

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

| Allowable Concentration --> | | | | Organic Compounds in Soil (mg/kg [ppm]) | | | | | | | | | | | | | | | | | Inorganics in Soil | | | Metals in Soil (mg/kg [ppm]) | | | | | | | | | | | | | | |
|-----------------------------|--------------|---------------|-------------------|---|-------------------------------|---------------------------------|---------|---------|--------------|-----------------|--------------|------------|--------------------|----------------------|----------------------|----------------|----------|------------------------|--------------|----------|------------------------|------------|--------|-----------------------------------|-------------------|-------|---------|---------------------------|---------|----------------|---------------|--------|------------------|---------|------------------------|----------|--------|-------|
| Location | Sample Date: | Sample Matrix | Matrix Notes | 500 | | | 0.17 | 85 | 100 | 175 | 1000 | 1000 | 0.22 | 0.22 | 2.2 | 0.022 | 22 | 0.022 | 1000 | 1000 | 0.22 | 23 | 1000 | | (<12) | (6-9) | 0.39 | 15000 | 70 | 120000 | 23 | 3100 | 400 | 23 | 1600 | 390 | 390 | 23000 |
| | | | | TPH (total volatile and extractable petroleum hydrocarbons) | TPH-GRO (C6-C10) Low Fraction | TPH-DRO (C10-C36) High Fraction | Benzene | Toluene | Ethylbenzene | Xylenes - total | Acenaphthene | Anthracene | Benzo(A)anthracene | Benzo(B)fluoranthene | Benzo(K)fluoranthene | Benzo(A)pyrene | Chrysene | Dibenzo(A,H)anthracene | Fluoranthene | Fluorene | Indeno(1,2,3-CD)pyrene | Napthalene | Pyrene | EC (<4 mmhos/cm or 2x background) | SAR (calculation) | pH | Arsenic | Barium - EPA Total Barium | Cadmium | Chromium (III) | Chromium (VI) | Copper | Lead (inorganic) | Mercury | Nickel (soluble salts) | Selenium | Silver | Zinc |
| P16OU | 10/06/10 | Cuttings | | 1300.8 | 0.8 | 1300 | BDL | BDL | | | | | BDL | BDL | BDL | BDL | BDL | BDL | BDL | 0.13 | BDL | 0.18 | 0.12 | 2.2 | 9.1 | 8.5 | 8.4 | 8400 | BDL | 22 | BDL | 17 | 6.9 | 0.033 | 15 | 2 | BDL | 37 |
| P16OU | 04/14/11 | Cuttings | | 1100.64 | 0.64 | 1100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P16OU | 06/28/11 | Cuttings | | 1012 | 12 | 1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P16OU | 07/25/11 | Cuttings | | 820 | BDL | 820 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| P16OU | 12/12/11 | Cuttings | resample for 7/25 | 390 | BDL | 390 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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Est. 1970

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

Report Summary

Monday October 18, 2010

Report Number: L482838

Samples Received: 10/07/10

Client Project:

Description: P160U Cuttings

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:

Jayred 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

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

October 18, 2010

Date Received : October 07, 2010
Description : P160U Cuttings
Sample ID : P160U - CUTTINGS - 100610
Collected By : Blair Rollins
Collection Date : 10/06/10 14:35

ESC Sample # : L482838-01

Site ID :

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|----------|-------------|----------|------|
| Chromium, Hexavalent | BDL | 2.0 | mg/kg | 3060A/7196A | 10/09/10 | 1 |
| Chromium, Trivalent | 22. | 0.50 | mg/kg | Calc. | 10/13/10 | 1 |
| ORP | 150 | | mV | 2580 | 10/11/10 | 1 |
| pH | 8.5 | | su | 9045D | 10/09/10 | 1 |
| Sodium Adsorption Ratio | 9.1 | | | Calc. | 10/14/10 | 10 |
| Specific Conductance | 2200 | | umhos/cm | 9050AMod | 10/14/10 | 1 |
| Mercury | 0.033 | 0.020 | mg/kg | 7471 | 10/11/10 | 1 |
| Arsenic | 8.4 | 5.0 | mg/kg | 6010B | 10/14/10 | 5 |
| Barium | 8400 | 1.2 | mg/kg | 6010B | 10/13/10 | 5 |
| Cadmium | BDL | 0.25 | mg/kg | 6010B | 10/13/10 | 1 |
| Chromium | 22. | 0.50 | mg/kg | 6010B | 10/13/10 | 1 |
| Copper | 17. | 1.0 | mg/kg | 6010B | 10/13/10 | 1 |
| Lead | 6.9 | 0.25 | mg/kg | 6010B | 10/13/10 | 1 |
| Nickel | 15. | 1.0 | mg/kg | 6010B | 10/13/10 | 1 |
| Selenium | 2.0 | 1.0 | mg/kg | 6010B | 10/13/10 | 1 |
| Silver | BDL | 0.50 | mg/kg | 6010B | 10/13/10 | 1 |
| Zinc | 37. | 1.5 | mg/kg | 6010B | 10/13/10 | 1 |
| TPH (GC/FID) Low Fraction | 0.80 | 0.50 | mg/kg | 8015D/GRO | 10/11/10 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 96.8 | | % Rec. | 602/8015 | 10/11/10 | 5 |
| Benzene | BDL | 0.0050 | mg/kg | 8260B | 10/08/10 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8260B | 10/08/10 | 5 |
| Ethylbenzene | BDL | 0.0050 | mg/kg | 8260B | 10/08/10 | 5 |
| Total Xylenes | 0.021 | 0.015 | mg/kg | 8260B | 10/08/10 | 5 |
| Surrogate Recovery | | | | | | |
| Toluene-d8 | 103. | | % Rec. | 8260B | 10/08/10 | 5 |
| Dibromofluoromethane | 103. | | % Rec. | 8260B | 10/08/10 | 5 |
| a,a,a-Trifluorotoluene | 105. | | % Rec. | 8260B | 10/08/10 | 5 |
| 4-Bromofluorobenzene | 103. | | % Rec. | 8260B | 10/08/10 | 5 |
| TPH (GC/FID) High Fraction | 1300 | 80. | mg/kg | 3546/DRO | 10/14/10 | 20 |
| Surrogate recovery(%) o-Terphenyl | 0.00 | | % Rec. | 3546/DRO | 10/14/10 | 20 |

Polynuclear Aromatic Hydrocarbons

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L482838-01 (PH) - 8.5@21.0c



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REPORT OF ANALYSIS

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

October 18, 2010

Date Received : October 07, 2010
Description : P160U Cuttings
Sample ID : P160U - CUTTINGS - 100610
Collected By : Blair Rollins
Collection Date : 10/06/10 14:35

ESC Sample # : L482838-01

Site ID :

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|------------------------|--------|------------|--------|-----------|----------|------|
| Anthracene | 0.094 | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Acenaphthene | 0.11 | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Acenaphthylene | BDL | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Benzo(a)anthracene | BDL | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Benzo(a)pyrene | BDL | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Benzo(b)fluoranthene | BDL | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Benzo(g,h,i)perylene | BDL | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Benzo(k)fluoranthene | BDL | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Chrysene | BDL | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Dibenz(a,h)anthracene | BDL | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Fluoranthene | BDL | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Fluorene | 0.13 | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Indeno(1,2,3-cd)pyrene | BDL | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Naphthalene | 0.18 | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Phenanthrene | 0.15 | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Pyrene | 0.12 | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| 1-Methylnaphthalene | 0.44 | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| 2-Methylnaphthalene | 0.52 | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| 2-Chloronaphthalene | BDL | 0.060 | mg/kg | 8270C-SIM | 10/17/10 | 10 |
| Surrogate Recovery | | | | | | |
| Nitrobenzene-d5 | 149. | | % Rec. | 8270C-SIM | 10/17/10 | 10 |
| 2-Fluorobiphenyl | 128. | | % Rec. | 8270C-SIM | 10/17/10 | 10 |
| p-Terphenyl-d14 | 102. | | % Rec. | 8270C-SIM | 10/17/10 | 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: 10/18/10 12:41 Printed: 10/18/10 12:42
L482838-01 (PH) - 8.5@21.0c

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|------------------|---------------|----------------|---------------------|-----------|-----------|
| L482838-01 | WG502936 | SAMP | Barium | R1426376 | B |
| | WG503513 | SAMP | 2-Chloronaphthalene | R1429988 | J3 |
| | WG503513 | SAMP | Nitrobenzene-d5 | R1429988 | J1 |
| | WG503513 | SAMP | 2-Fluorobiphenyl | R1429988 | J1 |
| | WG502959 | SAMP | o-Terphenyl | R1426549 | J7 |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|-----------|---|
| B | (EPA) - The indicated compound was found in the associated method blank as well as the laboratory sample. |
| 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. |
| 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
10/18/10 at 12:42:08

TSR Signing Reports: 358
R5 - Desired TAT

Log all samples beginning with different sample numbers to separate reports. Example- M34 N
PIT and M34 S PIT go on one L# together, but M34 S PIT and E34 S PIT would go on separate L #s.

Sample: L482838-01 Account: ENCANACO Received: 10/07/10 09:00 Due Date: 10/14/10 00:00 RPT Date: 10/18/10 12:41



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Level II

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Tax I.D. 62-0814289

Est. 1970

October 18, 2010

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|------------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Chromium, Hexavalent | < 2 | mg/kg | | | WG502351 | 10/09/10 11:50 |
| pH | 6.30 | su | | | WG502423 | 10/09/10 11:14 |
| Benzene | < .001 | mg/kg | | | WG502296 | 10/08/10 14:18 |
| Ethylbenzene | < .001 | mg/kg | | | WG502296 | 10/08/10 14:18 |
| Toluene | < .005 | mg/kg | | | WG502296 | 10/08/10 14:18 |
| Total Xylenes | < .003 | mg/kg | | | WG502296 | 10/08/10 14:18 |
| 4-Bromofluorobenzene | | % Rec. | 97.64 | 59-140 | WG502296 | 10/08/10 14:18 |
| Dibromofluoromethane | | % Rec. | 108.0 | 63-139 | WG502296 | 10/08/10 14:18 |
| Toluene-d8 | | % Rec. | 105.4 | 84-116 | WG502296 | 10/08/10 14:18 |
| a,a,a-Trifluorotoluene | | % Rec. | 103.4 | 80-118 | WG502296 | 10/08/10 14:18 |
| Mercury | < .02 | mg/kg | | | WG502574 | 10/11/10 11:38 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG502647 | 10/11/10 09:54 |
| a,a,a-Trifluorotoluene (FID) | | % Rec. | 97.54 | 59-128 | WG502647 | 10/11/10 09:54 |
| Arsenic | < 1 | mg/kg | | | WG502936 | 10/13/10 22:12 |
| Barium | 1.05 | mg/kg | | | WG502936 | 10/13/10 22:12 |
| Cadmium | < .25 | mg/kg | | | WG502936 | 10/13/10 22:12 |
| Chromium | < .5 | mg/kg | | | WG502936 | 10/13/10 22:12 |
| Copper | < 1 | mg/kg | | | WG502936 | 10/13/10 22:12 |
| Lead | < .25 | mg/kg | | | WG502936 | 10/13/10 22:12 |
| Nickel | < 1 | mg/kg | | | WG502936 | 10/13/10 22:12 |
| Selenium | < 1 | mg/kg | | | WG502936 | 10/13/10 22:12 |
| Silver | < .5 | mg/kg | | | WG502936 | 10/13/10 22:12 |
| Zinc | < 1.5 | mg/kg | | | WG502936 | 10/13/10 22:12 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG502959 | 10/13/10 21:37 |
| o-Terphenyl | | % Rec. | 94.79 | 50-150 | WG502959 | 10/13/10 21:37 |
| Specific Conductance | 2.00 | umhos/cm | | | WG503224 | 10/14/10 14:35 |
| 1-Methylnaphthalene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| 2-Chloronaphthalene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| 2-Methylnaphthalene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Acenaphthene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Acenaphthylene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Anthracene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Benzo(a)anthracene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Benzo(a)pyrene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Benzo(b)fluoranthene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Benzo(g,h,i)perylene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Benzo(k)fluoranthene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Chrysene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Dibenz(a,h)anthracene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Fluoranthene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Fluorene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Indeno(1,2,3-cd)pyrene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Naphthalene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |

* 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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| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Phenanthrene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| Pyrene | < .006 | mg/kg | | | WG503513 | 10/16/10 08:08 |
| 2-Fluorobiphenyl | | % Rec. | 56.13 | 21-120 | WG503513 | 10/16/10 08:08 |
| Nitrobenzene-d5 | | % Rec. | 55.74 | 33-114 | WG503513 | 10/16/10 08:08 |
| p-Terphenyl-d14 | | % Rec. | 69.78 | 18-142 | WG503513 | 10/16/10 08:08 |

| Analyte | Units | Duplicate | | RPD | Limit | Ref Samp | Batch |
|----------------------|----------|-----------|-----------|-------|-------|------------|----------|
| | | Result | Duplicate | | | | |
| Chromium,Hexavalent | mg/kg | 0 | 0 | 0 | 20 | L482512-01 | WG502351 |
| pH | su | 8.20 | 8.30 | 1.21* | 1 | L482729-35 | WG502423 |
| pH | su | 8.20 | 8.20 | 0 | 1 | L482729-43 | WG502423 |
| Mercury | mg/kg | 0.0300 | 0.0290 | 4.05 | 20 | L482738-19 | WG502574 |
| ORP | mV | 84.0 | 90.0 | 6.90 | 20 | L482930-01 | WG502368 |
| ORP | mV | 110. | 110. | 3.57 | 20 | L482930-02 | WG502368 |
| Arsenic | mg/kg | 3.70 | 3.90 | 4.99 | 20 | L482847-31 | WG502936 |
| Barium | mg/kg | 90.0 | 84.0 | 6.34 | 20 | L482847-31 | WG502936 |
| Cadmium | mg/kg | 0 | 0 | 0 | 20 | L482847-31 | WG502936 |
| Chromium | mg/kg | 10.0 | 10.0 | 0.300 | 20 | L482847-31 | WG502936 |
| Copper | mg/kg | 11.0 | 11.3 | 0 | 20 | L482847-31 | WG502936 |
| Lead | mg/kg | 8.60 | 8.50 | 0.587 | 20 | L482847-31 | WG502936 |
| Nickel | mg/kg | 13.0 | 13.4 | 0 | 20 | L482847-31 | WG502936 |
| Selenium | mg/kg | 5.10 | 5.40 | 5.71 | 20 | L482847-31 | WG502936 |
| Silver | mg/kg | 0 | 0 | 0 | 20 | L482847-31 | WG502936 |
| Zinc | mg/kg | 41.0 | 42.0 | 3.14 | 20 | L482847-31 | WG502936 |
| Specific Conductance | umhos/cm | 180. | 140. | 27.0* | 20 | L482729-36 | WG503224 |
| Specific Conductance | umhos/cm | 230. | 210. | 9.44 | 20 | L482729-45 | WG503224 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|------------------------|-------|---------------------------|--------|-------|--------------|----------|
| | | Known Val | Result | | | |
| Chromium,Hexavalent | mg/kg | 100 | 69.7 | 69.7 | 50-143 | WG502351 |
| pH | su | 6.92 | 6.90 | 99.7 | 97.98-102.02 | WG502423 |
| Benzene | mg/kg | .025 | 0.0236 | 94.4 | 65-128 | WG502296 |
| Ethylbenzene | mg/kg | .025 | 0.0258 | 103. | 74-128 | WG502296 |
| Toluene | mg/kg | .025 | 0.0249 | 99.6 | 70-120 | WG502296 |
| Total Xylenes | mg/kg | .075 | 0.0762 | 102. | 74-127 | WG502296 |
| 4-Bromofluorobenzene | | | | 96.11 | 59-140 | WG502296 |
| Dibromofluoromethane | | | | 99.82 | 63-139 | WG502296 |
| Toluene-d8 | | | | 100.2 | 84-116 | WG502296 |
| a,a,a-Trifluorotoluene | | | | 106.8 | 80-118 | WG502296 |
| Mercury | mg/kg | 8.77 | 8.92 | 102. | 71.6-127.7 | WG502574 |

* 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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| Analyte | Units | Laboratory Control | Sample | % Rec | Limit | Batch |
|-----------------------------|----------|--------------------|--------|-------|-------------|----------|
| | | Known Val | Result | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.75 | 104. | 67-135 | WG502647 |
| a,a,a-Trifluorotoluene(FID) | | | | 104.6 | 59-128 | WG502647 |
| ORP | mV | 229 | 220. | 96.1 | 95.6-104.37 | WG502368 |
| Arsenic | mg/kg | 192 | 166. | 86.5 | 78.6-120.8 | WG502936 |
| Barium | mg/kg | 420 | 402. | 95.7 | 78.8-121.4 | WG502936 |
| Cadmium | mg/kg | 70.1 | 62.4 | 89.0 | 78.5-121.5 | WG502936 |
| Chromium | mg/kg | 168 | 159. | 94.6 | 80.4-120.2 | WG502936 |
| Copper | mg/kg | 122 | 116. | 95.1 | 81.6-119.7 | WG502936 |
| Lead | mg/kg | 113 | 103. | 91.2 | 77.3-122.1 | WG502936 |
| Nickel | mg/kg | 74.1 | 69.8 | 94.2 | 78.8-121.2 | WG502936 |
| Selenium | mg/kg | 176 | 166. | 94.3 | 75.6-125.0 | WG502936 |
| Silver | mg/kg | 115 | 104. | 90.4 | 66-133.9 | WG502936 |
| Zinc | mg/kg | 437 | 398. | 91.1 | 78.5-121.7 | WG502936 |
| TPH (GC/FID) High Fraction | ppm | 60 | 50.4 | 84.0 | 50-150 | WG502959 |
| o-Terphenyl | | | | 94.76 | 50-150 | WG502959 |
| Specific Conductance | umhos/cm | 406 | 420. | 103. | 85-115 | WG503224 |
| 1-Methylnaphthalene | mg/kg | .033 | 0.0227 | 68.7 | 41-110 | WG503513 |
| 2-Chloronaphthalene | mg/kg | .033 | 0.0231 | 70.0 | 43-109 | WG503513 |
| 2-Methylnaphthalene | mg/kg | .033 | 0.0219 | 66.2 | 38-104 | WG503513 |
| Acenaphthene | mg/kg | .033 | 0.0227 | 68.8 | 48-103 | WG503513 |
| Acenaphthylene | mg/kg | .033 | 0.0231 | 69.9 | 43-106 | WG503513 |
| Anthracene | mg/kg | .033 | 0.0243 | 73.5 | 51-110 | WG503513 |
| Benzo(a)anthracene | mg/kg | .033 | 0.0227 | 68.9 | 38-126 | WG503513 |
| Benzo(a)pyrene | mg/kg | .033 | 0.0221 | 67.1 | 47-118 | WG503513 |
| Benzo(b)fluoranthene | mg/kg | .033 | 0.0222 | 67.3 | 47-118 | WG503513 |
| Benzo(g,h,i)perylene | mg/kg | .033 | 0.0245 | 74.2 | 40-125 | WG503513 |
| Benzo(k)fluoranthene | mg/kg | .033 | 0.0224 | 68.0 | 45-121 | WG503513 |
| Chrysene | mg/kg | .033 | 0.0241 | 73.0 | 35-135 | WG503513 |
| Dibenz(a,h)anthracene | mg/kg | .033 | 0.0216 | 65.6 | 41-124 | WG503513 |
| Fluoranthene | mg/kg | .033 | 0.0256 | 77.7 | 50-114 | WG503513 |
| Fluorene | mg/kg | .033 | 0.0223 | 67.6 | 49-109 | WG503513 |
| Indeno(1,2,3-cd)pyrene | mg/kg | .033 | 0.0235 | 71.1 | 40-126 | WG503513 |
| Naphthalene | mg/kg | .033 | 0.0205 | 62.2 | 36-100 | WG503513 |
| Phenanthrene | mg/kg | .033 | 0.0234 | 70.8 | 46-108 | WG503513 |
| Pyrene | mg/kg | .033 | 0.0231 | 70.0 | 30-136 | WG503513 |
| 2-Fluorobiphenyl | | | | 70.17 | 21-120 | WG503513 |
| Nitrobenzene-d5 | | | | 66.38 | 33-114 | WG503513 |
| p-Terphenyl-d14 | | | | 78.50 | 18-142 | WG503513 |

| Analyte | Units | Laboratory Control | | Sample Duplicate | Limit | RPD | Limit | Batch |
|---------------------|-------|--------------------|------|------------------|--------------|-------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| Chromium,Hexavalent | mg/kg | 70.3 | 69.7 | 70.0 | 50-143 | 0.857 | 20 | WG502351 |
| pH | su | 6.90 | 6.90 | 100. | 97.98-102.02 | 0 | 20 | WG502423 |

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Level II

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

Tax I.D. 62-0814289

Est. 1970

October 18, 2010

| Analyte | Units | Laboratory Control | | Sample Duplicate | | Limit | RPD | Limit | Batch |
|-----------------------------|--------|--------------------|--------|------------------|--|-------------|-------|-------|----------|
| | | Result | Ref | %Rec | | | | | |
| Benzene | mg/kg | 0.0212 | 0.0236 | 85.0 | | 65-128 | 10.6 | 20 | WG502296 |
| Ethylbenzene | mg/kg | 0.0235 | 0.0258 | 94.0 | | 74-128 | 9.40 | 20 | WG502296 |
| Toluene | mg/kg | 0.0226 | 0.0249 | 90.0 | | 70-120 | 9.44 | 20 | WG502296 |
| Total Xylenes | mg/kg | 0.0696 | 0.0762 | 93.0 | | 74-127 | 9.01 | 20 | WG502296 |
| 4-Bromofluorobenzene | | | | 98.76 | | 59-140 | | | WG502296 |
| Dibromofluoromethane | | | | 98.32 | | 63-139 | | | WG502296 |
| Toluene-d8 | | | | 101.6 | | 84-116 | | | WG502296 |
| a,a,a-Trifluorotoluene | | | | 105.6 | | 80-118 | | | WG502296 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.84 | 5.75 | 106. | | 67-135 | 1.53 | 20 | WG502647 |
| a,a,a-Trifluorotoluene(FID) | | | | 105.8 | | 59-128 | | | WG502647 |
| ORP | mV | 220. | 220. | 96.0 | | 95.6-104.37 | 0 | 20 | WG502368 |
| TPH (GC/FID) High Fraction | ppm | 52.9 | 50.4 | 88.0 | | 50-150 | 4.79 | 25 | WG502959 |
| o-Terphenyl | | | | 102.2 | | 50-150 | | | WG502959 |
| Specific Conductance | umhos/ | 420. | 420. | 103. | | 85-115 | 0 | 20 | WG503224 |
| 1-Methylnaphthalene | mg/kg | 0.0191 | 0.0227 | 58.0 | | 41-110 | 17.0 | 24 | WG503513 |
| 2-Chloronaphthalene | mg/kg | 0.0169 | 0.0231 | 51.0 | | 43-109 | 31.2* | 21 | WG503513 |
| 2-Methylnaphthalene | mg/kg | 0.0183 | 0.0219 | 55.0 | | 38-104 | 17.8 | 24 | WG503513 |
| Acenaphthene | mg/kg | 0.0192 | 0.0227 | 58.0 | | 48-103 | 16.9 | 20 | WG503513 |
| Acenaphthylene | mg/kg | 0.0192 | 0.0231 | 58.0 | | 43-106 | 18.2 | 20 | WG503513 |
| Anthracene | mg/kg | 0.0217 | 0.0243 | 66.0 | | 51-110 | 11.2 | 22 | WG503513 |
| Benzo(a)anthracene | mg/kg | 0.0209 | 0.0227 | 63.0 | | 38-126 | 8.15 | 20 | WG503513 |
| Benzo(a)pyrene | mg/kg | 0.0209 | 0.0221 | 63.0 | | 47-118 | 5.57 | 20 | WG503513 |
| Benzo(b)fluoranthene | mg/kg | 0.0221 | 0.0222 | 67.0 | | 47-118 | 0.384 | 29 | WG503513 |
| Benzo(g,h,i)perylene | mg/kg | 0.0226 | 0.0245 | 68.0 | | 40-125 | 7.94 | 20 | WG503513 |
| Benzo(k)fluoranthene | mg/kg | 0.0203 | 0.0224 | 62.0 | | 45-121 | 9.95 | 31 | WG503513 |
| Chrysene | mg/kg | 0.0221 | 0.0241 | 67.0 | | 35-135 | 8.65 | 20 | WG503513 |
| Dibenz(a,h)anthracene | mg/kg | 0.0200 | 0.0216 | 60.0 | | 41-124 | 7.97 | 20 | WG503513 |
| Fluoranthene | mg/kg | 0.0231 | 0.0256 | 70.0 | | 50-114 | 10.6 | 20 | WG503513 |
| Fluorene | mg/kg | 0.0198 | 0.0223 | 60.0 | | 49-109 | 12.1 | 19 | WG503513 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.0213 | 0.0235 | 64.0 | | 40-126 | 9.62 | 20 | WG503513 |
| Naphthalene | mg/kg | 0.0179 | 0.0205 | 54.0 | | 36-100 | 13.6 | 24 | WG503513 |
| Phenanthrene | mg/kg | 0.0217 | 0.0234 | 66.0 | | 46-108 | 7.33 | 21 | WG503513 |
| Pyrene | mg/kg | 0.0216 | 0.0231 | 65.0 | | 30-136 | 6.72 | 20 | WG503513 |
| 2-Fluorobiphenyl | | | | 63.52 | | 21-120 | | | WG503513 |
| Nitrobenzene-d5 | | | | 46.33 | | 33-114 | | | WG503513 |
| p-Terphenyl-d14 | | | | 68.40 | | 18-142 | | | WG503513 |

| Analyte | Units | Matrix Spike | | | % Rec | Limit | Ref Samp | Batch |
|----------------------|-------|--------------|---------|------|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | | | | |
| Chromium,Hexavalent | mg/kg | 8.08 | 0 | 20 | 40.4* | 50-150 | L482572-01 | WG502351 |
| Benzene | mg/kg | 0.0994 | 0 | .025 | 79.5 | 16-143 | L482825-01 | WG502296 |
| Ethylbenzene | mg/kg | 0.108 | 0 | .025 | 86.6 | 12-137 | L482825-01 | WG502296 |
| Toluene | mg/kg | 0.105 | 0 | .025 | 84.0 | 12-136 | L482825-01 | WG502296 |
| Total Xylenes | mg/kg | 0.324 | 0 | .075 | 86.4 | 10-138 | L482825-01 | WG502296 |
| 4-Bromofluorobenzene | | | | | 97.32 | 59-140 | | WG502296 |
| Dibromofluoromethane | | | | | 99.62 | 63-139 | | WG502296 |

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| Analyte | Units | MS Res | Matrix Spike | | % Rec | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|--------------|------|-------|--------|------------|----------|
| | | | Ref Res | TV | | | | |
| Toluene-d8 | | | | | 102.3 | 84-116 | | |
| a,a,a-Trifluorotoluene | | | | | 105.9 | 80-118 | | |
| Mercury | mg/kg | 0.274 | 0.0290 | .25 | 98.0 | 70-130 | L482738-19 | WG502574 |
| TPH (GC/FID) Low Fraction | mg/kg | 25.3 | 0 | 5.5 | 92.0 | 55-109 | L482777-12 | WG502647 |
| a,a,a-Trifluorotoluene(FID) | | | | | 105.7 | 59-128 | | WG502647 |
| Arsenic | mg/kg | 43.5 | 3.90 | 50 | 79.2 | 75-125 | L482847-31 | WG502936 |
| Barium | mg/kg | 124. | 84.0 | 50 | 80.0 | 75-125 | L482847-31 | WG502936 |
| Cadmium | mg/kg | 40.3 | 0 | 50 | 80.6 | 75-125 | L482847-31 | WG502936 |
| Chromium | mg/kg | 53.6 | 10.0 | 50 | 87.2 | 75-125 | L482847-31 | WG502936 |
| Copper | mg/kg | 54.5 | 11.3 | 50 | 86.4 | 75-125 | L482847-31 | WG502936 |
| Lead | mg/kg | 50.2 | 8.50 | 50 | 83.4 | 75-125 | L482847-31 | WG502936 |
| Nickel | mg/kg | 53.5 | 13.4 | 50 | 80.2 | 75-125 | L482847-31 | WG502936 |
| Selenium | mg/kg | 44.3 | 5.40 | 50 | 77.8 | 75-125 | L482847-31 | WG502936 |
| Silver | mg/kg | 39.7 | 0 | 50 | 79.4 | 75-125 | L482847-31 | WG502936 |
| Zinc | mg/kg | 84.7 | 42.0 | 50 | 85.4 | 75-125 | L482847-31 | WG502936 |
| TPH (GC/FID) High Fraction | ppm | 50.5 | 0 | 60 | 84.1 | 50-150 | L482410-02 | WG502959 |
| o-Terphenyl | | | | | 96.80 | 50-150 | | WG502959 |
| 1-Methylnaphthalene | mg/kg | 0.145 | 0.0430 | .033 | 308.* | 19-131 | L483743-01 | WG503513 |
| 2-Chloronaphthalene | mg/kg | 0.0281 | 0 | .033 | 85.1 | 38-117 | L483743-01 | WG503513 |
| 2-Methylnaphthalene | mg/kg | 0.397 | 0.110 | .033 | 869.* | 18-125 | L483743-01 | WG503513 |
| Acenaphthene | mg/kg | 0.0590 | 0.0100 | .033 | 148.* | 31-120 | L483743-01 | WG503513 |
| Acenaphthylene | mg/kg | 0.0296 | 0 | .033 | 89.7 | 34-116 | L483743-01 | WG503513 |
| Anthracene | mg/kg | 0.316 | 0.0280 | .033 | 874.* | 32-131 | L483743-01 | WG503513 |
| Benzo(a)anthracene | mg/kg | 0.134 | 0.0640 | .033 | 211.* | 32-131 | L483743-01 | WG503513 |
| Chrysene | mg/kg | 0.186 | 0.0840 | .033 | 310.* | 25-137 | L483743-01 | WG503513 |
| Fluoranthene | mg/kg | 0.253 | 0.120 | .033 | 403.* | 27-138 | L483743-01 | WG503513 |
| Fluorene | mg/kg | 0.103 | 0.0280 | .033 | 227.* | 26-136 | L483743-01 | WG503513 |
| Naphthalene | mg/kg | 0.211 | 0.0700 | .033 | 427.* | 22-121 | L483743-01 | WG503513 |
| Phenanthrene | mg/kg | 0.334 | 0.140 | .033 | 587.* | 27-133 | L483743-01 | WG503513 |
| Pyrene | mg/kg | 0.117 | 0.0530 | .033 | 194.* | 22-133 | L483743-01 | WG503513 |
| 2-Fluorobiphenyl | | | | | 84.65 | 21-120 | | WG503513 |
| Nitrobenzene-d5 | | | | | 55.24 | 33-114 | | WG503513 |
| p-Terphenyl-d14 | | | | | 89.37 | 18-142 | | WG503513 |
| Benzo(a)pyrene | mg/kg | 0.0704 | 0 | .033 | 213.* | 28-130 | L483743-01 | WG503513 |
| Benzo(b)fluoranthene | mg/kg | 0.191 | 0.0880 | .033 | 312.* | 37-130 | L483743-01 | WG503513 |
| Benzo(g,h,i)perylene | mg/kg | 0.0464 | 0 | .033 | 140.* | 10-134 | L483743-01 | WG503513 |
| Benzo(k)fluoranthene | mg/kg | 0.0470 | 0 | .033 | 142.* | 31-129 | L483743-01 | WG503513 |
| Dibenz(a,h)anthracene | mg/kg | 0.0350 | 0 | .033 | 106. | 20-134 | L483743-01 | WG503513 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.0464 | 0 | .033 | 140.* | 16-135 | L483743-01 | WG503513 |

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|----------------------|-------|-------|------------------------|-------|--------|------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| Chromium,Hexavalent | mg/kg | 8.92 | 8.08 | 44.6* | 50-150 | 9.88 | 20 | L482572-01 | WG502351 |
| Benzene | mg/kg | 0.105 | 0.0994 | 83.9 | 16-143 | 5.37 | 31 | L482825-01 | WG502296 |
| Ethylbenzene | mg/kg | 0.117 | 0.108 | 93.5 | 12-137 | 7.69 | 36 | L482825-01 | WG502296 |
| Toluene | mg/kg | 0.109 | 0.105 | 87.0 | 12-136 | 3.56 | 32 | L482825-01 | WG502296 |
| Total Xylenes | mg/kg | 0.350 | 0.324 | 93.3 | 10-138 | 7.62 | 36 | L482825-01 | WG502296 |
| 4-Bromofluorobenzene | | | | 100.0 | 59-140 | | | | WG502296 |

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Quality Assurance Report
Level II

Parachute, CO 81635

October 18, 2010

L482838

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|------------------------|--------|--------|-------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| Dibromofluoromethane | | | | 99.65 | 63-139 | | | | |
| Toluene-d8 | | | | 100.2 | 84-116 | | | | |
| a,a,a-Trifluorotoluene | | | | 104.5 | 80-118 | | | | |
| Mercury | mg/kg | 0.284 | 0.274 | 102. | 70-130 | 3.58 | 20 | L482738-19 | WG502574 |
| TPH (GC/FID) Low Fraction | mg/kg | 22.1 | 25.3 | 80.4 | 55-109 | 13.5 | 20 | L482777-12 | WG502647 |
| a,a,a-Trifluorotoluene(FID) | | | | 105.2 | 59-128 | | | | WG502647 |
| Arsenic | mg/kg | 48.1 | 43.5 | 88.4 | 75-125 | 10.0 | 20 | L482847-31 | WG502936 |
| Barium | mg/kg | 147. | 124. | 126.* | 75-125 | 17.0 | 20 | L482847-31 | WG502936 |
| Cadmium | mg/kg | 45.3 | 40.3 | 90.6 | 75-125 | 11.7 | 20 | L482847-31 | WG502936 |
| Chromium | mg/kg | 60.4 | 53.6 | 101. | 75-125 | 11.9 | 20 | L482847-31 | WG502936 |
| Copper | mg/kg | 61.8 | 54.5 | 101. | 75-125 | 12.6 | 20 | L482847-31 | WG502936 |
| Lead | mg/kg | 55.3 | 50.2 | 93.6 | 75-125 | 9.67 | 20 | L482847-31 | WG502936 |
| Nickel | mg/kg | 60.1 | 53.5 | 93.4 | 75-125 | 11.6 | 20 | L482847-31 | WG502936 |
| Selenium | mg/kg | 48.8 | 44.3 | 86.8 | 75-125 | 9.67 | 20 | L482847-31 | WG502936 |
| Silver | mg/kg | 44.2 | 39.7 | 88.4 | 75-125 | 10.7 | 20 | L482847-31 | WG502936 |
| Zinc | mg/kg | 97.6 | 84.7 | 111. | 75-125 | 14.2 | 20 | L482847-31 | WG502936 |
| TPH (GC/FID) High Fraction | ppm | 46.3 | 50.5 | 77.2 | 50-150 | 8.52 | 25 | L482410-02 | WG502959 |
| o-Terphenyl | | | | 83.88 | 50-150 | | | | WG502959 |
| 1-Methylnaphthalene | mg/kg | 0.111 | 0.145 | 205.* | 19-131 | 26.6 | 30 | L483743-01 | WG503513 |
| 2-Chloronaphthalene | mg/kg | 0.0304 | 0.0281 | 92.1 | 38-117 | 7.94 | 26 | L483743-01 | WG503513 |
| 2-Methylnaphthalene | mg/kg | 0.259 | 0.397 | 451.* | 18-125 | 42.0* | 29 | L483743-01 | WG503513 |
| Acenaphthene | mg/kg | 0.0535 | 0.0590 | 132.* | 31-120 | 9.76 | 30 | L483743-01 | WG503513 |
| Acenaphthylene | mg/kg | 0.0311 | 0.0296 | 94.2 | 34-116 | 4.81 | 29 | L483743-01 | WG503513 |
| Anthracene | mg/kg | 0.0761 | 0.316 | 146.* | 32-131 | 122.* | 26 | L483743-01 | WG503513 |
| Benzo(a)anthracene | mg/kg | 0.149 | 0.134 | 259.* | 32-131 | 11.1 | 31 | L483743-01 | WG503513 |
| Chrysene | mg/kg | 0.203 | 0.186 | 362.* | 25-137 | 8.78 | 22 | L483743-01 | WG503513 |
| Fluoranthene | mg/kg | 0.271 | 0.253 | 457.* | 27-138 | 6.86 | 35 | L483743-01 | WG503513 |
| Fluorene | mg/kg | 0.0834 | 0.103 | 168.* | 26-136 | 21.1 | 30 | L483743-01 | WG503513 |
| Naphthalene | mg/kg | 0.161 | 0.211 | 275.* | 22-121 | 27.1 | 30 | L483743-01 | WG503513 |
| Phenanthrene | mg/kg | 0.288 | 0.334 | 449.* | 27-133 | 14.6 | 36 | L483743-01 | WG503513 |
| Pyrene | mg/kg | 0.132 | 0.117 | 240.* | 22-133 | 12.1 | 33 | L483743-01 | WG503513 |
| 2-Fluorobiphenyl | | | | 89.28 | 21-120 | | | | WG503513 |
| Nitrobenzene-d5 | | | | 129.8* | 33-114 | | | | WG503513 |
| p-Terphenyl-d14 | | | | 90.62 | 18-142 | | | | WG503513 |
| Benzo(a)pyrene | mg/kg | 0.0984 | 0.0704 | 298.* | 28-130 | 33.2* | 28 | L483743-01 | WG503513 |
| Benzo(b)fluoranthene | mg/kg | 0.259 | 0.191 | 519.* | 37-130 | 30.2 | 41 | L483743-01 | WG503513 |
| Benzo(g,h,i)perylene | mg/kg | 0.0655 | 0.0464 | 198.* | 10-134 | 34.2* | 26 | L483743-01 | WG503513 |
| Benzo(k)fluoranthene | mg/kg | 0.0940 | 0.0470 | 285.* | 31-129 | 66.6* | 42 | L483743-01 | WG503513 |
| Dibenz(a,h)anthracene | mg/kg | 0.0469 | 0.0350 | 142.* | 20-134 | 28.9* | 25 | L483743-01 | WG503513 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.0657 | 0.0464 | 199.* | 16-135 | 34.4* | 26 | L483743-01 | WG503513 |

Batch number /Run number / Sample number cross reference

WG502351: R1419648: L482838-01
WG502423: R1420749: L482838-01
WG502296: R1421148: L482838-01
WG502574: R1421569: L482838-01
WG502647: R1422208: L482838-01
WG502368: R1422548: L482838-01
WG502936: R1426376: L482838-01

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WG502959: R1426549: L482838-01
WG503224: R1427548: L482838-01
WG502875: R1427568: L482838-01
WG503513: R1429988: L482838-01

* * Calculations are performed prior to rounding of reported values .
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October 18, 2010

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

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

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

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



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Est. 1970

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

Report Summary

Tuesday April 19, 2011

Report Number: L511470

Samples Received: 04/15/11

Client Project: 900133.8887.030

Description: P16OU

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:

Jayred 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

April 19, 2011

Date Received : April 15, 2011
Description : P160U

Sample ID : P160U-CUT-041411

Collected By : Bob Stockton
Collection Date : 04/14/11 14:15

ESC Sample # : L511470-01

Site ID : EOU

Project # : 900133.8887.030

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|--------|-----------|----------|------|
| Total Solids | 78. | | % | 2540G | 04/19/11 | 1 |
| TPH (GC/FID) Low Fraction | 0.64 | 0.50 | mg/kg | 8015D/GRO | 04/15/11 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 96.3 | | % Rec. | 602/8015 | 04/15/11 | 5 |
| TPH (GC/FID) High Fraction | 1100 | 80. | mg/kg | 3546/DRO | 04/18/11 | 20 |
| Surrogate recovery(%) o-Terphenyl | 0.00 | | % Rec. | 3546/DRO | 04/18/11 | 20 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 04/19/11 12:59 Printed: 04/19/11 13:00

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|------------------|---------------|----------------|-------------|-----------|-----------|
| L511470-01 | WG531290 | SAMP | o-Terphenyl | R1653449 | 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
04/19/11 at 13:00:06

TSR Signing Reports: 358
R3 - Rush: Two Day

Log all samples beginning with different sample numbers to separate reports. Ex.- M34 N PIT and M34 S PIT go on one L#, but M34 S PIT and E34 S PIT go on separate L #s. TPH=GRO and DRO ALWAYS

Sample: L511470-01 Account: ENCANACO Received: 04/15/11 09:00 Due Date: 04/19/11 00:00 RPT Date: 04/19/11 12:59



YOUR LAB OF CHOICE

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

L511470

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Est. 1970

April 19, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG531233 | 04/15/11 14:44 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 98.07 | 59-128 | WG531233 | 04/15/11 14:44 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG531290 | 04/17/11 08:53 |
| o-Terphenyl | | % Rec. | 65.70 | 50-150 | WG531290 | 04/17/11 08:53 |
| Total Solids | < .1 | % | | | WG531494 | 04/19/11 12:03 |

| Analyte | Units | Duplicate | | RPD | Limit | Ref Samp | Batch |
|--------------|-------|-----------|-----------|-------|-------|------------|----------|
| | | Result | Duplicate | | | | |
| Total Solids | % | 83.0 | 82.3 | 0.919 | 5 | L511564-03 | WG531494 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.38 | 97.9 | 67-135 | WG531233 |
| a,a,a-Trifluorotoluene(FID) | | | | 104.3 | 59-128 | WG531233 |
| TPH (GC/FID) High Fraction | ppm | 60 | 34.5 | 57.5 | 50-150 | WG531290 |
| o-Terphenyl | | | | 58.98 | 50-150 | WG531290 |
| Total Solids | % | 50 | 50.0 | 100. | 85-155 | WG531494 |

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|------|-------|--------|-------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.40 | 5.38 | 98.0 | 67-135 | 0.220 | 20 | WG531233 |
| a,a,a-Trifluorotoluene(FID) | | | | 104.0 | 59-128 | | | WG531233 |
| TPH (GC/FID) High Fraction | ppm | 36.5 | 34.5 | 61.0 | 50-150 | 5.62 | 25 | WG531290 |
| o-Terphenyl | | | | 59.95 | 50-150 | | | WG531290 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|-----|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 22.1 | 0 | 5.5 | 80.5 | 55-109 | L511353-01 | WG531233 |
| a,a,a-Trifluorotoluene(FID) | | | | | 102.7 | 59-128 | | WG531233 |
| TPH (GC/FID) High Fraction | ppm | 35.7 | 0 | 60 | 59.4 | 50-150 | L511547-14 | WG531290 |
| o-Terphenyl | | | | | 59.12 | 50-150 | | WG531290 |

| Analyte | Units | Matrix Spike Duplicate | | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|------------------------|------|-------|--------|-------|-------|------------|----------|
| | | MSD | Ref | %Rec | | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 17.9 | 22.1 | 65.2 | 55-109 | 20.9* | 20 | L511353-01 | WG531233 |
| a,a,a-Trifluorotoluene(FID) | | | | 99.35 | 59-128 | | | | WG531233 |
| TPH (GC/FID) High Fraction | ppm | 43.1 | 35.7 | 71.9 | 50-150 | 19.0 | 25 | L511547-14 | WG531290 |
| o-Terphenyl | | | | 57.96 | 50-150 | | | | WG531290 |

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



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

Quality Assurance Report
Level II

L511470

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

April 19, 2011

Batch number /Run number / Sample number cross reference

WG531233: R1652389: L511470-01
WG531290: R1653449: L511470-01
WG531494: R1655833: L511470-01

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

* Performance of this Analyte is outside of established criteria.

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April 19, 2011

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Est. 1970

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

Report Summary

Wednesday July 06, 2011

Report Number: L523959

Samples Received: 07/01/11

Client Project:

Description: P160U-Cuttings

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:

Jayred 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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NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

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REPORT OF ANALYSIS

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

July 06, 2011

Date Received : July 01, 2011
Description : P16OU-Cuttings
Sample ID : P16OU-CUT-062811 4-16IN
Collected By : Brennen Graff
Collection Date : 06/28/11 15:10

ESC Sample # : L523959-01

Site ID : P16OU

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|--------|-----------|----------|------|
| TPH (GC/FID) Low Fraction | 12. | 5.0 | mg/kg | 8015D/GRO | 07/01/11 | 50 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 102. | | % Rec. | 602/8015 | 07/01/11 | 50 |
| TPH (GC/FID) High Fraction | 1000 | 80. | mg/kg | 3546/DRO | 07/05/11 | 20 |
| Surrogate recovery(%) o-Terphenyl | 0.00 | | % Rec. | 3546/DRO | 07/05/11 | 20 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 07/06/11 10:08 Printed: 07/06/11 10:53

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|------------------|---------------|----------------|-------------|-----------|-----------|
| L523959-01 | WG543793 | SAMP | o-Terphenyl | R1750069 | J7 |

Attachment B
Explanation of QC Qualifier Codes

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

Qualifier Report Information

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- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.



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Chris Hines
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Level II

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Est. 1970

July 06, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG543739 | 07/01/11 17:17 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 104.4 | 59-128 | WG543739 | 07/01/11 17:17 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG543793 | 07/05/11 10:34 |
| o-Terphenyl | | % Rec. | 72.82 | 50-150 | WG543793 | 07/05/11 10:34 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 6.01 | 109. | 67-135 | WG543739 |
| a,a,a-Trifluorotoluene(FID) | | | | 110.4 | 59-128 | WG543739 |
| TPH (GC/FID) High Fraction | ppm | 60 | 47.0 | 78.3 | 50-150 | WG543793 |
| o-Terphenyl | | | | 69.02 | 50-150 | WG543793 |

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|------|-------|--------|------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 6.11 | 6.01 | 111. | 67-135 | 1.63 | 20 | WG543739 |
| a,a,a-Trifluorotoluene(FID) | | | | 111.2 | 59-128 | | | WG543739 |
| TPH (GC/FID) High Fraction | ppm | 47.8 | 47.0 | 80.0 | 50-150 | 1.79 | 25 | WG543793 |
| o-Terphenyl | | | | 71.59 | 50-150 | | | WG543793 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|-----|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 14.7 | 1.50 | 5.5 | 47.9* | 55-109 | L523945-01 | WG543739 |
| a,a,a-Trifluorotoluene(FID) | | | | | 101.0 | 59-128 | | WG543739 |
| TPH (GC/FID) High Fraction | ppm | 42.4 | 7.90 | 60 | 57.4 | 50-150 | L523369-01 | WG543793 |
| o-Terphenyl | | | | | 67.30 | 50-150 | | WG543793 |

| Analyte | Units | Matrix Spike Duplicate | | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|------------------------|------|-------|--------|-------|-------|------------|----------|
| | | MSD | Ref | %Rec | | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 15.1 | 14.7 | 49.4* | 55-109 | 2.84 | 20 | L523945-01 | WG543739 |
| a,a,a-Trifluorotoluene(FID) | | | | 101.6 | 59-128 | | | | WG543739 |
| TPH (GC/FID) High Fraction | ppm | 42.7 | 42.4 | 58.1 | 50-150 | 0.882 | 25 | L523369-01 | WG543793 |
| o-Terphenyl | | | | 69.00 | 50-150 | | | | WG543793 |

Batch number /Run number / Sample number cross reference

WG543739: R1748929: L523959-01
WG543793: R1750069: L523959-01

* * 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.'



YOUR LAB OF CHOICE

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July 06, 2011

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Est. 1970

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

Report Summary

Wednesday August 03, 2011

Report Number: L528003

Samples Received: 07/27/11

Client Project:

Description: P160U-Cuttings

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:

Jayred 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,
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Est. 1970

REPORT OF ANALYSIS

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

August 03, 2011

Date Received : July 27, 2011
Description : P16OU-Cuttings
Sample ID : P16OU-CUT-072511
Collected By : Brennan Graff
Collection Date : 07/25/11 10:28

ESC Sample # : L528003-01

Site ID : P16OU

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|--------|-----------|----------|------|
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | 8015D/GRO | 07/28/11 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 103. | | % Rec. | 602/8015 | 07/28/11 | 5 |
| TPH (GC/FID) High Fraction | 820 | 80. | mg/kg | 3546/DRO | 08/03/11 | 20 |
| Surrogate recovery(%) o-Terphenyl | 0.00 | | % Rec. | 3546/DRO | 08/03/11 | 20 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 08/03/11 17:29 Printed: 08/03/11 18:23

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|------------------|---------------|----------------|-------------|-----------|-----------|
| L528003-01 | WG548011 | SAMP | o-Terphenyl | R1801733 | 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.



YOUR LAB OF CHOICE

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Quality Assurance Report
Level II

L528003

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(615) 758-5858
1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

August 03, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG547722 | 07/28/11 03:03 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 102.1 | 59-128 | WG547722 | 07/28/11 03:03 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG548011 | 08/03/11 09:34 |
| o-Terphenyl | | % Rec. | 73.03 | 50-150 | WG548011 | 08/03/11 09:34 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.40 | 98.2 | 67-135 | WG547722 |
| a,a,a-Trifluorotoluene(FID) | | | | 98.91 | 59-128 | WG547722 |
| TPH (GC/FID) High Fraction | ppm | 60 | 50.7 | 84.6 | 50-150 | WG548011 |
| o-Terphenyl | | | | 62.52 | 50-150 | WG548011 |

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|------|-------|--------|------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 5.95 | 5.40 | 108. | 67-135 | 9.73 | 20 | WG547722 |
| a,a,a-Trifluorotoluene(FID) | | | | 98.82 | 59-128 | | | WG547722 |
| TPH (GC/FID) High Fraction | ppm | 47.5 | 50.7 | 79.0 | 50-150 | 6.53 | 25 | WG548011 |
| o-Terphenyl | | | | 60.93 | 50-150 | | | WG548011 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|-----|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 3.83 | 0.0781 | 5.5 | 68.2 | 55-109 | L527883-02 | WG547722 |
| a,a,a-Trifluorotoluene(FID) | | | | | 98.67 | 59-128 | | WG547722 |
| TPH (GC/FID) High Fraction | ppm | 140. | 100. | 60 | 66.8 | 50-150 | L528053-10 | WG548011 |
| o-Terphenyl | | | | | 73.07 | 50-150 | | WG548011 |

| Analyte | Units | Matrix Spike Duplicate | | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|------------------------|------|-------|--------|-------|-------|------------|----------|
| | | MSD | Ref | %Rec | | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 4.29 | 3.83 | 76.6 | 55-109 | 11.3 | 20 | L527883-02 | WG547722 |
| a,a,a-Trifluorotoluene(FID) | | | | 99.74 | 59-128 | | | | WG547722 |
| TPH (GC/FID) High Fraction | ppm | 185. | 140. | 141. | 50-150 | 27.5* | 25 | L528053-10 | WG548011 |
| o-Terphenyl | | | | 83.21 | 50-150 | | | | WG548011 |

Batch number /Run number / Sample number cross reference

WG547722: R1789650: L528003-01
WG548011: R1801733: L528003-01

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



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Quality Assurance Report
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August 03, 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 / Matt Kasten
EnCana Oil & Gas Inc. - CO
2717 County Road 215, Suite 100
Parachute, CO 81635

Report Summary

Thursday December 15, 2011

Report Number: L551240

Samples Received: 12/13/11

Client Project:

Description: P160U-Cuttings

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:

Jayred 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, PA - 68-02979

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

December 15, 2011

Date Received : December 13, 2011
Description : P160U-Cuttings
Sample ID : P160U-CUT-121211
Collected By : Brennen G.
Collection Date : 12/12/11 10:37

ESC Sample # : L551240-01

Site ID : P160U

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|--------|-----------|----------|------|
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | 8015D/GRO | 12/14/11 | 5 |
| Surrogate Recovery (70-130) a,a,a-Trifluorotoluene(FID) | 102. | | % Rec. | 602/8015 | 12/14/11 | 5 |
| TPH (GC/FID) High Fraction | 390 | 4.0 | mg/kg | 3546/DRO | 12/13/11 | 1 |
| Surrogate recovery(%) o-Terphenyl | 111. | | % Rec. | 3546/DRO | 12/13/11 | 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: 12/15/11 13:38 Printed: 12/15/11 13:38

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|------------------|---------------|----------------|----------------------------|-----------|-----------|
| L551240-01 | WG569759 | SAMP | TPH (GC/FID) High Fraction | R1965575 | J3V |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|-----------|---|
| J3 | The associated batch QC was outside the established quality control range for precision. |
| V | (ESC) - Additional QC Info: The sample concentration is too high to evaluate accurate spike recoveries. |

Qualifier Report Information

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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
12/15/11 at 13:38:49

TSR Signing Reports: 358
R5 - Desired TAT

Try not to report benzene as BDL above a 250x dilution.

Sample: L551240-01 Account: ENCANACO Received: 12/13/11 09:00 Due Date: 12/20/11 00:00 RPT Date: 12/15/11 13:38



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EnCana Oil & Gas Inc. - CO
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Tax I.D. 62-0814289

Est. 1970

December 15, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|--------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG569759 | 12/13/11 16:13 |
| o-Terphenyl | | % Rec. | 75.71 | 50-150 | WG569759 | 12/13/11 16:13 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG569869 | 12/14/11 02:05 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 104.3 | 59-128 | WG569869 | 12/14/11 02:05 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| TPH (GC/FID) High Fraction | ppm | 60 | 44.3 | 73.8 | 50-150 | WG569759 |
| o-Terphenyl | | | | 91.53 | 50-150 | WG569759 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.64 | 102. | 67-135 | WG569869 |
| a,a,a-Trifluorotoluene(FID) | | | | 109.4 | 59-128 | WG569869 |

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|------|-------|--------|------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| TPH (GC/FID) High Fraction | ppm | 45.8 | 44.3 | 76.0 | 50-150 | 3.44 | 25 | WG569759 |
| o-Terphenyl | | | | 91.21 | 50-150 | | | WG569759 |
| TPH (GC/FID) Low Fraction | mg/kg | 6.08 | 5.64 | 110. | 67-135 | 7.53 | 20 | WG569869 |
| a,a,a-Trifluorotoluene(FID) | | | | 109.1 | 59-128 | | | WG569869 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|-----|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| TPH (GC/FID) High Fraction | ppm | 355. | 390. | 60 | 0* | 50-150 | L551240-01 | WG569759 |
| o-Terphenyl | | | | | 91.30 | 50-150 | | WG569759 |
| TPH (GC/FID) Low Fraction | mg/kg | 25.3 | 0 | 5.5 | 92.1 | 55-109 | L551216-12 | WG569869 |
| a,a,a-Trifluorotoluene(FID) | | | | | 107.6 | 59-128 | | WG569869 |

| Analyte | Units | Matrix Spike Duplicate | | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|------------------------|------|-------|--------|-------|-------|------------|----------|
| | | MSD | Ref | %Rec | | | | | |
| TPH (GC/FID) High Fraction | ppm | 454. | 355. | 106. | 50-150 | 24.4 | 25 | L551240-01 | WG569759 |
| o-Terphenyl | | | | 126.6 | 50-150 | | | | WG569759 |
| TPH (GC/FID) Low Fraction | mg/kg | 25.2 | 25.3 | 91.5 | 55-109 | 0.630 | 20 | L551216-12 | WG569869 |
| a,a,a-Trifluorotoluene(FID) | | | | 106.9 | 59-128 | | | | WG569869 |

Batch number /Run number / Sample number cross reference

WG569759: R1965575: L551240-01
WG569869: R1967413: L551240-01

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