



E34 496 (Location: 335812)
Pit (Facility: 414550)
Encana Oil & Gas (USA) Inc. (Operator: 100185)

REPORT OF WORK COMPLETED

- Form 27 (Doc: 2232922) (Rem: 7759)

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

Initial pit closure and characterization efforts were carried out in July, 2010. The pit was drained, and the liner and above liner solids were removed for offsite disposal. Below-liner soil conditions were assessed with field observations and each cell of the pit was characterized with a 5-point composite sample of the pit bottom submitted to a laboratory for analysis. Sample results identified concentrations/levels above the allowable limits in COGCC Table 910-1 for TPH, SAR, pH, and arsenic. 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 allowed to rest until June, 2011 when both cell bottoms were characterized using discrete grab samples. After lab results indicated that TPH impacts persisted within each pit cell, a targeted excavation effort with onsite environmental personnel support was undertaken to remove impacted soil. Excavated material was blended and stockpiled on location.

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

NOTIFICATION OF COMPLETION

Final pit bottom and stockpile samples were within COGCC Table 910-1 allowable concentration for TPH. Arsenic concentrations in the pit bottom and stockpile, and cuttings stockpile were 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.

Upon receipt of laboratory results demonstrating compliance, the drill cuttings stockpile (approximately 1,000 cubic yards) and pit spoil stockpile were placed in the pit excavations. The excavations were backfilled to grade with native material.

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

ATTACHMENTS

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

encana

North Parachute Mountain

Garfield County, Colorado

0 3,200 6,400 Feet

1 inch = 3,000 feet



T004S-R097W

T005S-R097W

T004S-R096W

E16 Well Pad and Pit
Location ID: 335812
Facility ID: 414550
Rem #: 7759

T005S-R096W

T004S-R095W

T005S-R095W

- Encana Site Boundary
- Access Road
- Township Boundary
- Surface Ownership**
- Not Identified Below (clear)
- EnCana (transparent)
- USFS (transparent)
- BLM (transparent)

Revised: 11/13/2012
C. Hines



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Est. 1970

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

Report Summary

Thursday August 19, 2010

Report Number: L469778

Samples Received: 07/21/10

Client Project:

Description: E16 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:

T. Alan Harvill , ESC Representative

Laboratory Certification Numbers

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

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

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

August 19, 2010

Date Received : July 21, 2010
 Description : E16 Pit Closure
 Sample ID : E16-BACK-071910
 Collected By : Blair Rollins
 Collection Date : 07/19/10 11:20

ESC Sample # : L469778-01

Site ID :

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|----------|-------------|----------|------|
| Chromium,Hexavalent | BDL | 20. | mg/kg | 3060A/7196A | 07/23/10 | 10 |
| Chromium,Trivalent | 42. | 0.50 | mg/kg | Calc. | 07/23/10 | 1 |
| ORP | 11. | | mV | 2580 | 07/23/10 | 1 |
| pH | 7.1 | | su | 9045D | 07/23/10 | 1 |
| Sodium Adsorption Ratio | 0.58 | | | Calc. | 07/23/10 | 1 |
| Specific Conductance | 70. | | umhos/cm | 9050AMod | 07/22/10 | 1 |
| Mercury | BDL | 0.020 | mg/kg | 7471 | 07/22/10 | 1 |
| Arsenic | 3.6 | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Barium | 350 | 0.25 | mg/kg | 6010B | 07/23/10 | 1 |
| Cadmium | BDL | 0.25 | mg/kg | 6010B | 07/23/10 | 1 |
| Chromium | 42. | 0.50 | mg/kg | 6010B | 07/23/10 | 1 |
| Copper | 16. | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Lead | 9.0 | 0.25 | mg/kg | 6010B | 07/23/10 | 1 |
| Nickel | 22. | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Selenium | 2.0 | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Silver | BDL | 0.50 | mg/kg | 6010B | 07/23/10 | 1 |
| Zinc | 46. | 1.5 | mg/kg | 6010B | 07/23/10 | 1 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | 8015D/GRO | 07/21/10 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 90.0 | | % Rec. | 602/8015 | 07/21/10 | 5 |
| Benzene | BDL | 0.0050 | mg/kg | 8260B | 07/22/10 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8260B | 07/22/10 | 5 |
| Ethylbenzene | BDL | 0.0050 | mg/kg | 8260B | 07/22/10 | 5 |
| Total Xylenes | BDL | 0.015 | mg/kg | 8260B | 07/22/10 | 5 |
| Surrogate Recovery | | | | | | |
| Toluene-d8 | 102. | | % Rec. | 8260B | 07/22/10 | 5 |
| Dibromofluoromethane | 107. | | % Rec. | 8260B | 07/22/10 | 5 |
| a,a,a-Trifluorotoluene | 100. | | % Rec. | 8260B | 07/22/10 | 5 |
| 4-Bromofluorobenzene | 87.5 | | % Rec. | 8260B | 07/22/10 | 5 |
| TPH (GC/FID) High Fraction | 8.3 | 4.0 | mg/kg | 3546/DRO | 07/22/10 | 1 |
| Surrogate recovery(%) o-Terphenyl | 90.1 | | % Rec. | 3546/DRO | 07/22/10 | 1 |

Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L469778-01 (CR6) - diluted due to dark sample color
 L469778-01 (PH) - 7.1@23.3c



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REPORT OF ANALYSIS

August 19, 2010

Chris Hines
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 Parachute, CO 81635

ESC Sample # : L469778-01

Date Received : July 21, 2010
 Description : E16 Pit Closure

Site ID :

Sample ID : E16-BACK-071910

Project # :

Collected By : Blair Rollins
 Collection Date : 07/19/10 11:20

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|------------------------|--------|------------|--------|-----------|----------|------|
| Anthracene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Acenaphthene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Acenaphthylene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Benzo(a)anthracene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Benzo(a)pyrene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Benzo(b)fluoranthene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Benzo(g,h,i)perylene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Benzo(k)fluoranthene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Chrysene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Dibenz(a,h)anthracene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Fluoranthene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Fluorene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Indeno(1,2,3-cd)pyrene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Naphthalene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Phenanthrene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Pyrene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| 1-Methylnaphthalene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| 2-Methylnaphthalene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| 2-Chloronaphthalene | BDL | 0.0060 | mg/kg | 8270C-SIM | 07/23/10 | 1 |
| Surrogate Recovery | | | | | | |
| Nitrobenzene-d5 | 68.2 | | % Rec. | 8270C-SIM | 07/23/10 | 1 |
| 2-Fluorobiphenyl | 72.2 | | % Rec. | 8270C-SIM | 07/23/10 | 1 |
| p-Terphenyl-d14 | 96.5 | | % Rec. | 8270C-SIM | 07/23/10 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/28/10 14:53 Revised: 08/19/10 11:39
 L469778-01 (CR6) - diluted due to dark sample color
 L469778-01 (PH) - 7.1@23.3c



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REPORT OF ANALYSIS

August 19, 2010

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ESC Sample # : L469778-02

Date Received : July 21, 2010
 Description : E16 Pit Closure

Site ID :

Sample ID : E16-S. PIT BOTTOM-071910

Project # :

Collected By : Blair Rollins
 Collection Date : 07/19/10 11:50

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|----------|-------------|----------|------|
| Chromium,Hexavalent | BDL | 2.0 | mg/kg | 3060A/7196A | 07/23/10 | 1 |
| Chromium,Trivalent | 19. | 0.50 | mg/kg | Calc. | 07/23/10 | 1 |
| ORP | -3.0 | | mV | 2580 | 07/23/10 | 1 |
| pH | 11. | | su | 9045D | 07/23/10 | 1 |
| Sodium Adsorption Ratio | 21. | | | Calc. | 07/23/10 | 1 |
| Specific Conductance | 2400 | | umhos/cm | 9050AMod | 07/22/10 | 1 |
| Mercury | 0.026 | 0.020 | mg/kg | 7471 | 07/22/10 | 1 |
| Arsenic | 9.8 | 5.0 | mg/kg | 6010B | 07/23/10 | 5 |
| Barium | 7600 | 1.2 | mg/kg | 6010B | 07/23/10 | 5 |
| Cadmium | 0.36 | 0.25 | mg/kg | 6010B | 07/23/10 | 1 |
| Chromium | 19. | 0.50 | mg/kg | 6010B | 07/23/10 | 1 |
| Copper | 18. | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Lead | 30. | 1.2 | mg/kg | 6010B | 07/23/10 | 5 |
| Nickel | 15. | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Selenium | 5.1 | 5.0 | mg/kg | 6010B | 07/23/10 | 5 |
| Silver | BDL | 0.50 | mg/kg | 6010B | 07/23/10 | 1 |
| Zinc | 64. | 7.5 | mg/kg | 6010B | 07/23/10 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | 8015D/GRO | 07/21/10 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 89.1 | | % Rec. | 602/8015 | 07/21/10 | 5 |
| Benzene | BDL | 0.0050 | mg/kg | 8260B | 07/22/10 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8260B | 07/22/10 | 5 |
| Ethylbenzene | BDL | 0.0050 | mg/kg | 8260B | 07/22/10 | 5 |
| Total Xylenes | 0.022 | 0.015 | mg/kg | 8260B | 07/22/10 | 5 |
| Surrogate Recovery | | | | | | |
| Toluene-d8 | 103. | | % Rec. | 8260B | 07/22/10 | 5 |
| Dibromofluoromethane | 99.9 | | % Rec. | 8260B | 07/22/10 | 5 |
| a,a,a-Trifluorotoluene | 101. | | % Rec. | 8260B | 07/22/10 | 5 |
| 4-Bromofluorobenzene | 96.3 | | % Rec. | 8260B | 07/22/10 | 5 |
| TPH (GC/FID) High Fraction | 600 | 20. | mg/kg | 3546/DRO | 07/24/10 | 5 |
| Surrogate recovery(%) o-Terphenyl | 68.2 | | % Rec. | 3546/DRO | 07/24/10 | 5 |

Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L469778-02 (PH) - 11.0@23.3c



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REPORT OF ANALYSIS

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August 19, 2010

Date Received : July 21, 2010
Description : E16 Pit Closure
Sample ID : E16-S. PIT BOTTOM-071910
Collected By : Blair Rollins
Collection Date : 07/19/10 11:50

ESC Sample # : L469778-02

Site ID :

Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Lists various chemical compounds and their detection results.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 07/28/10 14:53 Revised: 08/19/10 11:39
L469778-02 (PH) - 11.0@23.3c



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REPORT OF ANALYSIS

August 19, 2010

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ESC Sample # : L469778-03

Date Received : July 21, 2010
 Description : E16 Pit Closure

Site ID :

Sample ID : E16-N. PIT BOTTOM-071910

Project # :

Collected By : Blair Rollins
 Collection Date : 07/19/10 12:10

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|----------|-------------|----------|------|
| Chromium,Hexavalent | BDL | 2.0 | mg/kg | 3060A/7196A | 07/23/10 | 1 |
| Chromium,Trivalent | 43. | 0.50 | mg/kg | Calc. | 07/23/10 | 1 |
| ORP | 10. | | mV | 2580 | 07/23/10 | 1 |
| pH | 8.3 | | su | 9045D | 07/23/10 | 1 |
| Sodium Adsorption Ratio | 14. | | | Calc. | 07/23/10 | 1 |
| Specific Conductance | 1300 | | umhos/cm | 9050AMod | 07/22/10 | 1 |
| Mercury | 0.087 | 0.020 | mg/kg | 7471 | 07/22/10 | 1 |
| Arsenic | 3.5 | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Barium | 1200 | 0.25 | mg/kg | 6010B | 07/23/10 | 1 |
| Cadmium | BDL | 0.25 | mg/kg | 6010B | 07/23/10 | 1 |
| Chromium | 43. | 0.50 | mg/kg | 6010B | 07/23/10 | 1 |
| Copper | 18. | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Lead | 17. | 0.25 | mg/kg | 6010B | 07/23/10 | 1 |
| Nickel | 22. | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Selenium | 11. | 5.0 | mg/kg | 6010B | 07/23/10 | 5 |
| Silver | BDL | 0.50 | mg/kg | 6010B | 07/23/10 | 1 |
| Zinc | 41. | 1.5 | mg/kg | 6010B | 07/23/10 | 1 |
| TPH (GC/FID) Low Fraction | 21. | 0.50 | mg/kg | 8015D/GRO | 07/21/10 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 82.7 | | % Rec. | 602/8015 | 07/21/10 | 5 |
| Benzene | BDL | 0.0050 | mg/kg | 8260B | 07/22/10 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8260B | 07/22/10 | 5 |
| Ethylbenzene | BDL | 0.0050 | mg/kg | 8260B | 07/22/10 | 5 |
| Total Xylenes | 0.035 | 0.015 | mg/kg | 8260B | 07/22/10 | 5 |
| Surrogate Recovery | | | | | | |
| Toluene-d8 | 103. | | % Rec. | 8260B | 07/22/10 | 5 |
| Dibromofluoromethane | 103. | | % Rec. | 8260B | 07/22/10 | 5 |
| a,a,a-Trifluorotoluene | 97.7 | | % Rec. | 8260B | 07/22/10 | 5 |
| 4-Bromofluorobenzene | 125. | | % Rec. | 8260B | 07/22/10 | 5 |
| TPH (GC/FID) High Fraction | 2500 | 80. | mg/kg | 3546/DRO | 07/24/10 | 20 |
| Surrogate recovery(%) o-Terphenyl | 0.00 | | % Rec. | 3546/DRO | 07/24/10 | 20 |

Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L469778-03 (SV8270PAHSIM) - IS/SURR failed on lower dilution.
 L469778-03 (PH) - 8.3@23.5c



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REPORT OF ANALYSIS

August 19, 2010

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

ESC Sample # : L469778-03

Date Received : July 21, 2010
Description : E16 Pit Closure

Site ID :

Sample ID : E16-N. PIT BOTTOM-071910

Project # :

Collected By : Blair Rollins
Collection Date : 07/19/10 12:10

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Lists various chemical compounds and their detection results.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 07/28/10 14:53 Revised: 08/19/10 11:39
L469778-03 (SV8270PAHSIM) - IS/SURR failed on lower dilution.
L469778-03 (PH) - 8.3@23.5c



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Est. 1970

REPORT OF ANALYSIS

August 19, 2010

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

ESC Sample # : L469778-04

Date Received : July 21, 2010
 Description : E16 Pit Closure

Site ID :

Sample ID : E16-CUTTINGS-071910

Project # :

Collected By : Blair Rollins
 Collection Date : 07/19/10 12:40

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|----------|-------------|----------|------|
| Chromium,Hexavalent | BDL | 2.0 | mg/kg | 3060A/7196A | 07/23/10 | 1 |
| Chromium,Trivalent | 30. | 0.50 | mg/kg | Calc. | 07/23/10 | 1 |
| ORP | 21. | | mV | 2580 | 07/23/10 | 1 |
| pH | 10. | | su | 9045D | 07/23/10 | 1 |
| Sodium Adsorption Ratio | 6.8 | | | Calc. | 07/23/10 | 1 |
| Specific Conductance | 1700 | | umhos/cm | 9050AMod | 07/22/10 | 1 |
| Mercury | 0.024 | 0.020 | mg/kg | 7471 | 07/22/10 | 1 |
| Arsenic | 5.6 | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Barium | 12000 | 1.2 | mg/kg | 6010B | 07/23/10 | 5 |
| Cadmium | 0.44 | 0.25 | mg/kg | 6010B | 07/23/10 | 1 |
| Chromium | 30. | 0.50 | mg/kg | 6010B | 07/23/10 | 1 |
| Copper | 19. | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Lead | 22. | 0.25 | mg/kg | 6010B | 07/23/10 | 1 |
| Nickel | 20. | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Selenium | BDL | 1.0 | mg/kg | 6010B | 07/23/10 | 1 |
| Silver | BDL | 0.50 | mg/kg | 6010B | 07/23/10 | 1 |
| Zinc | 47. | 1.5 | mg/kg | 6010B | 07/23/10 | 1 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | 8015D/GRO | 07/22/10 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 90.0 | | % Rec. | 602/8015 | 07/22/10 | 5 |
| Benzene | BDL | 0.0050 | mg/kg | 8260B | 07/22/10 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8260B | 07/22/10 | 5 |
| Ethylbenzene | BDL | 0.0050 | mg/kg | 8260B | 07/22/10 | 5 |
| Total Xylenes | BDL | 0.015 | mg/kg | 8260B | 07/22/10 | 5 |
| Surrogate Recovery | | | | | | |
| Toluene-d8 | 101. | | % Rec. | 8260B | 07/22/10 | 5 |
| Dibromofluoromethane | 97.3 | | % Rec. | 8260B | 07/22/10 | 5 |
| a,a,a-Trifluorotoluene | 101. | | % Rec. | 8260B | 07/22/10 | 5 |
| 4-Bromofluorobenzene | 97.2 | | % Rec. | 8260B | 07/22/10 | 5 |
| TPH (GC/FID) High Fraction | 300 | 4.0 | mg/kg | 3546/DRO | 07/22/10 | 1 |
| Surrogate recovery(%) o-Terphenyl | 75.0 | | % Rec. | 3546/DRO | 07/22/10 | 1 |

Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L469778-04 (PH) - 10.0@23.3c



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REPORT OF ANALYSIS

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

August 19, 2010

Date Received : July 21, 2010
 Description : E16 Pit Closure
 Sample ID : E16-CUTTINGS-071910
 Collected By : Blair Rollins
 Collection Date : 07/19/10 12:40

ESC Sample # : L469778-04
 Site ID :
 Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|------------------------|--------|------------|--------|-----------|----------|------|
| Anthracene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Acenaphthene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Acenaphthylene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Benzo(a)anthracene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Benzo(a)pyrene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Benzo(b)fluoranthene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Benzo(g,h,i)perylene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Benzo(k)fluoranthene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Chrysene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Dibenz(a,h)anthracene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Fluoranthene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Fluorene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Indeno(1,2,3-cd)pyrene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Naphthalene | 0.13 | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Phenanthrene | 0.12 | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Pyrene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| 1-Methylnaphthalene | 0.17 | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| 2-Methylnaphthalene | 0.31 | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| 2-Chloronaphthalene | BDL | 0.060 | mg/kg | 8270C-SIM | 07/26/10 | 10 |
| Surrogate Recovery | | | | | | |
| Nitrobenzene-d5 | 107. | | % Rec. | 8270C-SIM | 07/26/10 | 10 |
| 2-Fluorobiphenyl | 111. | | % Rec. | 8270C-SIM | 07/26/10 | 10 |
| p-Terphenyl-d14 | 124. | | % Rec. | 8270C-SIM | 07/26/10 | 10 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/28/10 14:53 Revised: 08/19/10 11:39
 L469778-04 (PH) - 10.0@23.3c

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---------------|------------|-------------|----------------------|----------|-----------|
| L469778-01 | WG489641 | SAMP | Chromium, Hexavalent | R1298390 | O |
| L469778-02 | WG489632 | SAMP | Nitrobenzene-d5 | R1298729 | J1 |
| | WG489632 | SAMP | 2-Fluorobiphenyl | R1298729 | J1 |
| L469778-03 | WG489553 | SAMP | Mercury | R1297154 | P1 |
| | WG489632 | SAMP | Anthracene | R1298729 | O |
| | WG489632 | SAMP | Acenaphthene | R1298729 | O |
| | WG489632 | SAMP | Acenaphthylene | R1298729 | O |
| | WG489632 | SAMP | Benzo(a)anthracene | R1298729 | ** |
| | WG489632 | SAMP | Fluoranthene | R1298729 | O |
| | WG489632 | SAMP | Fluorene | R1298729 | O |
| | WG489632 | SAMP | Naphthalene | R1298729 | O |
| | WG489632 | SAMP | Phenanthrene | R1298729 | O |
| | WG489632 | SAMP | 1-Methylnaphthalene | R1298729 | O |
| | WG489632 | SAMP | 2-Methylnaphthalene | R1298729 | O |
| | WG489632 | SAMP | 2-Chloronaphthalene | R1298729 | O |
| | WG489632 | SAMP | Nitrobenzene-d5 | R1298729 | J7 |
| | WG489632 | SAMP | 2-Fluorobiphenyl | R1298729 | J7 |
| | WG489699 | SAMP | o-Terphenyl | R1298632 | J7 |
| L469778-04 | WG489613 | SAMP | Arsenic | R1298708 | P1 |
| | WG489613 | SAMP | Barium | R1298708 | J3V |
| | WG489613 | SAMP | Chromium | R1298708 | J3J6 |
| | WG489613 | SAMP | Copper | R1298708 | J3 |
| | WG489613 | SAMP | Lead | R1298708 | J3J6 |
| | WG489613 | SAMP | Nickel | R1298708 | J3J6 |
| | WG489613 | SAMP | Zinc | R1298708 | J3 |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|-----------|--|
| J1 | Surrogate recovery limits have been exceeded; values are outside upper control limits |
| J3 | The associated batch QC was outside the established quality control range for precision. |
| J6 | The sample matrix interfered with the ability to make any accurate determination; spike value is low |
| V | (ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries. |
| J7 | Surrogate recovery limits cannot be evaluated; surrogates were diluted out |
| O | (ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution. |
| P1 | RPD value not applicable for sample concentrations less than 5 times the reporting limit. |

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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 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

August 19, 2010

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Specific Conductance | 1.20 | umhos/cm | | | WG489681 | 07/22/10 12:46 |
| Mercury | < .02 | mg/kg | | | WG489553 | 07/22/10 09:17 |
| Benzene | < .001 | mg/kg | | | WG489679 | 07/22/10 00:31 |
| Ethylbenzene | < .001 | mg/kg | | | WG489679 | 07/22/10 00:31 |
| Toluene | < .005 | mg/kg | | | WG489679 | 07/22/10 00:31 |
| Total Xylenes | < .003 | mg/kg | | | WG489679 | 07/22/10 00:31 |
| 4-Bromofluorobenzene | | % Rec. | 96.86 | 59-140 | WG489679 | 07/22/10 00:31 |
| Dibromofluoromethane | | % Rec. | 101.5 | 63-139 | WG489679 | 07/22/10 00:31 |
| Toluene-d8 | | % Rec. | 102.3 | 84-116 | WG489679 | 07/22/10 00:31 |
| a,a,a-Trifluorotoluene | | % Rec. | 108.7 | 80-118 | WG489679 | 07/22/10 00:31 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG489537 | 07/21/10 13:29 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 93.35 | 59-128 | WG489537 | 07/21/10 13:29 |
| Chromium,Hexavalent | < 2 | mg/kg | | | WG489641 | 07/23/10 10:07 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG489699 | 07/22/10 18:43 |
| o-Terphenyl | | % Rec. | 89.99 | 50-150 | WG489699 | 07/22/10 18:43 |
| Arsenic | < 1 | mg/kg | | | WG489613 | 07/23/10 10:06 |
| Barium | < .25 | mg/kg | | | WG489613 | 07/23/10 10:06 |
| Cadmium | < .25 | mg/kg | | | WG489613 | 07/23/10 10:06 |
| Chromium | < .5 | mg/kg | | | WG489613 | 07/23/10 10:06 |
| Copper | < 1 | mg/kg | | | WG489613 | 07/23/10 10:06 |
| Lead | < .25 | mg/kg | | | WG489613 | 07/23/10 10:06 |
| Nickel | < 1 | mg/kg | | | WG489613 | 07/23/10 10:06 |
| Selenium | < 1 | mg/kg | | | WG489613 | 07/23/10 10:06 |
| Silver | < .5 | mg/kg | | | WG489613 | 07/23/10 10:06 |
| Zinc | < 1.5 | mg/kg | | | WG489613 | 07/23/10 10:06 |
| 1-Methylnaphthalene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| 2-Chloronaphthalene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| 2-Methylnaphthalene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Acenaphthene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Acenaphthylene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Anthracene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Benzo(a)anthracene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Benzo(a)pyrene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Benzo(b)fluoranthene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Benzo(g,h,i)perylene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Benzo(k)fluoranthene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Chrysene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Dibenz(a,h)anthracene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Fluoranthene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Fluorene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Indeno(1,2,3-cd)pyrene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Naphthalene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Phenanthrene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| Pyrene | < .006 | mg/kg | | | WG489632 | 07/23/10 09:15 |
| 2-Fluorobiphenyl | | % Rec. | 66.20 | 21-120 | WG489632 | 07/23/10 09:15 |

* 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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Est. 1970

August 19, 2010

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Nitrobenzene-d5 | | % Rec. | 73.13 | 33-114 | | 07/23/10 09:15 |
| p-Terphenyl-d14 | | % Rec. | 96.73 | 18-142 | | 07/23/10 09:15 |
| pH | 4.40 | su | | | WG489871 | 07/23/10 13:09 |

| Analyte | Units | Duplicate | | | Limit | Ref Samp | Batch |
|----------------------|----------|-----------|-----------|-------|-------|------------|----------|
| | | Result | Duplicate | RPD | | | |
| Specific Conductance | umhos/cm | 290. | 290. | 0 | 20 | L469362-01 | WG489681 |
| Specific Conductance | umhos/cm | 2400 | 70.0 | 189.* | 20 | L469778-01 | WG489681 |
| Mercury | mg/kg | 0.0420 | 0.0870 | 70.2* | 20 | L469778-03 | WG489553 |
| Chromium,Hexavalent | mg/kg | 0 | 0 | 0 | 20 | L469682-04 | WG489641 |
| Chromium,Hexavalent | mg/kg | 0 | 0 | 0 | 20 | L469749-01 | WG489641 |
| Arsenic | mg/kg | 4.00 | 5.60 | 32.1* | 20 | L469778-04 | WG489613 |
| Cadmium | mg/kg | 0.690 | 0.440 | 43.7* | 20 | L469778-04 | WG489613 |
| Chromium | mg/kg | 17.0 | 30.0 | 56.4* | 20 | L469778-04 | WG489613 |
| Copper | mg/kg | 12.0 | 19.0 | 41.3* | 20 | L469778-04 | WG489613 |
| Lead | mg/kg | 18.0 | 22.0 | 21.7* | 20 | L469778-04 | WG489613 |
| Nickel | mg/kg | 10.0 | 20.0 | 63.2* | 20 | L469778-04 | WG489613 |
| Selenium | mg/kg | 0 | 0 | 0 | 20 | L469778-04 | WG489613 |
| Silver | mg/kg | 0 | 0 | 0 | 20 | L469778-04 | WG489613 |
| Zinc | mg/kg | 67.0 | 47.0 | 34.7* | 20 | L469778-04 | WG489613 |
| ORP | mV | 20.0 | 17.0 | 16.2 | 20 | L469410-01 | WG489869 |
| ORP | mV | 22.0 | 21.0 | 4.65 | 20 | L469778-04 | WG489869 |
| pH | su | 10.0 | 10.0 | 0 | 1 | L469778-04 | WG489871 |
| Barium | mg/kg | 7300 | 12000 | 49.2* | 20 | L469778-04 | WG489613 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|----------|---------------------------|--------|-------|------------|----------|
| | | Known Val | Result | | | |
| Specific Conductance | umhos/cm | 406 | 420. | 103. | 85-115 | WG489681 |
| Mercury | mg/kg | 8.77 | 10.9 | 124. | 71.6-127.7 | WG489553 |
| Benzene | mg/kg | .025 | 0.0256 | 102. | 65-128 | WG489679 |
| Ethylbenzene | mg/kg | .025 | 0.0271 | 108. | 74-128 | WG489679 |
| Toluene | mg/kg | .025 | 0.0263 | 105. | 70-120 | WG489679 |
| Total Xylenes | mg/kg | .075 | 0.0827 | 110. | 74-127 | WG489679 |
| 4-Bromofluorobenzene | | | | 103.3 | 59-140 | WG489679 |
| Dibromofluoromethane | | | | 102.5 | 63-139 | WG489679 |
| Toluene-d8 | | | | 104.5 | 84-116 | WG489679 |
| a,a,a-Trifluorotoluene | | | | 102.9 | 80-118 | WG489679 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 3.98 | 72.4 | 67-135 | WG489537 |
| a,a,a-Trifluorotoluene(FID) | | | | 95.37 | 59-128 | WG489537 |

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| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|----------------------------|-------|---------------------------|--------|-------|-------------|----------|
| | | Known Val | Result | | | |
| Chromium, Hexavalent | mg/kg | 100 | 96.3 | 96.3 | 50-143 | WG489641 |
| TPH (GC/FID) High Fraction | ppm | 60 | 44.2 | 73.7 | 50-150 | WG489699 |
| o-Terphenyl | | | | 95.04 | 50-150 | WG489699 |
| Arsenic | mg/kg | 192 | 176. | 91.7 | 78.6-120.8 | WG489613 |
| Barium | mg/kg | 420 | 393. | 93.6 | 78.8-121.4 | WG489613 |
| Cadmium | mg/kg | 70.1 | 63.0 | 89.9 | 78.5-121.5 | WG489613 |
| Chromium | mg/kg | 168 | 164. | 97.6 | 80.4-120.2 | WG489613 |
| Copper | mg/kg | 122 | 120. | 98.4 | 81.6-119.7 | WG489613 |
| Lead | mg/kg | 113 | 106. | 93.8 | 77.3-122.1 | WG489613 |
| Nickel | mg/kg | 74.1 | 77.9 | 105. | 78.8-121.2 | WG489613 |
| Selenium | mg/kg | 176 | 167. | 94.9 | 75.6-125.0 | WG489613 |
| Silver | mg/kg | 115 | 106. | 92.2 | 66-133.9 | WG489613 |
| Zinc | mg/kg | 437 | 413. | 94.5 | 78.5-121.7 | WG489613 |
| 1-Methylnaphthalene | mg/kg | .033 | 0.0252 | 76.4 | 41-110 | WG489632 |
| 2-Chloronaphthalene | mg/kg | .033 | 0.0261 | 79.1 | 43-109 | WG489632 |
| 2-Methylnaphthalene | mg/kg | .033 | 0.0249 | 75.4 | 38-104 | WG489632 |
| Acenaphthene | mg/kg | .033 | 0.0263 | 79.8 | 48-103 | WG489632 |
| Acenaphthylene | mg/kg | .033 | 0.0272 | 82.5 | 43-106 | WG489632 |
| Anthracene | mg/kg | .033 | 0.0311 | 94.2 | 51-110 | WG489632 |
| Benzo(a)anthracene | mg/kg | .033 | 0.0329 | 99.6 | 38-126 | WG489632 |
| Benzo(a)pyrene | mg/kg | .033 | 0.0311 | 94.3 | 47-118 | WG489632 |
| Benzo(b)fluoranthene | mg/kg | .033 | 0.0296 | 89.8 | 47-118 | WG489632 |
| Benzo(g,h,i)perylene | mg/kg | .033 | 0.0303 | 91.8 | 40-125 | WG489632 |
| Benzo(k)fluoranthene | mg/kg | .033 | 0.0322 | 97.6 | 45-121 | WG489632 |
| Chrysene | mg/kg | .033 | 0.0310 | 94.0 | 35-135 | WG489632 |
| Dibenz(a,h)anthracene | mg/kg | .033 | 0.0320 | 97.1 | 41-124 | WG489632 |
| Fluoranthene | mg/kg | .033 | 0.0308 | 93.3 | 50-114 | WG489632 |
| Fluorene | mg/kg | .033 | 0.0293 | 88.7 | 49-109 | WG489632 |
| Indeno(1,2,3-cd)pyrene | mg/kg | .033 | 0.0309 | 93.6 | 40-126 | WG489632 |
| Naphthalene | mg/kg | .033 | 0.0240 | 72.8 | 36-100 | WG489632 |
| Phenanthrene | mg/kg | .033 | 0.0295 | 89.4 | 46-108 | WG489632 |
| Pyrene | mg/kg | .033 | 0.0329 | 99.6 | 30-136 | WG489632 |
| 2-Fluorobiphenyl | | | | 93.33 | 21-120 | WG489632 |
| Nitrobenzene-d5 | | | | 96.78 | 33-114 | WG489632 |
| p-Terphenyl-d14 | | | | 132.9 | 18-142 | WG489632 |
| ORP | mV | 229 | 220. | 96.1 | 95.6-104.37 | WG489869 |
| pH | su | 9.36 | 9.30 | 99.4 | 98.9-102.0 | WG489871 |

| Analyte | Units | Laboratory Control | | Sample Duplicate | Limit | RPD | Limit | Batch |
|----------------------|--------|--------------------|--------|------------------|--------|------|-------|----------|
| | | Result | Ref | | | | | |
| Specific Conductance | umhos/ | 420. | 420. | 103. | 85-115 | 0 | 20 | WG489681 |
| Benzene | mg/kg | 0.0215 | 0.0256 | 86.0 | 65-128 | 17.5 | 20 | WG489679 |
| Ethylbenzene | mg/kg | 0.0232 | 0.0271 | 93.0 | 74-128 | 15.3 | 20 | WG489679 |
| Toluene | mg/kg | 0.0225 | 0.0263 | 90.0 | 70-120 | 15.8 | 20 | WG489679 |
| Total Xylenes | mg/kg | 0.0712 | 0.0827 | 95.0 | 74-127 | 15.0 | 20 | WG489679 |
| 4-Bromofluorobenzene | | | | 100.9 | 59-140 | | | WG489679 |

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Est. 1970

August 19, 2010

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|--------|-------|-------------|-------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| Dibromofluoromethane | | | | 100.8 | 63-139 | | | |
| Toluene-d8 | | | | 103.2 | 84-116 | | | |
| a,a,a-Trifluorotoluene | | | | 102.4 | 80-118 | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 4.13 | 3.98 | 75.0 | 67-135 | 3.61 | 20 | WG489537 |
| a,a,a-Trifluorotoluene(FID) | | | | 96.54 | 59-128 | | | WG489537 |
| Chromium,Hexavalent | mg/kg | 94.9 | 96.3 | 95.0 | 50-143 | 1.46 | 20 | WG489641 |
| TPH (GC/FID) High Fraction | ppm | 41.5 | 44.2 | 69.0 | 50-150 | 6.35 | 20 | WG489699 |
| o-Terphenyl | | | | 90.02 | 50-150 | | | WG489699 |
| 1-Methylnaphthalene | mg/kg | 0.0235 | 0.0252 | 71.0 | 41-110 | 7.07 | 24 | WG489632 |
| 2-Chloronaphthalene | mg/kg | 0.0256 | 0.0261 | 78.0 | 43-109 | 1.93 | 21 | WG489632 |
| 2-Methylnaphthalene | mg/kg | 0.0242 | 0.0249 | 73.0 | 38-104 | 2.56 | 24 | WG489632 |
| Acenaphthene | mg/kg | 0.0258 | 0.0263 | 78.0 | 48-103 | 2.15 | 20 | WG489632 |
| Acenaphthylene | mg/kg | 0.0262 | 0.0272 | 79.0 | 43-106 | 3.94 | 20 | WG489632 |
| Anthracene | mg/kg | 0.0293 | 0.0311 | 89.0 | 51-110 | 6.09 | 22 | WG489632 |
| Benzo(a)anthracene | mg/kg | 0.0303 | 0.0329 | 92.0 | 38-126 | 8.05 | 20 | WG489632 |
| Benzo(a)pyrene | mg/kg | 0.0295 | 0.0311 | 89.0 | 47-118 | 5.44 | 20 | WG489632 |
| Benzo(b)fluoranthene | mg/kg | 0.0280 | 0.0296 | 85.0 | 47-118 | 5.58 | 29 | WG489632 |
| Benzo(g,h,i)perylene | mg/kg | 0.0291 | 0.0303 | 88.0 | 40-125 | 4.03 | 20 | WG489632 |
| Benzo(k)fluoranthene | mg/kg | 0.0313 | 0.0322 | 95.0 | 45-121 | 2.95 | 31 | WG489632 |
| Chrysene | mg/kg | 0.0301 | 0.0310 | 91.0 | 35-135 | 2.87 | 20 | WG489632 |
| Dibenz(a,h)anthracene | mg/kg | 0.0298 | 0.0320 | 90.0 | 41-124 | 7.35 | 20 | WG489632 |
| Fluoranthene | mg/kg | 0.0305 | 0.0308 | 92.0 | 50-114 | 0.838 | 20 | WG489632 |
| Fluorene | mg/kg | 0.0275 | 0.0293 | 83.0 | 49-109 | 6.14 | 19 | WG489632 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.0292 | 0.0309 | 88.0 | 40-126 | 5.50 | 20 | WG489632 |
| Naphthalene | mg/kg | 0.0236 | 0.0240 | 72.0 | 36-100 | 1.69 | 24 | WG489632 |
| Phenanthrene | mg/kg | 0.0289 | 0.0295 | 88.0 | 46-108 | 2.15 | 21 | WG489632 |
| Pyrene | mg/kg | 0.0301 | 0.0329 | 91.0 | 30-136 | 8.90 | 20 | WG489632 |
| 2-Fluorobiphenyl | | | | 88.56 | 21-120 | | | WG489632 |
| Nitrobenzene-d5 | | | | 92.84 | 33-114 | | | WG489632 |
| p-Terphenyl-d14 | | | | 124.4 | 18-142 | | | WG489632 |
| ORP | mV | 220. | 220. | 96.0 | 95.6-104.37 | 0 | 20 | WG489869 |
| pH | su | 9.30 | 9.30 | 99.0 | 98.9-102.0 | 0 | 20 | WG489871 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|------------------------|-------|--------------|---------|------|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| Mercury | mg/kg | 0.263 | 0.0870 | .25 | 70.4 | 70-130 | L469778-03 | WG489553 |
| Benzene | mg/kg | 0.108 | 0 | .025 | 86.0 | 16-143 | L469764-01 | WG489679 |
| Ethylbenzene | mg/kg | 0.106 | 0 | .025 | 84.4 | 12-137 | L469764-01 | WG489679 |
| Toluene | mg/kg | 0.108 | 0 | .025 | 86.2 | 12-136 | L469764-01 | WG489679 |
| Total Xylenes | mg/kg | 0.328 | 0 | .075 | 87.4 | 10-138 | L469764-01 | WG489679 |
| 4-Bromofluorobenzene | | | | | 90.20 | 59-140 | | WG489679 |
| Dibromofluoromethane | | | | | 104.2 | 63-139 | | WG489679 |
| Toluene-d8 | | | | | 101.5 | 84-116 | | WG489679 |
| a,a,a-Trifluorotoluene | | | | | 100.8 | 80-118 | | WG489679 |

* 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
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Quality Assurance Report
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L469778

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 1-800-767-5859
 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

August 19, 2010

| Analyte | Units | MS Res | Matrix Spike | | % Rec | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|--------------|------|--------|--------|------------|----------|
| | | | Ref Res | TV | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 16.6 | 10.1 | 5.5 | 23.5* | 55-109 | L469686-04 | WG489537 |
| a,a,a-Trifluorotoluene(FID) | | | | | 91.41 | 59-128 | | WG489537 |
| Chromium,Hexavalent | mg/kg | 0.880 | 0 | 20 | 0.880* | 50-150 | L469764-01 | WG489641 |
| TPH (GC/FID) High Fraction | ppm | 38.3 | 4.60 | 60 | 56.2 | 50-150 | L469878-02 | WG489699 |
| o-Terphenyl | | | | | 89.77 | 50-150 | | WG489699 |
| Arsenic | mg/kg | 50.6 | 5.60 | 50 | 90.0 | 75-125 | L469778-04 | WG489613 |
| Cadmium | mg/kg | 40.0 | 0.440 | 50 | 79.1 | 75-125 | L469778-04 | WG489613 |
| Chromium | mg/kg | 65.8 | 30.0 | 50 | 71.6* | 75-125 | L469778-04 | WG489613 |
| Copper | mg/kg | 63.3 | 19.0 | 50 | 88.6 | 75-125 | L469778-04 | WG489613 |
| Lead | mg/kg | 58.4 | 22.0 | 50 | 72.8* | 75-125 | L469778-04 | WG489613 |
| Nickel | mg/kg | 56.8 | 20.0 | 50 | 73.6* | 75-125 | L469778-04 | WG489613 |
| Selenium | mg/kg | 47.6 | 0 | 50 | 95.2 | 75-125 | L469778-04 | WG489613 |
| Silver | mg/kg | 44.4 | 0 | 50 | 88.8 | 75-125 | L469778-04 | WG489613 |
| Zinc | mg/kg | 88.0 | 47.0 | 50 | 82.0 | 75-125 | L469778-04 | WG489613 |
| Barium | mg/kg | 7740 | 12000 | 50 | 0* | 75-125 | L469778-04 | WG489613 |
| 1-Methylnaphthalene | mg/kg | 0.0320 | 0.000995 | .033 | 93.9 | 19-131 | L469682-05 | WG489632 |
| 2-Chloronaphthalene | mg/kg | 0.0276 | 0 | .033 | 83.7 | 38-117 | L469682-05 | WG489632 |
| 2-Methylnaphthalene | mg/kg | 0.0364 | 0.00149 | .033 | 106. | 18-125 | L469682-05 | WG489632 |
| Acenaphthene | mg/kg | 0.0257 | 0 | .033 | 77.9 | 31-120 | L469682-05 | WG489632 |
| Acenaphthylene | mg/kg | 0.0249 | 0 | .033 | 75.3 | 34-116 | L469682-05 | WG489632 |
| Anthracene | mg/kg | 0.0320 | 0 | .033 | 97.0 | 32-131 | L469682-05 | WG489632 |
| Benzo(a)anthracene | mg/kg | 0.0331 | 0 | .033 | 100. | 32-131 | L469682-05 | WG489632 |
| Benzo(a)pyrene | mg/kg | 0.0312 | 0 | .033 | 94.5 | 28-130 | L469682-05 | WG489632 |
| Benzo(b)fluoranthene | mg/kg | 0.0328 | 0 | .033 | 99.4 | 37-130 | L469682-05 | WG489632 |
| Benzo(g,h,i)perylene | mg/kg | 0.0344 | 0 | .033 | 104. | 10-134 | L469682-05 | WG489632 |
| Benzo(k)fluoranthene | mg/kg | 0.0273 | 0 | .033 | 82.7 | 31-129 | L469682-05 | WG489632 |
| Chrysene | mg/kg | 0.0302 | 0 | .033 | 91.5 | 25-137 | L469682-05 | WG489632 |
| Dibenz(a,h)anthracene | mg/kg | 0.0282 | 0 | .033 | 85.3 | 20-134 | L469682-05 | WG489632 |
| Fluoranthene | mg/kg | 0.0326 | 0 | .033 | 98.7 | 27-138 | L469682-05 | WG489632 |
| Fluorene | mg/kg | 0.0327 | 0 | .033 | 99.1 | 26-136 | L469682-05 | WG489632 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.0279 | 0 | .033 | 84.5 | 16-135 | L469682-05 | WG489632 |
| Naphthalene | mg/kg | 0.0290 | 0 | .033 | 87.8 | 22-121 | L469682-05 | WG489632 |
| Phenanthrene | mg/kg | 0.0402 | 0 | .033 | 122. | 27-133 | L469682-05 | WG489632 |
| Pyrene | mg/kg | 0.0362 | 0 | .033 | 110. | 22-133 | L469682-05 | WG489632 |
| 2-Fluorobiphenyl | | | | | 83.65 | 21-120 | | WG489632 |
| Nitrobenzene-d5 | | | | | 86.08 | 33-114 | | WG489632 |
| p-Terphenyl-d14 | | | | | 119.6 | 18-142 | | WG489632 |

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|----------------------|-------|-------|------------------------|-------|--------|------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| Mercury | mg/kg | 0.271 | 0.263 | 73.6 | 70-130 | 3.00 | 20 | L469778-03 | WG489553 |
| Benzene | mg/kg | 0.125 | 0.108 | 100. | 16-143 | 15.3 | 31 | L469764-01 | WG489679 |
| Ethylbenzene | mg/kg | 0.122 | 0.106 | 98.0 | 12-137 | 14.9 | 36 | L469764-01 | WG489679 |
| Toluene | mg/kg | 0.126 | 0.108 | 100. | 12-136 | 15.4 | 32 | L469764-01 | WG489679 |
| Total Xylenes | mg/kg | 0.362 | 0.328 | 96.6 | 10-138 | 10.0 | 36 | L469764-01 | WG489679 |
| 4-Bromofluorobenzene | | | | 85.69 | 59-140 | | | | WG489679 |
| Dibromofluoromethane | | | | 99.39 | 63-139 | | | | WG489679 |
| Toluene-d8 | | | | 103.0 | 84-116 | | | | WG489679 |

* Performance of this Analyte is outside of established criteria.
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Level II

L469778

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August 19, 2010

Table with columns: Analyte, Units, MSD, Matrix Spike Ref, Duplicate %Rec, Limit, RPD, Limit Ref, Samp, Batch. Rows include various analytes like TPH, Chromium, Arsenic, Cadmium, etc.

Batch number /Run number / Sample number cross reference

- WG489681: R1297088: L469778-01 02 03 04
WG489553: R1297154: L469778-01 02 03 04
WG489679: R1297629: L469778-01 02 03 04
WG489537: R1297950: L469778-01 02 03 04
WG489641: R1298390: L469778-01 02 03 04
WG489699: R1298632: L469778-01 02 03 04
WG489613: R1298708: L469778-01 02 03 04
WG489632: R1298729: L469778-01 02 03 04
WG489869: R1298731: L469778-01 02 03 04

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WG489871: R1298749: L469778-01 02 03 04
WG489646: R1300670: L469778-01 02 03 04

* * Calculations are performed prior to rounding of reported values .
* Performance of this Analyte is outside of established criteria.
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The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

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

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

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



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

Report Summary

Saturday June 25, 2011

Report Number: L522247


Samples Received: 06/22/11

Client Project:

Description: E16

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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REPORT OF ANALYSIS

June 25, 2011

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

Date Received : June 22, 2011
Description : E16
Sample ID : E16-PBN1-062011
Collected By : Brennen Graff
Collection Date : 06/20/11 13:10

ESC Sample # : L522247-01
Site ID :
Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) 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: 06/25/11 16:20 Printed: 06/25/11 16:21



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REPORT OF ANALYSIS

June 25, 2011

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

Date Received : June 22, 2011
Description : E16
Sample ID : E16-PBN2-062011
Collected By : Brennen Graff
Collection Date : 06/20/11 13:20

ESC Sample # : L522247-02
Site ID :
Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 06/25/11 16:20 Printed: 06/25/11 16:21



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REPORT OF ANALYSIS

June 25, 2011

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

Date Received : June 22, 2011
Description : E16
Sample ID : E16-PBN3-062011
Collected By : Brennen Graff
Collection Date : 06/20/11 13:25

ESC Sample # : L522247-03
Site ID :
Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|--------|-----------|----------|------|
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | 8015D/GRO | 06/22/11 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 98.9 | | % Rec. | 602/8015 | 06/22/11 | 5 |
| TPH (GC/FID) High Fraction | 190 | 4.0 | mg/kg | 3546/DRO | 06/25/11 | 1 |
| Surrogate recovery(%) o-Terphenyl | 55.5 | | % Rec. | 3546/DRO | 06/25/11 | 1 |

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 06/25/11 16:20 Printed: 06/25/11 16:21



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REPORT OF ANALYSIS

June 25, 2011

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

ESC Sample # : L522247-04

Date Received : June 22, 2011
Description : E16

Site ID :

Sample ID : E16-PBN4-062011

Project # :

Collected By : Brennen Graff
Collection Date : 06/20/11 13:30

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/25/11 16:20 Printed: 06/25/11 16:21



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REPORT OF ANALYSIS

June 25, 2011

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

ESC Sample # : L522247-05

Date Received : June 22, 2011
Description : E16

Site ID :

Sample ID : E16-PBN5-062011

Project # :

Collected By : Brennen Graff
Collection Date : 06/20/11 13:40

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|--------|-----------|----------|------|
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | 8015D/GRO | 06/22/11 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 98.3 | | % Rec. | 602/8015 | 06/22/11 | 5 |
| TPH (GC/FID) High Fraction | 310 | 40. | mg/kg | 3546/DRO | 06/24/11 | 10 |
| Surrogate recovery(%) o-Terphenyl | 78.2 | | % Rec. | 3546/DRO | 06/24/11 | 10 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 06/25/11 16:20 Printed: 06/25/11 16:21

Summary of Remarks For Samples Printed
06/25/11 at 16:21:16

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L522247-01 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/25/11 16:20
Sample: L522247-02 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/25/11 16:20
Sample: L522247-03 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/25/11 16:20
Sample: L522247-04 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/25/11 16:20
Sample: L522247-05 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/25/11 16:20



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June 25, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG541973 | 06/22/11 15:23 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 98.88 | 59-128 | WG541973 | 06/22/11 15:23 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG542375 | 06/24/11 12:22 |
| o-Terphenyl | | % Rec. | 73.76 | 50-150 | WG542375 | 06/24/11 12:22 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.82 | 106. | 67-135 | WG541973 |
| a,a,a-Trifluorotoluene(FID) | | | | 104.3 | 59-128 | WG541973 |
| TPH (GC/FID) High Fraction | ppm | 60 | 41.9 | 69.9 | 50-150 | WG542375 |
| o-Terphenyl | | | | 71.04 | 50-150 | WG542375 |

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|------|-------|--------|------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.90 | 5.82 | 107. | 67-135 | 1.28 | 20 | WG541973 |
| a,a,a-Trifluorotoluene(FID) | | | | 104.1 | 59-128 | | | WG541973 |
| TPH (GC/FID) High Fraction | ppm | 41.5 | 41.9 | 69.0 | 50-150 | 1.06 | 25 | WG542375 |
| o-Terphenyl | | | | 70.26 | 50-150 | | | WG542375 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|-----|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 26.7 | 0 | 5.5 | 97.2 | 55-109 | L522260-01 | WG541973 |
| a,a,a-Trifluorotoluene(FID) | | | | | 104.0 | 59-128 | | WG541973 |
| TPH (GC/FID) High Fraction | ppm | 329. | 240. | 60 | 148. | 50-150 | L522231-06 | WG542375 |
| o-Terphenyl | | | | | 139.8 | 50-150 | | WG542375 |

| Analyte | Units | Matrix Spike Duplicate | | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|------------------------|------|-------|--------|-------|-------|------------|----------|
| | | MSD | Ref | %Rec | | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 26.5 | 26.7 | 96.3 | 55-109 | 0.980 | 20 | L522260-01 | WG541973 |
| a,a,a-Trifluorotoluene(FID) | | | | 103.5 | 59-128 | | | | WG541973 |
| TPH (GC/FID) High Fraction | ppm | 314. | 329. | 123. | 50-150 | 4.65 | 25 | L522231-06 | WG542375 |
| o-Terphenyl | | | | 117.2 | 50-150 | | | | WG542375 |

Batch number /Run number / Sample number cross reference

WG541973: R1734109: L522247-01 02 03 04 05
 WG542375: R1737929: L522247-01 02 03 04 05

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



YOUR LAB OF CHOICE

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

Quality Assurance Report
Level II

L522247

12065 Lebanon Rd.
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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

June 25, 2011

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

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

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

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



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

Report Summary

Friday June 24, 2011

Report Number: L522231

Samples Received: 06/22/11

Client Project:

Description: E16

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

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

June 24, 2011

Date Received : June 22, 2011
Description : E16
Sample ID : E16-BGN-062011 10-12IN
Collected By : Brennen Graff
Collection Date : 06/20/11 10:55

ESC Sample # : L522231-01

Site ID :

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | 3.0 | 1.0 | mg/kg | 6010B | 06/22/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 06/24/11 16:01 Printed: 06/24/11 16:02



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REPORT OF ANALYSIS

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

June 24, 2011

Date Received : June 22, 2011
Description : E16
Sample ID : E16-BGNW-062011 10-12IN
Collected By : Brennen Graff
Collection Date : 06/20/11 11:05

ESC Sample # : L522231-02

Site ID :

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | 3.1 | 1.0 | mg/kg | 6010B | 06/22/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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

June 24, 2011

Date Received : June 22, 2011
Description : E16
Sample ID : E16-BGW-062011 10-12IN
Collected By : Brennen Graff
Collection Date : 06/20/11 11:15

ESC Sample # : L522231-03

Site ID :

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | 3.3 | 1.0 | mg/kg | 6010B | 06/22/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/24/11 16:01 Printed: 06/24/11 16:02



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REPORT OF ANALYSIS

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

June 24, 2011

Date Received : June 22, 2011
Description : E16
Sample ID : E16-BGSW-062011 8-10IN
Collected By : Brennen Graff
Collection Date : 06/20/11 11:25

ESC Sample # : L522231-04

Site ID :

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | 1.7 | 1.0 | mg/kg | 6010B | 06/22/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/24/11 16:01 Printed: 06/24/11 16:02



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REPORT OF ANALYSIS

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

June 24, 2011

Date Received : June 22, 2011
 Description : E16
 Sample ID : E16-PITS1-062011 10-12IN
 Collected By : Brennen Graff
 Collection Date : 06/20/11 11:45

ESC Sample # : L522231-05
 Site ID :
 Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|--------|-----------|----------|------|
| Arsenic | 3.4 | 1.0 | mg/kg | 6010B | 06/22/11 | 1 |
| TPH (GC/FID) Low Fraction | 0.56 | 0.50 | mg/kg | 8015D/GRO | 06/22/11 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 97.3 | | % Rec. | 602/8015 | 06/22/11 | 5 |
| TPH (GC/FID) High Fraction | 4300 | 80. | mg/kg | 3546/DRO | 06/24/11 | 20 |
| Surrogate recovery(%) o-Terphenyl | 0.00 | | % Rec. | 3546/DRO | 06/24/11 | 20 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

June 24, 2011

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Date Received : June 22, 2011
Description : E16
Sample ID : E16-PITS2-062011 8-10IN
Collected By : Brennen Graff
Collection Date : 06/20/11 11:50

ESC Sample # : L522231-06
Site ID :
Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Arsenic, TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

June 24, 2011

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ESC Sample # : L522231-07

Date Received : June 22, 2011
Description : E16

Site ID :

Sample ID : E16-PITS3-062011 10-12IN

Project # :

Collected By : Brennen Graff
Collection Date : 06/20/11 12:00

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Arsenic, TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

June 24, 2011

Chris Hines
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ESC Sample # : L522231-08

Date Received : June 22, 2011
Description : E16

Site ID :

Sample ID : E16-PITS4-062011 6-8IN

Project # :

Collected By : Brennen Graff
Collection Date : 06/20/11 12:10

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include Arsenic, TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, Surrogate recovery(%) 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: 06/24/11 16:01 Printed: 06/24/11 16:02

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---------------|------------|-------------|-------------|----------|-----------|
| L522231-05 | WG542375 | SAMP | o-Terphenyl | R1737929 | 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
06/24/11 at 16:02:43

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L522231-01 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/24/11 16:01
Sample: L522231-02 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/24/11 16:01
Sample: L522231-03 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/24/11 16:01
Sample: L522231-04 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/24/11 16:01
Sample: L522231-05 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/24/11 16:01
Sample: L522231-06 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/24/11 16:01
Sample: L522231-07 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/24/11 16:01
Sample: L522231-08 Account: ENCANACO Received: 06/22/11 09:00 Due Date: 06/24/11 00:00 RPT Date: 06/24/11 16:01



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Quality Assurance Report
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Est. 1970

June 24, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|--|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) | < .1 | mg/kg | 99.98 | 59-128 | WG541975 | 06/22/11 14:14 |
| Arsenic | < 1 | mg/kg | | | WG541946 | 06/22/11 19:29 |
| TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) | < .1 | mg/kg | 95.30 | 59-128 | WG542155 | 06/23/11 15:44 |
| TPH (GC/FID) High Fraction o-Terphenyl | < 4 | ppm | 73.76 | 50-150 | WG542375 | 06/24/11 12:22 |

| Analyte | Units | Duplicate | | RPD | Limit | Ref Samp | Batch |
|---------|-------|-----------|-----------|------|-------|------------|----------|
| | | Result | Duplicate | | | | |
| Arsenic | mg/kg | 1.30 | 1.50 | 16.6 | 20 | L522249-05 | WG541946 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|--|-------|---------------------------|--------|-------|------------|----------|
| | | Known Val | Result | | | |
| TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) | mg/kg | 5.5 | 5.38 | 97.9 | 67-135 | WG541975 |
| Arsenic | mg/kg | 192 | 188. | 97.9 | 78.6-120.8 | WG541946 |
| TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) | mg/kg | 5.5 | 5.94 | 108. | 67-135 | WG542155 |
| TPH (GC/FID) High Fraction o-Terphenyl | ppm | 60 | 41.9 | 69.9 | 50-150 | WG542375 |
| | | | | 71.04 | 50-150 | WG542375 |

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|--|-------|-------------------------------------|------|-------|--------|-------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) | mg/kg | 5.22 | 5.38 | 95.0 | 67-135 | 3.14 | 20 | WG541975 |
| TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) | mg/kg | 5.93 | 5.94 | 108. | 67-135 | 0.160 | 20 | WG542155 |
| TPH (GC/FID) High Fraction o-Terphenyl | ppm | 41.5 | 41.9 | 69.0 | 50-150 | 1.06 | 25 | WG542375 |
| | | | | 70.26 | 50-150 | | | WG542375 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|--|-------|--------------|---------|-----|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| TPH (GC/FID) Low Fraction a,a,a-Trifluorotoluene(FID) | mg/kg | 17.1 | 0.560 | 5.5 | 60.1 | 55-109 | L522231-05 | WG541975 |
| Arsenic | mg/kg | 50.9 | 1.50 | 50 | 98.8 | 75-125 | L522249-05 | WG541946 |

* 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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June 24, 2011

| Analyte | Units | MS Res | Matrix Spike | | % Rec | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|--------------|-----|-------|--------|------------|----------|
| | | | Ref Res | TV | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 19.8 | 0 | 5.5 | 71.9 | 55-109 | L522239-03 | WG542155 |
| a,a,a-Trifluorotoluene(FID) | | | | | 90.45 | 59-128 | | WG542155 |
| TPH (GC/FID) High Fraction | ppm | 329. | 240. | 60 | 148. | 50-150 | L522231-06 | WG542375 |
| o-Terphenyl | | | | | 139.8 | 50-150 | | WG542375 |

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|------|------------------------|-------|--------|------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 16.8 | 17.1 | 59.1 | 55-109 | 1.75 | 20 | L522231-05 | WG541975 |
| a,a,a-Trifluorotoluene(FID) | | | | 98.79 | 59-128 | | | | WG541975 |
| Arsenic | mg/kg | 48.3 | 50.9 | 93.6 | 75-125 | 5.24 | 20 | L522249-05 | WG541946 |
| TPH (GC/FID) Low Fraction | mg/kg | 16.5 | 19.8 | 60.1 | 55-109 | 17.8 | 20 | L522239-03 | WG542155 |
| a,a,a-Trifluorotoluene(FID) | | | | 92.65 | 59-128 | | | | WG542155 |
| TPH (GC/FID) High Fraction | ppm | 314. | 329. | 123. | 50-150 | 4.65 | 25 | L522231-06 | WG542375 |
| o-Terphenyl | | | | 117.2 | 50-150 | | | | WG542375 |

Batch number /Run number / Sample number cross reference

WG541975: R1734509: L522231-05 06 07
 WG541946: R1734913: L522231-01 02 03 04 05 06 07 08
 WG542155: R1736309: L522231-08
 WG542375: R1737929: L522231-05 06 07 08

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



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June 24, 2011

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

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

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

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



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Chris Hines
EnCana Oil & Gas Inc. - CO
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Report Summary

Tuesday July 12, 2011

Report Number: L525240

Samples Received: 07/09/11

Client Project:

Description: E16-Pitx

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

Entire Report Reviewed By:

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

July 12, 2011

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

Date Received : July 09, 2011
Description : E16-Pitx
Sample ID : E16-SPSW132-070611
Collected By : Bob Stockton
Collection Date : 07/06/11 12:25

ESC Sample # : L525240-01
Site ID : E16
Project # :

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) 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: 07/12/11 13:33 Printed: 07/12/11 13:33



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REPORT OF ANALYSIS

July 12, 2011

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

Date Received : July 09, 2011
Description : E16-Pitx
Sample ID : E16-NPWC2-070611
Collected By : Bob Stockton
Collection Date : 07/06/11 12:11

ESC Sample # : L525240-02
Site ID : E16
Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|--------|-----------|----------|------|
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | 8015D/GRO | 07/12/11 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 97.3 | | % Rec. | 602/8015 | 07/12/11 | 5 |
| TPH (GC/FID) High Fraction | BDL | 4.0 | mg/kg | 3546/DRO | 07/12/11 | 1 |
| Surrogate recovery(%) o-Terphenyl | 76.0 | | % Rec. | 3546/DRO | 07/12/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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REPORT OF ANALYSIS

July 12, 2011

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

Date Received : July 09, 2011
Description : E16-Pitx
Sample ID : E16-SPWEIR-070611
Collected By : Bob Stockton
Collection Date : 07/06/11 13:25

ESC Sample # : L525240-03
Site ID : E16
Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|--------|-----------|----------|------|
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | 8015D/GRO | 07/12/11 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 97.1 | | % Rec. | 602/8015 | 07/12/11 | 5 |
| TPH (GC/FID) High Fraction | BDL | 4.0 | mg/kg | 3546/DRO | 07/12/11 | 1 |
| Surrogate recovery(%) o-Terphenyl | 67.8 | | % Rec. | 3546/DRO | 07/12/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 07/12/11 13:33 Printed: 07/12/11 13:33

Summary of Remarks For Samples Printed
07/12/11 at 13:33:52

TSR Signing Reports: 358
R3 - Rush: Two Day

Sample: L525240-01 Account: ENCANACO Received: 07/09/11 09:00 Due Date: 07/12/11 00:00 RPT Date: 07/12/11 13:33

Sample: L525240-02 Account: ENCANACO Received: 07/09/11 09:00 Due Date: 07/12/11 00:00 RPT Date: 07/12/11 13:33

Sample: L525240-03 Account: ENCANACO Received: 07/09/11 09:00 Due Date: 07/12/11 00:00 RPT Date: 07/12/11 13:33



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EnCana Oil & Gas Inc. - CO
 Chris Hines
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Quality Assurance Report
 Level II

L525240

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Tax I.D. 62-0814289

Est. 1970

July 12, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG545053 | 07/11/11 18:37 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 97.12 | 59-128 | WG545053 | 07/11/11 18:37 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG545021 | 07/12/11 09:59 |
| o-Terphenyl | | % Rec. | 72.06 | 50-150 | WG545021 | 07/12/11 09:59 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.97 | 108. | 67-135 | WG545053 |
| a,a,a-Trifluorotoluene(FID) | | | | 105.6 | 59-128 | WG545053 |
| TPH (GC/FID) High Fraction | ppm | 60 | 49.3 | 82.2 | 50-150 | WG545021 |
| o-Terphenyl | | | | 70.23 | 50-150 | WG545021 |

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|------|-------|--------|-------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.94 | 5.97 | 108. | 67-135 | 0.440 | 20 | WG545053 |
| a,a,a-Trifluorotoluene(FID) | | | | 105.1 | 59-128 | | | WG545053 |
| TPH (GC/FID) High Fraction | ppm | 47.9 | 49.3 | 80.0 | 50-150 | 3.06 | 25 | WG545021 |
| o-Terphenyl | | | | 67.87 | 50-150 | | | WG545021 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|-----|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.67 | 0 | 5.5 | 103. | 55-109 | L525125-03 | WG545053 |
| a,a,a-Trifluorotoluene(FID) | | | | | 102.9 | 59-128 | | WG545053 |

| Analyte | Units | Matrix Spike Duplicate | | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|------------------------|------|-------|--------|-------|-------|------------|----------|
| | | MSD | Ref | %Rec | | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 4.25 | 5.67 | 77.2 | 55-109 | 28.6* | 20 | L525125-03 | WG545053 |
| a,a,a-Trifluorotoluene(FID) | | | | 101.0 | 59-128 | | | | WG545053 |

Batch number /Run number / Sample number cross reference

WG545053: R1756831: L525240-01 02 03
 WG545021: R1757810: L525240-01 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.'



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July 12, 2011

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

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

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

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



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

Report Summary

Thursday July 21, 2011

Report Number: L526471


Samples Received: 07/16/11

Client Project: E16

Description: E16

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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REPORT OF ANALYSIS

July 21, 2011

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

Date Received : July 16, 2011
Description : E16
Sample ID : E16-PITX-NPNEB-070811
Collected By : Robert Stockton
Collection Date : 07/08/11 13:46

ESC Sample # : L526471-01
Site ID :
Project # : E16

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) 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: 07/21/11 15:51 Printed: 07/21/11 15:51
L526471-01 (DRO) - Previous run also had low SURR recovery. Matrix effect.

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---------------|------------|-------------|-------------|----------|-----------|
| L526471-01 | WG546407 | SAMP | o-Terphenyl | R1773470 | J2 |

Attachment B
Explanation of QC Qualifier Codes

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

Qualifier Report Information

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

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent 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
07/21/11 at 15:51:53

TSR Signing Reports: 358
R3 - Rush: Two Day

TPH = GRO/DRO

Sample: L526471-01 Account: ENCANACO Received: 07/16/11 09:00 Due Date: 07/20/11 00:00 RPT Date: 07/21/11 15:51



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Level II

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July 21, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG546134 | 07/18/11 20:00 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 96.47 | 59-128 | WG546134 | 07/18/11 20:00 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG546407 | 07/20/11 14:04 |
| o-Terphenyl | | % Rec. | 69.52 | 50-150 | WG546407 | 07/20/11 14:04 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.94 | 108. | 67-135 | WG546134 |
| a,a,a-Trifluorotoluene(FID) | | | | 102.1 | 59-128 | WG546134 |
| TPH (GC/FID) High Fraction | ppm | 60 | 49.2 | 82.0 | 50-150 | WG546407 |
| o-Terphenyl | | | | 69.06 | 50-150 | WG546407 |

| Analyte | Units | Result | Laboratory Control Sample Duplicate | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|--------|-------------------------------------|-------|--------|------|-------|----------|
| | | | Ref | %Rec | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.87 | 5.94 | 107. | 67-135 | 1.07 | 20 | WG546134 |
| a,a,a-Trifluorotoluene(FID) | | | | 101.8 | 59-128 | | | WG546134 |
| TPH (GC/FID) High Fraction | ppm | 43.7 | 49.2 | 73.0 | 50-150 | 11.9 | 25 | WG546407 |
| o-Terphenyl | | | | 58.95 | 50-150 | | | WG546407 |

| Analyte | Units | MS Res | Matrix Spike | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|--------------|-----|-------|--------|------------|----------|
| | | | Ref Res | TV | % Rec | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 23.4 | 0.610 | 5.5 | 83.0 | 55-109 | L526470-04 | WG546134 |
| a,a,a-Trifluorotoluene(FID) | | | | | 99.32 | 59-128 | | WG546134 |

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|------|------------------------|-------|--------|------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 22.1 | 23.4 | 78.3 | 55-109 | 5.65 | 20 | L526470-04 | WG546134 |
| a,a,a-Trifluorotoluene(FID) | | | | 98.69 | 59-128 | | | | WG546134 |

Batch number /Run number / Sample number cross reference

WG546134: R1769910: L526471-01
WG546407: R1773470: L526471-01

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



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July 21, 2011

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

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

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

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



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

Report Summary

Friday July 22, 2011

Report Number: L526469

Samples Received: 07/16/11

Client Project: G09

Description: E16 Spoils

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
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TX - T104704245, OK-9915

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REPORT OF ANALYSIS

July 22, 2011

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

ESC Sample # : L526469-01

Date Received : July 16, 2011
Description : E16 Spoils

Site ID : G09

Sample ID : E16-PITX-SPOILS-071411

Project # : G09

Collected By : Robert Stockton
Collection Date : 07/14/11 16:10

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include TPH (GC/FID) Low Fraction, Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID), TPH (GC/FID) High Fraction, and Surrogate recovery(%) o-Terphenyl.

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 07/22/11 09:31 Printed: 07/22/11 09:32

L526469-01 (DRO) - Surrogate fails due to matrix interference; confirmed by MS/D

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|---------------|------------|-------------|-------------|----------|-----------|
| L526469-01 | WG546509 | SAMP | o-Terphenyl | R1776730 | J2 |

Attachment B
Explanation of QC Qualifier Codes

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

Qualifier Report Information

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

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent 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
07/22/11 at 09:32:18

TSR Signing Reports: 358
R3 - Rush: Two Day

TPH = GRO/DRO

Sample: L526469-01 Account: ENCANACO Received: 07/16/11 09:00 Due Date: 07/22/11 00:00 RPT Date: 07/22/11 09:31



YOUR LAB OF CHOICE

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

Parachute, CO 81635

Quality Assurance Report
Level II

L526469

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

July 22, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG546265 | 07/19/11 18:21 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 99.08 | 59-128 | WG546265 | 07/19/11 18:21 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG546509 | 07/21/11 18:52 |
| o-Terphenyl | | % Rec. | 83.44 | 50-150 | WG546509 | 07/21/11 18:52 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.71 | 104. | 67-135 | WG546265 |
| a,a,a-Trifluorotoluene(FID) | | | | 104.8 | 59-128 | WG546265 |
| TPH (GC/FID) High Fraction | ppm | 60 | 54.4 | 90.7 | 50-150 | WG546509 |
| o-Terphenyl | | | | 69.51 | 50-150 | WG546509 |

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|------|-------|--------|------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.14 | 5.71 | 93.0 | 67-135 | 10.7 | 20 | WG546265 |
| a,a,a-Trifluorotoluene(FID) | | | | 105.2 | 59-128 | | | WG546265 |
| TPH (GC/FID) High Fraction | ppm | 56.7 | 54.4 | 94.0 | 50-150 | 4.14 | 25 | WG546509 |
| o-Terphenyl | | | | 72.23 | 50-150 | | | WG546509 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|-----|--------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 20.4 | 2.80 | 5.5 | 64.1 | 55-109 | L526438-08 | WG546265 |
| a,a,a-Trifluorotoluene(FID) | | | | | 101.8 | 59-128 | | WG546265 |
| TPH (GC/FID) High Fraction | ppm | 576. | 400. | 60 | 58.6 | 50-150 | L526469-01 | WG546509 |
| o-Terphenyl | | | | | 36.64* | 50-150 | | WG546509 |

| Analyte | Units | Matrix Spike Duplicate | | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|------------------------|------|--------|--------|-------|-------|------------|----------|
| | | MSD | Ref | %Rec | | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 23.4 | 20.4 | 75.0 | 55-109 | 13.7 | 20 | L526438-08 | WG546265 |
| a,a,a-Trifluorotoluene(FID) | | | | 103.4 | 59-128 | | | | WG546265 |
| TPH (GC/FID) High Fraction | ppm | 577. | 576. | 59.0 | 50-150 | 0.251 | 25 | L526469-01 | WG546509 |
| o-Terphenyl | | | | 47.15* | 50-150 | | | | WG546509 |

Batch number /Run number / Sample number cross reference

WG546265: R1771350: L526469-01
WG546509: R1776730: L526469-01

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



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

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

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

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