-10	M34-S. PIT BOTTOM-070810	S	Solid	DI Leach	
Analysis Batch:280-22764					
LCS 280-22764/16	Lab Control Sample	T	Water	9045C	
LCS 280-22764/4	Lab Control Sample	T	Water	9045C	
LCSD 280-22764/17	Lab Control Sample Duplicate	T	Water	9045C	
LCSD 280-22764/5	Lab Control Sample Duplicate	T	Water	9045C	
280-5234-A-2-F DU	Duplicate	S	Solid	9045C	
280-5234-A-4-C DU	Duplicate	S	Solid	9045C	
280-5234-7	M34-NE BACK-070810	S	Solid	9045C	
280-5234-8	M34-CUTTINGS-070810	S	Solid	9045C	
280-5234-9	M34-N. PIT BOTTOM-070810	S	Solid	9045C	
280-5234-10	M34-S. PIT BOTTOM-070810	S	Solid	9045C	
Prep Batch: 280-23203					
MB 280-23203/1-A	Method Blank	S	Solid	DI Leach	
280-5234-A-2-H DU	Duplicate	S	Solid	DI Leach	
280-5234-7	M34-NE BACK-070810	S	Solid	DI Leach	
280-5234-8	M34-CUTTINGS-070810	S	Solid	DI Leach	
280-5234-9	M34-N. PIT BOTTOM-070810	S	Solid	DI Leach	
280-5234-10	M34-S. PIT BOTTOM-070810	S	Solid	DI Leach	
Analysis Batch:280-23232					
LCS 280-23232/3	Lab Control Sample	T	Solid	9050A	
LCSD 280-23232/4	Lab Control Sample Duplicate	T	Solid	9050A	
MB 280-23203/1-A	Method Blank	S	Solid	9050A	
280-5234-A-2-H DU	Duplicate	S	Solid	9050A	
280-5234-7	M34-NE BACK-070810	S	Solid	9050A	
280-5234-8	M34-CUTTINGS-070810	S	Solid	9050A	
280-5234-9	M34-N. PIT BOTTOM-070810	S	Solid	9050A	
280-5234-10	M34-S. PIT BOTTOM-070810	S	Solid	9050A	
Analysis Batch:280-24413					
MB 280-24413/1	Method Blank	T	Solid	7196A	
280-5234-7	M34-NE BACK-070810	T	Solid	7196A	
280-5234-8	M34-CUTTINGS-070810	T	Solid	7196A	
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	7196A	
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	7196A	

Quality Control Results

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

Job Number: 280-5234-2

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Prep Batch: 500-89751					
LCS 500-89751/2-A	Lab Control Sample	T	Solid	300_Prep	
MB 500-89751/1-A	Method Blank	T	Solid	300_Prep	
280-5234-7	M34-NE BACK-070810	T	Solid	300_Prep	
280-5234-7MS	Matrix Spike	T	Solid	300_Prep	
280-5234-7MSD	Matrix Spike Duplicate	T	Solid	300_Prep	
280-5234-8	M34-CUTTINGS-070810	T	Solid	300_Prep	
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	300_Prep	
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	300_Prep	
Analysis Batch: 500-89762					
LCS 500-89751/2-A	Lab Control Sample	T	Solid	7196A	500-89751
MB 500-89751/1-A	Method Blank	T	Solid	7196A	500-89751
280-5234-7	M34-NE BACK-070810	T	Solid	7196A	500-89751
280-5234-7MS	Matrix Spike	T	Solid	7196A	500-89751
280-5234-7MSD	Matrix Spike Duplicate	T	Solid	7196A	500-89751
280-5234-8	M34-CUTTINGS-070810	T	Solid	7196A	500-89751
280-5234-9	M34-N. PIT BOTTOM-070810	T	Solid	7196A	500-89751
280-5234-10	M34-S. PIT BOTTOM-070810	T	Solid	7196A	500-89751

Report Basis

S = Soluble

T = Total

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
280-5234-7	M34-NE BACK-070810	82	107	134X	91
280-5234-8	M34-CUTTINGS-070 810	84	99	127	81
MB 280-23407/6		84	94	108	92
LCS 280-23407/4		86	100	110	91
LCSD 280-23407/5		88	99	110	91
280-5251-E-6 MS		84	99	106	87
280-5251-E-6 MSD		77	88	96	80

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

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
280-5234-9	M34-N. PIT BOTTOM-070810	66	81	84	71
280-5234-10	M34-S. PIT BOTTOM-070810	62	72	77	15X
MB 280-22953/1-A		64	83	84	72
LCS 280-22953/2-A		67	84	86	78
LCSD 280-22953/3-A		68	85	83	82
280-5287-C-1-B MS		67	84	83	58X
280-5287-C-1-C MSD		68	81	80	56X

Surrogate	Acceptance Limits
DCA = 1,2-Dichloroethane-d4 (Surr)	50-139
TOL = Toluene-d8 (Surr)	68-143
BFB = 4-Bromofluorobenzene (Surr)	62-133
DBFM = Dibromofluoromethane (Surr)	60-133

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
280-5234-7	M34-NE BACK-070810	69	66	79
280-5234-8	M34-CUTTINGS-070 810	70	63	78
280-5234-9	M34-N. PIT BOTTOM-070810	72	79	76
280-5234-10	M34-S. PIT BOTTOM-070810	79	85	87
MB 280-22524/1-A		72	69	82
LCS 280-22524/2-A		81	79	89
280-5234-A-2-B MS		71	68	81
280-5234-A-2-C MSD		71	67	81

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

Surrogate Recovery Report**8015B_Gasoline Range Organics - (GC)****Client Matrix: Solid**

Lab Sample ID	Client Sample ID	TFT1 %Rec
280-5234-7	M34-NE BACK-070810	78
280-5234-8	M34-CUTTINGS-070 810	83
280-5234-9	M34-N. PIT BOTTOM-070810	82
280-5234-10	M34-S. PIT BOTTOM-070810	84
MB 280-22749/3-A		90
LCS 280-22749/1-A		97
LCSD 280-22749/2-A		93
280-5251-C-6-B MS		85
280-5251-C-6-C MSD		86

Surrogate
TFT = a,a,a-Trifluorotoluene

Acceptance Limits
77-123

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

Lab Sample ID	Client Sample ID	OTPH2 %Rec
280-5234-7	M34-NE BACK-070810	70
280-5234-8	M34-CUTTINGS-070 810	56
280-5234-9	M34-N. PIT BOTTOM-070810	0D
280-5234-10	M34-S. PIT BOTTOM-070810	0D
MB 280-22529/1-A		76
LCS 280-22529/2-A		75
280-5234-A-12-C MS		80
280-5234-A-12-D MSD		78

Surrogate
OTPH = o-Terphenyl

Acceptance Limits
49-115

Quality Control Results

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

Job Number: 280-5234-2

Method Blank - Batch: 280-22953

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 280-22953/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/15/2010 1037
Date Prepared: 07/14/2010 1512

Analysis Batch: 280-23266
Prep Batch: 280-22953
Units: ug/Kg

Instrument ID: MSV_P
Lab File ID: P9522.D
Initial Weight/Volume: 5.046 g
Final Weight/Volume: 1000 mL

Analyte	Result	Qual	MDL	RL
Benzene	ND		45	250
Benzene	ND		45	250
Ethylbenzene	ND		34	250
Ethylbenzene	ND		34	250
Toluene	ND		39	250
Toluene	ND		39	250
Xylenes, Total	ND		35	250
Xylenes, Total	ND		35	250

Surrogate	% Rec	Acceptance Limits
1,2-Dichloroethane-d4 (Surr)	64	50 - 139
1,2-Dichloroethane-d4 (Surr)	64	50 - 139
Toluene-d8 (Surr)	83	68 - 143
Toluene-d8 (Surr)	83	68 - 143
4-Bromofluorobenzene (Surr)	84	62 - 133
4-Bromofluorobenzene (Surr)	84	62 - 133
Dibromofluoromethane (Surr)	72	60 - 133
Dibromofluoromethane (Surr)	72	60 - 133

Quality Control Results

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

Job Number: 280-5234-2

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-22953

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 280-22953/2-A Analysis Batch: 280-23266
Client Matrix: Solid Prep Batch: 280-22953
Dilution: 1.0 Units: ug/Kg
Date Analyzed: 07/15/2010 1056
Date Prepared: 07/14/2010 1512

Instrument ID: MSV_P
Lab File ID: P9523.D
Initial Weight/Volume: 5.049 g
Final Weight/Volume: 1000 mL

LCSD Lab Sample ID: LCSD 280-22953/3-A Analysis Batch: 280-23266
Client Matrix: Solid Prep Batch: 280-22953
Dilution: 1.0 Units: ug/Kg
Date Analyzed: 07/15/2010 1116
Date Prepared: 07/14/2010 1512

Instrument ID: MSV_P
Lab File ID: P9524.D
Initial Weight/Volume: 5.003 g
Final Weight/Volume: 1000 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	92	94	67 - 125	2	20		
Ethylbenzene	94	94	73 - 127	1	20		
Toluene	92	91	71 - 127	0	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	67		68		50 - 139		
Toluene-d8 (Surr)	84		85		68 - 143		
4-Bromofluorobenzene (Surr)	86		83		62 - 133		
Dibromofluoromethane (Surr)	78		82		60 - 133		

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-22953

Method: 8260B

Preparation: 5030B

LCS Lab Sample ID: LCS 280-22953/2-A Units: ug/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/15/2010 1056
Date Prepared: 07/14/2010 1512

LCSD Lab Sample ID: LCSD 280-22953/3-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/15/2010 1116
Date Prepared: 07/14/2010 1512

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	1980	2000	1830	1870
Ethylbenzene	1980	2000	1870	1880
Toluene	1980	2000	1830	1820

Quality Control Results

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

Job Number: 280-5234-2

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-22953

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 280-5287-C-1-B MS Analysis Batch: 280-23266
Client Matrix: Solid Prep Batch: 280-22953
Dilution: 1.0
Date Analyzed: 07/15/2010 1235
Date Prepared: 07/14/2010 1512

Instrument ID: MSV_P
Lab File ID: P9528.D
Initial Weight/Volume: 5.021 g
Final Weight/Volume: 1000 mL

MSD Lab Sample ID: 280-5287-C-1-C MSD Analysis Batch: 280-23266
Client Matrix: Solid Prep Batch: 280-22953
Dilution: 1.0
Date Analyzed: 07/15/2010 1255
Date Prepared: 07/14/2010 1512

Instrument ID: MSV_P
Lab File ID: P9529.D
Initial Weight/Volume: 5.052 g
Final Weight/Volume: 1000 mL

Analyte	% Rec.						
	MS	MSD	Limit	RPD	RPD Limit	MS Qual	MSD Qual
Benzene	91	87	67 - 125	5	20		
Ethylbenzene	91	87	73 - 127	6	20		
Toluene	89	88	71 - 127	2	20		
Xylenes, Total	92	88	73 - 127	5	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	67		68		50 - 139		
Toluene-d8 (Surr)	84		81		68 - 143		
4-Bromofluorobenzene (Surr)	83		80		62 - 133		
Dibromofluoromethane (Surr)	58		X	56	X	60 - 133	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-22953

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 280-5287-C-1-B MS Units: ug/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/15/2010 1235
Date Prepared: 07/14/2010 1512

MSD Lab Sample ID: 280-5287-C-1-C MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/15/2010 1255
Date Prepared: 07/14/2010 1512

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Benzene	ND	1990	1980	1800	1720
Ethylbenzene	ND	1990	1980	1820	1720
Toluene	ND	1990	1980	1770	1740
Xylenes, Total	ND	5970	5940	5520	5240

Quality Control Results

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

Job Number: 280-5234-2

Method Blank - Batch: 280-23407

Method: 8260B

Preparation: 5030B

Lab Sample ID: MB 280-23407/6
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/16/2010 1043
Date Prepared: 07/16/2010 1043

Analysis Batch: 280-23407
Prep Batch: N/A
Units: mg/Kg

Instrument ID: MSV_J
Lab File ID: J9573.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)	84		58 - 140	
Toluene-d8 (Surr)	94		80 - 126	
4-Bromofluorobenzene (Surr)	108		76 - 127	
Dibromofluoromethane (Surr)	92		75 - 121	

Quality Control Results

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

Job Number: 280-5234-2

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-23407

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

LCS Lab Sample ID: LCS 280-23407/4 Analysis Batch: 280-23407
Client Matrix: Solid Prep Batch: N/A
Dilution: 1.0 Units: mg/Kg
Date Analyzed: 07/16/2010 0936
Date Prepared: 07/16/2010 0936

Instrument ID: MSV_J
Lab File ID: J9570.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

LCSD Lab Sample ID: LCSD 280-23407/5 Analysis Batch: 280-23407
Client Matrix: Solid Prep Batch: N/A
Dilution: 1.0 Units: mg/Kg
Date Analyzed: 07/16/2010 0958
Date Prepared: 07/16/2010 0958

Instrument ID: MSV_J
Lab File ID: J9571.D
Initial Weight/Volume: 5 g
Final Weight/Volume: 5 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Benzene	95	93	76 - 120	2	20		
Ethylbenzene	93	90	78 - 120	4	20		
Toluene	94	91	72 - 120	3	20		
Xylenes, Total	94	91	77 - 120	4	20		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	86		88		58 - 140		
Toluene-d8 (Surr)	100		99		80 - 126		
4-Bromofluorobenzene (Surr)	110		110		76 - 127		
Dibromofluoromethane (Surr)	91		91		75 - 121		

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 280-23407

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

LCS Lab Sample ID: LCS 280-23407/4 Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/16/2010 0936
Date Prepared: 07/16/2010 0936

LCSD Lab Sample ID: LCSD 280-23407/5
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/16/2010 0958
Date Prepared: 07/16/2010 0958

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Benzene	0.0500	0.0500	0.0473	0.0464
Ethylbenzene	0.0500	0.0500	0.0467	0.0450
Toluene	0.0500	0.0500	0.0470	0.0457
Xylenes, Total	0.150	0.150	0.141	0.136

Quality Control Results

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

Job Number: 280-5234-2

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-23407

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 280-5251-E-6 MS Analysis Batch: 280-23407
 Client Matrix: Solid Prep Batch: N/A
 Dilution: 1.0
 Date Analyzed: 07/16/2010 1318
 Date Prepared: 07/16/2010 1318

Instrument ID: MSV_J
 Lab File ID: J9580.D
 Initial Weight/Volume: 5.113 g
 Final Weight/Volume: 5 mL

MSD Lab Sample ID: 280-5251-E-6 MSD Analysis Batch: 280-23407
 Client Matrix: Solid Prep Batch: N/A
 Dilution: 1.0
 Date Analyzed: 07/16/2010 1340
 Date Prepared: 07/16/2010 1340

Instrument ID: MSV_J
 Lab File ID: J9581.D
 Initial Weight/Volume: 5.433 g
 Final Weight/Volume: 5 mL

Analyte	% Rec.						
	MS	MSD	Limit	RPD	RPD Limit	MS Qual	
Benzene	94	85	76 - 120	15	20		
Ethylbenzene	94	81	78 - 120	21	20		F
Toluene	93	83	72 - 120	17	20		
Xylenes, Total	92	82	77 - 120	18	20		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
1,2-Dichloroethane-d4 (Surr)	84		77		58 - 140		
Toluene-d8 (Surr)	99		88		80 - 126		
4-Bromofluorobenzene (Surr)	106		96		76 - 127		
Dibromofluoromethane (Surr)	87		80		75 - 121		

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-23407

Method: 8260B

Preparation: 5030B

MS Lab Sample ID: 280-5251-E-6 MS Units: mg/Kg
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/16/2010 1318
 Date Prepared: 07/16/2010 1318

MSD Lab Sample ID: 280-5251-E-6 MSD
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/16/2010 1340
 Date Prepared: 07/16/2010 1340

Analyte	Sample Result/Qual	MS Spike	MSD Spike	MS	MSD
		Amount	Amount	Result/Qual	Result/Qual
Benzene	ND	0.0489	0.0460	0.0459	0.0393
Ethylbenzene	ND	0.0489	0.0460	0.0460	0.0374
Toluene	ND	0.0489	0.0460	0.0453	0.0382
Xylenes, Total	ND	0.147	0.138	0.135	0.113

Quality Control Results

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

Job Number: 280-5234-2

Method Blank - Batch: 280-22524

Method: 8270C

Preparation: 3550C

Lab Sample ID: MB 280-22524/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/02/2010 1347
Date Prepared: 07/11/2010 0925

Analysis Batch: 280-25217
Prep Batch: 280-22524
Units: mg/Kg

Instrument ID: MSS_B
Lab File ID: B9387.D
Initial Weight/Volume: 30.7 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		0.026	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		0.021	0.32
Naphthalene	ND		0.030	0.32
Surrogate	% Rec		Acceptance Limits	
2-Fluorobiphenyl	72		50 - 120	
Nitrobenzene-d5	69		50 - 120	
Terphenyl-d14	82		55 - 120	

Quality Control Results

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

Job Number: 280-5234-2

Lab Control Sample - Batch: 280-22524**Method: 8270C****Preparation: 3550C**

Lab Sample ID: LCS 280-22524/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 08/02/2010 1407
Date Prepared: 07/11/2010 0925

Analysis Batch: 280-25217
Prep Batch: 280-22524
Units: mg/Kg

Instrument ID: MSS_B
Lab File ID: B9388.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	2.23	85	50 - 120	
Acenaphthene	2.62	2.08	79	52 - 120	
Anthracene	2.62	2.23	85	57 - 120	
Benzo[a]anthracene	2.62	2.24	86	55 - 120	
Benzo[b]fluoranthene	2.62	2.18	83	52 - 120	
Benzo[k]fluoranthene	2.62	2.39	91	54 - 120	
Benzo[a]pyrene	2.62	2.02	77	54 - 120	
Chrysene	2.62	2.20	84	55 - 120	
Dibenz(a,h)anthracene	2.62	2.34	89	55 - 120	
Fluoranthene	2.62	2.35	89	55 - 120	
Fluorene	2.62	2.19	83	55 - 120	
Indeno[1,2,3-cd]pyrene	2.62	2.31	88	54 - 120	
Naphthalene	2.62	2.02	77	50 - 120	
Surrogate		% Rec		Acceptance Limits	
2-Fluorobiphenyl		81		50 - 120	
Nitrobenzene-d5		79		50 - 120	
Terphenyl-d14		89		55 - 120	

Quality Control Results

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

Job Number: 280-5234-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-22524**

Method: 8270C

Preparation: 3550C

MS Lab Sample ID: 280-5234-A-2-B MS Analysis Batch: 280-25217
 Client Matrix: Solid Prep Batch: 280-22524
 Dilution: 1.0
 Date Analyzed: 08/02/2010 1448
 Date Prepared: 07/11/2010 0925

Instrument ID: MSS_B
 Lab File ID: B9390.D
 Initial Weight/Volume: 30.9 g
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

MSD Lab Sample ID: 280-5234-A-2-C MSD Analysis Batch: 280-25217
 Client Matrix: Solid Prep Batch: 280-22524
 Dilution: 1.0
 Date Analyzed: 08/02/2010 1508
 Date Prepared: 07/11/2010 0925

Instrument ID: MSS_B
 Lab File ID: B9391.D
 Initial Weight/Volume: 30.6 g
 Final Weight/Volume: 1000 uL
 Injection Volume: 0.5 uL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Pyrene	78	76	50 - 120	1	38		
Acenaphthene	70	70	52 - 120	1	30		
Anthracene	77	75	57 - 120	1	30		
Benzo[a]anthracene	77	75	55 - 120	1	30		
Benzo[b]fluoranthene	72	69	52 - 120	2	44		
Benzo[k]fluoranthene	84	81	54 - 120	2	30		
Benzo[a]pyrene	69	66	54 - 120	4	30		
Chrysene	75	76	55 - 120	2	35		
Dibenz(a,h)anthracene	77	75	55 - 120	1	30		
Fluoranthene	81	79	55 - 120	1	30		
Fluorene	75	74	55 - 120	0	30		
Indeno[1,2,3-cd]pyrene	74	74	54 - 120	1	30		
Naphthalene	67	65	50 - 120	2	30		
Surrogate	MS % Rec		MSD % Rec		Acceptance Limits		
2-Fluorobiphenyl	71		71		50 - 120		
Nitrobenzene-d5	68		67		50 - 120		
Terphenyl-d14	81		81		55 - 120		

Quality Control Results

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

Job Number: 280-5234-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-22524**

Method: 8270C

Preparation: 3550C

MS Lab Sample ID:	280-5234-A-2-B MS	Units: mg/Kg	MSD Lab Sample ID:	280-5234-A-2-C MSD
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	08/02/2010 1448		Date Analyzed:	08/02/2010 1508
Date Prepared:	07/11/2010 0925		Date Prepared:	07/11/2010 0925

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Pyrene	ND	2.59	2.61	2.01	1.99
Acenaphthene	ND	2.59	2.61	1.82	1.83
Anthracene	ND	2.59	2.61	2.00	1.97
Benzo[a]anthracene	ND	2.59	2.61	1.99	1.96
Benzo[b]fluoranthene	ND	2.59	2.61	1.85	1.81
Benzo[k]fluoranthene	ND	2.59	2.61	2.16	2.11
Benzo[a]pyrene	ND	2.59	2.61	1.78	1.71
Chrysene	ND	2.59	2.61	1.94	1.97
Dibenz(a,h)anthracene	ND	2.59	2.61	1.99	1.96
Fluoranthene	ND	2.59	2.61	2.10	2.08
Fluorene	ND	2.59	2.61	1.94	1.94
Indeno[1,2,3-cd]pyrene	ND	2.59	2.61	1.93	1.94
Naphthalene	ND	2.59	2.61	1.73	1.69

Quality Control Results

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

Job Number: 280-5234-2

Method Blank - Batch: 280-22749

Method: 8015B

Preparation: 5030B

Lab Sample ID: MB 280-22749/3-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/14/2010 1512
 Date Prepared: 07/13/2010 1102

Analysis Batch: 280-23436
 Prep Batch: 280-22749
 Units: mg/Kg

Instrument ID: GCV_L
 Lab File ID: 218F0501.D
 Initial Weight/Volume: 10.08 g
 Final Weight/Volume: 500 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
Gasoline Range Organics (GRO)-C6-C10	ND		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: 280-22749

Method: 8015B

Preparation: 5030B

LCS Lab Sample ID: LCS 280-22749/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/14/2010 1328
 Date Prepared: 07/13/2010 1102

Analysis Batch: 280-23436
 Prep Batch: 280-22749
 Units: mg/Kg

Instrument ID: GCV_L
 Lab File ID: 132F0301.D
 Initial Weight/Volume: 10.04 g
 Final Weight/Volume: 500 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

LCSD Lab Sample ID: LCSD 280-22749/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/14/2010 1434
 Date Prepared: 07/13/2010 1102

Analysis Batch: 280-23436
 Prep Batch: 280-22749
 Units: mg/Kg

Instrument ID: GCV_L
 Lab File ID: 217F0401.D
 Initial Weight/Volume: 10.02 g
 Final Weight/Volume: 500 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

Analyte	LCS	LCSD	Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
Gasoline Range Organics (GRO)-C6-C10	122	115	85 - 153	7	30		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
a,a,a-Trifluorotoluene	97		93		77 - 123		

Quality Control Results

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

Job Number: 280-5234-2

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-22749

Method: 8015B

Preparation: 5030B

LCS Lab Sample ID: LCS 280-22749/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/14/2010 1328
 Date Prepared: 07/13/2010 1102

Units: mg/Kg

LCSD Lab Sample ID: LCSD 280-22749/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/14/2010 1434
 Date Prepared: 07/13/2010 1102

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	5.48	5.49	6.71	6.29

Matrix Spike/

Matrix Spike Duplicate Recovery Report - Batch: 280-22749

MS Lab Sample ID: 280-5251-C-6-B MS
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/14/2010 1859
 Date Prepared: 07/13/2010 1102

Analysis Batch: 280-23436
 Prep Batch: 280-22749

Instrument ID: GCV_L
 Lab File ID: 224F1101.D
 Initial Weight/Volume: 10.22 g
 Final Weight/Volume: 500 mL
 Injection Volume: 5 mL
 Column ID: PRIMARY

MSD Lab Sample ID: 280-5251-C-6-C MSD
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/14/2010 1937
 Date Prepared: 07/13/2010 1102

Analysis Batch: 280-23436
 Prep Batch: 280-22749

Instrument ID: GCV_L
 Lab File ID: 225F1201.D
 Initial Weight/Volume: 10.20 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	82	83	85 - 153	2	30	F	F
Surrogate a,a,a-Trifluorotoluene		MS % Rec	MSD % Rec			Acceptance Limits	
		85	86			77 - 123	

Quality Control Results

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

Job Number: 280-5234-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-22749**

Method: 8015B

Preparation: 5030B

MS Lab Sample ID:	280-5251-C-6-B MS	Units:	mg/Kg	MSD Lab Sample ID:	280-5251-C-6-C MSD
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	07/14/2010 1859			Date Analyzed:	07/14/2010 1937
Date Prepared:	07/13/2010 1102			Date Prepared:	07/13/2010 1102

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Gasoline Range Organics (GRO)-C6-C10	0.36 J	5.38	5.39	4.76 F	4.83 F

Quality Control Results

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

Job Number: 280-5234-2

Method Blank - Batch: 280-22529

Method: 8015D

Preparation: 3550C

Lab Sample ID: MB 280-22529/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/12/2010 2138
Date Prepared: 07/11/2010 1210

Analysis Batch: 280-22885
Prep Batch: 280-22529
Units: mg/Kg

Instrument ID: GCS_U2
Lab File ID: 006B0601.D
Initial Weight/Volume: 30.1 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
C10-C22	ND		0.99	4.0
C22-C36	ND		3.9	12
Surrogate	% Rec			Acceptance Limits
o-Terphenyl	76			49 - 115

Lab Control Sample - Batch: 280-22529

Method: 8015D

Preparation: 3550C

Lab Sample ID: LCS 280-22529/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/12/2010 2211
Date Prepared: 07/11/2010 1210

Analysis Batch: 280-22885
Prep Batch: 280-22529
Units: mg/Kg

Instrument ID: GCS_U2
Lab File ID: 007B0701.D
Initial Weight/Volume: 30.3 g
Final Weight/Volume: 1000 uL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
C10-C22	66.0	51.1	77	50 - 150	
Surrogate	% Rec			Acceptance Limits	
o-Terphenyl	75			49 - 115	

Quality Control Results

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

Job Number: 280-5234-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-22529****Method: 8015D****Preparation: 3550C**

MS Lab Sample ID:	280-5234-A-12-C MS	Analysis Batch:	280-22885	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-22529	Lab File ID:	020B2001.D
Dilution:	1.0			Initial Weight/Volume:	30.0 g
Date Analyzed:	07/13/2010 0516			Final Weight/Volume:	1000 uL
Date Prepared:	07/11/2010 1210			Injection Volume:	1 uL
				Column ID:	PRIMARY

MSD Lab Sample ID:	280-5234-A-12-D MSD	Analysis Batch:	280-22885	Instrument ID:	GCS_U2
Client Matrix:	Solid	Prep Batch:	280-22529	Lab File ID:	021B2101.D
Dilution:	1.0			Initial Weight/Volume:	30.3 g
Date Analyzed:	07/13/2010 0549			Final Weight/Volume:	1000 uL
Date Prepared:	07/11/2010 1210			Injection Volume:	1 uL
				Column ID:	PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
C10-C22	77	71	50 - 150	9	30		
Surrogate			MS % Rec		MSD % Rec		Acceptance Limits
o-Terphenyl			80	78		49 - 115	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-22529****Method: 8015D****Preparation: 3550C**

MS Lab Sample ID:	280-5234-A-12-C MS	Units: mg/Kg	MSD Lab Sample ID:	280-5234-A-12-D MSD
Client Matrix:	Solid		Client Matrix:	Solid
Dilution:	1.0		Dilution:	1.0
Date Analyzed:	07/13/2010 0516		Date Analyzed:	07/13/2010 0549
Date Prepared:	07/11/2010 1210		Date Prepared:	07/11/2010 1210

Analyte	Sample Result/Qual	MS Spike	MSD Spike	MS	MSD
		Amount	Amount	Result/Qual	Result/Qual
C10-C22	ND	66.7	66.0	51.6	47.1

Quality Control Results

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

Job Number: 280-5234-2

Method Blank - Batch: 280-23725

Lab Sample ID: MB 280-23725/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/27/2010 1751
Date Prepared: 07/26/2010 2300

Analysis Batch: 280-24582
Prep Batch: 280-23725
Units: No Unit

Method: 20B

Preparation: 20B

Soluble

Instrument ID: No Equipment Assigned
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: 280-5234-2

Method Blank - Batch: 280-23479

Method: 6010B

Preparation: 3050B

Lab Sample ID: MB 280-23479/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/22/2010 0034
Date Prepared: 07/21/2010 0900

Analysis Batch: 280-23824
Prep Batch: 280-23479
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26c072110.txt
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Result	Qual	MDL	RL
Barium	ND		0.076	1.0
Cadmium	ND		0.041	0.50
Chromium	0.0650	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: 280-23479

Method: 6010B

Preparation: 3050B

Lab Sample ID: LCS 280-23479/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/22/2010 0036
Date Prepared: 07/21/2010 0900

Analysis Batch: 280-23824
Prep Batch: 280-23479
Units: mg/Kg

Instrument ID: MT_026
Lab File ID: 26c072110.txt
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Barium	200	210	105	87 - 112	
Cadmium	10.0	10.0	100	87 - 110	
Chromium	20.0	20.1	100	84 - 114	
Copper	25.0	25.0	100	88 - 110	
Lead	50.0	47.8	96	86 - 110	
Nickel	50.0	47.8	96	87 - 110	
Selenium	200	189	95	83 - 110	
Silver	5.00	5.13	103	87 - 114	
Zinc	50.0	49.7	99	76 - 114	

Quality Control Results

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

Job Number: 280-5234-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-23479****Method: 6010B****Preparation: 3050B**

MS Lab Sample ID: 280-5234-A-2-O MS Analysis Batch: 280-23824
Client Matrix: Solid Prep Batch: 280-23479
Dilution: 1.0
Date Analyzed: 07/22/2010 0043
Date Prepared: 07/21/2010 0900

Instrument ID: MT_026
Lab File ID: 26c072110.txt
Initial Weight/Volume: 1.12 g
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 280-5234-A-2-P MSD Analysis Batch: 280-23824
Client Matrix: Solid Prep Batch: 280-23479
Dilution: 1.0
Date Analyzed: 07/22/2010 0046
Date Prepared: 07/21/2010 0900

Instrument ID: MT_026
Lab File ID: 26c072110.txt
Initial Weight/Volume: 1.02 g
Final Weight/Volume: 100 mL

Analyte	% Rec.						MS Qual	MSD Qual
	MS	MSD	Limit	RPD	RPD Limit			
Barium	116	124	52 - 159	7	30			
Cadmium	91	95	40 - 130	13	30			
Chromium	120	130	70 - 200	7	40			
Copper	102	110	37 - 187	11	30			
Lead	84	89	70 - 200	11	40			
Nickel	88	92	61 - 126	10	30			
Selenium	86	89	76 - 104	14	30			
Silver	98	101	75 - 141	13	30			
Zinc	99	107	70 - 200	9	40			

Quality Control Results

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

Job Number: 280-5234-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-23479**

Method: 6010B

Preparation: 3050B

MS Lab Sample ID:	280-5234-A-2-O MS	Units:	mg/Kg	MSD Lab Sample ID:	280-5234-A-2-P MSD
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	07/22/2010 0043			Date Analyzed:	07/22/2010 0046
Date Prepared:	07/21/2010 0900			Date Prepared:	07/21/2010 0900

Analyte	Sample Result/Qual		MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Barium	300		179	196	505	543
Cadmium	0.095	J	8.93	9.80	8.23	9.40
Chromium	39		17.9	19.6	60.2	64.3
Copper	13		22.3	24.5	35.4	39.6
Lead	12		44.6	49.0	49.5	55.4
Nickel	16		44.6	49.0	55.2	61.0
Selenium	ND		179	196	153	175
Silver	ND		4.46	4.90	4.36	4.96
Zinc	41		44.6	49.0	85.4	93.6

Quality Control Results

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

Job Number: 280-5234-2

Method Blank - Batch: 280-23465**Method: 6020****Preparation: 3050B**

Lab Sample ID: MB 280-23465/1-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/23/2010 0111
Date Prepared: 07/21/2010 0900

Analysis Batch: 280-23997
Prep Batch: 280-23465
Units: mg/Kg

Instrument ID: MT_024
Lab File ID: 121_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: 280-23465**Method: 6020****Preparation: 3050B**

Lab Sample ID: LCS 280-23465/2-A
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/23/2010 0114
Date Prepared: 07/21/2010 0900

Analysis Batch: 280-23997
Prep Batch: 280-23465
Units: mg/Kg

Instrument ID: MT_024
Lab File ID: 122_LCS.D
Initial Weight/Volume: 1.00 g
Final Weight/Volume: 100 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Arsenic	20.0	19.5	97	83 - 111	

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-23465****Method: 6020****Preparation: 3050B**

MS Lab Sample ID: 280-5234-A-2-L MS
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/23/2010 0128
Date Prepared: 07/21/2010 0900

Analysis Batch: 280-23997
Prep Batch: 280-23465

Instrument ID: MT_024
Lab File ID: 127_MS.D
Initial Weight/Volume: 1.07 g
Final Weight/Volume: 100 mL

MSD Lab Sample ID: 280-5234-A-2-M MSD
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/23/2010 0131
Date Prepared: 07/21/2010 0900

Analysis Batch: 280-23997
Prep Batch: 280-23465

Instrument ID: MT_024
Lab File ID: 128_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	91	92	83 - 111	3	20		

Quality Control Results

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

Job Number: 280-5234-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-23465**

**Method: 6020
Preparation: 3050B**

MS Lab Sample ID:	280-5234-A-2-L MS	Units:	mg/Kg	MSD Lab Sample ID:	280-5234-A-2-M MSD
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	07/23/2010 0128			Date Analyzed:	07/23/2010 0131
Date Prepared:	07/21/2010 0900			Date Prepared:	07/21/2010 0900

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Arsenic	4.5	18.7	19.2	21.6	22.3

Quality Control Results

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

Job Number: 280-5234-2

Method Blank - Batch: 280-23901

Method: 7471A

Preparation: 7471A

Lab Sample ID: MB 280-23901/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/26/2010 1222
 Date Prepared: 07/26/2010 0830

Analysis Batch: 280-24299
 Prep Batch: 280-23901
 Units: mg/Kg

Instrument ID: MT_033
 Lab File ID: 100726AA2.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: 280-23901

Method: 7471A

Preparation: 7471A

Lab Sample ID: LCS 280-23901/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/26/2010 1224
 Date Prepared: 07/26/2010 0830

Analysis Batch: 280-24299
 Prep Batch: 280-23901
 Units: mg/Kg

Instrument ID: MT_033
 Lab File ID: 100726AA2.txt
 Initial Weight/Volume: 0.60 g
 Final Weight/Volume: 50 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Mercury	0.417	0.462	111	87 - 111	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 280-23901

Method: 7471A

Preparation: 7471A

MS Lab Sample ID: 280-5234-8
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/26/2010 1231
 Date Prepared: 07/26/2010 0830

Analysis Batch: 280-24299
 Prep Batch: 280-23901

Instrument ID: MT_033
 Lab File ID: 100726AA2.txt
 Initial Weight/Volume: 0.66 g
 Final Weight/Volume: 50 mL

MSD Lab Sample ID: 280-5234-8
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/26/2010 1233
 Date Prepared: 07/26/2010 0830

Analysis Batch: 280-24299
 Prep Batch: 280-23901

Instrument ID: MT_033
 Lab File ID: 100726AA2.txt
 Initial Weight/Volume: 0.68 g
 Final Weight/Volume: 50 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Mercury	109	121	87 - 111	7	20		F

Quality Control Results

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

Job Number: 280-5234-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 280-23901**

Method: 7471A

Preparation: 7471A

MS Lab Sample ID: 280-5234-8 Units: mg/Kg
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/26/2010 1231
Date Prepared: 07/26/2010 0830

MSD Lab Sample ID: 280-5234-8
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/26/2010 1233
Date Prepared: 07/26/2010 0830

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Mercury	0.013 J	0.379	0.368	0.427	0.457 F

Quality Control Results

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

Job Number: 280-5234-2

Method Blank - Batch: 280-24413

Method: 7196A

Preparation: N/A

Lab Sample ID: MB 280-24413/1

Analysis Batch: 280-24413

Instrument ID: MT_026

Client Matrix: Solid

Prep Batch: N/A

Lab File ID: N/A

Dilution: 1.0

Units: mg/Kg

Initial Weight/Volume: 1.0 mL

Date Analyzed: 07/27/2010 1505

Final Weight/Volume: 1.0 mL

Date Prepared: N/A

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

Quality Control Results

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

Job Number: 280-5234-2

Method Blank - Batch: 500-89751

Method: 7196A

Preparation: 300_Prep

Lab Sample ID: MB 500-89751/1-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/16/2010 1331
 Date Prepared: 07/15/2010 1300

Analysis Batch: 500-89762
 Prep Batch: 500-89751
 Units: mg/Kg

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: 500-89751

Method: 7196A

Preparation: 300_Prep

Lab Sample ID: LCS 500-89751/2-A
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/16/2010 1332
 Date Prepared: 07/15/2010 1300

Analysis Batch: 500-89762
 Prep Batch: 500-89751
 Units: mg/Kg

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	2.48	99	80 - 120	

Matrix Spike/ Matrix Spike Duplicate Recovery Report - Batch: 500-89751

Method: 7196A

Preparation: 300_Prep

MS Lab Sample ID: 280-5234-7
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/16/2010 1337
 Date Prepared: 07/15/2010 1300

Analysis Batch: 500-89762
 Prep Batch: 500-89751

Instrument ID: SPEC5
 Lab File ID: N/A
 Initial Weight/Volume: 10.1 g
 Final Weight/Volume: 100 mL

MSD Lab Sample ID: 280-5234-7
 Client Matrix: Solid
 Dilution: 1.0
 Date Analyzed: 07/16/2010 1338
 Date Prepared: 07/15/2010 1300

Analysis Batch: 500-89762
 Prep Batch: 500-89751

Instrument ID: SPEC5
 Lab File ID: N/A
 Initial Weight/Volume: 10.1 g
 Final Weight/Volume: 100 mL

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
Chromium, hexavalent	77	53	75 - 125	37	20		F

Quality Control Results

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

Job Number: 280-5234-2

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 500-89751**

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

MS Lab Sample ID:	280-5234-7	Units:	mg/Kg	MSD Lab Sample ID:	280-5234-7
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Date Analyzed:	07/16/2010 1337			Date Analyzed:	07/16/2010 1338
Date Prepared:	07/15/2010 1300			Date Prepared:	07/15/2010 1300

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
Chromium, hexavalent	ND	2.48	2.48	1.90	1.30 F

Quality Control Results

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

Job Number: 280-5234-2

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-22764

Method: 9045C

Preparation: N/A

LCS Lab Sample ID: LCS 280-22764/4 Analysis Batch: 280-22764
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: SU
Date Analyzed: 07/13/2010 1206
Date Prepared: N/A

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 280-22764/5 Analysis Batch: 280-22764
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: SU
Date Analyzed: 07/13/2010 1207
Date Prepared: N/A

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		

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 280-22764

Method: 9045C

Preparation: N/A

LCS Lab Sample ID: LCS 280-22764/16 Analysis Batch: 280-22764
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: SU
Date Analyzed: 07/13/2010 1249
Date Prepared: N/A

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 280-22764/17 Analysis Batch: 280-22764
Client Matrix: Water Prep Batch: N/A
Dilution: 1.0 Units: SU
Date Analyzed: 07/13/2010 1252
Date Prepared: N/A

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		

Quality Control Results

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

Job Number: 280-5234-2

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-22764

Method: 9045C

Preparation: N/A

LCS Lab Sample ID: LCS 280-22764/4

Units: SU

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/13/2010 1206

Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-22764/5

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/13/2010 1207

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	7.030

Laboratory Control/

Laboratory Duplicate Data Report - Batch: 280-22764

Method: 9045C

Preparation: N/A

LCS Lab Sample ID: LCS 280-22764/16

Units: SU

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/13/2010 1249

Date Prepared: N/A

LCSD Lab Sample ID: LCSD 280-22764/17

Client Matrix: Water

Dilution: 1.0

Date Analyzed: 07/13/2010 1252

Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
pH adj. to 25 deg C-Soluble	10.0	10.0	10.01	10.00

Quality Control Results

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

Job Number: 280-5234-2

Duplicate - Batch: 280-22764**Method: 9045C****Preparation: N/A**

Lab Sample ID: 280-5234-A-2-F DU Analysis Batch: 280-22764
Client Matrix: Solid Prep Batch: N/A
Dilution: 1.0 Units: SU
Date Analyzed: 07/13/2010 1211
Date Prepared: N/A
Date Leached: 07/13/2010 0904

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	6.89	6.860	0	5	

Duplicate - Batch: 280-22764**Method: 9045C****Preparation: N/A**

Lab Sample ID: 280-5234-A-4-C DU Analysis Batch: 280-22764
Client Matrix: Solid Prep Batch: N/A
Dilution: 1.0 Units: SU
Date Analyzed: 07/13/2010 1254
Date Prepared: N/A
Date Leached: 07/13/2010 0904

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	11.6	11.62	0	5	

Quality Control Results

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

Job Number: 280-5234-2

Method Blank - Batch: 280-23232

Method: 9050A

Preparation: N/A

Lab Sample ID: MB 280-23203/1-A Analysis Batch: 280-23232
Client Matrix: Solid Prep Batch: N/A
Dilution: 1.0 Units: umhos/cm
Date Analyzed: 07/16/2010 1330
Date Prepared: N/A
Date Leached: 07/16/2010 1046

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: 280-23232

Method: 9050A

Preparation: N/A

LCS Lab Sample ID: LCS 280-23232/3 Analysis Batch: 280-23232
Client Matrix: Solid Prep Batch: N/A
Dilution: 1.0 Units: umhos/cm
Date Analyzed: 07/16/2010 1330
Date Prepared: N/A

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

LCSD Lab Sample ID:	Analysis Batch:	Instrument ID:
Client Matrix:	Prep Batch:	No Equipment Assigned
Solid	N/A	
Dilution:	Units:	
1.0	umhos/cm	
Date Analyzed:		
07/16/2010 1330		
Date Prepared:		
N/A		

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
Specific Conductance-Soluble	100	101	90 - 110	2	10		

Quality Control Results

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

Job Number: 280-5234-2

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 280-23232**

**Method: 9050A
Preparation: N/A**

LCS Lab Sample ID: LCS 280-23232/3
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/16/2010 1330
Date Prepared: N/A

Units: umhos/cm

LCSD Lab Sample ID: LCSD 280-23232/4
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/16/2010 1330
Date Prepared: N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
Specific Conductance-Soluble	1410	1410	1400	1430

Duplicate - Batch: 280-23232

**Method: 9050A
Preparation: N/A**

Lab Sample ID: 280-5234-A-2-H DU
Client Matrix: Solid
Dilution: 1.0
Date Analyzed: 07/16/2010 1330
Date Prepared: N/A
Date Leached: 07/16/2010 1046

Analysis Batch: 280-23232
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	9.4	8.13	15	20	

Quality Control Results

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

Job Number: 280-5234-2

Laboratory Chronicle

Lab ID: 280-5234-6

Client ID: M34-SE BACK-070810

Sample Date/Time: 07/08/2010 14:50 Received Date/Time: 07/10/2010 09:45

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:3050B	280-5234-A-6-A		280-23997	280-23465	07/21/2010 09:00		1	TAL DEN	JW
A:6020	280-5234-A-6-A		280-23997	280-23465	07/23/2010 01:47		1	TAL DEN	TEL

Lab ID: 280-5234-7

Client ID: M34-NE BACK-070810

Sample Date/Time: 07/08/2010 15:00 Received Date/Time: 07/10/2010 09:45

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:5030B	280-5234-C-7		280-23407		07/16/2010 14:47		1	TAL DEN	MD
A:8260B	280-5234-C-7		280-23407		07/16/2010 14:47		1	TAL DEN	MD
P:3550C	280-5234-A-7-A		280-25217	280-22524	07/11/2010 09:25		1	TAL DEN	CDC
A:8270C	280-5234-A-7-A		280-25217	280-22524	08/02/2010 16:08		1	TAL DEN	DCK
P:5030B	280-5234-C-7-A		280-23436	280-22749	07/13/2010 11:07		1	TAL DEN	TEM
A:8015B	280-5234-C-7-A		280-23436	280-22749	07/15/2010 00:35		1	TAL DEN	TEM
P:3550C	280-5234-A-7-B		280-22885	280-22529	07/11/2010 12:10		1	TAL DEN	CDC
A:8015D	280-5234-A-7-B		280-22885	280-22529	07/13/2010 00:54		1	TAL DEN	MRB
P:20B	280-5234-A-7-G		280-24582	280-23725	07/26/2010 23:00		1	TAL DEN	JW
A:20B	280-5234-A-7-G		280-24582	280-23725	07/27/2010 18:06		1	TAL DEN	DW
P:3050B	280-5234-A-7-F		280-23824	280-23479	07/21/2010 09:00		1	TAL DEN	JW
A:6010B	280-5234-A-7-F		280-23824	280-23479	07/22/2010 00:58		1	TAL DEN	DW
P:3050B	280-5234-A-7-E		280-23997	280-23465	07/21/2010 09:00		1	TAL DEN	JW
A:6020	280-5234-A-7-E		280-23997	280-23465	07/23/2010 01:50		1	TAL DEN	TEL
P:7471A	280-5234-A-7-H		280-24299	280-23901	07/26/2010 08:30		1	TAL DEN	KS
A:7471A	280-5234-A-7-H		280-24299	280-23901	07/26/2010 12:26		1	TAL DEN	KS
P:300_Prep	280-5234-D-7-A		500-89762	500-89751	07/15/2010 13:00		1	TAL CHI	KD
A:7196A	280-5234-D-7-A		500-89762	500-89751	07/16/2010 13:36		1	TAL CHI	KD
A:7196A	280-5234-A-7		280-24413		07/27/2010 15:05		1	TAL DEN	JMB
A:9045C	280-5234-A-7-C		280-22764		07/13/2010 12:26		1	TAL DEN	LMK
A:9050A	280-5234-A-7-D		280-23232		07/16/2010 13:30		1	TAL DEN	PMP

Lab ID: 280-5234-7 MS

Client ID: M34-NE BACK-070810

Sample Date/Time: 07/08/2010 15:00 Received Date/Time: 07/10/2010 09:45

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:300_Prep	280-5234-D-7-B MS		500-89762	500-89751	07/15/2010 13:00		1	TAL CHI	KD
A:7196A	280-5234-D-7-B MS		500-89762	500-89751	07/16/2010 13:37		1	TAL CHI	KD

Quality Control Results

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

Job Number: 280-5234-2

Laboratory Chronicle

Lab ID: 280-5234-7 MSD

Client ID: M34-NE BACK-070810

Sample Date/Time: 07/08/2010 15:00 Received Date/Time: 07/10/2010 09:45

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:300_Prep	280-5234-D-7-C MSD		500-89762	500-89751	07/15/2010	13:00	1	TAL CHI	KD
A:7196A	280-5234-D-7-C MSD		500-89762	500-89751	07/16/2010	13:38	1	TAL CHI	KD

Lab ID: 280-5234-8

Client ID: M34-CUTTINGS-070810

Sample Date/Time: 07/08/2010 16:15 Received Date/Time: 07/10/2010 09:45

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:5030B	280-5234-C-8		280-23407		07/16/2010	15:09	1	TAL DEN	MD
A:8260B	280-5234-C-8		280-23407		07/16/2010	15:09	1	TAL DEN	MD
P:3550C	280-5234-A-8-A		280-25217	280-22524	07/11/2010	09:25	1	TAL DEN	CDC
A:8270C	280-5234-A-8-A		280-25217	280-22524	08/02/2010	16:29	1	TAL DEN	DCK
P:5030B	280-5234-C-8-A		280-23436	280-22749	07/13/2010	11:07	1	TAL DEN	TEM
A:8015B	280-5234-C-8-A		280-23436	280-22749	07/15/2010	01:12	1	TAL DEN	TEM
P:3550C	280-5234-A-8-B		280-22885	280-22529	07/11/2010	12:10	1	TAL DEN	CDC
A:8015D	280-5234-A-8-B		280-22885	280-22529	07/13/2010	01:27	1	TAL DEN	MRB
P:20B	280-5234-A-8-G		280-24582	280-23725	07/26/2010	23:00	1	TAL DEN	JW
A:20B	280-5234-A-8-G		280-24582	280-23725	07/27/2010	18:09	1	TAL DEN	DW
P:3050B	280-5234-A-8-F		280-23824	280-23479	07/21/2010	09:00	1	TAL DEN	JW
A:6010B	280-5234-A-8-F		280-23824	280-23479	07/22/2010	01:11	1	TAL DEN	DW
P:3050B	280-5234-A-8-E		280-23997	280-23465	07/21/2010	09:00	1	TAL DEN	JW
A:6020	280-5234-A-8-E		280-23997	280-23465	07/23/2010	01:53	1	TAL DEN	TEL
P:7471A	280-5234-A-8-H		280-24299	280-23901	07/26/2010	08:30	1	TAL DEN	KS
A:7471A	280-5234-A-8-H		280-24299	280-23901	07/26/2010	12:29	1	TAL DEN	KS
P:300_Prep	280-5234-D-8-A		500-89762	500-89751	07/15/2010	13:00	1	TAL CHI	KD
A:7196A	280-5234-D-8-A		500-89762	500-89751	07/16/2010	13:38	1	TAL CHI	KD
A:7196A	280-5234-A-8		280-24413		07/27/2010	15:05	1	TAL DEN	JMB
A:9045C	280-5234-A-8-C		280-22764		07/13/2010	12:59	1	TAL DEN	LMK
A:9050A	280-5234-A-8-D		280-23232		07/16/2010	13:30	1	TAL DEN	PMP

Lab ID: 280-5234-8 MS

Client ID: M34-CUTTINGS-070810

Sample Date/Time: 07/08/2010 16:15 Received Date/Time: 07/10/2010 09:45

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:7471A	280-5234-A-8-I MS		280-24299	280-23901	07/26/2010	08:30	1	TAL DEN	KS
A:7471A	280-5234-A-8-I MS		280-24299	280-23901	07/26/2010	12:31	1	TAL DEN	KS

Quality Control Results

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

Job Number: 280-5234-2

Laboratory Chronicle

Lab ID: 280-5234-8 MSD

Client ID: M34-CUTTINGS-070810

Sample Date/Time: 07/08/2010 16:15 Received Date/Time: 07/10/2010 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:7471A	280-5234-A-8-J MSD		280-24299	280-23901	07/26/2010 08:30	1	TAL DEN	KS
A:7471A	280-5234-A-8-J MSD		280-24299	280-23901	07/26/2010 12:33	1	TAL DEN	KS

Lab ID: 280-5234-9

Client ID: M34-N. PIT BOTTOM-070810

Sample Date/Time: 07/08/2010 15:45 Received Date/Time: 07/10/2010 09:45

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:5030B	280-5234-C-9-B		280-23266	280-22953	07/14/2010 15:12	1	TAL DEN	JS
A:8260B	280-5234-C-9-B		280-23266	280-22953	07/15/2010 13:54	1	TAL DEN	HZ
P:3550C	280-5234-A-9-A		280-25217	280-22524	07/11/2010 09:25	1	TAL DEN	CDC
A:8270C	280-5234-A-9-A		280-25217	280-22524	08/02/2010 16:49	1	TAL DEN	DCK
P:5030B	280-5234-C-9-A		280-23436	280-22749	07/13/2010 11:07	1	TAL DEN	TEM
A:8015B	280-5234-C-9-A		280-23436	280-22749	07/15/2010 01:50	1	TAL DEN	TEM
P:3550C	280-5234-A-9-B		280-22885	280-22529	07/11/2010 12:10	5	TAL DEN	CDC
A:8015D	280-5234-A-9-B		280-22885	280-22529	07/13/2010 19:16	5	TAL DEN	MRB
P:20B	280-5234-A-9-G		280-24582	280-23725	07/26/2010 23:00	1	TAL DEN	JW
A:20B	280-5234-A-9-G		280-24582	280-23725	07/27/2010 18:11	1	TAL DEN	DW
P:3050B	280-5234-A-9-F		280-23824	280-23479	07/21/2010 09:00	1	TAL DEN	JW
A:6010B	280-5234-A-9-F		280-23824	280-23479	07/22/2010 01:13	1	TAL DEN	DW
P:3050B	280-5234-A-9-E		280-23997	280-23465	07/21/2010 09:00	1	TAL DEN	JW
A:6020	280-5234-A-9-E		280-23997	280-23465	07/23/2010 01:56	1	TAL DEN	TEL
P:7471A	280-5234-A-9-H		280-24299	280-23901	07/26/2010 08:30	1	TAL DEN	KS
A:7471A	280-5234-A-9-H		280-24299	280-23901	07/26/2010 12:36	1	TAL DEN	KS
P:300_Prep	280-5234-D-9-A		500-89762	500-89751	07/15/2010 13:00	1	TAL CHI	KD
A:7196A	280-5234-D-9-A		500-89762	500-89751	07/16/2010 13:39	1	TAL CHI	KD
A:7196A	280-5234-A-9		280-24413		07/27/2010 15:05	1	TAL DEN	JMB
A:9045C	280-5234-A-9-C		280-22764		07/13/2010 12:30	1	TAL DEN	LMK
A:9050A	280-5234-A-9-D		280-23232		07/16/2010 13:30	1	TAL DEN	PMP

Quality Control Results

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

Job Number: 280-5234-2

Laboratory Chronicle

Lab ID: 280-5234-10

Client ID: M34-S. PIT BOTTOM-070810

Sample Date/Time: 07/08/2010 15:20 Received Date/Time: 07/10/2010 09:45

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:5030B	280-5234-B-10-B	280-23266	280-22953	07/14/2010 15:12	1	TAL DEN	JS		
A:8260B	280-5234-B-10-B	280-23266	280-22953	07/15/2010 14:14	1	TAL DEN	HZ		
P:3550C	280-5234-A-10-A	280-25217	280-22524	07/11/2010 09:25	1	TAL DEN	CDC		
A:8270C	280-5234-A-10-A	280-25217	280-22524	08/02/2010 17:09	1	TAL DEN	DCK		
P:5030B	280-5234-B-10-A	280-23436	280-22749	07/13/2010 11:07	1	TAL DEN	TEM		
A:8015B	280-5234-B-10-A	280-23436	280-22749	07/15/2010 02:27	1	TAL DEN	TEM		
P:3550C	280-5234-A-10-B	280-22885	280-22529	07/11/2010 12:10	20	TAL DEN	CDC		
A:8015D	280-5234-A-10-B	280-22885	280-22529	07/13/2010 19:49	20	TAL DEN	MRB		
P:20B	280-5234-A-10-G	280-24582	280-23725	07/26/2010 23:00	1	TAL DEN	JW		
A:20B	280-5234-A-10-G	280-24582	280-23725	07/27/2010 18:14	1	TAL DEN	DW		
P:3050B	280-5234-A-10-F	280-23824	280-23479	07/21/2010 09:00	1	TAL DEN	JW		
A:6010B	280-5234-A-10-F	280-23824	280-23479	07/22/2010 01:16	1	TAL DEN	DW		
P:3050B	280-5234-A-10-E	280-23997	280-23465	07/21/2010 09:00	1	TAL DEN	JW		
A:6020	280-5234-A-10-E	280-23997	280-23465	07/23/2010 01:58	1	TAL DEN	TEL		
P:7471A	280-5234-A-10-H	280-24299	280-23901	07/26/2010 08:30	1	TAL DEN	KS		
A:7471A	280-5234-A-10-H	280-24299	280-23901	07/26/2010 12:38	1	TAL DEN	KS		
P:300_Prep	280-5234-D-10-A	500-89762	500-89751	07/15/2010 13:00	1	TAL CHI	KD		
A:7196A	280-5234-D-10-A	500-89762	500-89751	07/16/2010 13:40	1	TAL CHI	KD		
A:7196A	280-5234-A-10	280-24413		07/27/2010 15:05	1	TAL DEN	JMB		
A:9045C	280-5234-A-10-C	280-22764		07/13/2010 13:01	1	TAL DEN	LMK		
A:9050A	280-5234-A-10-D	280-23232		07/16/2010 13:30	1	TAL DEN	PMP		

Quality Control Results

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

Job Number: 280-5234-2

Laboratory Chronicle

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:5030B	MB 280-22953/1-A	280-23266	280-22953		07/14/2010 15:12		1	TAL DEN	JS
A:8260B	MB 280-22953/1-A	280-23266	280-22953		07/15/2010 10:37		1	TAL DEN	HZ
P:5030B	MB 280-23407/6	280-23407			07/16/2010 10:43		1	TAL DEN	MD
A:8260B	MB 280-23407/6	280-23407			07/16/2010 10:43		1	TAL DEN	MD
P:3550C	MB 280-22524/1-A	280-25217	280-22524		07/11/2010 09:25		1	TAL DEN	CDC
A:8270C	MB 280-22524/1-A	280-25217	280-22524		08/02/2010 13:47		1	TAL DEN	DCK
P:5030B	MB 280-22749/3-A	280-23436	280-22749		07/13/2010 11:02		1	TAL DEN	TEM
A:8015B	MB 280-22749/3-A	280-23436	280-22749		07/14/2010 15:12		1	TAL DEN	TEM
P:3550C	MB 280-22529/1-A	280-22885	280-22529		07/11/2010 12:10		1	TAL DEN	CDC
A:8015D	MB 280-22529/1-A	280-22885	280-22529		07/12/2010 21:38		1	TAL DEN	MRB
P:20B	MB 280-23725/1-A	280-24582	280-23725		07/26/2010 23:00		1	TAL DEN	JW
A:20B	MB 280-23725/1-A	280-24582	280-23725		07/27/2010 17:51		1	TAL DEN	DW
P:3050B	MB 280-23479/1-A	280-23824	280-23479		07/21/2010 09:00		1	TAL DEN	JW
A:6010B	MB 280-23479/1-A	280-23824	280-23479		07/22/2010 00:34		1	TAL DEN	DW
P:3050B	MB 280-23465/1-A	280-23997	280-23465		07/21/2010 09:00		1	TAL DEN	JW
A:6020	MB 280-23465/1-A	280-23997	280-23465		07/23/2010 01:11		1	TAL DEN	TEL
P:7471A	MB 280-23901/1-A	280-24299	280-23901		07/26/2010 08:30		1	TAL DEN	KS
A:7471A	MB 280-23901/1-A	280-24299	280-23901		07/26/2010 12:22		1	TAL DEN	KS
P:300_Prep	MB 500-89751/1-A	500-89762	500-89751		07/15/2010 13:00		1	TAL CHI	KD
A:7196A	MB 500-89751/1-A	500-89762	500-89751		07/16/2010 13:31		1	TAL CHI	KD
A:7196A	MB 280-24413/1	280-24413			07/27/2010 15:05		1	TAL DEN	JMB
A:9050A	MB 280-23203/1-A	280-23232			07/16/2010 13:30		1	TAL DEN	PMP

Quality Control Results

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

Job Number: 280-5234-2

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:5030B	LCS 280-22953/2-A	280-23266	280-22953	07/14/2010 15:12	1	TAL DEN	JS		
A:8260B	LCS 280-22953/2-A	280-23266	280-22953	07/15/2010 10:56	1	TAL DEN	HZ		
P:5030B	LCS 280-23407/4	280-23407		07/16/2010 09:36	1	TAL DEN	MD		
A:8260B	LCS 280-23407/4	280-23407		07/16/2010 09:36	1	TAL DEN	MD		
P:3550C	LCS 280-22524/2-A	280-25217	280-22524	07/11/2010 09:25	1	TAL DEN	CDC		
A:8270C	LCS 280-22524/2-A	280-25217	280-22524	08/02/2010 14:07	1	TAL DEN	DCK		
P:5030B	LCS 280-22749/1-A	280-23436	280-22749	07/13/2010 11:02	1	TAL DEN	TEM		
A:8015B	LCS 280-22749/1-A	280-23436	280-22749	07/14/2010 13:28	1	TAL DEN	TEM		
P:3550C	LCS 280-22529/2-A	280-22885	280-22529	07/11/2010 12:10	1	TAL DEN	CDC		
A:8015D	LCS 280-22529/2-A	280-22885	280-22529	07/12/2010 22:11	1	TAL DEN	MRB		
P:3050B	LCS 280-23479/2-A	280-23824	280-23479	07/21/2010 09:00	1	TAL DEN	JW		
A:6010B	LCS 280-23479/2-A	280-23824	280-23479	07/22/2010 00:36	1	TAL DEN	DW		
P:3050B	LCS 280-23465/2-A	280-23997	280-23465	07/21/2010 09:00	1	TAL DEN	JW		
A:6020	LCS 280-23465/2-A	280-23997	280-23465	07/23/2010 01:14	1	TAL DEN	TEL		
P:7471A	LCS 280-23901/2-A	280-24299	280-23901	07/26/2010 08:30	1	TAL DEN	KS		
A:7471A	LCS 280-23901/2-A	280-24299	280-23901	07/26/2010 12:24	1	TAL DEN	KS		
P:300_Prep	LCS 500-89751/2-A	500-89762	500-89751	07/15/2010 13:00	1	TAL CHI	KD		
A:7196A	LCS 500-89751/2-A	500-89762	500-89751	07/16/2010 13:32	1	TAL CHI	KD		
A:9045C	LCS 280-22764/4	280-22764		07/13/2010 12:06	1	TAL DEN	LMK		
A:9045C	LCS 280-22764/16	280-22764		07/13/2010 12:49	1	TAL DEN	LMK		
A:9050A	LCS 280-23232/3	280-23232		07/16/2010 13:30	1	TAL DEN	PMP		

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:5030B	LCSD 280-22953/3-A	280-23266	280-22953	07/14/2010 15:12	1	TAL DEN	JS		
A:8260B	LCSD 280-22953/3-A	280-23266	280-22953	07/15/2010 11:16	1	TAL DEN	HZ		
P:5030B	LCSD 280-23407/5	280-23407		07/16/2010 09:58	1	TAL DEN	MD		
A:8260B	LCSD 280-23407/5	280-23407		07/16/2010 09:58	1	TAL DEN	MD		
P:5030B	LCSD 280-22749/2-A	280-23436	280-22749	07/13/2010 11:02	1	TAL DEN	TEM		
A:8015B	LCSD 280-22749/2-A	280-23436	280-22749	07/14/2010 14:34	1	TAL DEN	TEM		
A:9045C	LCSD 280-22764/5	280-22764		07/13/2010 12:07	1	TAL DEN	LMK		
A:9045C	LCSD 280-22764/17	280-22764		07/13/2010 12:52	1	TAL DEN	LMK		
A:9050A	LCSD 280-23232/4	280-23232		07/16/2010 13:30	1	TAL DEN	PMP		

Quality Control Results

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

Job Number: 280-5234-2

Laboratory Chronicle

Lab ID: MS

Client ID: N/A

Sample Date/Time: 07/13/2010 10:00 Received Date/Time: 07/14/2010 09:15

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:5030B	280-5287-C-1-B MS	280-23266	280-22953	07/14/2010 15:12	1	TAL DEN	JS		
A:8260B	280-5287-C-1-B MS	280-23266	280-22953	07/15/2010 12:35	1	TAL DEN	HZ		
P:5030B	280-5251-E-6 MS	280-23407		07/16/2010 13:18	1	TAL DEN	MD		
A:8260B	280-5251-E-6 MS	280-23407		07/16/2010 13:18	1	TAL DEN	MD		
P:3550C	280-5234-A-2-B MS	280-25217	280-22524	07/11/2010 09:25	1	TAL DEN	CDC		
A:8270C	280-5234-A-2-B MS	280-25217	280-22524	08/02/2010 14:48	1	TAL DEN	DCK		
P:5030B	280-5251-C-6-B MS	280-23436	280-22749	07/13/2010 11:02	1	TAL DEN	TEM		
A:8015B	280-5251-C-6-B MS	280-23436	280-22749	07/14/2010 18:59	1	TAL DEN	TEM		
P:3550C	280-5234-A-12-C MS	280-22885	280-22529	07/11/2010 12:10	1	TAL DEN	CDC		
A:8015D	280-5234-A-12-C MS	280-22885	280-22529	07/13/2010 05:16	1	TAL DEN	MRB		
P:3050B	280-5234-A-2-O MS	280-23824	280-23479	07/21/2010 09:00	1	TAL DEN	JW		
A:6010B	280-5234-A-2-O MS	280-23824	280-23479	07/22/2010 00:43	1	TAL DEN	DW		
P:3050B	280-5234-A-2-L MS	280-23997	280-23465	07/21/2010 09:00	1	TAL DEN	JW		
A:6020	280-5234-A-2-L MS	280-23997	280-23465	07/23/2010 01:28	1	TAL DEN	TEL		

Lab ID: MSD

Client ID: N/A

Sample Date/Time: 07/13/2010 10:00 Received Date/Time: 07/14/2010 09:15

Method	Bottle ID	Run	Analysis		Date Prepared / Analyzed		Dil	Lab	Analyst
			Batch	Prep Batch					
P:5030B	280-5287-C-1-C MSD	280-23266	280-22953	07/14/2010 15:12	1	TAL DEN	JS		
A:8260B	280-5287-C-1-C MSD	280-23266	280-22953	07/15/2010 12:55	1	TAL DEN	HZ		
P:5030B	280-5251-E-6 MSD	280-23407		07/16/2010 13:40	1	TAL DEN	MD		
A:8260B	280-5251-E-6 MSD	280-23407		07/16/2010 13:40	1	TAL DEN	MD		
P:3550C	280-5234-A-2-C MSD	280-25217	280-22524	07/11/2010 09:25	1	TAL DEN	CDC		
A:8270C	280-5234-A-2-C MSD	280-25217	280-22524	08/02/2010 15:08	1	TAL DEN	DCK		
P:5030B	280-5251-C-6-C MSD	280-23436	280-22749	07/13/2010 11:02	1	TAL DEN	TEM		
A:8015B	280-5251-C-6-C MSD	280-23436	280-22749	07/14/2010 19:37	1	TAL DEN	TEM		
P:3550C	280-5234-A-12-D MSD	280-22885	280-22529	07/11/2010 12:10	1	TAL DEN	CDC		
A:8015D	280-5234-A-12-D MSD	280-22885	280-22529	07/13/2010 05:49	1	TAL DEN	MRB		
P:3050B	280-5234-A-2-P MSD	280-23824	280-23479	07/21/2010 09:00	1	TAL DEN	JW		
A:6010B	280-5234-A-2-P MSD	280-23824	280-23479	07/22/2010 00:46	1	TAL DEN	DW		
P:3050B	280-5234-A-2-M MSD	280-23997	280-23465	07/21/2010 09:00	1	TAL DEN	JW		
A:6020	280-5234-A-2-M MSD	280-23997	280-23465	07/23/2010 01:31	1	TAL DEN	TEL		

Quality Control Results

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

Job Number: 280-5234-2

Laboratory Chronicle

Lab ID:	DU	Client ID:	N/A	Sample Date/Time:	07/08/2010 12:30	Received Date/Time:	07/10/2010 09:45	
Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
A:9045C	280-5234-A-2-F DU		280-22764		07/13/2010 12:11	1	TAL DEN	LMK
A:9045C	280-5234-A-4-C DU		280-22764		07/13/2010 12:54	1	TAL DEN	LMK
A:9050A	280-5234-A-2-H DU		280-23232		07/16/2010 13:30	1	TAL DEN	PMP

Lab References:

TAL CHI = TestAmerica Chicago

TAL DEN = TestAmerica Denver

Constituents of Concern: Allowable Concentrations and Analytical Methods (COGCC Table 910-1)

CONTAMINANT OF CONCERN	CONCENTRATIONS ¹	ANALYTICAL METHOD (SW846)
<i>Organic Compounds in Soil</i>		
TPH (total volatile and extractable petroleum hydrocarbons)	500 mg/kg	8015
Benzene	0.17 mg/kg ²	8260B
Toluene	85 mg/kg ²	8260B
Ethylbenzene	100 mg/kg ²	8260B
Xylenes (total)	175 mg/kg ²	8260B
Acenaphthene	1,000 mg/kg ²	8270C
Anthracene	1,000 mg/kg ²	8270C
Benzo(A)anthracene	0.22 mg/kg ²	8270C
Benzo(B)fluoranthene	0.22 mg/kg ²	8270C
Benzo(K)fluoranthene	2.2 mg/kg ²	8270C
Benzo(A)pyrene	0.022 mg/kg ²	8270C
Chrysene	22 mg/kg ²	8270C
Dibenzo(A,H)anthracene	0.022 mg/kg ²	8270C
Fluoranthene	1,000 mg/kg ²	8270C
Fluorene	1,000 mg/kg ²	8270C
Indeno(1,2,3,C,D)pyrene	0.22 mg/kg ²	8270C
Naphthalene	23 mg/kg ²	8270C
Pyrene	1,000 mg/kg ²	8270C
<i>Inorganics in Soils</i>		
Electrical Conductivity (EC)	<4 mmhos/cm or 2x background	9050
Sodium Adsorption Ratio (SAR)	<12 ⁵	ADNR29B
pH	6-9	9045C
<i>Metals in Soils</i>		
Arsenic	0.39 mg/kg ^{2,6}	6010B
Barium	15,000 mg/kg ²	6010B
Cadmium	70 mg/kg ^{3,6}	6010B
Chromium (III)	120,000 mg/kg ²	6010B
Chromium (VI)	123 mg/kg ^{2,6}	6010B
Copper	3,100 mg/kg ²	6010B
Lead (inorganic)	400 mg/kg ²	6010B
Mercury	23 mg/kg ²	6010B
Nickel (soluble salts)	1,600 mg/kg ^{2,6}	6010B
Selenium	390 mg/kg ^{2,6}	6010B
Silver	390 mg/kg ²	6010BB
Zinc	23,000 mg/kg ^{2,6}	6010B
<i>Liquid Hydrocarbons in Soils and Ground Water</i>		
Liquid hydrocarbons including condensate and oil	Below detection level	Visual

COGCC recommends that the latest version of EPA SW-846 analytical methods be used where possible and that analyses of samples be performed by laboratories that maintain state or national accreditation programs.

1 Consideration shall be given to background levels in native soils and ground water.

2 Concentrations taken from CDPHE-HMWMD Table 1 Colorado Soil Evaluation Values (December 2007).

3 Concentrations taken from CDPHE-WQCC Regulation 41 - The Basic Standards for Ground Water.

4 For this range of standards, the first number in the range is a strictly health-based value, based on the WQCC's established methodology for human health-based standards. The second number in the range is a maximum contaminant level (MCL), established under the Federal Safe Drinking Water Act which has been 900-22 As of April 1, 2009 900-23 As of April 1, 2009 determined to be an acceptable level of this chemical in public water supplies, taking treatability and laboratory detection limits into account. The WQCC intends that control requirements for this chemical be implemented to attain a level of ambient water quality that is at least equal to the first number in the range except as follows: 1) where ground water quality exceeds the first number in the range due to a release of contaminants that occurred prior to September 14, 2004 (regardless of the date of discovery or subsequent migration of such contaminants) clean-up levels for the entire contaminant plume shall be no more restrictive than the second number in the range or the ground water quality resulting from such release, whichever is more protective, and 2) whenever the WQCC has adopted alternative, site-specific standards for the chemical, the site-specific standards shall apply instead of these statewide standards.

5 Analysis by USDA Agricultural Handbook 60 method (20B) with soluble cations determined by method (2). Method (20B) = estimation of exchangeable sodium percentage and exchangeable potassium percentage from soluble cations. Method (2) = saturated paste method (note: each analysis requires a unique sample of at least 500 grams). If soils are saturated, USDA Agricultural Handbook 60 with soluble cations determined by method (3A) saturation extraction method.

6 The table value for these inorganic constituents is taken from the CDPHE-HMWMD Table 1 Colorado Soil Evaluation Values (December 2007). However, because these values are high, it is possible that site-specific geochemical conditions may exist that could allow these constituents to migrate into ground water at levels exceeding ground water standards even though the concentrations are below the table values. Therefore, when these constituents are present as contaminants, a secondary evaluation of their leachability must be performed to ensure ground water protection.

Login Sample Receipt Check List

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

Job Number: 280-5234-2

Login Number: 5234

List Source: TestAmerica Denver

Creator: Miller, Lisa

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.	False	COC FOR E06-CUTTINGS-070810 SAYS 1 CONTAINER, 3 CONTAINERS REC.
Is the Field Sampler's name present on COC?	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	
Sample Preservation Verified	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	

Login Sample Receipt Check List

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

Job Number: 280-5234-2

Login Number: 5234

List Source: TestAmerica Chicago

Creator: Lunt, Jeff T

List Creation: 07/13/10 10:42 AM

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	
Is the Field Sampler's name present on COC?	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	
Sample Preservation Verified	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	



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

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Est. 1970

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

Report Summary

Monday August 23, 2010

Report Number: L474577

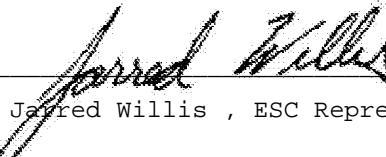
Samples Received: 08/19/10

Client Project: M34 PIT CLOSURE

Description: M34 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:


Jared 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.

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REPORT OF ANALYSIS

August 23, 2010

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

Date Received : August 19, 2010
Description : M34 Pit Closure
Sample ID : M34-SE BACK-081710
Collected By : Blair Rollins
Collection Date : 08/17/10 13:25

ESC Sample # : L474577-01

Site ID :

Project # : M34 PIT CLOSURE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.3	1.0	mg/kg	6010B	08/21/10	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: 08/23/10 16:47 Printed: 08/23/10 16:53



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Fax (615) 758-5859

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REPORT OF ANALYSIS

August 23, 2010

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

Date Received : August 19, 2010
Description : M34 Pit Closure
Sample ID : M34-S BACK-081710
Collected By : Blair Rollins
Collection Date : 08/17/10 13:30

ESC Sample # : L474577-02

Site ID :

Project # : M34 PIT CLOSURE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	14.	1.0	mg/kg	6010B	08/21/10	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

August 23, 2010

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

Date Received : August 19, 2010
Description : M34 Pit Closure
Sample ID : M34-SW BACK-081710
Collected By : Blair Rollins
Collection Date : 08/17/10 13:35

ESC Sample # : L474577-03

Site ID :

Project # : M34 PIT CLOSURE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.1	1.0	mg/kg	6010B	08/21/10	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

August 23, 2010

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

Date Received : August 19, 2010
Description : M34 Pit Closure
Sample ID : M34-S PIT-081710
Collected By : Blair Rollins
Collection Date : 08/17/10 14:10

ESC Sample # : L474577-04

Site ID :

Project # : M34 PIT CLOSURE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	3.6	1.0	mg/kg	6010B	08/20/10	1
Benzene	BDL	0.0025	mg/kg	8021/8015	08/19/10	5
Toluene	BDL	0.025	mg/kg	8021/8015	08/19/10	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	08/19/10	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	08/19/10	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	08/19/10	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	103.		% Rec.	8021/8015	08/19/10	5
a,a,a-Trifluorotoluene(PID)	107.		% Rec.	8021/8015	08/19/10	5
TPH (GC/FID) High Fraction	2000	80.	mg/kg	3546/DRO	08/22/10	20
Surrogate recovery(%)	0.00		% Rec.	3546/DRO	08/22/10	20
o-Terphenyl						

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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August 23, 2010

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

Date Received : August 19, 2010
Description : M34 Pit Closure
Sample ID : M34-N PIT-081710
Collected By : Blair Rollins
Collection Date : 08/17/10 14:30

ESC Sample # : L474577-05

Site ID :

Project # : M34 PIT CLOSURE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.9	1.0	mg/kg	6010B	08/20/10	1
TPH (GC/FID) Low Fraction Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	BDL	0.50	mg/kg	8015D/GRO	08/20/10	5
TPH (GC/FID) High Fraction Surrogate recovery(%) o-Terphenyl	118.		% Rec.	602/8015	08/20/10	5
	3000	80.	mg/kg	3546/DRO	08/22/10	20
	0.00		% Rec.	3546/DRO	08/22/10	20

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

August 23, 2010

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

Date Received : August 19, 2010
Description : M34 Pit Closure
Sample ID : M34-SPOILS-081710
Collected By : Blair Rollins
Collection Date : 08/17/10 14:50

ESC Sample # : L474577-06

Site ID :

Project # : M34 PIT CLOSURE

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.4	1.0	mg/kg	6010B	08/20/10	1
Benzene	BDL	0.0025	mg/kg	8021/8015	08/19/10	5
Toluene	BDL	0.025	mg/kg	8021/8015	08/19/10	5
Ethylbenzene	0.0026	0.0025	mg/kg	8021/8015	08/19/10	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	08/19/10	5
TPH (GC/FID) Low Fraction	3.1	0.50	mg/kg	GRO	08/19/10	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	103.		% Rec.	8021/8015	08/19/10	5
a,a,a-Trifluorotoluene(PID)	105.		% Rec.	8021/8015	08/19/10	5
TPH (GC/FID) High Fraction	1400	80.	mg/kg	3546/DRO	08/22/10	20
Surrogate recovery(%)	0.00		% Rec.	3546/DRO	08/22/10	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: 08/23/10 16:47 Printed: 08/23/10 16:53

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L474577-04	WG494373	SAMP	o-Terphenyl	R1338829	J7
L474577-05	WG494373	SAMP	o-Terphenyl	R1338829	J7
L474577-06	WG494373	SAMP	o-Terphenyl	R1338829	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 Difference.

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

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

Summary of Remarks For Samples Printed
08/23/10 at 16:53:22

TSR Signing Reports: 358
R3 - Rush: Two Day

Create p-keys for projects. Enter project name as Project Number and Project Name. Log all samples to separate L#s. See L471333 when COC says see attached list. PAHs = SV8270PAHSIM. BTEX = 8021.

Sample: L474577-01 Account: ENCANACO Received: 08/19/10 09:00 Due Date: 08/23/10 00:00 RPT Date: 08/23/10 16:47

Sample: L474577-02 Account: ENCANACO Received: 08/19/10 09:00 Due Date: 08/23/10 00:00 RPT Date: 08/23/10 16:47

Sample: L474577-03 Account: ENCANACO Received: 08/19/10 09:00 Due Date: 08/23/10 00:00 RPT Date: 08/23/10 16:47

Sample: L474577-04 Account: ENCANACO Received: 08/19/10 09:00 Due Date: 08/23/10 00:00 RPT Date: 08/23/10 16:47

Sample: L474577-05 Account: ENCANACO Received: 08/19/10 09:00 Due Date: 08/23/10 00:00 RPT Date: 08/23/10 16:47

Sample: L474577-06 Account: ENCANACO Received: 08/19/10 09:00 Due Date: 08/23/10 00:00 RPT Date: 08/23/10 16:47



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2717 County Road 215, Suite 100

Parachute, CO 81635

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

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Quality Assurance Report
Level II

L474577

August 23, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Benzene	< .0005	mg/kg			WG494211	08/19/10 14:24
Ethylbenzene	< .0005	mg/kg			WG494211	08/19/10 14:24
Toluene	< .005	mg/kg			WG494211	08/19/10 14:24
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG494211	08/19/10 14:24
Total Xylene	< .0015	mg/kg			WG494211	08/19/10 14:24
a,a,a-Trifluorotoluene(FID)		% Rec.	103.3	59-128	WG494211	08/19/10 14:24
a,a,a-Trifluorotoluene(PID)		% Rec.	106.9	54-144	WG494211	08/19/10 14:24
TPH (GC/FID) High Fraction	< 4	ppm			WG494373	08/20/10 08:06
o-Terphenyl		% Rec.	96.56	50-150	WG494373	08/20/10 08:06
Arsenic	< 1	mg/kg			WG494363	08/20/10 11:22
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG494250	08/19/10 15:02
a,a,a-Trifluorotoluene(FID)		% Rec.	117.4	59-128	WG494250	08/19/10 15:02
Arsenic	< 1	mg/kg			WG494361	08/21/10 13:00
Arsenic	< 1	mg/kg			WG494575	08/22/10 09:47

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Arsenic	mg/kg	4.20	4.31	2.35	20	L474594-04	WG494363
Arsenic	mg/kg	11.0	11.3	3.60	20	L474438-07	WG494361
Arsenic	mg/kg	16.0	14.0	12.1	20	L474577-02	WG494575

Analyte	Units	Laboratory Control Sample	Known Val	Result	% Rec	Limit	Batch
Benzene	mg/kg	.05		0.0539	108.	76-113	WG494211
Ethylbenzene	mg/kg	.05		0.0539	108.	78-115	WG494211
Toluene	mg/kg	.05		0.0524	105.	76-114	WG494211
Total Xylene	mg/kg	.15		0.156	104.	81-118	WG494211
a,a,a-Trifluorotoluene(PID)	mg/kg				106.9	54-144	WG494211
TPH (GC/FID) Low Fraction	mg/kg	5.5		5.53	101.	67-135	WG494211
a,a,a-Trifluorotoluene(FID)					108.0	59-128	WG494211
TPH (GC/FID) High Fraction	ppm	60		47.6	79.3	50-150	WG494373
o-Terphenyl					99.69	50-150	WG494373
Arsenic	mg/kg	192		163.	84.9	78.6-120.8	WG494363
TPH (GC/FID) Low Fraction	mg/kg	5.5		4.90	89.1	67-135	WG494250
a,a,a-Trifluorotoluene(FID)					77.10	59-128	WG494250

* 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

L474577

August 23, 2010

Analyte	Units	Laboratory Control Sample Known Val Result			% Rec	Limit	Batch
Arsenic	mg/kg	192	164.		85.4	78.6-120.8	WG494361
Arsenic	mg/kg	192	205.		107.	78.6-120.8	WG494575

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
Benzene	mg/kg	0.0550	0.0539	110.	76-113	2.06	20	WG494211
Ethylbenzene	mg/kg	0.0536	0.0539	107.	78-115	0.590	20	WG494211
Toluene	mg/kg	0.0528	0.0524	106.	76-114	0.750	20	WG494211
Total Xylene	mg/kg	0.155	0.156	103.	81-118	0.640	20	WG494211
a,a,a-Trifluorotoluene(PID)				107.5	54-144			WG494211
TPH (GC/FID) Low Fraction	mg/kg	6.15	5.53	112.	67-135	10.7	20	WG494211
a,a,a-Trifluorotoluene(FID)				107.6	59-128			WG494211
TPH (GC/FID) High Fraction	ppm	47.2	47.6	79.0	50-150	0.877	25	WG494373
o-Terphenyl				102.4	50-150			WG494373
TPH (GC/FID) Low Fraction	mg/kg	5.00	4.90	91.0	67-135	1.95	20	WG494250
a,a,a-Trifluorotoluene(FID)				76.64	59-128			WG494250

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Benzene	mg/kg	0.224	0.00110	.05	89.2	32-137	L474297-01	WG494211
Ethylbenzene	mg/kg	0.172	0	.05	68.9	10-150	L474297-01	WG494211
Toluene	mg/kg	0.175	0	.05	69.9	20-142	L474297-01	WG494211
Total Xylene	mg/kg	0.510	0.0200	.15	65.3	16-141	L474297-01	WG494211
a,a,a-Trifluorotoluene(PID)					106.2	54-144		WG494211
TPH (GC/FID) Low Fraction	mg/kg	25.5	5.40	5.5	73.1	55-109	L474297-01	WG494211
a,a,a-Trifluorotoluene(FID)					104.7	59-128		WG494211
Arsenic	mg/kg	47.7	4.31	50	86.8	75-125	L474594-04	WG494363
TPH (GC/FID) Low Fraction	mg/kg	4.48	0.295	5.5	76.0	55-109	L474454-03	WG494250
a,a,a-Trifluorotoluene(FID)					81.92	59-128		WG494250
Arsenic	mg/kg	58.5	11.3	10	94.4	75-125	L474438-07	WG494361
Arsenic	mg/kg	56.2	14.0	50	84.4	75-125	L474577-02	WG494575

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/kg	0.233	0.224	92.7	32-137	3.79	39	L474297-01	WG494211
Ethylbenzene	mg/kg	0.182	0.172	73.0	10-150	5.76	44	L474297-01	WG494211
Toluene	mg/kg	0.180	0.175	72.0	20-142	2.88	42	L474297-01	WG494211
Total Xylene	mg/kg	0.528	0.510	67.7	16-141	3.47	46	L474297-01	WG494211
a,a,a-Trifluorotoluene(PID)				107.0	54-144				WG494211
TPH (GC/FID) Low Fraction	mg/kg	24.0	25.5	67.6	55-109	6.14	20	L474297-01	WG494211
a,a,a-Trifluorotoluene(FID)				104.6	59-128				WG494211

* 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 or Brad Kieding
2717 County Road 215, Suite 100

Parachute, CO 81635

Quality Assurance Report
Level II

L474577

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

August 23, 2010

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
Arsenic	mg/kg	46.3	47.7	84.0	75-125	2.98	20	L474594-04		WG494363
TPH (GC/FID) Low Fraction	mg/kg	4.66	4.48	79.4	55-109	4.02	20	L474454-03		WG494250
a,a,a-Trifluorotoluene(FID)				82.92	59-128					WG494250
Arsenic	mg/kg	57.0	58.5	91.4	75-125	2.60	20	L474438-07		WG494361
Arsenic	mg/kg	57.6	56.2	87.2	75-125	2.46	20	L474577-02		WG494575

Batch number /Run number / Sample number cross reference

WG494211: R1338388: L474577-04 06
WG494373: R1338829: L474577-04 05 06
WG494363: R1339409: L474577-04 05 06
WG494250: R1339648: L474577-05
WG494361: R1341331: L474577-01 03
WG494575: R1341551: L474577-02

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

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August 23, 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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Mt. Juliet, TN 37122
(615) 758-5858
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Fax (615) 758-5859

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

Report Summary

Thursday September 16, 2010

Report Number: L478532a

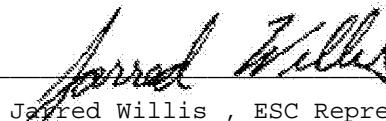
Samples Received: 09/14/10

Client Project:

Description:

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

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 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

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Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

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Fax (615) 758-5859

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REPORT OF ANALYSIS

September 16, 2010

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

Date Received : September 14, 2010
Description :
Sample ID : M34-N PIT BOTTOM
Collected By : C. Jensen
Collection Date : 09/13/10 10:20

ESC Sample # : L478532-01

Site ID :
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	BDL 104.	0.50	mg/kg % Rec.	8015D/GRO 602/8015	09/15/10	5
TPH (GC/FID) High Fraction Surrogate recovery(%) o-Terphenyl	2600 0.00	80.	mg/kg % Rec.	3546/DRO 3546/DRO	09/15/10	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: 09/16/10 09:19 Printed: 09/16/10 09:19



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REPORT OF ANALYSIS

September 16, 2010

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

Date Received : September 14, 2010
Description :
Sample ID : M34-S PIT BOTTOM
Collected By : C. Jensen
Collection Date : 09/13/10 00:00

ESC Sample # : L478532-02

Site ID :
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	2.0	0.50	mg/kg	8015D/GRO	09/14/10	5
Surrogate Recovery (70-130)	103.		% Rec.	602/8015	09/14/10	5
a,a,a-Trifluorotoluene(FID)						
TPH (GC/FID) High Fraction	2500	80.	mg/kg	3546/DRO	09/15/10	20
Surrogate recovery(%)	0.00		% Rec.	3546/DRO	09/15/10	20
o-Terphenyl						

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: 09/16/10 09:19 Printed: 09/16/10 09:19

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L478532-01	WG498283	SAMP	o-Terphenyl	R1377348	J7
L478532-02	WG498283	SAMP	o-Terphenyl	R1377348	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 Difference.

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

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

Summary of Remarks For Samples Printed
09/16/10 at 09:19:39

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L478532-01 Account: ENCANACO Received: 09/14/10 09:00 Due Date: 09/16/10 00:00 RPT Date: 09/16/10 09:19
Sample: L478532-02 Account: ENCANACO Received: 09/14/10 09:00 Due Date: 09/16/10 00:00 RPT Date: 09/16/10 09:19
Sample: L478532-03 Account: ENCANACO Received: 09/14/10 09:00 Due Date: 09/16/10 00:00 RPT Date: 09/16/10 09:19
Sample: L478532-04 Account: ENCANACO Received: 09/14/10 09:00 Due Date: 09/16/10 00:00 RPT Date: 09/16/10 09:19
Sample: L478532-05 Account: ENCANACO Received: 09/14/10 09:00 Due Date: 09/16/10 00:00 RPT Date: 09/16/10 09:19



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Chris Hines or Brad Kieding
2717 County Road 215, Suite 100

Parachute, CO 81635

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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Quality Assurance Report
Level II

L478532

September 16, 2010

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG498225	09/14/10 16:28
a,a,a-Trifluorotoluene(FID)		% Rec.	104.2	59-128	WG498225	09/14/10 16:28
TPH (GC/FID) High Fraction	< 4	ppm			WG498283	09/15/10 11:18
o-Terphenyl		% Rec.	58.76	50-150	WG498283	09/15/10 11:18
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG498364	09/15/10 12:48
a,a,a-Trifluorotoluene(FID)		% Rec.	101.4	59-128	WG498364	09/15/10 12:48

Analyte	Units	Laboratory Control Sample		Limit	Batch
		Known Val	Result	% Rec	
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.67	103.	67-135
a,a,a-Trifluorotoluene(FID)				104.5	59-128
TPH (GC/FID) High Fraction	ppm	60	48.2	80.3	50-150
o-Terphenyl				69.39	50-150
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.19	94.3	67-135
a,a,a-Trifluorotoluene(FID)				108.8	59-128

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
TPH (GC/FID) Low Fraction	mg/kg	6.06	5.67	110.	67-135	6.66	20	WG498225
a,a,a-Trifluorotoluene(FID)				105.4	59-128			WG498225
TPH (GC/FID) High Fraction	ppm	47.0	48.2	78.0	50-150	2.60	25	WG498283
o-Terphenyl				69.67	50-150			WG498283
TPH (GC/FID) Low Fraction	mg/kg	5.58	5.19	101.	67-135	7.23	20	WG498364
a,a,a-Trifluorotoluene(FID)				110.7	59-128			WG498364

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	mg/kg	26.1	0	5.5	94.8	55-109	L478525-01	WG498225
a,a,a-Trifluorotoluene(FID)					101.7	59-128		WG498225
TPH (GC/FID) High Fraction	ppm	45.6	0	60	76.0	50-150	L478212-01	WG498283
o-Terphenyl					66.60	50-150		WG498283
TPH (GC/FID) Low Fraction	mg/kg	18.9	0	5.5	68.7	55-109	L478532-01	WG498364
a,a,a-Trifluorotoluene(FID)					103.7	59-128		WG498364

Analyte	Units	MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	mg/kg	27.7	26.1	101.	55-109	5.95	20	L478525-01	WG498225
a,a,a-Trifluorotoluene(FID)				103.8	59-128				WG498225

* 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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12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
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Quality Assurance Report
Level II

L478532

September 16, 2010

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref	Samp	Batch
			Ref	%Rec						
TPH (GC/FID) High Fraction o-Terphenyl	ppm	45.5	45.6	75.9 67.69	50-150 50-150	0.188	25	L478212-01		WG498283 WG498283
TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID)	mg/kg	18.5	18.9	67.4 103.4	55-109 59-128	1.89	20	L478532-01		WG498364 WG498364

Batch number /Run number / Sample number cross reference

WG498225: R1375668: L478532-02 03 04 05
WG498283: R1377348: L478532-01 02 03 04 05
WG498364: R1377408: L478532-01

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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.



10/01/10

Technical Report for

ENCANA

M34 Spoils Pile

Accutest Job Number: T60781

Sampling Date: 09/28/10

Report to:

EnCana
2717 Co. Rd. 215
Parachute, CO 81635
christopher.hines@encana.com

ATTN: Chris Hines

Total number of pages in report: 18



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads "Paul K Canevaro".

Paul Canevaro
Laboratory Director

Client Service contact: Sylvia Garza 713-271-4700

Certifications: TX (T104704220-09C-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)
OK (9103)

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Test results relate only to samples analyzed.

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Sample Summary

ENCANA

Job No: T60781

M34 Spoils Pile

Sample Number	Collected Date	Time By	Matrix Received	Code Type	Client Sample ID	
T60781-1	09/28/10	10:20	09/29/10	SO	Soil	M34-SPOILS-092810

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: ENCANA

Job No T60781

Site: M34 Spoils Pile

Report Date 10/1/2010 3:04:45 PM

1 Sample(s), were collected on 09/28/2010 and were received at Accutest on 09/29/2010 properly preserved, at 4.4 Deg. C and intact. These Samples received an Accutest job number of T60781. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report.

Except as noted below, all method specified calibrations and quality control performance criteria were met for this job. For more information, please refer to QC summary pages.

Volatiles by GC By Method SW846 8015

Matrix SO	Batch ID: GHH87
------------------	------------------------

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) T60778-1MS, T60778-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for TPH-GRO (C6-C10) are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for TPH-GRO (C6-C10) are outside control limits. Probable cause due to matrix interference.

Extractables by GC By Method SW846 8015 M

Matrix SO	Batch ID: OP16217
------------------	--------------------------

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- T60781-1 for o-Terphenyl: Outside control limits due to dilution.

Wet Chemistry By Method SM 2540 G

Matrix SO	Batch ID: GN25733
------------------	--------------------------

- Sample(s) T60548-7DUP were used as the QC samples for Solids, Percent.

Accutest Laboratories Gulf Coast (ALGC) certifies that this report meets the project requirements for analytical data produced for the samples as received at ALGC and as stated on the COC. ALGC certifies that the data meets the Data Quality Objectives for precision, accuracy and completeness as specified in the ALGC Quality Manual except as noted above. This report is to be used in its entirety. ALGC is not responsible for any assumptions of data quality if partial data packages are used



Sample Results

Report of Analysis

Report of Analysis

Page 1 of 1

3

Client Sample ID: M34-SPOILS-092810
Lab Sample ID: T60781-1
Matrix: SO - Soil
Method: SW846 8015
Project: M34 Spoils Pile

Date Sampled: 09/28/10
Date Received: 09/29/10
Percent Solids: 77.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH0001712.D	1	10/01/10	LB	n/a	n/a	GHH87
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.22 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	Units	Q
----------------	-----------------	---------------	-----------	--------------	----------

	TPH-GRO (C6-C10)	10.0	7.7	mg/kg	
--	------------------	------	-----	-------	--

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
----------------	-----------------------------	---------------	---------------	---------------

460-00-4	4-Bromofluorobenzene	97%		46-127%
98-08-8	aaa-Trifluorotoluene	97%		44-120%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

3.1

3

Client Sample ID: M34-SPOILS-092810
Lab Sample ID: T60781-1
Matrix: SO - Soil
Method: SW846 8015 M SW846 3550B
Project: M34 Spoils Pile

Date Sampled: 09/28/10
Date Received: 09/29/10
Percent Solids: 77.0

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	JJ7203.D	10	09/30/10	EM	09/29/10	OP16217	GJB66
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	3560	43	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	0% ^a		33-115%

(a) Outside control limits due to dilution.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

FED-EX Tracking #		Bottle Order Control #	
Accutest Quote #		Accutest Job #	
		T60781	
Requested Analyses			
Matrix Codes			
DW - Drinking Water GW - Ground Water WW - Wastewater SD - Soil SL - Sludge OI - Oil LIQ - Other Liquid SOL - Other Solid			

Client / Reporting Information			Project Information			TPH - DRO and GRO							
Company Name EnCana Oil & Gas (USA) Inc.			Project Name / No. M34 Spoils Pile										
Project Contact Chris Hines Address 2717 County Road 215, Suite 100 City Parachute, CO 81635			Bill to Invoice Attn. Address										
Phone No. 970.285.2653			City State Zip										
Fax No.			Status Zip										
Sampler's Name Chris Hines			Phone No. Fax No.										
Client Purchase Order #													
Accutest Sample #	Field ID / Point of Collection	Collection		Number of preserved bottles									
		Date	Time	Matrix	# of bottles		HG	Mercury	HVO	HDSO	EnCore	NANO	MECH
	M34 - Spoils - 092810	09/28/2010	1020	SS	1						X	X	
<i>BL K Rele</i>													
Turnaround Time (Business days)		Data Deliverable Information				Comments / Remarks							
<input type="checkbox"/> 14 Day STANDARD	<input type="checkbox"/> Approved By/ Date:	<input type="checkbox"/> Commercial "A"	<input type="checkbox"/> State Forms	<i>[Redacted]</i>									
<input type="checkbox"/> 5 Day RUSH	<input type="checkbox"/> _____	<input type="checkbox"/> Commercial "B"	<input type="checkbox"/> EDD Format _____										
<input type="checkbox"/> 4 Day RUSH	<input type="checkbox"/> _____	<input type="checkbox"/> Reduced Tier 1	<input type="checkbox"/> Other _____	<i>[Redacted]</i>									
<input type="checkbox"/> 3 Day EMERGENCY	<input type="checkbox"/> _____	<input type="checkbox"/> Full Data Package	<input type="checkbox"/> _____										
<input type="checkbox"/> 2 Day EMERGENCY	<input type="checkbox"/> _____	<i>[Redacted]</i>											
<input checked="" type="checkbox"/> 1 Day EMERGENCY	<input type="checkbox"/> _____												
<input type="checkbox"/> Other	<input type="checkbox"/> _____	<i>[Redacted]</i>											
<i>Real time analytical data available via Lablink</i>													
SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION, INCLUDING COURIER DELIVERY													
Relinquished by Sampler: <i>BL K Rele</i>	Date Time: 9/28/10	Received By: Fed Ex	Relinquished By: 2 Fed Ex	Date Time: 9/28/10	Received By: 2								
Relinquished by:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:								
Relinquished by:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4								
		Custody Seal # 5	Preserved where applicable <input type="checkbox"/>	On Ice <input checked="" type="checkbox"/>	Cooler Temp. 44°F								

T60781: Chain of Custody

Page 1 of 3

SAMPLE INSPECTION FORM

Accutest Job Number: T60781 Client: Encana Oil & Gas (USA) Inc. Date/Time Received: 9-29-10 9:15

of Coolers Received: 1 Thermometer #: JR Gunay Temperature Adjustment Factor: 0.0

Cooler Temperatures (initial/adjusted): #1: 4.4 °C #2: _____ #3: _____ #4: _____ #5: _____

#6: _____ #7: _____ #8: _____ #9: _____ #10: _____ #11: _____ #12: _____

Method of Delivery: FEDEX

UPS

Accutest Courier

Greyhound

Delivery

Other

COOLER INFORMATION

- Custody seal missing or not intact
- Temperature criteria not met
- Wet ice received in cooler

CHAIN OF CUSTODY

- Chain of Custody not received
- Sample D/T unclear or missing
- Analyses unclear or missing
- COC not properly executed

Summary of Discrepancies:

SAMPLE INFORMATION

- Sample containers received broken
- VOC vials have headspace
- Sample labels missing or illegible
- ID on COC does not match label(s)
- D/T on COC does not match label(s)
- Sample/Bottles rcvd but no analysis on COC
- Sample listed on COC, but not received
- Bottles missing for requested analysis
- Insufficient volume for analysis
- Sample received improperly preserved

TRIP BLANK INFORMATION

- Trip Blank on COC but not received
- Trip Blank received but not on COC
- Trip Blank not intact
- Received Water Trip Blank
- Received Soil TB

Number of Encores? _____

Number of 5035 kits? _____

Number of lab-filtered metals? _____

TECHNICIAN SIGNATURE/DATE: Enola 9-29-10

INFORMATION AND SAMPLE LABELING VERIFIED BY: PLA 9/29/10

CORRECTIVE ACTIONS

Client Representative Notified: _____

Date: _____

By Accutest Representative: _____

Via: _____ Phone: _____ Email: _____

Client Instructions:

Kimwalkerfor samplemanagement SM023 Revised 8/11/10

T60781: Chain of Custody

Page 2 of 3

SAMPLE RECEIPT LOG

JOB #:

DATE/TIME RECEIVED: 9-29-12 915

9.29-10 915

CLIENT:

INITIALS: EC

PRESERVATIVES: 1: None 2: HCL 3: HNO₃ 4: H₂SO₄ 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SU: Subcontract EE: Encore Freezer

Rev B/13/01 ewn

T60781: Chain of Custody

Page 3 of 3



GC Volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: T60781

Account: ENCACOP ENCANA

Project: M34 Spoils Pile

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GHH87-MB	HH0001709.D		10/01/10	LB	n/a	n/a	GHH87

The QC reported here applies to the following samples:

Method: SW846 8015

T60781-1

CAS No.	Compound	Result	RL	Units	Q
	TPH-GRO (C6-C10)	ND	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits	
460-00-4	4-Bromofluorobenzene	90%	46-127%
98-08-8	aaa-Trifluorotoluene	99%	44-120%

Blank Spike Summary

Page 1 of 1

Job Number: T60781
Account: ENCACOP ENCANA
Project: M34 Spoils Pile

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GHH87-BS	HH0001707.D		10/01/10	LB	n/a	n/a	GHH87

The QC reported here applies to the following samples:

Method: SW846 8015

T60781-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	0.4	0.394	99	78-115

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	92%	46-127%
98-08-8	aaa-Trifluorotoluene	104%	44-120%

5.2.1
5

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: T60781
Account: ENCACOP ENCANA
Project: M34 Spoils Pile

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T60778-1MS	HH0001719.D		10/01/10	LB	n/a	n/a	GHH87
T60778-1MSD	HH0001720.D		10/01/10	LB	n/a	n/a	GHH87
T60778-1	HH0001710.D		10/01/10	LB	n/a	n/a	GHH87

The QC reported here applies to the following samples:

Method: SW846 8015

T60781-1

CAS No.	Compound	T60778-1		Spike	MS	MS	MSD	MSD	RPD	Limits Rec/RPD
		mg/kg	Q	mg/kg	mg/kg	%	mg/kg	%		
	TPH-GRO (C6-C10)	18.7		25.6	50.4	124*	50.7	125*	1	78-115/14

CAS No.	Surrogate Recoveries	MS	MSD	T60778-1	Limits
460-00-4	4-Bromofluorobenzene	122%	117%	111%	46-127%
98-08-8	aaa-Trifluorotoluene	106%	105%	99%	44-120%



GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Page 1 of 1

Job Number: T60781

Account: ENCACOP ENCANA

Project: M34 Spoils Pile

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP16217-MB	JJ7165.D	1	09/29/10	EM	09/29/10	OP16217	GJB66

The QC reported here applies to the following samples:

Method: SW846 8015 M

T60781-1

CAS No.	Compound	Result	RL	Units	Q
	TPH (C10-C28)	ND	3.3	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	94% 33-115%

Blank Spike/Blank Spike Duplicate Summary

Page 1 of 1

Job Number: T60781
Account: ENCACOP ENCANA
Project: M34 Spoils Pile

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP16217-BS	JJ7166.D	1	09/29/10	EM	09/29/10	OP16217	GJF66
OP16217-BSD	JJ7167.D	1	09/29/10	EM	09/29/10	OP16217	GJB66

The QC reported here applies to the following samples:

Method: SW846 8015 M

T60781-1

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (C10-C28)	33.1	27.0	82	27.2	82	1	45-107/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	67%	101%	33-115%



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

Report Summary

Tuesday November 02, 2010

Report Number: L486217

Samples Received: 10/28/10

Client Project: M34

Description: M34

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

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 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.

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REPORT OF ANALYSIS

November 02, 2010

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

Date Received : October 28, 2010
Description : M34
Sample ID : M34-PB-102710
Collected By : Jake Harris
Collection Date : 10/07/10 10:30

ESC Sample # : L486217-02

Site ID :

Project # : M34

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID)	BDL 89.9	0.50	mg/kg % Rec.	8015D/GRO 602/8015	10/30/10 10/30/10	5 5
TPH (GC/FID) High Fraction Surrogate recovery(%) o-Terphenyl	500 0.00	80.	mg/kg % Rec.	3546/DRO 3546/DRO	11/01/10 11/01/10	20 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: 11/01/10 17:29 Revised: 11/02/10 07:01

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L486217-01	WG505878	SAMP	o-Terphenyl	R1451512	J7
L486217-02	WG505878	SAMP	o-Terphenyl	R1451512	J7
L486217-03	WG505878	SAMP	o-Terphenyl	R1451512	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 Difference.

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

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



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

12065 Lebanon Rd.
Mt. Juliet, TN 37122
(615) 758-5858
1-800-767-5859
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Quality Assurance Report
Level II

L486217

November 02, 2010

Analyte	Result	Laboratory Blank			Limit	Batch	Date Analyzed	
		Units	% Rec					
TPH (GC/FID) Low Fraction	< .1	mg/kg				WG505874	10/30/10 08:38	
a,a,a-Trifluorotoluene(FID)		% Rec.	91.69	59-128		WG505874	10/30/10 08:38	
TPH (GC/FID) High Fraction	< 4	ppm				WG505878	10/30/10 14:34	
o-Terphenyl		% Rec.	73.10	50-150		WG505878	10/30/10 14:34	
Analyte	Units	Laboratory Control Sample			% Rec	Limit	Batch	
		Known Val	Result					
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.38	97.8	67-135	WG505874		
a,a,a-Trifluorotoluene(FID)				103.9	59-128	WG505874		
TPH (GC/FID) High Fraction	ppm	60	56.9	94.8	50-150	WG505878		
o-Terphenyl				79.27	50-150	WG505878		
Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) Low Fraction	mg/kg	5.38	5.38	98.0	67-135	0.0200	20	WG505874
a,a,a-Trifluorotoluene(FID)				104.2	59-128			WG505874
TPH (GC/FID) High Fraction	ppm	58.5	56.9	98.0	50-150	2.87	20	WG505878
o-Terphenyl				80.30	50-150			WG505878
Analyte	Units	Matrix Spike			Limit	Ref Samp	Batch	
		MS Res	Ref Res	TV	% Rec			
TPH (GC/FID) Low Fraction	mg/kg	12.9	0	5.5	46.9*	55-109	L486212-01	WG505874
a,a,a-Trifluorotoluene(FID)					93.70	59-128		WG505874
Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit Ref Samp	Batch
		MSD	Ref	%Rec				
TPH (GC/FID) Low Fraction	mg/kg	11.1	12.9	40.3*	55-109	15.1	20	L486212-01
a,a,a-Trifluorotoluene(FID)				93.64	59-128			WG505874

Batch number /Run number / Sample number cross reference

WG505874: R1449629: L486217-01 02 03
WG505878: R1451512: L486217-01 02 03

* * 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.'

**YOUR LAB OF CHOICE**

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

**Quality Assurance Report
Level II**

L486217

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November 02, 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 or Brad Kieding
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Tuesday November 02, 2010

Report Number: L486217

Samples Received: 10/28/10

Client Project: M34

Description: M34

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

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

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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

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REPORT OF ANALYSIS

November 02, 2010

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

Date Received : October 28, 2010
Description : M34
Sample ID : M34-PBC-102710
Collected By : Jake Harris
Collection Date : 10/07/10 10:40

ESC Sample # : L486217-03

Site ID :

Project # : M34

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	1.0	0.50	mg/kg	8015D/GRO	10/30/10	5
Surrogate Recovery (70-130)	89.6		% Rec.	602/8015	10/30/10	5
a,a,a-Trifluorotoluene(FID)						
TPH (GC/FID) High Fraction	2100	80.	mg/kg	3546/DRO	11/01/10	20
Surrogate recovery(%)	0.00		% Rec.	3546/DRO	11/01/10	20
o-Terphenyl						

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 11/01/10 17:29 Revised: 11/02/10 07:01

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L486217-01	WG505878	SAMP	o-Terphenyl	R1451512	J7
L486217-02	WG505878	SAMP	o-Terphenyl	R1451512	J7
L486217-03	WG505878	SAMP	o-Terphenyl	R1451512	J7

Attachment B
Explanation of QC Qualifier Codes

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

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



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Tax I.D. 62-0814289

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Quality Assurance Report
Level II

L486217

November 02, 2010

Analyte	Result	Laboratory Blank			Limit	Batch	Date Analyzed	
		Units	% Rec					
TPH (GC/FID) Low Fraction	< .1	mg/kg				WG505874	10/30/10 08:38	
a,a,a-Trifluorotoluene(FID)		% Rec.	91.69	59-128		WG505874	10/30/10 08:38	
TPH (GC/FID) High Fraction	< 4	ppm				WG505878	10/30/10 14:34	
o-Terphenyl		% Rec.	73.10	50-150		WG505878	10/30/10 14:34	
Analyte	Units	Laboratory Control Sample			% Rec	Limit	Batch	
		Known Val	Result					
TPH (GC/FID) Low Fraction	mg/kg	5.5	5.38	97.8	67-135	WG505874		
a,a,a-Trifluorotoluene(FID)				103.9	59-128	WG505874		
TPH (GC/FID) High Fraction	ppm	60	56.9	94.8	50-150	WG505878		
o-Terphenyl				79.27	50-150	WG505878		
Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
TPH (GC/FID) Low Fraction	mg/kg	5.38	5.38	98.0	67-135	0.0200	20	WG505874
a,a,a-Trifluorotoluene(FID)				104.2	59-128			WG505874
TPH (GC/FID) High Fraction	ppm	58.5	56.9	98.0	50-150	2.87	20	WG505878
o-Terphenyl				80.30	50-150			WG505878
Analyte	Units	Matrix Spike			Limit	Ref Samp	Batch	
		MS Res	Ref Res	TV	% Rec			
TPH (GC/FID) Low Fraction	mg/kg	12.9	0	5.5	46.9*	55-109	L486212-01	WG505874
a,a,a-Trifluorotoluene(FID)					93.70	59-128		WG505874
Analyte	Units	Matrix Spike Duplicate			Limit	RPD	Limit Ref Samp	Batch
		MSD	Ref	%Rec				
TPH (GC/FID) Low Fraction	mg/kg	11.1	12.9	40.3*	55-109	15.1	20	L486212-01
a,a,a-Trifluorotoluene(FID)				93.64	59-128			WG505874

Batch number /Run number / Sample number cross reference

WG505874: R1449629: L486217-01 02 03
WG505878: R1451512: L486217-01 02 03

* * 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.'

**YOUR LAB OF CHOICE**

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

**Quality Assurance Report
Level II**

L486217

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

Tax I.D. 62-0814289

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November 02, 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

Tuesday November 02, 2010

Report Number: L486217

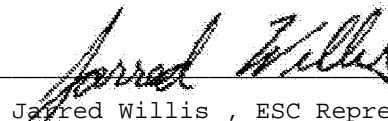
Samples Received: 10/28/10

Client Project: M34

Description: M34

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

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 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.

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REPORT OF ANALYSIS

November 02, 2010

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

Date Received : October 28, 2010
Description : M34
Sample ID : M34-SPOIL-102710
Collected By : Jake Harris
Collection Date : 10/07/10 10:10

ESC Sample # : L486217-01

Site ID :

Project # : M34

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
TPH (GC/FID) Low Fraction	0.55	0.50	mg/kg	8015D/GRO	10/30/10	5
Surrogate Recovery (70-130)	90.8		% Rec.	602/8015	10/30/10	5
a,a,a-Trifluorotoluene(FID)						
TPH (GC/FID) High Fraction	490	80.	mg/kg	3546/DRO	11/01/10	20
Surrogate recovery(%)	0.00		% Rec.	3546/DRO	11/01/10	20
o-Terphenyl						

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: 11/01/10 17:29 Revised: 11/02/10 07:01

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L486217-01	WG505878	SAMP	o-Terphenyl	R1451512	J7
L486217-02	WG505878	SAMP	o-Terphenyl	R1451512	J7
L486217-03	WG505878	SAMP	o-Terphenyl	R1451512	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 Difference.

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

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



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Level II

L486217

November 02, 2010

Analyte	Result	Laboratory Blank			Limit	Batch	Date Analyzed
		Units	% Rec				
TPH (GC/FID) Low Fraction	< .1	mg/kg				WG505874	10/30/10 08:38
a,a,a-Trifluorotoluene(FID)		% Rec.	91.69	59-128		WG505874	10/30/10 08:38
TPH (GC/FID) High Fraction	< 4	Laboratory Control Sample			% Rec	WG505878	10/30/10 14:34
o-Terphenyl		ppm	% Rec.	73.10		WG505878	10/30/10 14:34
Analyte	Units	Laboratory Control Sample			% Rec	Limit	Batch
TPH (GC/FID) Low Fraction	mg/kg	5.5	Known Val	5.38	97.8	67-135	WG505874
a,a,a-Trifluorotoluene(FID)					103.9	59-128	WG505874
TPH (GC/FID) High Fraction	ppm	60	Sample	56.9	94.8	50-150	WG505878
o-Terphenyl			Result		79.27	50-150	WG505878
Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit
TPH (GC/FID) Low Fraction	mg/kg	5.38	Ref	98.0	67-135	0.0200	20
a,a,a-Trifluorotoluene(FID)				104.2	59-128		WG505874
TPH (GC/FID) High Fraction	ppm	58.5	%Rec	98.0	50-150	2.87	20
o-Terphenyl			Ref	80.30	50-150		WG505878
Analyte	Units	Matrix Spike			Limit	Ref Samp	Batch
TPH (GC/FID) Low Fraction	mg/kg	12.9	MS Res	0	5.5	55-109	L486212-01
a,a,a-Trifluorotoluene(FID)			Ref Res			59-128	WG505874
TPH (GC/FID) Low Fraction	mg/kg	11.1	Matrix Spike Duplicate			15.1	20
a,a,a-Trifluorotoluene(FID)			MSD	Ref	%Rec	L486212-01	WG505874
					Limit	RPD	Limit Ref Samp

Batch number /Run number / Sample number cross reference

WG505874: R1449629: L486217-01 02 03
WG505878: R1451512: L486217-01 02 03

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