

SITE ASSESSMENT SUMMARY REPORT

**ENCANA PRODUCTION PAD #1305
REMEDATION PROJECT #6660
RIO BLANCO COUNTY, COLORADO**

OCTOBER 2013

Prepared for:

**ENCANA OIL & GAS USA INC.
Rangely, Colorado**



SITE ASSESSMENT SUMMARY REPORT

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REMEDATION PROJECT #6660
RIO BLANCO COUNTY, COLORADO**

OCTOBER 2013

Prepared for:

**ENCANA OIL & GAS USA INC.
1125 Escalante Drive
Rangely, Colorado**

Prepared by:

**LT ENVIRONMENTAL, INC.
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EXECUTIVE SUMMARY

This report was prepared by LT Environmental, Inc. (LTE), under the direction of Encana Oil & Gas (USA), Inc., to document soil assessment activities at the Encana Production Pad #1305 (Site). The Site is located approximately 20 miles south-west of Rangely, Colorado.

The scope of work for this project included assessing residual petroleum hydrocarbon impacts following the identification of a release associated with a partially buried produced water corrugated steel holding tank. The source of the release was identified when the buried holding tank was removed. Additionally, the soil immediately surrounding the tank was excavated and removed on November 9, 2011. Activities included advancing soil borings on site and collecting soil samples to submit for laboratory analysis, health and safety monitoring, drilling contractor oversight, and preparation of this summary report.

On August 28, 2012, Site Services Drilling Company of Golden, Colorado, was contracted to advance four soil borings on site to depths ranging from 34.5 to 36 feet below ground surface. LTE returned to the site on August 23, 2013, to collect an additional soil confirmation sample from soil boring location 1305-CB02-082812. On both occasions, soil borings were advanced with hollow-stem augers. All soil borings were conducted within the production pad disturbance; therefore no borings were outside the pad disturbance on Bureau of Land Management land.

Based on analytical results from the confirmation soil boring sample collected on August 23, 2013, residual concentrations of benzene exceeding the compliance standards of the Colorado Oil and Gas Conservation Commission Table 910-1 Concentration Levels were found to be compliant. Therefore, all hydrocarbon-impacted soil has been removed from the site or has naturally attenuated to within compliance standards of the Colorado Oil and Gas Conservation Commission Table 910-1 Concentration Levels.

No groundwater was encountered during the assessment activities. All soil borings were backfilled with soil generated from the borings during assessment drilling activities.

1.0 INTRODUCTION

LT Environmental, Inc. (LTE), under the direction of Encana Oil & Gas (USA), Inc. (Encana), was contracted to document soil assessment activities at the Encana Production Pad #1305 (Site) as depicted on Figure 1. The purpose of this project was to assess any residual hydrocarbon impacted soil remaining at the Site. A release of petroleum hydrocarbons was identified when a partially buried produced water corrugated steel holding tank was excavated and removed from the Site.

On November 9, 2011, Encana removed the buried production tank along with any observed hydrocarbon impacted soil associated with the Site as depicted on Figure 2. The buried production tank was installed prior to the development of the current liquid containment systems. At the time of excavation activities, Encana attempted to remove all associated hydrocarbon impacted soil, however the excavation extents were limited due to technical considerations, health and safety concerns, and property boundaries. Residual total petroleum hydrocarbon (TPH) and benzene concentrations of 4,300 milligrams per kilogram (mg/kg) and 2.6 mg/kg, respectively remained in soil at the base of the excavation as indicated in Table 1. The concentrations exceeded the Colorado Oil and Gas Conservation Commission (COGCC) standard of 500 mg/kg, and 0.17 mg/kg respectively, thus determining the need to assess the remaining soil conditions at the Site. Encana also collected background soil samples at the time of excavation activities, which are listed in Table 2.

On August 28, 2012, LTE advanced four soil borings at the Site to assess residual hydrocarbon impacted soil identified during production tank removal activities. Laboratory analytical data for soil sample 1305-CB02-082912 indicated a benzene concentration of 0.29 mg/kg, exceeding the COGCC standard. All other analytes in collected samples were either below detection limits, or within compliance for COGCC standards.

On August 23, 2013, LTE returned to the site to reassess residual benzene concentrations from confirmation boring location 1305-CB02-082812. A soil sample was collected from confirmation boring 1305-CB02-082313 and submitted for laboratory analysis. All soil samples results were within the compliance standards of the COGCC, thus indicating that the residual hydrocarbon impacted soil has naturally attenuated to acceptable levels.

1.1 SITE DESCRIPTION

The Site is located approximately 20 miles south-west of Rangely, Colorado. The legal description of the Site is the southeast quarter of the southeast quarter of Section 25, Township 2 South, Range 103 West of the Sixth Principal Meridian in Rio Blanco County, Colorado (Figure 1). The Site is surrounded by Bureau of Land Management (BLM) property.

The general site geology was observed as gravel underlain by sand to clay rich shales and claystones with refusal on bedrock of sandstone.

The Site is located at an elevation of 6,486 feet above mean sea level in an area with localized high plateau topography associated with the western edge of the Rocky Mountains near the Colorado Plateau.

1.2 SCOPE OF WORK

The scope of work for this assessment project included advancing soil borings at the Site and collecting soil samples below the previous excavation and in all lateral directions outward from the initial source area.

During on-site assessment activities, LTE personnel conducted field screening of soil samples, soil sampling, borehole logging, health and safety monitoring, and documentation of field activities.

A summary of field activities, analytical results from soil sampling, and conclusions are presented in the subsequent sections.

2.0 SUMMARY OF FIELD ACTIVITIES

2.1 ASSESSMENT ACTIVITIES

On August 28, 2012, LTE advanced four soil borings (1305-CB01-082812 through 1305-CB04-082812) to depths ranging from 34.5 to 36 feet bgs. LTE contracted Site Services Drilling Company of Golden, Colorado, to install the soil borings using a CME-75 drill rig equipped with hollow-stem augers.

On August 23, 2013, LTE returned to the site to reassess residual benzene concentrations from confirmation boring location 1305-CB02-082812. A soil sample was collected from confirmation boring 1305-CB02-082313 and submitted for laboratory analysis.

The soil borings were logged by an LTE geologist who inspected the soil for the presence or absence of petroleum hydrocarbon odor and/or staining. The soil was characterized by visually inspecting the soil samples collected in 2-foot long split-spoon samplers and field screening the soil headspace using a photo-ionization detector (PID) to monitor for the presence of volatile organic vapors. The soil boring logs are included in Appendix A.

Soil samples were collected from each soil boring and submitted with a completed chain-of-custody form to ESC Lab Sciences of Mt. Juliet, Tennessee (ESC), for analysis of TPH-diesel range organics (DRO) and TPH-gas range organics (GRO), benzene, toluene, ethylbenzene and total xylene (BTEX). Samples collected and submitted for laboratory analysis were only analyzed for TPH-DRO and BTEX due to these previously exceeding the COGCC Concentration Levels at the time the culvert pit was removed. All other constituents were below COGCC Concentration Levels or were within background concentration allowances.

2.2 ASSESSMENT FINDINGS

Soil conditions at the Site were identified as a brown silty-sand-clay and gravel with extending from the surface to approximately 34 feet bgs at which point a dense greyish sandstone was encountered. Auger refusal at the sandstone layer determined the vertical depth of each soil boring. Groundwater was not encountered in any of the soil borings during drilling activities.

All soil samples were screened using a PID and placed in laboratory-prepared, wide-mouth glass sample jars for laboratory submittal. All soil samples that were field screened registered PID readings. Samples field screened with the PID ranged from 0 to 4,951 parts per million. Soil samples were observed to have PID readings, hydrocarbon odors, and minor staining.

3.0 ANALYTICAL RESULTS

Laboratory analytical results from soil sample 1305-CB02-082812 indicated a benzene concentration of 0.29 mg/kg, which exceeded COGCC standard concentration of 0.17 mg/kg. However, when reassessed on August 23, 2013, benzene concentrations were below the detection limits. TPH concentrations in 1305-CB01-082812 through 1305-CB04-082812 ranged from below detection limit of <4.5 mg/kg to 280 mg/kg, demonstrating compliance with COGCC Table 910-1 standards.

Soil sample laboratory analytical results are illustrated on Figure 3 and summarized in Table 3. Copies of the laboratory analytical reports are included in Appendix B.

4.0 SUMMARY AND CONCLUSIONS

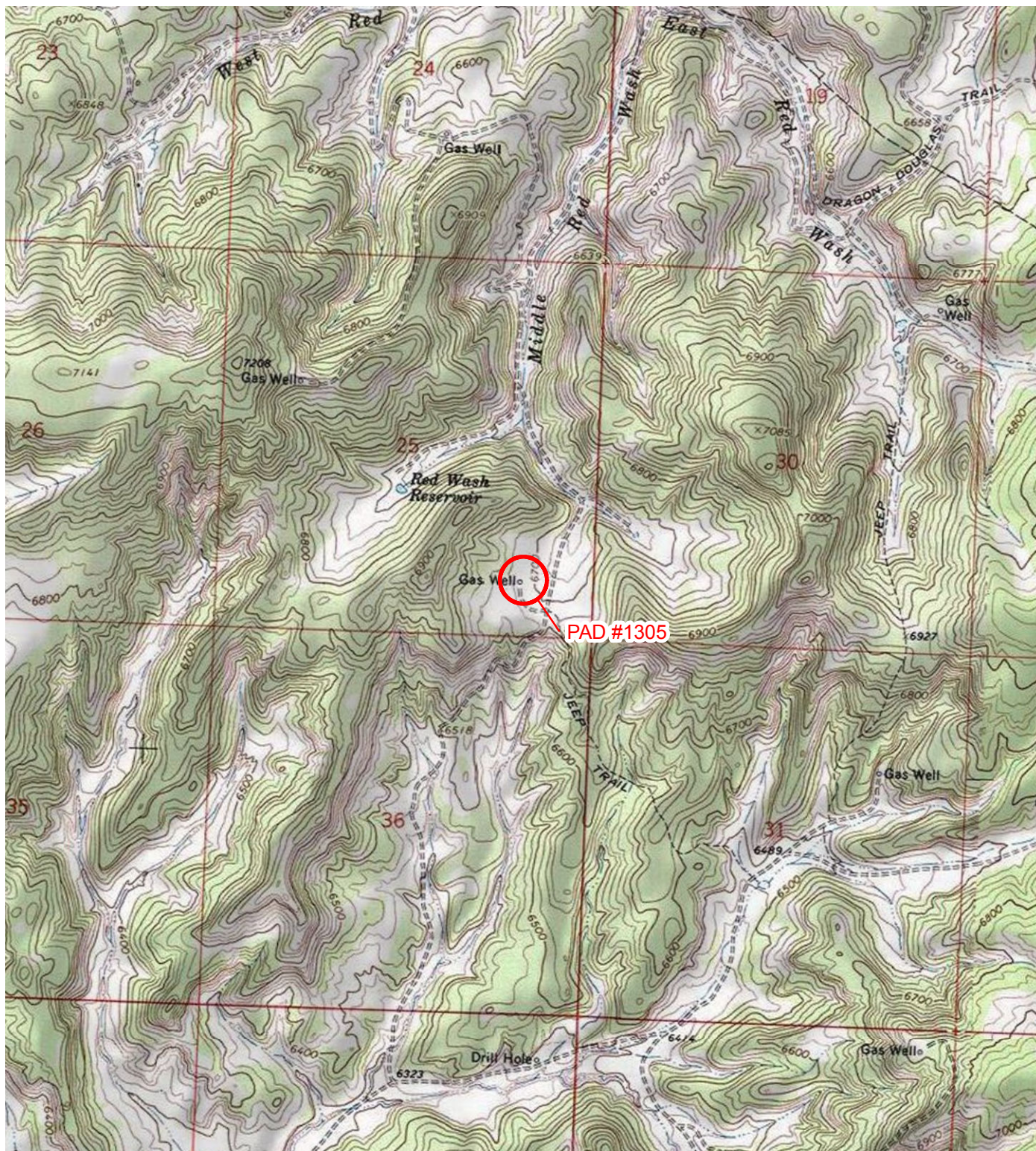
LTE was contracted by Encana to conduct soil assessment activities at the Encana Production Pad #1305 to assess any residual hydrocarbon impacted soil and/or groundwater following the identification of a release associated with a partially buried produced water corrugated steel holding tank. The tank was removed and associated hydrocarbon-impacted soil excavated in November of 2011.

On August 28, 2012, LTE field personnel observed the installation of four soil borings on site and collected soil samples 1305-CB01-082812 through 1305-CB04-082812. The four soil borings were advanced on site to depths ranging from 34.5 to 36 bgs. No groundwater was encountered during the assessment activities. LTE again returned on August 23, 2013 to reassess residual benzene concentrations from confirmation boring location 1305-CB02-082812.

Five soil samples were submitted to ESC for laboratory analysis of TPH-GRO-DRO and BTEX from the August 28, 2012 assessment activities. Laboratory analytical results indicated that benzene concentrations in one sample (1305-CB02-082812) exceeded the COGCC standard. Therefore, another soil sample collected from confirmation boring location 1305-CB02-082313 was submitted for benzene analysis from the August 23, 2013, assessment activities. All other soil boring sample results indicated hydrocarbon impacted soil has been removed from the Site, or has naturally attenuated within compliance standards of the COGCC. All soil borings were backfilled with soil removed from the borings generated during assessment activities. Additional activities included on-site health and safety monitoring and preparation of this summary report.

Therefore, LTE recommends that, Encana Site #1305 be granted closure regarding Remediation Number 6660 and that the COGCC provide closure documentation to Encana with regard to this recommendation.

FIGURES



LEGEND

○ SITE LOCATION

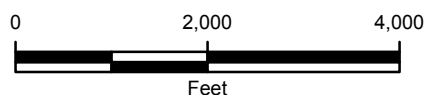


IMAGE COURTESY OF USGS/ESRI

FIGURE 1
SITE LOCATION MAP
PAD #1305
SESE SEC 25 T2S R103W
RIO BLANCO COUNTY, COLORADO
ENCANA OIL & GAS (USA) INC.



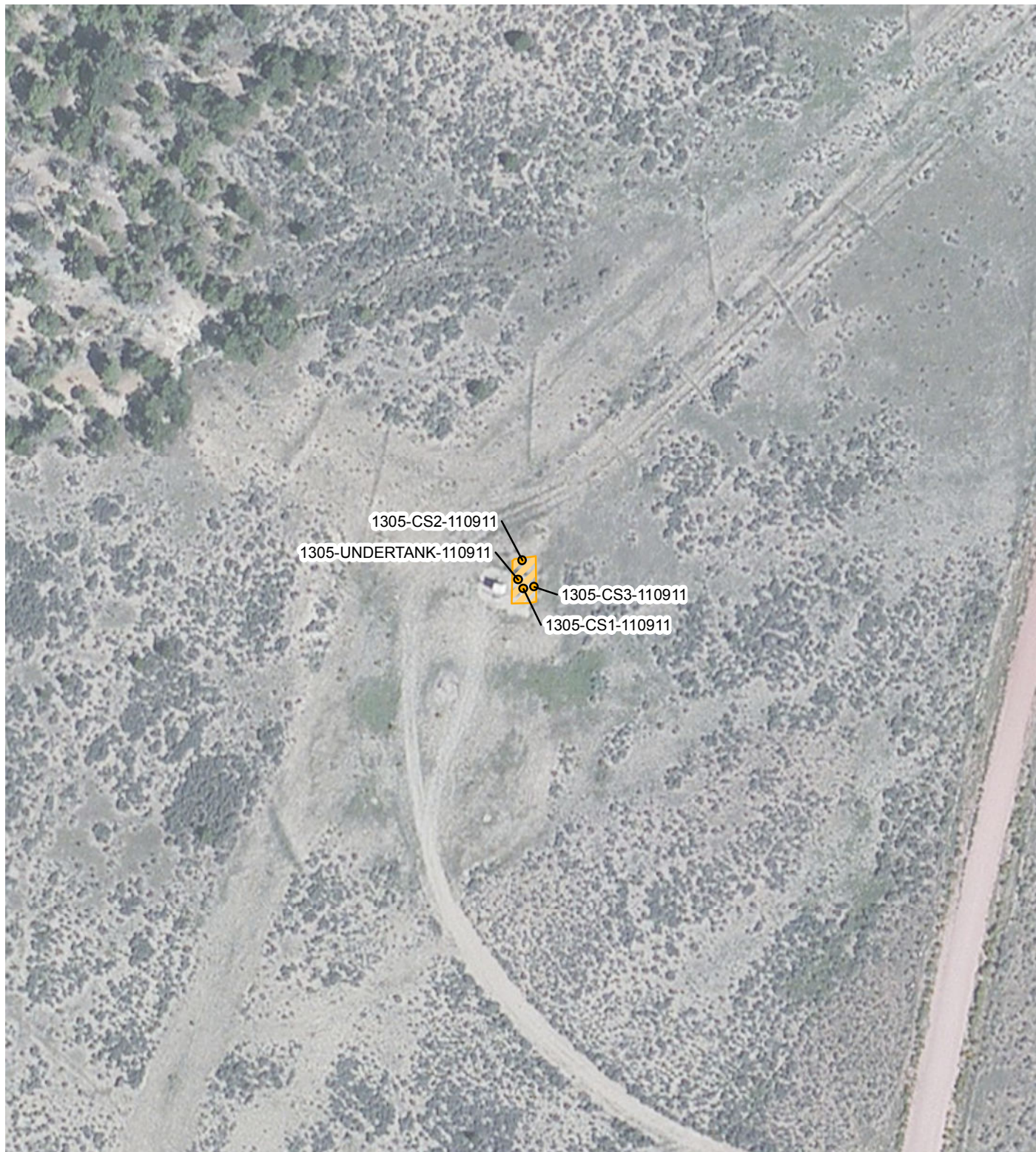


IMAGE COURTESY OF BING MAPS/ESRI

LEGEND

- SOIL SAMPLE
- EXCAVATION EXTENT (NOVEMBER 2011)

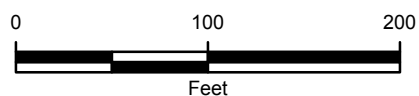
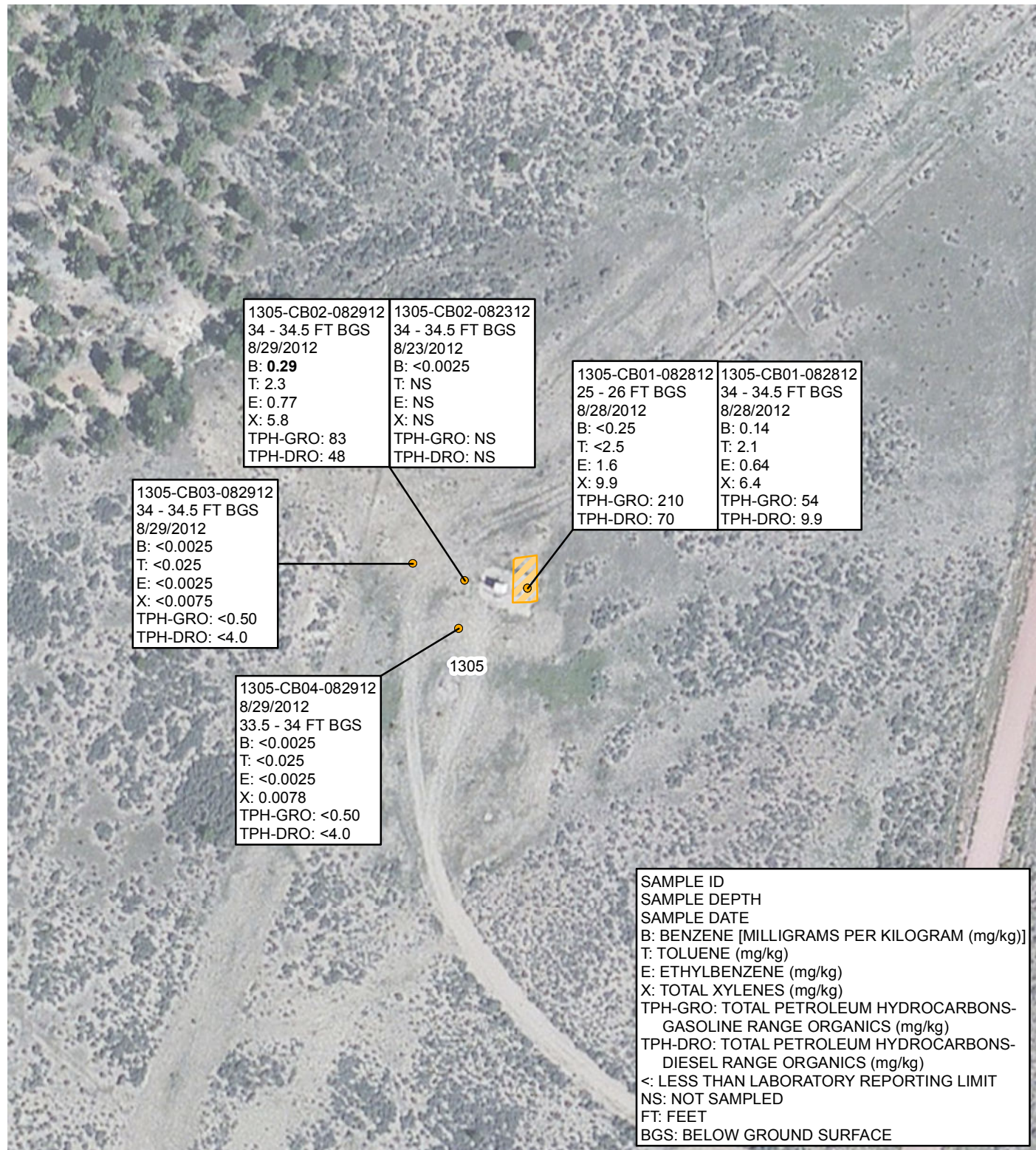


FIGURE 2
PAD #1305
SESE SEC 25 T2S R103W
RIO BLANCO COUNTY, COLORADO

ENCANA OIL & GAS (USA) INC.





LEGEND

- SOIL BORING LOCATIONS
- ▨ EXCAVATION EXTENT (NOVEMBER 2011)

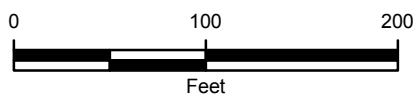


FIGURE 2
SOIL ANALYTICAL RESULTS
PAD #1305
SESE SEC 25 T2S R103W
RIO BLANCO COUNTY, COLORADO
ENCANA OIL & GAS (USA) INC.



TABLES

TABLE 1
PIT REMOVAL AND EXCAVATION
ENCANA PRODUCTION PAD 1305
RANGELY, COLORADO
ENCANA OIL GAS (USA) INC.

| PARAMETER | COGCC CONCENTRATION LEVELS | UNITS | 1305-UNDERTANK- 110911 (spoils) | 1305-SPOILS-120512 (spoils) | 1305-CS1-110911 | 1305-CS2-110911 | 1305-CS3-110911 |
|-------------------------|----------------------------------|----------|------------------------------------|--------------------------------|-----------------|-----------------|-----------------|
| Sample Date | | | 11/9/2012 | 11/8/2012 | 11/9/2012 | 11/9/2012 | 11/9/2012 |
| Sample Type | | | Spoils | Spoils | Excavation | Excavation | Excavation |
| Arsenic | 0.39 | mg/kg | 1.3 | NA | NA | NA | NA |
| Barium | 15,000 | mg/kg | 150 | NA | NA | NA | NA |
| Cadmium | 70 | mg/kg | <0.25 | NA | NA | NA | NA |
| Chromium (III) | 120,000 | mg/kg | 7.8 | NA | NA | NA | NA |
| Chromium (VI) | 23 | mg/kg | <2.0 | NA | NA | NA | NA |
| Copper | 3,100 | mg/kg | 14.0 | NA | NA | NA | NA |
| Lead | 400 | mg/kg | 9.5 | NA | NA | NA | NA |
| Mercury | 23 | mg/kg | <0.020 | NA | NA | NA | 0.041 |
| Nickel | 1,600 | mg/kg | 9.1 | NA | NA | 14 | 10.4 |
| Selenium | 390 | mg/kg | <1.0 | NA | NA | 4.3 | NA |
| Silver | 390 | mg/kg | <0.50 | NA | NA | 2 | NA |
| Zinc | 23,000 | mg/kg | 54.0 | NA | NA | 66 | 45.4 |
| EC | 4.0 | mmhos/cm | 1 | NA | NA | NA | NA |
| pH | 6 - 9 | SU | 8.7 | NA | NA | NA | NA |
| SAR | 12 | unitless | 56 | NA | NA | NA | NA |
| TPH-GRO | | mg/kg | 3100 | <0.50 | <0.50 | <0.50 | <0.50 |
| TPH-DRO | | mg/kg | 1200 | 7.8 | 27 | 4.1 | <4.50 |
| TPH | 500 | mg/kg | 4300 | 7.8 | 27 | 4.1 | <4.50 |
| Benzene | 0.17 | mg/kg | 2.6 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| Toluene | 85 | mg/kg | 27.0 | <0.025 | <0.025 | <0.025 | <0.025 |
| Ethylbenzene | 100 | mg/kg | 16.0 | <0.0025 | <0.0025 | <0.0025 | <0.0025 |
| Total Xylenes | 175 | mg/kg | 95.0 | <0.0075 | <0.0075 | <0.0075 | <0.0075 |
| Acenaphthene | 1000 | mg/kg | 0.080 | NA | NA | NA | NA |
| Anthracene | 1000 | mg/kg | 0.0063 | NA | NA | NA | NA |
| Benzo(A)anthracene | 0.22 | mg/kg | 0.0060 | NA | NA | NA | NA |
| Benzo(B)fluoranthene | 0.22 | mg/kg | 0.0060 | NA | NA | NA | NA |
| Benzo(K)fluoranthene | 2.2 | mg/kg | 0.0060 | NA | NA | NA | NA |
| Benzo(A)pyrene | 0.022 | mg/kg | 0.0060 | NA | NA | NA | NA |
| Chrysene | 22 | mg/kg | 0.0060 | NA | NA | NA | NA |
| Dibenzo(A,H)anthracene | 0.022 | mg/kg | 0.0060 | NA | NA | NA | NA |
| Fluoranthene | 1000 | mg/kg | 0.0060 | NA | NA | NA | NA |
| Fluorene | 1000 | mg/kg | 0.14 | NA | NA | NA | NA |
| Indeno(1,2,3,C,D)pyrene | 0.22 | mg/kg | 0.0060 | NA | NA | NA | NA |
| Naphthalene | 23 | mg/kg | 4.3 | NA | NA | NA | NA |
| Pyrene | 1000 | mg/kg | 0.0060 | NA | NA | NA | NA |

NOTES:

< - less than the stated reporting limit

BOLD - indicates result exceeds the COGCC concentration level

COGCC - Colorado Oil and Gas Conservation Commission

EC- electrical conductivity

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

NA - not analyzed

SU - standard unit

TPH-GRO - total petroleum hydrocarbons-gasoline range organics

TPH-DRO - total petroleum hydrocarbons-diesel range organics

TPH - combination of TPH-GRO and TPH-DRO



TABLE 2
BACKGROUND SAMPLES
ENCANA PRODUCTION PAD 1305
RANGELY, COLORADO
ENCANA OIL GAS (USA) INC.

| PARAMETER | COGCC CONCENTRATION LEVELS | UNITS | 1305-BKG1-110911 | 1305-BKG2-110911 | 1305-BKG3-110911 | 1305-BKG4-110911 | 1305-BKG5-110911 |
|-------------------------|----------------------------------|----------|------------------|------------------|------------------|------------------|------------------|
| Sample Date | | | 11/9/2011 | 11/9/2011 | 11/9/2011 | 11/9/2011 | 11/9/2011 |
| Sample Type | | | Background | Background | Background | Background | Background |
| Arsenic | 0.39 | mg/kg | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Barium | 15,000 | mg/kg | NA | NA | NA | NA | NA |
| Cadmium | 70 | mg/kg | NA | NA | NA | NA | NA |
| Chromium (III) | 120,000 | mg/kg | NA | NA | NA | NA | NA |
| Chromium (VI) | 23 | mg/kg | NA | NA | NA | NA | NA |
| Copper | 3,100 | mg/kg | NA | NA | NA | NA | NA |
| Lead | 400 | mg/kg | NA | NA | NA | NA | NA |
| Mercury | 23 | mg/kg | NA | NA | NA | NA | NA |
| Nickel | 1,600 | mg/kg | NA | NA | NA | NA | NA |
| Selenium | 390 | mg/kg | NA | NA | NA | NA | NA |
| Silver | 390 | mg/kg | NA | NA | NA | NA | NA |
| Zinc | 23,000 | mg/kg | NA | NA | NA | NA | NA |
| EC | 4.0 | mmhos/cm | NA | NA | NA | NA | NA |
| pH | 6 - 9 | SU | NA | NA | NA | NA | NA |
| SAR | 12 | unitless | NA | NA | NA | NA | NA |
| TPH-GRO | | mg/kg | NA | NA | NA | NA | NA |
| TPH-DRO | | mg/kg | NA | NA | NA | NA | NA |
| TPH | 500 | mg/kg | NA | NA | NA | NA | NA |
| Benzene | 0.17 | mg/kg | NA | NA | NA | NA | NA |
| Toluene | 85 | mg/kg | NA | NA | NA | NA | NA |
| Ethylbenzene | 100 | mg/kg | NA | NA | NA | NA | NA |
| Total Xylenes | 175 | mg/kg | NA | NA | NA | NA | NA |
| Acenaphthene | 1000 | mg/kg | NA | NA | NA | NA | NA |
| Anthracene | 1000 | mg/kg | NA | NA | NA | NA | NA |
| Benzo(A)anthracene | 0.22 | mg/kg | NA | NA | NA | NA | NA |
| Benzo(B)fluoranthene | 0.22 | mg/kg | NA | NA | NA | NA | NA |
| Benzo(K)fluoranthene | 2.2 | mg/kg | NA | NA | NA | NA | NA |
| Benzo(A)pyrene | 0.022 | mg/kg | NA | NA | NA | NA | NA |
| Chrysene | 22 | mg/kg | NA | NA | NA | NA | NA |
| Dibenzo(A,H)anthracene | 0.022 | mg/kg | NA | NA | NA | NA | NA |
| Fluoranthene | 1000 | mg/kg | NA | NA | NA | NA | NA |
| Fluorene | 1000 | mg/kg | NA | NA | NA | NA | NA |
| Indeno(1,2,3,C,D)pyrene | 0.22 | mg/kg | NA | NA | NA | NA | NA |
| Naphthalene | 23 | mg/kg | NA | NA | NA | NA | NA |
| Pyrene | 1000 | mg/kg | NA | NA | NA | NA | NA |

NOTES:

< - less than the stated reporting limit

BOLD - indicates result exceeds the COGCC concentration level

COGCC - Colorado Oil and Gas Conservation Commission

EC- electrical conductivity

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

NA - not analyzed

SU - standard unit

TPH-GRO - total petroleum hydrocarbons-gasoline range organics

TPH-DRO - total petroleum hydrocarbons-diesel range organics

TPH - combination of TPH-GRO and TPH-DRO



TABLE 3
SOIL CONFIRMATION BORINGS
ENCANA PRODUCTION PAD 1305
RANGELY, COLORADO
ENCANA OIL GAS (USA) INC.

| PARAMETER | COGCC CONCENTRATION LEVELS | UNITS | 1305-CB01-082812 25-26FT BGS | 1305-CB01-082812 34-34.5FT BGS | 1305-CB02-082812 34-34.5FT BGS | 1305-CB02-082313 34-34.5FT BGS | 1305-CB03-082812 34-34.5FT BGS | 1305-CB04-082812 33.5-34FT BGS |
|-------------------------|----------------------------------|----------|---------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Sample Date | | | 8/28/2012 | 8/28/2012 | 8/28/2012 | 8/23/2013 | 8/28/2012 | 8/28/2012 |
| Sample Type | | | Confirmation | Confirmation | Confirmation | Confirmation | Confirmation | Confirmation |
| Arsenic | 0.39 | mg/kg | NA | NA | NA | NA | NA | NA |
| Barium | 15,000 | mg/kg | NA | NA | NA | NA | NA | NA |
| Cadmium | 70 | mg/kg | NA | NA | NA | NA | NA | NA |
| Chromium (III) | 120,000 | mg/kg | NA | NA | NA | NA | NA | NA |
| Chromium (VI) | 23 | mg/kg | NA | NA | NA | NA | NA | NA |
| Copper | 3,100 | mg/kg | NA | NA | NA | NA | NA | NA |
| Lead | 400 | mg/kg | NA | NA | NA | NA | NA | NA |
| Mercury | 23 | mg/kg | NA | NA | NA | NA | NA | NA |
| Nickel | 1,600 | mg/kg | NA | NA | NA | NA | NA | NA |
| Selenium | 390 | mg/kg | NA | NA | NA | NA | NA | NA |
| Silver | 390 | mg/kg | NA | NA | NA | NA | NA | NA |
| Zinc | 23,000 | mg/kg | NA | NA | NA | NA | NA | NA |
| EC | 4.0 | mmhos/cm | NA | NA | NA | NA | NA | NA |
| pH | 6 - 9 | SU | NA | NA | NA | NA | NA | NA |
| SAR | 12 | unitless | NA | NA | NA | NA | NA | NA |
| TPH-GRO | | mg/kg | 210 | 54 | 83 | NA | <0.50 | <0.50 |
| TPH-DRO | | mg/kg | 70 | 9.9 | 48 | NA | <4.00 | <4.00 |
| TPH | 500 | mg/kg | 280 | 63.9 | 131 | NA | <4.50 | <4.50 |
| Benzene | 0.17 | mg/kg | <0.25 | 0.14 | 0.29 | <0.0025 | <0.0025 | <0.0025 |
| Toluene | 85 | mg/kg | <2.5 | 2.1 | 2.3 | NA | <0.025 | <0.025 |
| Ethylbenzene | 100 | mg/kg | 1.6 | 0.64 | 0.77 | NA | <0.0025 | <0.0025 |
| Total Xylenes | 175 | mg/kg | 9.0 | 6.4 | 5.8 | NA | <0.50 | <0.50 |
| Acenaphthene | 1000 | mg/kg | NA | NA | NA | NA | NA | NA |
| Anthracene | 1000 | mg/kg | NA | NA | NA | NA | NA | NA |
| Benzo(A)anthracene | 0.22 | mg/kg | NA | NA | NA | NA | NA | NA |
| Benzo(B)fluoranthene | 0.22 | mg/kg | NA | NA | NA | NA | NA | NA |
| Benzo(K)fluoranthene | 2.2 | mg/kg | NA | NA | NA | NA | NA | NA |
| Benzo(A)pyrene | 0.022 | mg/kg | NA | NA | NA | NA | NA | NA |
| Chrysene | 22 | mg/kg | NA | NA | NA | NA | NA | NA |
| Dibenzo(A,H)anthracene | 0.022 | mg/kg | NA | NA | NA | NA | NA | NA |
| Fluoranthene | 1000 | mg/kg | NA | NA | NA | NA | NA | NA |
| Fluorene | 1000 | mg/kg | NA | NA | NA | NA | NA | NA |
| Indeno(1,2,3,C,D)pyrene | 0.22 | mg/kg | NA | NA | NA | NA | NA | NA |
| Naphthalene | 23 | mg/kg | NA | NA | NA | NA | NA | NA |
| Pyrene | 1000 | mg/kg | NA | NA | NA | NA | NA | NA |

NOTES:

< - less than the stated reporting limit

BOLD - indicates result exceeds the COGCC concentration level

COGCC - Colorado Oil and Gas Conservation Commission

EC - electrical conductivity

mg/kg - milligrams per kilogram

mmhos/cm - millimhos per centimeter

NA - not analyzed

SU - standard unit

TPH-GRO - total petroleum hydrocarbons-gasoline range organics

TPH-DRO - total petroleum hydrocarbons-diesel range organics

TPH - combination of TPH-GRO and TPH-DRO

FT - Feet

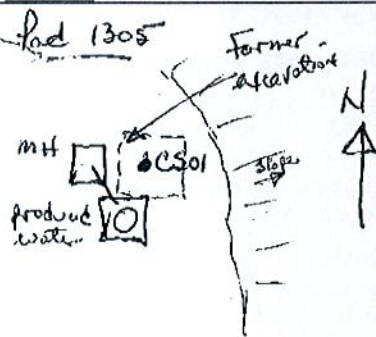
BGS - Below ground surface



APPENDIX A
SOIL BORING LITHOLOGIC LOGS



Location Map:



Compliance Engineering Remediation
 LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: **CS01** Project: **Encana Rangely Assessments**
 Date: **8/28/12** Project Number: **033412042**
 Logged By: **Unger** Drilled By: **Site Services**
 Drilline Method: **H.S. Augers** Sampling Method: **split spoon**
 Seal: Grout:

Elevation: Detector: **mini-Rae 3000**

Gravel Pack:

Casing Type:

Diameter:

Length:

Hole Diameter: **8"**

Depth to Liquid:

Screen Type:

Slot:

Diameter:

Length:

Total Depth: **34.5'**

Depth to Water:

dry

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Soil/Rock Type | Lithology/Remarks | Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------------|--|-----------------|
| | | | | | 0 | | 1220 | | |
| | | | | | 2 | | Fill | Sand, v.f.g - fig, clayey to very clayey, gravel to cobble size rocks, brown, dry to medium moist | |
| | | | | | 4 | | SC | | |
| | | | | | 6 | | | | |
| | | | | | 8 | | | | |
| | | | | | 10 | | | | |
| | | | | | 12 | | Fill | | |
| | | | | | 14 | | | | |
| | | | | | 16 | | | | |
| | | | | | 18 | | Fill | | |
| | | | | | 20 | | | | |
| | | | | | 22 | | | | |
| | | | | | 23-23.5 | | | | |
| | | | | | 24 | | SPS | very hard, sandy Sandstone, v.f.g - fig, librowite, odor, no staining, medium moist | |
| | | | | | 25-26 | | | | |
| | | | | | 26 | | CLS | Claystone, shale, gray to dark gray, moist, odor, possible minor staining, limonite & iron staining in fractures | |
| | | | | | 28 | | | | |
| | | | | | 30 | | | | |

Location Map:



Compliance μ Engineering μ Remediation
 LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: **C501** Project: **Encana Range Assessments**

Date: **8/28/12** Project Number: **0334-12042**

Logged By: **Unger** Drilled By: **Site Services**

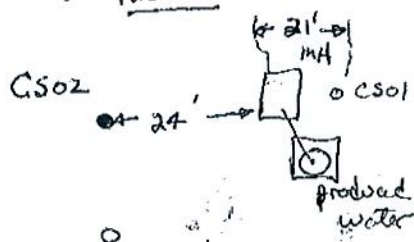
Elevation: Detector: **mini-Rae 3000** Drilling Method: **H.S. Augers CME-75** Sampling Method: **split spoon**

Gravel Pack: Seal:

Casing Type: Diameter: Length: Hole Diameter: **8"** Depth to Liquid: **—**

Screen Type: Slot: Diameter: Length: Total Depth: **34.5'** Depth to Water: **dry**

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Soil/Rock Type | Lithology/Remarks | Well Completion |
|------------------------|------------------|----------------|----------|----------|------------------|------------|----------------|---|-----------------|
| | | 618 | | | 30 | | | | |
| | | 284 | | | 32 | | CLS | | |
| | | 134 | NO | 34-34.5' | 34 | | | Claystone, shale, gray, iron stained in fractures, some carbonaceous material in fractures, medium moist, odor, less odor & VOCs at 34' bgs | |
| 39/84 | | | | 1645 | 36 | | SPS | TD = 34.5' refusal on sandstone | |
| no bounding | | | | | 38 | | | | |
| | | | | | 40 | | | | |
| | | | | | 42 | | | | |
| | | | | | 44 | | | | |
| | | | | | 46 | | | | |
| | | | | | 48 | | | | |
| | | | | | 50 | | | | |
| | | | | | 52 | | | | |
| | | | | | 54 | | | | |
| | | | | | 56 | | | | |
| | | | | | 58 | | | | |
| | | | | | 60 | | | | |

Location Map: Pad 1305

Compliance _M Engineering _M Remediation
 LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: CS02Project: Encana Rangely AssessmentsDate: 8/28/12Project Number: 033412042Logged By: UngerDrilled By: Site ServicesDrilling Method: H.S. AugersSampling Method: split spoonElevation: _____ Detector: mini-hoe 3000

Gravel Pack: _____

Seal: _____

Grout: _____

Casing Type: _____

Diameter: _____

Length: _____

Hole Diameter: 8"

Depth to Liquid: _____

Screen Type: _____

Slot: _____

Diameter: _____

Length: _____

Total Depth: 36'

Depth to Water: _____

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Soil/Rock Type | Lithology/Remarks | Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------------|--|-----------------|
| | | | | | 0 | 0720 | SC | Sand, v.f.g.-fig., very clayey, brown to gray, dry to medium moist, no odor or staining | |
| | | | | | 2 | | | | |
| | | | | | 4 | 4-6' | | | |
| 6/10% | | 0 | NO | | 6 | 0750 | SC | Sand, v.f.g.-fig., clayey, gray-brown, medium moist, NO staining or odor | |
| 11/6 1/2% | | | | | 8 | | | | |
| 8/9% | | 13 | NO | | 10 | 0800 | | | |
| 9/6 1/2% | | | | | 12 | | | | |
| 6/7% | | 3741 | NO | | 14 | | | | |
| 7/6 1/2% | | | | | 16 | 0810 | SC | Sand, v.f.g.-m.g., clayey, gray-brown, odor, medium moist, occasional gravel (1/2"-2") size rock (sandstone) | |
| | | | | | 18 | | | | |
| 9/14% | | 4887 | NO | | 20 | 0820 | CL | Clay, very sandy, gray-brown, medium moist to moist, strong odor | |
| 11/6% | | | | | 22 | | | | |
| | | | | | 24 | | | | |
| 21/50% | | 4951 | NO | | 26 | 0825 | SPS | Sandstone, v.f.g.-fig., yellow brown, medium moist, strong odor, very hard | |
| 6/4% | | | | | 28 | | | | |
| boundary | | | | | 30 | | | | |
| 41/50% | | 3611 | NO | | | | CLS | Claystone/shale, gray, iron stained in fractures, med. moist, odor, hard | |
| 10/3% | | | | | | | | | |

Location Map:

Page 1305



Compliance ⁱⁿ Engineering ⁱⁿ Remediation
 LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

CS 02

Project:

Encana Rangely Assessments

Date:

8/29/12

Project Number:

0334/2042

Logged By:

UNger

Drilled By:

Site Services

Drilling Method:

H.S. Auger CME 75

Sampling Method:

split spoon

Elevation:

Detector:

mini-Rae 3000

Seal:

Grout:

Casing Type:

Diameter:

Length:

Hole Diameter:

8"

Depth to Liquid:

Screen Type:

Slot:

Diameter:

Length:

Total Depth:

36'

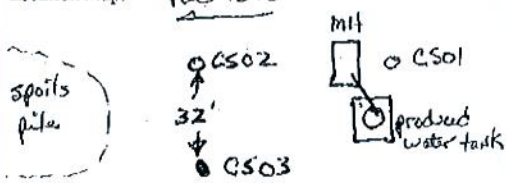
Depth to Water:

dry

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Soil/Rock Type | Lithology/Remarks | Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------------|---|-----------------|
| | | 818 | NO | | 30 | | CLS | Claystone/shale, gray, iron stained in fractures, med. moist, odor, hard to very hard | |
| | | 388 | NO | | 32 | | | | |
| | | | | | 34 | | | | |
| | | | | | 36 | 0930 | SP3 | Sandstone, vit. gr., yellow gray, drills very hard, slightly moist | |
| | | | | | 38 | | | Refusal at 36' BGS | |
| | | | | | 40 | | | | |
| | | | | | 42 | | | | |
| | | | | | 44 | | | | |
| | | | | | 46 | | | | |
| | | | | | 48 | | | | |
| | | | | | 50 | | | | |
| | | | | | 52 | | | | |
| | | | | | 54 | | | | |
| | | | | | 56 | | | | |
| | | | | | 58 | | | | |
| | | | | | 60 | | | | |

Location Map:

Pod 1305



Compliance π Engineering π Remediation
 LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number: CS03

Project:

Encana Rangely Assessments

Date: 8/29/12

Project Number:

033412042

Logged By: Unger

Drilled By:

Site Services

Elevation:

Detector:

mini-Rae 3000

Drilling Method:

H.S. Augers

Sampling Method:

split spoon

Gravel Pack:

Seal:

Grout:

Casing Type:

Diameter:

Length:

Hole Diameter: 8"

Depth to Liquid:

Screen Type:

Slot:

Diameter:

Length:

Total Depth: 36'

Depth to Water:

dry

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Soil/Rock Type | Lithology/Remarks | Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------------|---|-----------------|
| | | | | | 0 | | | | |
| | | | | | 2 | | | | |
| 4 5/16 | | 0 | NO | | 4 | | SC | Sand, v. f. to f. g., clayey, silty, brown, dry to medium moist, NO odor or staining | |
| 5 7/16 | | | | | 6 | 1030 | | | |
| | | | | | 8 | | | | |
| 7 1/16 | | 1 | NO | | 10 | | SC | Sand, v. f. g. - f. g., clayey, brown, medium moist, NO odor or staining, softer drilling | |
| 4 1/16 | | | | | 12 | 1040 | | | |
| | | | | | 14 | | | | |
| 3 1/16 | | 2 | NO | | 16 | | | | |
| 4 1/16 | | | | | 18 | 1050 | | | |
| | | | | | 20 | | SC | Sand, v. f. g. - f. g., clayey, brown to gray brown, medium moist, NO odor | |
| 4 1/16 | | 2 | NO | | 22 | 1100 | | | |
| 7 1/16 | | | | | 24 | | | | |
| 12 1/16 | | 3 | NO | | 26 | 1110 | | | |
| | | | | | 28 | | | | |
| 4 1/16 | | 13 | NO | | 30 | 1120 | CLS | Claystone/shale, gray, hard, medium moist, slight odor, NO staining | |

Location Map:

Pac 1305



Compliance _M Engineering _M Remediation
 LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

C503

Project:

Encava Range Assessments

Date:

8/29/12

Project Number:

033412042

Logged By:

W. J. J. J.

Drilled By:

Site Services

Drilling Method:

H.S. Augers CME 75

Sampling Method:

split spoon

Elevation:

Detector:

mini - Rae 3000

Gravel Pack:

Seal:

Grout:

Casing Type:

Diameter:

Length:

Hole Diameter:

8"

Depth to Liquid:

Screen Type:

Slot:

Diameter:

Length:

Total Depth:

36'

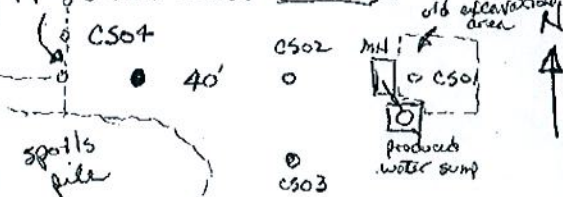
Depth to Water:

dry

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Soil/Rock Type | Lithology/Remarks | Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------------|---|-----------------|
| | | | | | 30 | | | | |
| | | | | | 32 | | CLS | Claystone/shale, gray, medium moist, hard to very hard, slight odor | |
| | | | | | 34 | | | | |
| | | | | | 36 | | SPS | Sandstone, v. fine, brown, very hard drilling, slightly moist | |
| | | | | | 38 | | | TD = 36' BGS refusal | |
| | | | | | 40 | | | | |
| | | | | | 42 | | | | |
| | | | | | 44 | | | | |
| | | | | | 46 | | | | |
| | | | | | 48 | | | | |
| | | | | | 50 | | | | |
| | | | | | 52 | | | | |
| | | | | | 54 | | | | |
| | | | | | 56 | | | | |
| | | | | | 58 | | | | |
| | | | | | 60 | | | | |

Location Map:
pipelines

Pad 1305



Compliance ⁱⁿ Engineering ⁱⁿ Remediation
LT Environmental, Inc.
4600 W. 60th Avenue
Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

| | |
|---|--|
| Boring/Well Number: CS04 | Project: Encana Rangeley Assessments |
| Date: 8/29/12 | Project Number: 0334-12042 |
| Logged By: Unger | Drilled By: Site Services |
| Drilling Method: H.S. Augers CME-75 | Sampling Method: split spoon |
| Seal: | Grout: |

Elevation: Detector: **mini-Rae 3000**

Gravel Pack:

Casing Type:

Diameter:

Length:

Hole Diameter: **8"**

Depth to Liquid:

Screen Type:

Slot:

Diameter:

Length:

Total Depth: **35'**

Depth to Water: **dry**

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Soil/Rock Type | Lithology/Remarks | Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------------|--|-----------------|
| | | | | | 0 | | | | |
| | | | | | 2 | | | | |
| | | | | | 4 | | SC | Sand, v.fg.-mg., clayey, silty, brown, dry to slightly moist, no odor or staining | |
| | | | | | 6 | | | | |
| | | | | | 8 | | | | |
| 1 1/2 % | | | | | 10 | | SC | Sand, v.fg.-fg., clayey, silty, brown, medium moist, no odor or staining | |
| 7 1/2 % | | | | | 12 | | | | |
| | | | | | 14 | | | | |
| 5 1/2 % | | | | | 16 | | | | |
| 1 1/2 % | | | | | 18 | | | | |
| | | | | | 20 | | | | |
| 4 1/2 % | | | | | 22 | | SC | Sand, v.fg.-mg., clayey to very clayey, brown to gray brown, medium moist, no odor or staining | |
| 15 1/2 % | | | | | 24 | | | | |
| 18 1/2 % | | | | | 26 | | | | |
| | | | | | 28 | | CLS | Claystone/shale, gray, iron stained in fractures, medium moist, hard to very hard | |
| 31 1/2 % | | | | | 30 | | | | |
| 16 1/2 % | | | | | | | | | |

Location Map:

Pad 1305



Compliance _M Engineering _M Remediation
 LT Environmental, Inc.
 4600 W. 60th Avenue
 Arvada, Colorado 80003

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

CS09

Project:

Encana Rangely Assessments

Date:

8/29/12

Project Number:

033412042

Logged By:

Uniger

Drilled By:

Site Services

Elevation:

Detector:

mini-Rae 3000

Drilling Method:

H.S. Agers CMET5

Sampling Method:

split spoon

Gravel Pack:

Seal:

Grout:

Casing Type:

Diameter:

Length:

Hole Diameter:

8"

Depth to Liquid:

Screen Type:

Slot:

Diameter:

Length:

Total Depth:

35'

Depth to Water:

dry

| Penetration Resistance | Moisture Content | Vapor (ppm) | Staining | Sample # | Depth (ft. bgs.) | Sample Run | Soil/Rock Type | Lithology/Remarks | Well Completion |
|------------------------|------------------|-------------|----------|----------|------------------|------------|----------------|--|-----------------|
| | | | | | 30 | | | | |
| | | | | | 32 | | CLS | Claystone/shale, gray, hard to very hard, slightly moist to medium moist | |
| | | | | | 34 | | | | |
| | | | | | 36 | | | | |
| | | | | | 38 | | | | |
| | | | | | 40 | | | | |
| | | | | | 42 | | | | |
| | | | | | 44 | | | | |
| | | | | | 46 | | | | |
| | | | | | 48 | | | | |
| | | | | | 50 | | | | |
| | | | | | 52 | | | | |
| | | | | | 54 | | | | |
| | | | | | 56 | | | | |
| | | | | | 58 | | | | |
| | | | | | 60 | | | | |

Location Map: 1305

1N

C502

M4

produced
size
pit

Compliance Engineering Remediation
LT Environmental, Inc.
 820 Meagn Avenue Unit B
 Rifle, Colorado 81650

BORING LOG/MONITORING WELL COMPLETION DIAGRAM

Boring/Well Number:

CB02

Project:

Rangely Site Assessment

Date:

8/23/13

Project Number:

033413010

Logged By:

Drilled By:

Precision Sampling

Elevation:

Detector:

PID

Drilling Method:

Hollow Stem Auger

Sampling Method:

Split Spoon

Gravel Pack:

Silica Sand

Seal:

Bentonite

Grout:

NA

Casing Type:

PVC

Diameter:

2"

Length:

29.5'

Hole Diameter:

8"

Depth to Liquid:

NA

Screen Type:

PVC

Slot:

0.020

Diameter:

2"

Length:

6'

Total Depth:

34 1/2'

Depth to Water:

NA

| Penetration Resistance | Vapor (ppm) | Staining | Time | Depth (ft. bgs.) | Soil/Rock Type | Lithology/Remarks | Well Completion |
|------------------------|-------------|----------|------|------------------|----------------|---|-----------------|
| | | | | 0 | | | |
| | | | | 4 | | | |
| | | | | 8 | | | |
| | | | | 12 | | | |
| | | | | 16 | | | |
| | | | | 20 | | | |
| | | | | 24 | | | |
| | | | | 28 | | | |
| | | | | 32 | | | |
| 150/5 | 82.6 ppm | NO | 1145 | 36 | SP3 | 34-34 1/2 - gray - light grey - very fine gr. sandstone, well sorted/rounded, odor, dry, dense - submit | |
| | | | | 40 | | | |
| | | | | 44 | | | |
| | | | | 48 | | | |

TP= 34 1/2

APPENDIX B
LABORATORY ANALYTICAL REPORTS





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

Kate Ramsay
HRL Compliance Solutions- CO
744 Horizon Ct., Suite 140
Grand Junction, CO 81506

Report Summary

Thursday November 17, 2011

Report Number: L546195

Samples Received: 11/10/11

Client Project:

Description: Culvert Pit Closure Project

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

Kate Ramsay
HRL Compliance Solutions- CO
744 Horizon Ct., Suite 140
Grand Junction, CO 81506

November 17, 2011

Date Received : November 10, 2011
Description : Culvert Pit Closure Project
Sample ID : 1305-UNDERTANK-110911
Collected By : Kate Ramsay
Collection Date : 11/09/11 10:15

ESC Sample # : L546195-01

Site ID : DTU 1305

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------------|--------|------------|----------|-------------|----------|------|
| Chromium, Hexavalent | BDL | 2.0 | mg/kg | 3060A/7196A | 11/16/11 | 1 |
| Chromium, Trivalent | 7.8 | 2.0 | mg/kg | Calc. | 11/16/11 | 1 |
| ORP | -10. | | mV | 2580 | 11/11/11 | 1 |
| pH | 8.7 | | su | 9045D | 11/15/11 | 1 |
| Sodium Adsorption Ratio | 56. | | | Calc. | 11/12/11 | 1 |
| Specific Conductance | 1000 | | umhos/cm | 9050AMod | 11/16/11 | 1 |
| Mercury | BDL | 0.020 | mg/kg | 7471 | 11/11/11 | 1 |
| Arsenic | 1.3 | 1.0 | mg/kg | 6010B | 11/16/11 | 1 |
| Barium | 150 | 0.25 | mg/kg | 6010B | 11/16/11 | 1 |
| Cadmium | BDL | 0.25 | mg/kg | 6010B | 11/16/11 | 1 |
| Chromium | 7.8 | 0.50 | mg/kg | 6010B | 11/16/11 | 1 |
| Copper | 14. | 1.0 | mg/kg | 6010B | 11/16/11 | 1 |
| Lead | 9.5 | 0.25 | mg/kg | 6010B | 11/16/11 | 1 |
| Nickel | 9.1 | 1.0 | mg/kg | 6010B | 11/16/11 | 1 |
| Selenium | BDL | 1.0 | mg/kg | 6010B | 11/16/11 | 1 |
| Silver | BDL | 0.50 | mg/kg | 6010B | 11/16/11 | 1 |
| Zinc | 54. | 1.5 | mg/kg | 6010B | 11/16/11 | 1 |
| Benzene | 2.6 | 1.2 | mg/kg | 8021/8015 | 11/15/11 | 2500 |
| Toluene | 27. | 12. | mg/kg | 8021/8015 | 11/15/11 | 2500 |
| Ethylbenzene | 16. | 1.2 | mg/kg | 8021/8015 | 11/15/11 | 2500 |
| Total Xylene | 95. | 3.8 | mg/kg | 8021/8015 | 11/15/11 | 2500 |
| TPH (GC/FID) Low Fraction | 3100 | 250 | mg/kg | GRO | 11/15/11 | 2500 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 96.4 | | % Rec. | 8021/8015 | 11/15/11 | 2500 |
| a,a,a-Trifluorotoluene(PID) | 97.9 | | % Rec. | 8021/8015 | 11/15/11 | 2500 |
| TPH (GC/FID) High Fraction | 1200 | 80. | mg/kg | 3546/DRO | 11/14/11 | 20 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 0.00 | | % Rec. | 3546/DRO | 11/14/11 | 20 |
| Polynuclear Aromatic Hydrocarbons | | | | | | |
| Anthracene | 0.0063 | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Acenaphthene | 0.080 | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Acenaphthylene | 0.0077 | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Benzo(a)anthracene | BDL | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Benzo(a)pyrene | BDL | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
L546195-01 (PH) - 8.66@20.6c



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

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Kate Ramsay
HRL Compliance Solutions- CO
744 Horizon Ct., Suite 140
Grand Junction, CO 81506

November 17, 2011

Date Received : November 10, 2011
Description : Culvert Pit Closure Project

ESC Sample # : L546195-01

Sample ID : 1305-UNDERTANK-110911

Site ID : DTU 1305

Collected By : Kate Ramsay
Collection Date : 11/09/11 10:15

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|------------------------|--------|------------|--------|-----------|----------|------|
| Benzo(b)fluoranthene | BDL | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Benzo(g,h,i)perylene | BDL | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Benzo(k)fluoranthene | BDL | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Chrysene | BDL | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Dibenz(a,h)anthracene | BDL | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Fluoranthene | BDL | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Fluorene | 0.14 | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Indeno(1,2,3-cd)pyrene | BDL | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Naphthalene | 4.3 | 0.30 | mg/kg | 8270C-SIM | 11/15/11 | 50 |
| Phenanthrene | 0.098 | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| Pyrene | BDL | 0.0060 | mg/kg | 8270C-SIM | 11/12/11 | 1 |
| 1-Methylnaphthalene | 2.9 | 0.30 | mg/kg | 8270C-SIM | 11/15/11 | 50 |
| 2-Methylnaphthalene | 5.7 | 0.30 | mg/kg | 8270C-SIM | 11/15/11 | 50 |
| 2-Chloronaphthalene | BDL | 0.30 | mg/kg | 8270C-SIM | 11/15/11 | 50 |
| Surrogate Recovery | | | | | | |
| Nitrobenzene-d5 | 0.00 | | % Rec. | 8270C-SIM | 11/15/11 | 50 |
| 2-Fluorobiphenyl | 123. | | % Rec. | 8270C-SIM | 11/12/11 | 1 |
| p-Terphenyl-d14 | 73.2 | | % Rec. | 8270C-SIM | 11/12/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/17/11 09:40 Printed: 11/17/11 10:03
L546195-01 (PH) - 8.66@20.6c

REPORT OF ANALYSIS

Kate Ramsay
HRL Compliance Solutions- CO
744 Horizon Ct., Suite 140
Grand Junction, CO 81506

November 17, 2011

Date Received : November 10, 2011
Description : Culvert Pit Closure Project

Sample ID : 1305-CS1-110911

Collected By : Kate Ramsay
Collection Date : 11/09/11 11:30

ESC Sample # : L546195-02

Site ID : DTU 1305

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 11/16/11 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 11/16/11 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 11/16/11 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 11/16/11 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 11/16/11 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 96.7 | | % Rec. | 8021/8015 | 11/16/11 | 5 |
| a,a,a-Trifluorotoluene(PID) | 95.6 | | % Rec. | 8021/8015 | 11/16/11 | 5 |
| TPH (GC/FID) High Fraction | 27. | 4.0 | mg/kg | 3546/DRO | 11/11/11 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 71.6 | | % Rec. | 3546/DRO | 11/11/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Kate Ramsay
HRL Compliance Solutions- CO
744 Horizon Ct., Suite 140
Grand Junction, CO 81506

November 17, 2011

Date Received : November 10, 2011
Description : Culvert Pit Closure Project

Sample ID : 1305-CS2-110911

Collected By : Kate Ramsay
Collection Date : 11/09/11 14:20

ESC Sample # : L546195-03

Site ID : DTU 1305

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 11/16/11 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 11/16/11 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 11/16/11 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 11/16/11 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 11/16/11 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 96.5 | | % Rec. | 8021/8015 | 11/16/11 | 5 |
| a,a,a-Trifluorotoluene(PID) | 96.3 | | % Rec. | 8021/8015 | 11/16/11 | 5 |
| TPH (GC/FID) High Fraction | 4.1 | 4.0 | mg/kg | 3546/DRO | 11/11/11 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 56.1 | | % Rec. | 3546/DRO | 11/11/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Kate Ramsay
HRL Compliance Solutions- CO
744 Horizon Ct., Suite 140
Grand Junction, CO 81506

November 17, 2011

Date Received : November 10, 2011
Description : Culvert Pit Closure Project
Sample ID : 1305-CS3-110911
Collected By : Kate Ramsay
Collection Date : 11/09/11 15:10

ESC Sample # : L546195-04

Site ID : DTU 1305

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 11/14/11 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 11/14/11 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 11/14/11 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 11/14/11 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 11/14/11 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 94.5 | | % Rec. | 8021/8015 | 11/14/11 | 5 |
| a,a,a-Trifluorotoluene(PID) | 95.0 | | % Rec. | 8021/8015 | 11/14/11 | 5 |
| TPH (GC/FID) High Fraction | BDL | 4.0 | mg/kg | 3546/DRO | 11/11/11 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 60.1 | | % Rec. | 3546/DRO | 11/11/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

Kate Ramsay
HRL Compliance Solutions- CO
744 Horizon Ct., Suite 140
Grand Junction, CO 81506

November 17, 2011

Date Received : November 10, 2011
Description : Culvert Pit Closure Project
Sample ID : 1305-BKG1-110911
Collected By : Kate Ramsay
Collection Date : 11/09/11 10:25

ESC Sample # : L546195-05

Site ID : DTU 1305

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | BDL | 1.0 | mg/kg | 6010B | 11/15/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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744 Horizon Ct., Suite 140
Grand Junction, CO 81506

November 17, 2011

Date Received : November 10, 2011
Description : Culvert Pit Closure Project
Sample ID : 1305-BKG2-110911
Collected By : Kate Ramsay
Collection Date : 11/09/11 10:30

ESC Sample # : L546195-06

Site ID : DTU 1305

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | BDL | 1.0 | mg/kg | 6010B | 11/15/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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744 Horizon Ct., Suite 140
Grand Junction, CO 81506

November 17, 2011

Date Received : November 10, 2011
Description : Culvert Pit Closure Project
Sample ID : 1305-BKG3-110911
Collected By : Kate Ramsay
Collection Date : 11/09/11 10:35

ESC Sample # : L546195-07

Site ID : DTU 1305

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | BDL | 1.0 | mg/kg | 6010B | 11/15/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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744 Horizon Ct., Suite 140
Grand Junction, CO 81506

November 17, 2011

Date Received : November 10, 2011
Description : Culvert Pit Closure Project
Sample ID : 1305-BKG4-110911
Collected By : Kate Ramsay
Collection Date : 11/09/11 10:40

ESC Sample # : L546195-08

Site ID : DTU 1305

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | BDL | 1.0 | mg/kg | 6010B | 11/15/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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HRL Compliance Solutions- CO
744 Horizon Ct., Suite 140
Grand Junction, CO 81506

November 17, 2011

Date Received : November 10, 2011
Description : Culvert Pit Closure Project
Sample ID : 1305-BKG5-110911
Collected By : Kate Ramsay
Collection Date : 11/09/11 10:45

ESC Sample # : L546195-09

Site ID : DTU 1305

Project # :

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------|--------|------------|-------|--------|----------|------|
| Arsenic | BDL | 1.0 | mg/kg | 6010B | 11/15/11 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 11/17/11 09:40 Printed: 11/17/11 10:03

Attachment A
List of Analytes with QC Qualifiers

| Sample Number | Work Group | Sample Type | Analyte | Run ID | Qualifier |
|------------------|---------------|----------------|-----------------|-----------|-----------|
| L546195-01 | WG565106 | SAMP | Nitrobenzene-d5 | R1930692 | J7 |
| | WG565675 | SAMP | pH | R1932493 | T8 |
| | WG565090 | SAMP | ORP | R1928893 | T8 |
| | WG565102 | SAMP | o-Terphenyl | R1930052 | J7 |

Attachment B
Explanation of QC Qualifier Codes

| Qualifier | Meaning |
|-----------|---|
| J7 | Surrogate recovery limits cannot be evaluated; surrogates were diluted out |
| T8 | (ESC) - Additional method/sample information: Sample(s) received past/too close to holding time expiration. |

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
11/17/11 at 10:03:47

TSR Signing Reports: 358
R5 - Desired TAT

Accounting - pending credit application. TSR - pending info release authorization.

Sample: L546195-01 Account: HRLCSCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/17/11 09:40
Sample: L546195-02 Account: HRLCSCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/17/11 09:40
Sample: L546195-03 Account: HRLCSCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/17/11 09:40
Sample: L546195-04 Account: HRLCSCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/17/11 09:40
Sample: L546195-05 Account: HRLCSCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/17/11 09:40
Sample: L546195-06 Account: HRLCSCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/17/11 09:40
Sample: L546195-07 Account: HRLCSCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/17/11 09:40
Sample: L546195-08 Account: HRLCSCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/17/11 09:40
Sample: L546195-09 Account: HRLCSCO Received: 11/10/11 09:00 Due Date: 11/17/11 00:00 RPT Date: 11/17/11 09:40



YOUR LAB OF CHOICE

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Kate Ramsay
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Grand Junction, CO 81506

Quality Assurance Report
Level II

L546195

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Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

November 17, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|---------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Benzene | < .0005 | mg/kg | | | WG565378 | 11/13/11 22:50 |
| Ethylbenzene | < .0005 | mg/kg | | | WG565378 | 11/13/11 22:50 |
| Toluene | < .005 | mg/kg | | | WG565378 | 11/13/11 22:50 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG565378 | 11/13/11 22:50 |
| Total Xylene | < .0015 | mg/kg | | | WG565378 | 11/13/11 22:50 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 94.40 | 59-128 | WG565378 | 11/13/11 22:50 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 95.31 | 54-144 | WG565378 | 11/13/11 22:50 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG565102 | 11/11/11 16:37 |
| o-Terphenyl | | % Rec. | 57.97 | 50-150 | WG565102 | 11/11/11 16:37 |
| Mercury | < .02 | mg/kg | | | WG565114 | 11/11/11 17:33 |
| 1-Methylnaphthalene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| 2-Chloronaphthalene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| 2-Methylnaphthalene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Acenaphthene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Acenaphthylene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Anthracene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Benzo(a)anthracene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Benzo(a)pyrene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Benzo(b)fluoranthene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Benzo(g,h,i)perylene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Benzo(k)fluoranthene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Chrysene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Dibenz(a,h)anthracene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Fluoranthene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Fluorene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Indeno(1,2,3-cd)pyrene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Naphthalene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Phenanthrene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| Pyrene | < .006 | mg/kg | | | WG565106 | 11/12/11 16:52 |
| 2-Fluorobiphenyl | | % Rec. | 81.59 | 34-129 | WG565106 | 11/12/11 16:52 |
| Nitrobenzene-d5 | | % Rec. | 91.92 | 14-141 | WG565106 | 11/12/11 16:52 |
| p-Terphenyl-d14 | | % Rec. | 84.47 | 25-139 | WG565106 | 11/12/11 16:52 |
| pH | 5.10 | su | | | WG565675 | 11/15/11 15:31 |
| Benzene | < .0005 | mg/kg | | | WG565706 | 11/15/11 17:41 |
| Ethylbenzene | < .0005 | mg/kg | | | WG565706 | 11/15/11 17:41 |
| Toluene | < .005 | mg/kg | | | WG565706 | 11/15/11 17:41 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG565706 | 11/15/11 17:41 |
| Total Xylene | < .0015 | mg/kg | | | WG565706 | 11/15/11 17:41 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 97.13 | 59-128 | WG565706 | 11/15/11 17:41 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 96.69 | 54-144 | WG565706 | 11/15/11 17:41 |
| Arsenic | < 1 | mg/kg | | | WG565475 | 11/15/11 21:44 |
| Chromium,Hexavalent | < 2 | mg/kg | | | WG565584 | 11/16/11 14:38 |
| Specific Conductance | 2.00 | umhos/cm | | | WG565800 | 11/16/11 15:54 |

* 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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Tax I.D. 62-0814289

Est. 1970

November 17, 2011

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|----------|--------|------------------|-------|-------|----------|----------------|
| | | Units | % Rec | | | |
| Arsenic | < 1 | mg/kg | | | WG565603 | 11/16/11 17:10 |
| Barium | < .25 | mg/kg | | | WG565603 | 11/16/11 17:10 |
| Cadmium | < .25 | mg/kg | | | WG565603 | 11/16/11 17:10 |
| Chromium | < .5 | mg/kg | | | WG565603 | 11/16/11 17:10 |
| Copper | < 1 | mg/kg | | | WG565603 | 11/16/11 17:10 |
| Lead | < .25 | mg/kg | | | WG565603 | 11/16/11 17:10 |
| Nickel | < 1 | mg/kg | | | WG565603 | 11/16/11 17:10 |
| Selenium | < 1 | mg/kg | | | WG565603 | 11/16/11 17:10 |
| Silver | < .5 | mg/kg | | | WG565603 | 11/16/11 17:10 |
| Zinc | < 1.5 | mg/kg | | | WG565603 | 11/16/11 17:10 |

| Analyte | Units | Duplicate | | RPD | Limit | Ref Samp | Batch |
|----------------------|----------|-----------|-----------|--------|-------|------------|----------|
| | | Result | Duplicate | | | | |
| ORP | mV | 180. | 180. | 1.10 | 20 | L545601-02 | WG565090 |
| ORP | mV | 0 | 0 | 0 | 20 | L546195-01 | WG565090 |
| Mercury | mg/kg | 0.0200 | 0.0530 | 90.4* | 20 | L546095-05 | WG565114 |
| pH | su | 9.00 | 9.00 | 0.445 | 1 | L546091-01 | WG565675 |
| pH | su | 12.0 | 12.0 | 0.0833 | 1 | L546702-02 | WG565675 |
| Arsenic | mg/kg | 0 | 0 | 0 | 20 | L546195-05 | WG565475 |
| Chromium,Hexavalent | mg/kg | 0 | 0 | 0 | 20 | L546238-01 | WG565584 |
| Chromium,Hexavalent | mg/kg | 0.120 | 1.60 | 172.* | 20 | L546540-03 | WG565584 |
| Specific Conductance | umhos/cm | 1100 | 1000 | 7.41 | 20 | L546195-01 | WG565800 |
| Specific Conductance | umhos/cm | 69.0 | 71.0 | 2.42 | 20 | L546244-02 | WG565800 |
| Arsenic | mg/kg | 0 | 0 | 0 | 20 | L545395-11 | WG565603 |
| Barium | mg/kg | 190. | 220. | 14.6 | 20 | L545395-11 | WG565603 |
| Cadmium | mg/kg | 28.0 | 25.0 | 13.1 | 20 | L545395-11 | WG565603 |
| Chromium | mg/kg | 580. | 660. | 13.2 | 20 | L545395-11 | WG565603 |
| Copper | mg/kg | 170. | 171. | 1.74 | 20 | L545395-11 | WG565603 |
| Lead | mg/kg | 1500 | 1500 | 0.664 | 20 | L545395-11 | WG565603 |
| Nickel | mg/kg | 43.0 | 75.9 | 54.9* | 20 | L545395-11 | WG565603 |
| Selenium | mg/kg | 5.30 | 7.80 | 38.2* | 20 | L545395-11 | WG565603 |
| Silver | mg/kg | 6.10 | 6.40 | 4.64 | 20 | L545395-11 | WG565603 |
| Zinc | mg/kg | 3700 | 3100 | 18.4 | 20 | L545395-11 | WG565603 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|-------------|----------|
| | | Known Val | Result | | | |
| ORP | mV | 229 | 230. | 100. | 95.6-104.37 | WG565090 |
| Benzene | mg/kg | .05 | 0.0443 | 88.7 | 76-113 | WG565378 |
| Ethylbenzene | mg/kg | .05 | 0.0491 | 98.2 | 78-115 | WG565378 |
| Toluene | mg/kg | .05 | 0.0485 | 97.1 | 76-114 | WG565378 |
| Total Xylene | mg/kg | .15 | 0.146 | 97.6 | 81-118 | WG565378 |
| a,a,a-Trifluorotoluene(PID) | | | | 94.56 | 54-144 | WG565378 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 6.03 | 110. | 67-135 | WG565378 |

* 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

HRL Compliance Solutions- CO
Kate Ramsay
744 Horizon Ct., Suite 140

Grand Junction, CO 81506

Quality Assurance Report
Level II

L546195

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

November 17, 2011

| Analyte | Units | Laboratory Control Known Val | Sample Result | % Rec | Limit | Batch |
|-----------------------------|----------|---------------------------------|------------------|-------|----------|----------|
| a,a,a-Trifluorotoluene(FID) | | | | 100.5 | 59-128 | |
| TPH (GC/FID) High Fraction | ppm | 60 | 44.4 | 74.0 | 50-150 | WG565102 |
| o-Terphenyl | | | | 74.15 | 50-150 | WG565102 |
| Mercury | mg/kg | 3.77 | 4.19 | 111. | 71.6-128 | WG565114 |
| 1-Methylnaphthalene | mg/kg | .033 | 0.0287 | 86.9 | 48-113 | WG565106 |
| 2-Chloronaphthalene | mg/kg | .033 | 0.0302 | 91.4 | 51-114 | WG565106 |
| 2-Methylnaphthalene | mg/kg | .033 | 0.0296 | 89.7 | 44-109 | WG565106 |
| Acenaphthene | mg/kg | .033 | 0.0279 | 84.5 | 52-108 | WG565106 |
| Acenaphthylene | mg/kg | .033 | 0.0300 | 90.8 | 51-110 | WG565106 |
| Anthracene | mg/kg | .033 | 0.0298 | 90.2 | 58-120 | WG565106 |
| Benzo(a)anthracene | mg/kg | .033 | 0.0298 | 90.4 | 54-110 | WG565106 |
| Benzo(a)pyrene | mg/kg | .033 | 0.0307 | 93.1 | 56-118 | WG565106 |
| Benzo(b)fluoranthene | mg/kg | .033 | 0.0300 | 90.9 | 55-114 | WG565106 |
| Benzo(g,h,i)perylene | mg/kg | .033 | 0.0315 | 95.4 | 48-130 | WG565106 |
| Benzo(k)fluoranthene | mg/kg | .033 | 0.0296 | 89.8 | 55-122 | WG565106 |
| Chrysene | mg/kg | .033 | 0.0293 | 88.7 | 57-118 | WG565106 |
| Dibenz(a,h)anthracene | mg/kg | .033 | 0.0316 | 95.6 | 53-122 | WG565106 |
| Fluoranthene | mg/kg | .033 | 0.0289 | 87.7 | 58-118 | WG565106 |
| Fluorene | mg/kg | .033 | 0.0293 | 88.9 | 54-109 | WG565106 |
| Indeno(1,2,3-cd)pyrene | mg/kg | .033 | 0.0314 | 95.1 | 51-125 | WG565106 |
| Naphthalene | mg/kg | .033 | 0.0268 | 81.3 | 45-105 | WG565106 |
| Phenanthrene | mg/kg | .033 | 0.0291 | 88.2 | 53-114 | WG565106 |
| Pyrene | mg/kg | .033 | 0.0316 | 95.7 | 53-121 | WG565106 |
| 2-Fluorobiphenyl | | | | 88.00 | 34-129 | WG565106 |
| Nitrobenzene-d5 | | | | 91.95 | 14-141 | WG565106 |
| p-Terphenyl-d14 | | | | 89.43 | 25-139 | WG565106 |
| pH | su | 7.98 | 7.90 | 99.0 | 98-101 | WG565675 |
| Benzene | mg/kg | .05 | 0.0463 | 92.7 | 76-113 | WG565706 |
| Ethylbenzene | mg/kg | .05 | 0.0487 | 97.4 | 78-115 | WG565706 |
| Toluene | mg/kg | .05 | 0.0514 | 103. | 76-114 | WG565706 |
| Total Xylene | mg/kg | .15 | 0.140 | 93.5 | 81-118 | WG565706 |
| a,a,a-Trifluorotoluene(PID) | | | | 96.94 | 54-144 | WG565706 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 6.58 | 120. | 67-135 | WG565706 |
| a,a,a-Trifluorotoluene(FID) | | | | 104.6 | 59-128 | WG565706 |
| Arsenic | mg/kg | 92.6 | 80.2 | 86.6 | 82.9-117 | WG565475 |
| Chromium,Hexavalent | mg/kg | 203 | 145. | 71.4 | 50-150 | WG565584 |
| Specific Conductance | umhos/cm | 427 | 420. | 98.4 | 85-115 | WG565800 |
| Arsenic | mg/kg | 92.6 | 80.0 | 86.4 | 82.9-117 | WG565603 |
| Barium | mg/kg | 169 | 154. | 91.1 | 82.8-117 | WG565603 |
| Cadmium | mg/kg | 61.8 | 52.0 | 84.1 | 83.3-117 | WG565603 |
| Chromium | mg/kg | 71.3 | 63.4 | 88.9 | 81.8-118 | WG565603 |
| Copper | mg/kg | 81.2 | 75.7 | 93.2 | 83.9-116 | WG565603 |
| Lead | mg/kg | 92.4 | 81.9 | 88.6 | 83.3-117 | WG565603 |

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Level II

L546195

November 17, 2011

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|----------|-------|---------------------------|--------|-------|----------|----------|
| | | Known Val | Result | | | |
| Nickel | mg/kg | 59.1 | 52.2 | 88.3 | 83.8-116 | WG565603 |
| Selenium | mg/kg | 89.5 | 78.2 | 87.4 | 79-121 | WG565603 |
| Silver | mg/kg | 34.4 | 31.3 | 91.0 | 66.3-134 | WG565603 |
| Zinc | mg/kg | 141 | 126. | 89.4 | 80.9-119 | WG565603 |

| Analyte | Units | Laboratory Control Sample Duplicate | | %Rec | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|--------|-------|-------------|-------|-------|----------|
| | | Result | Ref | | | | | |
| ORP | mV | 230. | 230. | 100. | 95.6-104.37 | 0 | 20 | WG565090 |
| Benzene | mg/kg | 0.0422 | 0.0443 | 84.0 | 76-113 | 5.00 | 20 | WG565378 |
| Ethylbenzene | mg/kg | 0.0477 | 0.0491 | 95.0 | 78-115 | 2.88 | 20 | WG565378 |
| Toluene | mg/kg | 0.0474 | 0.0485 | 95.0 | 76-114 | 2.43 | 20 | WG565378 |
| Total Xylene | mg/kg | 0.141 | 0.146 | 94.0 | 81-118 | 3.40 | 20 | WG565378 |
| a,a,a-Trifluorotoluene(PID) | | | | 97.85 | 54-144 | | | WG565378 |
| TPH (GC/FID) Low Fraction | mg/kg | 6.08 | 6.03 | 110. | 67-135 | 0.900 | 20 | WG565378 |
| a,a,a-Trifluorotoluene(FID) | | | | 101.6 | 59-128 | | | WG565378 |
| TPH (GC/FID) High Fraction | ppm | 44.2 | 44.4 | 74.0 | 50-150 | 0.344 | 20 | WG565102 |
| o-Terphenyl | | | | 70.58 | 50-150 | | | WG565102 |
| 1-Methylnaphthalene | mg/kg | 0.0282 | 0.0287 | 85.0 | 48-113 | 1.59 | 24 | WG565106 |
| 2-Chloronaphthalene | mg/kg | 0.0299 | 0.0302 | 91.0 | 51-114 | 0.737 | 24 | WG565106 |
| 2-Methylnaphthalene | mg/kg | 0.0296 | 0.0296 | 90.0 | 44-109 | 0.151 | 24 | WG565106 |
| Acenaphthene | mg/kg | 0.0280 | 0.0279 | 85.0 | 52-108 | 0.244 | 22 | WG565106 |
| Acenaphthylene | mg/kg | 0.0288 | 0.0300 | 87.0 | 51-110 | 3.98 | 21 | WG565106 |
| Anthracene | mg/kg | 0.0304 | 0.0298 | 92.0 | 58-120 | 2.27 | 20 | WG565106 |
| Benzo(a)anthracene | mg/kg | 0.0292 | 0.0298 | 88.0 | 54-110 | 2.29 | 22 | WG565106 |
| Benzo(a)pyrene | mg/kg | 0.0307 | 0.0307 | 93.0 | 56-118 | 0.189 | 21 | WG565106 |
| Benzo(b)fluoranthene | mg/kg | 0.0310 | 0.0300 | 94.0 | 55-114 | 3.28 | 20 | WG565106 |
| Benzo(g,h,i)perylene | mg/kg | 0.0317 | 0.0315 | 96.0 | 48-130 | 0.870 | 20 | WG565106 |
| Benzo(k)fluoranthene | mg/kg | 0.0300 | 0.0296 | 91.0 | 55-122 | 1.36 | 25 | WG565106 |
| Chrysene | mg/kg | 0.0303 | 0.0293 | 92.0 | 57-118 | 3.58 | 20 | WG565106 |
| Dibenz(a,h)anthracene | mg/kg | 0.0316 | 0.0316 | 96.0 | 53-122 | 0.134 | 20 | WG565106 |
| Fluoranthene | mg/kg | 0.0291 | 0.0289 | 88.0 | 58-118 | 0.653 | 20 | WG565106 |
| Fluorene | mg/kg | 0.0279 | 0.0293 | 84.0 | 54-109 | 5.09 | 20 | WG565106 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.0313 | 0.0314 | 95.0 | 51-125 | 0.210 | 21 | WG565106 |
| Naphthalene | mg/kg | 0.0280 | 0.0268 | 85.0 | 45-105 | 4.16 | 24 | WG565106 |
| Phenanthrene | mg/kg | 0.0281 | 0.0291 | 85.0 | 53-114 | 3.32 | 20 | WG565106 |
| Pyrene | mg/kg | 0.0313 | 0.0316 | 95.0 | 53-121 | 0.822 | 20 | WG565106 |
| 2-Fluorobiphenyl | | | | 81.82 | 34-129 | | | WG565106 |
| Nitrobenzene-d5 | | | | 92.17 | 14-141 | | | WG565106 |
| p-Terphenyl-d14 | | | | 93.04 | 25-139 | | | WG565106 |
| pH | su | 7.90 | 7.90 | 99.0 | 98-101 | 0 | 20 | WG565675 |
| Benzene | mg/kg | 0.0493 | 0.0463 | 98.0 | 76-113 | 6.17 | 20 | WG565706 |
| Ethylbenzene | mg/kg | 0.0514 | 0.0487 | 103. | 78-115 | 5.49 | 20 | WG565706 |
| Toluene | mg/kg | 0.0546 | 0.0514 | 109. | 76-114 | 5.91 | 20 | WG565706 |
| Total Xylene | mg/kg | 0.147 | 0.140 | 98.0 | 81-118 | 5.01 | 20 | WG565706 |
| a,a,a-Trifluorotoluene(PID) | | | | 99.67 | 54-144 | | | WG565706 |
| TPH (GC/FID) Low Fraction | mg/kg | 6.64 | 6.58 | 121. | 67-135 | 0.820 | 20 | WG565706 |
| a,a,a-Trifluorotoluene(FID) | | | | 105.6 | 59-128 | | | WG565706 |

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Est. 1970

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| Analyte | Units | Laboratory Control Sample Duplicate | | | | Limit | RPD | Limit | Batch |
|--|--------|-------------------------------------|----------|------|-------|--------|------------|----------|----------|
| | | Result | Ref | %Rec | | | | | |
| Chromium, Hexavalent | mg/kg | 164. | 145. | 81.0 | | 50-150 | 12.3 | 20 | WG565584 |
| Specific Conductance | umhos/ | 420. | 420. | 98.0 | | 85-115 | 0 | 20 | WG565800 |
| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch | |
| | | MS Res | Ref Res | TV | % Rec | | | | |
| Benzene | mg/kg | 0.206 | 0.00610 | .05 | 80.0 | 32-137 | L546089-01 | WG565378 | |
| Ethylbenzene | mg/kg | 0.213 | 0 | .05 | 85.1 | 10-150 | L546089-01 | WG565378 | |
| Toluene | mg/kg | 0.223 | 0 | .05 | 89.3 | 20-142 | L546089-01 | WG565378 | |
| Total Xylene | mg/kg | 0.640 | 0 | .15 | 85.4 | 16-141 | L546089-01 | WG565378 | |
| a,a,a-Trifluorotoluene(PID) | | | | | 81.00 | 54-144 | | WG565378 | |
| TPH (GC/FID) Low Fraction | mg/kg | 22.3 | 0 | 5.5 | 80.9 | 55-109 | L546089-01 | WG565378 | |
| a,a,a-Trifluorotoluene(FID) | | | | | 104.5 | 59-128 | | WG565378 | |
| TPH (GC/FID) High Fraction | ppm | 63.3 | 27.0 | 60 | 60.5 | 50-150 | L546195-02 | WG565102 | |
| o-Terphenyl | | | | | 60.90 | 50-150 | | WG565102 | |
| Mercury | mg/kg | 0.269 | 0.0530 | .25 | 86.4 | 70-130 | L546095-05 | WG565114 | |
| 1-Methylnaphthalene | mg/kg | 0.0249 | 0 | .033 | 75.3 | 25-155 | L546248-02 | WG565106 | |
| 2-Chloronaphthalene | mg/kg | 0.0253 | 0 | .033 | 76.7 | 31-153 | L546248-02 | WG565106 | |
| 2-Methylnaphthalene | mg/kg | 0.0266 | 0.000790 | .033 | 78.2 | 22-172 | L546248-02 | WG565106 | |
| Acenaphthene | mg/kg | 0.0230 | 0 | .033 | 69.7 | 43-133 | L546248-02 | WG565106 | |
| Acenaphthylene | mg/kg | 0.0250 | 0 | .033 | 75.6 | 42-146 | L546248-02 | WG565106 | |
| Anthracene | mg/kg | 0.0266 | 0 | .033 | 80.5 | 38-153 | L546248-02 | WG565106 | |
| Benzo(a)anthracene | mg/kg | 0.0264 | 0 | .033 | 80.0 | 31-142 | L546248-02 | WG565106 | |
| Benzo(a)pyrene | mg/kg | 0.0290 | 0 | .033 | 87.9 | 26-152 | L546248-02 | WG565106 | |
| Benzo(b)fluoranthene | mg/kg | 0.0333 | 0.000980 | .033 | 98.0 | 10-188 | L546248-02 | WG565106 | |
| Benzo(g,h,i)perylene | mg/kg | 0.0137 | 0.00210 | .033 | 35.0 | 10-176 | L546248-02 | WG565106 | |
| Benzo(k)fluoranthene | mg/kg | 0.0325 | 0 | .033 | 98.4 | 22-163 | L546248-02 | WG565106 | |
| Chrysene | mg/kg | 0.0255 | 0 | .033 | 77.2 | 26-146 | L546248-02 | WG565106 | |
| Dibenz(a,h)anthracene | mg/kg | 0.0133 | 0 | .033 | 40.2 | 10-160 | L546248-02 | WG565106 | |
| Fluoranthene | mg/kg | 0.0301 | 0 | .033 | 91.3 | 23-160 | L546248-02 | WG565106 | |
| Fluorene | mg/kg | 0.0252 | 0 | .033 | 76.4 | 44-143 | L546248-02 | WG565106 | |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.0130 | 0 | .033 | 39.3 | 10-157 | L546248-02 | WG565106 | |
| Naphthalene | mg/kg | 0.0247 | 0 | .033 | 75.0 | 22-156 | L546248-02 | WG565106 | |
| Phenanthrene | mg/kg | 0.0263 | 0.000890 | .033 | 76.9 | 23-164 | L546248-02 | WG565106 | |
| Pyrene | mg/kg | 0.0269 | 0 | .033 | 81.6 | 12-170 | L546248-02 | WG565106 | |
| 2-Fluorobiphenyl | | | | | 74.53 | 34-129 | | WG565106 | |
| Nitrobenzene-d5 | | | | | 87.80 | 14-141 | | WG565106 | |
| p-Terphenyl-d14 | | | | | 118.9 | 25-139 | | WG565106 | |
| Benzene | mg/kg | 0.209 | 0 | .05 | 83.7 | 32-137 | L546475-05 | WG565706 | |
| Ethylbenzene | mg/kg | 0.214 | 0 | .05 | 85.6 | 10-150 | L546475-05 | WG565706 | |
| Toluene | mg/kg | 0.230 | 0 | .05 | 91.9 | 20-142 | L546475-05 | WG565706 | |
| Total Xylene | mg/kg | 0.616 | 0 | .15 | 82.1 | 16-141 | L546475-05 | WG565706 | |
| a,a,a-Trifluorotoluene(PID) | | | | | 96.78 | 54-144 | | WG565706 | |
| TPH (GC/FID) Low Fraction | mg/kg | 29.5 | 0 | 5.5 | 107. | 55-109 | L546475-05 | WG565706 | |
| a,a,a-Trifluorotoluene(FID) | | | | | 103.0 | 59-128 | | WG565706 | |
| Arsenic | mg/kg | 40.4 | 0 | 50 | 80.8 | 75-125 | L546195-05 | WG565475 | |
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November 17, 2011

| Analyte | Units | MS Res | Matrix Spike | | % Rec | Limit | Ref Samp | Batch |
|---------------------|-------|--------|--------------|----|-------|--------|------------|----------|
| | | | Ref Res | TV | | | | |
| Chromium,Hexavalent | mg/kg | 86.0 | 0 | 20 | 8.60* | 50-150 | L546197-01 | WG565584 |
| Arsenic | mg/kg | 59.4 | 0 | 10 | 119. | 75-125 | L545395-11 | WG565603 |
| Barium | mg/kg | 271. | 220. | 10 | 102. | 75-125 | L545395-11 | WG565603 |
| Cadmium | mg/kg | 89.2 | 25.0 | 10 | 128.* | 75-125 | L545395-11 | WG565603 |
| Chromium | mg/kg | 493. | 660. | 10 | 0* | 75-125 | L545395-11 | WG565603 |
| Copper | mg/kg | 260. | 171. | 50 | 35.6* | 75-125 | L545395-11 | WG565603 |
| Lead | mg/kg | 1940 | 1500 | 10 | 880.* | 75-125 | L545395-11 | WG565603 |
| Nickel | mg/kg | 116. | 75.9 | 50 | 16.0* | 75-125 | L545395-11 | WG565603 |
| Selenium | mg/kg | 52.7 | 7.80 | 10 | 89.8 | 75-125 | L545395-11 | WG565603 |
| Silver | mg/kg | 64.6 | 6.40 | 10 | 116. | 75-125 | L545395-11 | WG565603 |
| Zinc | mg/kg | 3920 | 3100 | 50 | 328.* | 75-125 | L545395-11 | WG565603 |

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|------------------------|-------|--------|-------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| Benzene | mg/kg | 0.186 | 0.206 | 71.9 | 32-137 | 10.3 | 39 | L546089-01 | WG565378 |
| Ethylbenzene | mg/kg | 0.188 | 0.213 | 75.1 | 10-150 | 12.5 | 44 | L546089-01 | WG565378 |
| Toluene | mg/kg | 0.196 | 0.223 | 78.4 | 20-142 | 13.0 | 42 | L546089-01 | WG565378 |
| Total Xylene | mg/kg | 0.562 | 0.640 | 74.9 | 16-141 | 13.1 | 46 | L546089-01 | WG565378 |
| a,a,a-Trifluorotoluene(PID) | | | | 86.40 | 54-144 | | | | WG565378 |
| TPH (GC/FID) Low Fraction | mg/kg | 21.4 | 22.3 | 77.7 | 55-109 | 4.10 | 20 | L546089-01 | WG565378 |
| a,a,a-Trifluorotoluene(FID) | | | | 100.1 | 59-128 | | | | WG565378 |
| TPH (GC/FID) High Fraction | ppm | 63.2 | 63.3 | 60.2 | 50-150 | 0.239 | 20 | L546195-02 | WG565102 |
| o-Terphenyl | | | | 60.66 | 50-150 | | | | WG565102 |
| Mercury | mg/kg | 0.307 | 0.269 | 102. | 70-130 | 13.2 | 20 | L546095-05 | WG565114 |
| 1-Methylnaphthalene | mg/kg | 0.0266 | 0.0249 | 80.7 | 25-155 | 6.89 | 27 | L546248-02 | WG565106 |
| 2-Chloronaphthalene | mg/kg | 0.0257 | 0.0253 | 77.9 | 31-153 | 1.60 | 22 | L546248-02 | WG565106 |
| 2-Methylnaphthalene | mg/kg | 0.0286 | 0.0266 | 84.3 | 22-172 | 7.31 | 29 | L546248-02 | WG565106 |
| Acenaphthene | mg/kg | 0.0273 | 0.0230 | 82.6 | 43-133 | 17.0 | 26 | L546248-02 | WG565106 |
| Acenaphthylene | mg/kg | 0.0279 | 0.0250 | 84.6 | 42-146 | 11.2 | 22 | L546248-02 | WG565106 |
| Anthracene | mg/kg | 0.0288 | 0.0266 | 87.2 | 38-153 | 7.98 | 27 | L546248-02 | WG565106 |
| Benzo(a)anthracene | mg/kg | 0.0267 | 0.0264 | 80.9 | 31-142 | 1.12 | 31 | L546248-02 | WG565106 |
| Benzo(a)pyrene | mg/kg | 0.0295 | 0.0290 | 89.5 | 26-152 | 1.87 | 32 | L546248-02 | WG565106 |
| Benzo(b)fluoranthene | mg/kg | 0.0377 | 0.0333 | 111. | 10-188 | 12.3 | 33 | L546248-02 | WG565106 |
| Benzo(g,h,i)perylene | mg/kg | 0.0139 | 0.0137 | 35.8 | 10-176 | 1.84 | 30 | L546248-02 | WG565106 |
| Benzo(k)fluoranthene | mg/kg | 0.0354 | 0.0325 | 107. | 22-163 | 8.74 | 29 | L546248-02 | WG565106 |
| Chrysene | mg/kg | 0.0261 | 0.0255 | 79.2 | 26-146 | 2.52 | 30 | L546248-02 | WG565106 |
| Dibenz(a,h)anthracene | mg/kg | 0.0128 | 0.0133 | 38.9 | 10-160 | 3.49 | 39 | L546248-02 | WG565106 |
| Fluoranthene | mg/kg | 0.0335 | 0.0301 | 102. | 23-160 | 10.8 | 22 | L546248-02 | WG565106 |
| Fluorene | mg/kg | 0.0275 | 0.0252 | 83.4 | 44-143 | 8.79 | 23 | L546248-02 | WG565106 |
| Indeno(1,2,3-cd)pyrene | mg/kg | 0.0124 | 0.0130 | 37.6 | 10-157 | 4.44 | 40 | L546248-02 | WG565106 |
| Naphthalene | mg/kg | 0.0256 | 0.0247 | 77.6 | 22-156 | 3.41 | 27 | L546248-02 | WG565106 |
| Phenanthrene | mg/kg | 0.0279 | 0.0263 | 81.9 | 23-164 | 6.08 | 25 | L546248-02 | WG565106 |
| Pyrene | mg/kg | 0.0305 | 0.0269 | 92.4 | 12-170 | 12.4 | 24 | L546248-02 | WG565106 |
| 2-Fluorobiphenyl | | | | 82.56 | 34-129 | | | | WG565106 |
| Nitrobenzene-d5 | | | | 92.11 | 14-141 | | | | WG565106 |
| p-Terphenyl-d14 | | | | 134.5 | 25-139 | | | | WG565106 |
| Benzene | mg/kg | 0.229 | 0.209 | 91.5 | 32-137 | 8.85 | 39 | L546475-05 | WG565706 |
| Ethylbenzene | mg/kg | 0.236 | 0.214 | 94.3 | 10-150 | 9.71 | 44 | L546475-05 | WG565706 |

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Kate Ramsay
744 Horizon Ct., Suite 140

Grand Junction, CO 81506

Quality Assurance Report
Level II

L546195

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

November 17, 2011

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|-------|------------------------|-------|--------|-------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| Toluene | mg/kg | 0.253 | 0.230 | 101. | 20-142 | 9.73 | 42 | L546475-05 | WG565706 |
| Total Xylene | mg/kg | 0.675 | 0.616 | 90.0 | 16-141 | 9.24 | 46 | L546475-05 | WG565706 |
| a,a,a-Trifluorotoluene(PID) | | | | 99.02 | 54-144 | | | | WG565706 |
| TPH (GC/FID) Low Fraction | mg/kg | 27.7 | 29.5 | 101. | 55-109 | 6.02 | 20 | L546475-05 | WG565706 |
| a,a,a-Trifluorotoluene(FID) | | | | 102.0 | 59-128 | | | | WG565706 |
| Arsenic | mg/kg | 41.6 | 40.4 | 83.2 | 75-125 | 2.93 | 20 | L546195-05 | WG565475 |
| Chromium,Hexavalent | mg/kg | 133. | 86.0 | 13.3* | 50-150 | 42.9* | 20 | L546197-01 | WG565584 |
| Arsenic | mg/kg | 57.7 | 59.4 | 115. | 75-125 | 2.90 | 20 | L545395-11 | WG565603 |
| Barium | mg/kg | 339. | 271. | 238.* | 75-125 | 22.3* | 20 | L545395-11 | WG565603 |
| Cadmium | mg/kg | 78.0 | 89.2 | 106. | 75-125 | 13.4 | 20 | L545395-11 | WG565603 |
| Chromium | mg/kg | 499. | 493. | 0* | 75-125 | 1.21 | 20 | L545395-11 | WG565603 |
| Copper | mg/kg | 225. | 260. | 21.6* | 75-125 | 14.4 | 20 | L545395-11 | WG565603 |
| Lead | mg/kg | 1460 | 1940 | 0* | 75-125 | 28.2* | 20 | L545395-11 | WG565603 |
| Nickel | mg/kg | 88.9 | 116. | 5.20* | 75-125 | 26.5* | 20 | L545395-11 | WG565603 |
| Selenium | mg/kg | 46.7 | 52.7 | 77.8 | 75-125 | 12.1 | 20 | L545395-11 | WG565603 |
| Silver | mg/kg | 58.6 | 64.6 | 104. | 75-125 | 9.74 | 20 | L545395-11 | WG565603 |
| Zinc | mg/kg | 3180 | 3920 | 32.0* | 75-125 | 20.8* | 20 | L545395-11 | WG565603 |

Batch number /Run number / Sample number cross reference

WG565090: R1928893: L546195-01
WG565378: R1929860: L546195-04
WG565079: R1930032: L546195-01
WG565102: R1930052: L546195-01 02 03 04
WG565114: R1930176: L546195-01
WG565106: R1930692: L546195-01
WG565675: R1932493: L546195-01
WG565706: R1932772: L546195-01 02 03
WG565475: R1933132: L546195-05 06 07 08 09
WG565584: R1933994: L546195-01
WG565800: R1934153: L546195-01
WG565603: R1934654: L546195-01

* * 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

HRL Compliance Solutions- CO
Kate Ramsay
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November 17, 2011

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

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

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

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



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Est. 1970

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Report Summary

Monday September 10, 2012

Report Number: L592665

Samples Received: 08/30/12

Client Project: 033412042

Description: Encana Rangely Assessment

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 - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, 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.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

REPORT OF ANALYSIS

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

September 10, 2012

Date Received : August 30, 2012
Description : Encana Rangely Assessment
Sample ID : 1321-CB01-082712 24-25.5 FT
Collected By : Mike Unger
Collection Date : 08/27/12 16:50

ESC Sample # : L592665-01

Site ID :

Project # : 033412042

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 08/31/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 94.2 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 99.6 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) High Fraction | 6.7 | 4.0 | mg/kg | 3546/DRO | 09/06/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 61.1 | | % Rec. | 3546/DRO | 09/06/12 | 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: 09/10/12 10:46 Printed: 09/10/12 10:46

REPORT OF ANALYSIS

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

September 10, 2012

Date Received : August 30, 2012
Description : Encana Rangely Assessment
Sample ID : 1321-CB01-082712 26-26.5 FT
Collected By : Mike Unger
Collection Date : 08/27/12 17:10

ESC Sample # : L592665-02

Site ID :

Project # : 033412042

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 08/31/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 93.9 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 99.3 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) High Fraction | 10. | 4.0 | mg/kg | 3546/DRO | 09/06/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 59.0 | | % Rec. | 3546/DRO | 09/06/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

September 10, 2012

Date Received : August 30, 2012
Description : Encana Rangely Assessment
Sample ID : 1321-CB02-082812 4-4.5 FT
Collected By : Mike Unger
Collection Date : 08/28/12 08:00

ESC Sample # : L592665-03

Site ID :

Project # : 033412042

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 08/31/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 94.3 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 99.5 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) High Fraction | BDL | 4.0 | mg/kg | 3546/DRO | 09/06/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 55.8 | | % Rec. | 3546/DRO | 09/06/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 09/10/12 10:46 Printed: 09/10/12 10:46

REPORT OF ANALYSIS

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

September 10, 2012

Date Received : August 30, 2012
Description : Encana Rangely Assessment
Sample ID : 1321-CB03-082812 24-26 FT
Collected By : Mike Unger
Collection Date : 08/28/12 09:10

ESC Sample # : L592665-04

Site ID :

Project # : 033412042

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 08/31/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 94.1 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 99.6 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) High Fraction | BDL | 4.0 | mg/kg | 3546/DRO | 09/06/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 56.7 | | % Rec. | 3546/DRO | 09/06/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

September 10, 2012

Date Received : August 30, 2012
Description : Encana Rangely Assessment
Sample ID : 1305-CB01-082812 25-26 FT
Collected By : Mike Unger
Collection Date : 08/28/12 13:55

ESC Sample # : L592665-05

Site ID :

Project # : 033412042

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.25 | mg/kg | 8021/8015 | 08/31/12 | 500 |
| Toluene | BDL | 2.5 | mg/kg | 8021/8015 | 08/31/12 | 500 |
| Ethylbenzene | 1.6 | 0.25 | mg/kg | 8021/8015 | 08/31/12 | 500 |
| Total Xylene | 9.9 | 0.75 | mg/kg | 8021/8015 | 08/31/12 | 500 |
| TPH (GC/FID) Low Fraction | 210 | 50. | mg/kg | GRO | 08/31/12 | 500 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 95.0 | | % Rec. | 8021/8015 | 08/31/12 | 500 |
| a,a,a-Trifluorotoluene(PID) | 100. | | % Rec. | 8021/8015 | 08/31/12 | 500 |
| TPH (GC/FID) High Fraction | 70. | 4.0 | mg/kg | 3546/DRO | 09/07/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 59.9 | | % Rec. | 3546/DRO | 09/07/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

September 10, 2012

Date Received : August 30, 2012
Description : Encana Rangely Assessment
Sample ID : 1305-CB01-082812 34-34.5 FT
Collected By : Mike Unger
Collection Date : 08/28/12 16:45

ESC Sample # : L592665-06

Site ID :

Project # : 033412042

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | 0.14 | 0.025 | mg/kg | 8021/8015 | 09/04/12 | 50 |
| Toluene | 2.1 | 0.25 | mg/kg | 8021/8015 | 09/04/12 | 50 |
| Ethylbenzene | 0.64 | 0.025 | mg/kg | 8021/8015 | 09/04/12 | 50 |
| Total Xylene | 6.4 | 0.075 | mg/kg | 8021/8015 | 09/04/12 | 50 |
| TPH (GC/FID) Low Fraction | 54. | 5.0 | mg/kg | GRO | 09/04/12 | 50 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 96.5 | | % Rec. | 8021/8015 | 09/04/12 | 50 |
| a,a,a-Trifluorotoluene(PID) | 102. | | % Rec. | 8021/8015 | 09/04/12 | 50 |
| TPH (GC/FID) High Fraction | 9.9 | 4.0 | mg/kg | 3546/DRO | 09/07/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 55.2 | | % Rec. | 3546/DRO | 09/07/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 09/10/12 10:46 Printed: 09/10/12 10:46

REPORT OF ANALYSIS

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

September 10, 2012

Date Received : August 30, 2012
Description : Encana Rangely Assessment
Sample ID : 1305-CB02-082912 34-34.5 FT
Collected By : Mike Unger
Collection Date : 08/29/12 09:30

ESC Sample # : L592665-07

Site ID :

Project # : 033412042

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | 0.29 | 0.025 | mg/kg | 8021/8015 | 09/04/12 | 50 |
| Toluene | 2.3 | 0.25 | mg/kg | 8021/8015 | 09/04/12 | 50 |
| Ethylbenzene | 0.77 | 0.025 | mg/kg | 8021/8015 | 09/04/12 | 50 |
| Total Xylene | 5.8 | 0.075 | mg/kg | 8021/8015 | 09/04/12 | 50 |
| TPH (GC/FID) Low Fraction | 83. | 5.0 | mg/kg | GRO | 09/04/12 | 50 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 96.6 | | % Rec. | 8021/8015 | 09/04/12 | 50 |
| a,a,a-Trifluorotoluene(PID) | 102. | | % Rec. | 8021/8015 | 09/04/12 | 50 |
| TPH (GC/FID) High Fraction | 48. | 4.0 | mg/kg | 3546/DRO | 09/07/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 99.9 | | % Rec. | 3546/DRO | 09/07/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Reported: 09/10/12 10:46 Printed: 09/10/12 10:46

REPORT OF ANALYSIS

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

September 10, 2012

Date Received : August 30, 2012
Description : Encana Rangely Assessment
Sample ID : 1305-CB03-082912 34-34.5 FT
Collected By : Mike Unger
Collection Date : 08/29/12 11:40

ESC Sample # : L592665-08

Site ID :

Project # : 033412042

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 08/31/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 93.9 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 97.4 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) High Fraction | BDL | 4.0 | mg/kg | 3546/DRO | 09/07/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 59.4 | | % Rec. | 3546/DRO | 09/07/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 09/10/12 10:46 Printed: 09/10/12 10:46

REPORT OF ANALYSIS

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

September 10, 2012

Date Received : August 30, 2012
Description : Encana Rangely Assessment
Sample ID : 1305-CB04-082912 33.5-34 FT
Collected By : Mike Unger
Collection Date : 08/29/12 14:55

ESC Sample # : L592665-09

Site ID :

Project # : 033412042

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| Total Xylene | 0.0078 | 0.0075 | mg/kg | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 08/31/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 92.4 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 96.2 | | % Rec. | 8021/8015 | 08/31/12 | 5 |
| TPH (GC/FID) High Fraction | BDL | 4.0 | mg/kg | 3546/DRO | 09/07/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 72.3 | | % Rec. | 3546/DRO | 09/07/12 | 1 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 09/10/12 10:46 Printed: 09/10/12 10:46

Summary of Remarks For Samples Printed
09/10/12 at 10:46:38

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L592665-01 Account: ENCANRCO Received: 08/30/12 09:00 Due Date: 09/07/12 00:00 RPT Date: 09/10/12 10:46
Change sample IDs per CM. Changed "CS" to "CB". jw 9/7
Sample: L592665-02 Account: ENCANRCO Received: 08/30/12 09:00 Due Date: 09/07/12 00:00 RPT Date: 09/10/12 10:46
Sample: L592665-03 Account: ENCANRCO Received: 08/30/12 09:00 Due Date: 09/07/12 00:00 RPT Date: 09/10/12 10:46
Sample: L592665-04 Account: ENCANRCO Received: 08/30/12 09:00 Due Date: 09/07/12 00:00 RPT Date: 09/10/12 10:46
Sample: L592665-05 Account: ENCANRCO Received: 08/30/12 09:00 Due Date: 09/07/12 00:00 RPT Date: 09/10/12 10:46
Sample: L592665-06 Account: ENCANRCO Received: 08/30/12 09:00 Due Date: 09/07/12 00:00 RPT Date: 09/10/12 10:46
Sample: L592665-07 Account: ENCANRCO Received: 08/30/12 09:00 Due Date: 09/07/12 00:00 RPT Date: 09/10/12 10:46
Sample: L592665-08 Account: ENCANRCO Received: 08/30/12 09:00 Due Date: 09/07/12 00:00 RPT Date: 09/10/12 10:46
Sample: L592665-09 Account: ENCANRCO Received: 08/30/12 09:00 Due Date: 09/07/12 00:00 RPT Date: 09/10/12 10:46



YOUR LAB OF CHOICE

EnCana Oil & Gas - Rangely, CO
Blake Ford
1125 Escalante Drive

Rangely, CO 81648-3600

Quality Assurance Report
Level II

L592665

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

September 10, 2012

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|---------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| Benzene | < .0005 | mg/kg | | | WG610407 | 08/31/12 07:34 |
| Ethylbenzene | < .0005 | mg/kg | | | WG610407 | 08/31/12 07:34 |
| Toluene | < .005 | mg/kg | | | WG610407 | 08/31/12 07:34 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG610407 | 08/31/12 07:34 |
| Total Xylene | < .0015 | mg/kg | | | WG610407 | 08/31/12 07:34 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 94.87 | 59-128 | WG610407 | 08/31/12 07:34 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 100.1 | 54-144 | WG610407 | 08/31/12 07:34 |
| Benzene | < .0005 | mg/kg | | | WG610428 | 08/31/12 08:35 |
| Ethylbenzene | < .0005 | mg/kg | | | WG610428 | 08/31/12 08:35 |
| Toluene | < .005 | mg/kg | | | WG610428 | 08/31/12 08:35 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG610428 | 08/31/12 08:35 |
| Total Xylene | < .0015 | mg/kg | | | WG610428 | 08/31/12 08:35 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 93.23 | 59-128 | WG610428 | 08/31/12 08:35 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 96.95 | 54-144 | WG610428 | 08/31/12 08:35 |
| Benzene | < .0005 | mg/kg | | | WG610890 | 09/04/12 13:40 |
| Ethylbenzene | < .0005 | mg/kg | | | WG610890 | 09/04/12 13:40 |
| Toluene | < .005 | mg/kg | | | WG610890 | 09/04/12 13:40 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG610890 | 09/04/12 13:40 |
| Total Xylene | < .0015 | mg/kg | | | WG610890 | 09/04/12 13:40 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 96.59 | 59-128 | WG610890 | 09/04/12 13:40 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 101.4 | 54-144 | WG610890 | 09/04/12 13:40 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG610430 | 09/06/12 08:30 |
| o-Terphenyl | | % Rec. | 62.78 | 50-150 | WG610430 | 09/06/12 08:30 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG610431 | 09/07/12 08:47 |
| o-Terphenyl | | % Rec. | 54.55 | 50-150 | WG610431 | 09/07/12 08:47 |
| TPH (GC/FID) High Fraction | < 4 | ppm | | | WG611088 | 09/07/12 13:41 |
| o-Terphenyl | | % Rec. | 63.62 | 50-150 | WG611088 | 09/07/12 13:41 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| Benzene | mg/kg | .05 | 0.0448 | 89.5 | 76-113 | WG610407 |
| Ethylbenzene | mg/kg | .05 | 0.0542 | 108. | 78-115 | WG610407 |
| Toluene | mg/kg | .05 | 0.0516 | 103. | 76-114 | WG610407 |
| Total Xylene | mg/kg | .15 | 0.161 | 107. | 81-118 | WG610407 |
| a,a,a-Trifluorotoluene(PID) | | | | 99.74 | 54-144 | WG610407 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.62 | 102. | 67-135 | WG610407 |
| a,a,a-Trifluorotoluene(FID) | | | | 101.4 | 59-128 | WG610407 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 6.71 | 122. | 67-135 | WG610428 |
| a,a,a-Trifluorotoluene(FID) | | | | 99.88 | 59-128 | WG610428 |
| Benzene | mg/kg | .05 | 0.0465 | 92.9 | 76-113 | WG610428 |
| Ethylbenzene | mg/kg | .05 | 0.0483 | 96.7 | 78-115 | WG610428 |
| Toluene | mg/kg | .05 | 0.0479 | 95.8 | 76-114 | WG610428 |
| Total Xylene | mg/kg | .15 | 0.142 | 94.5 | 81-118 | WG610428 |
| a,a,a-Trifluorotoluene(PID) | | | | 98.08 | 54-144 | WG610428 |

* 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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September 10, 2012

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| Benzene | mg/kg | .05 | 0.0498 | 99.7 | 76-113 | WG610890 |
| Ethylbenzene | mg/kg | .05 | 0.0548 | 110. | 78-115 | WG610890 |
| Toluene | mg/kg | .05 | 0.0539 | 108. | 76-114 | WG610890 |
| Total Xylene | mg/kg | .15 | 0.163 | 109. | 81-118 | WG610890 |
| a,a,a-Trifluorotoluene(PID) | | | | 100.8 | 54-144 | WG610890 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.67 | 103. | 67-135 | WG610890 |
| a,a,a-Trifluorotoluene(FID) | | | | 102.8 | 59-128 | WG610890 |
| TPH (GC/FID) High Fraction | ppm | 60 | 45.5 | 75.8 | 50-150 | WG610430 |
| o-Terphenyl | | | | 63.20 | 50-150 | WG610430 |
| TPH (GC/FID) High Fraction | ppm | 60 | 40.6 | 67.7 | 50-150 | WG610431 |
| o-Terphenyl | | | | 55.49 | 50-150 | WG610431 |
| TPH (GC/FID) High Fraction | ppm | 60 | 43.5 | 72.5 | 50-150 | WG611088 |
| o-Terphenyl | | | | 54.27 | 50-150 | WG611088 |

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|--------|-------|--------|--------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| Benzene | mg/kg | 0.0447 | 0.0448 | 89.0 | 76-113 | 0.0500 | 20 | WG610407 |
| Ethylbenzene | mg/kg | 0.0548 | 0.0542 | 110. | 78-115 | 1.15 | 20 | WG610407 |
| Toluene | mg/kg | 0.0513 | 0.0516 | 103. | 76-114 | 0.470 | 20 | WG610407 |
| Total Xylene | mg/kg | 0.162 | 0.161 | 108. | 81-118 | 0.330 | 20 | WG610407 |
| a,a,a-Trifluorotoluene(PID) | | | | 100.1 | 54-144 | | | WG610407 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.60 | 5.62 | 102. | 67-135 | 0.300 | 20 | WG610407 |
| a,a,a-Trifluorotoluene(FID) | | | | 101.0 | 59-128 | | | WG610407 |
| TPH (GC/FID) Low Fraction | mg/kg | 6.20 | 6.71 | 113. | 67-135 | 7.91 | 20 | WG610428 |
| a,a,a-Trifluorotoluene(FID) | | | | 97.59 | 59-128 | | | WG610428 |
| Benzene | mg/kg | 0.0475 | 0.0465 | 95.0 | 76-113 | 2.29 | 20 | WG610428 |
| Ethylbenzene | mg/kg | 0.0497 | 0.0483 | 99.0 | 78-115 | 2.82 | 20 | WG610428 |
| Toluene | mg/kg | 0.0477 | 0.0479 | 95.0 | 76-114 | 0.420 | 20 | WG610428 |
| Total Xylene | mg/kg | 0.145 | 0.142 | 96.0 | 81-118 | 1.96 | 20 | WG610428 |
| a,a,a-Trifluorotoluene(PID) | | | | 96.39 | 54-144 | | | WG610428 |
| Benzene | mg/kg | 0.0503 | 0.0498 | 101. | 76-113 | 0.980 | 20 | WG610890 |
| Ethylbenzene | mg/kg | 0.0552 | 0.0548 | 110. | 78-115 | 0.720 | 20 | WG610890 |
| Toluene | mg/kg | 0.0539 | 0.0539 | 108. | 76-114 | 0.0400 | 20 | WG610890 |
| Total Xylene | mg/kg | 0.163 | 0.163 | 109. | 81-118 | 0.240 | 20 | WG610890 |
| a,a,a-Trifluorotoluene(PID) | | | | 101.3 | 54-144 | | | WG610890 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.78 | 5.67 | 105. | 67-135 | 1.89 | 20 | WG610890 |
| a,a,a-Trifluorotoluene(FID) | | | | 102.6 | 59-128 | | | WG610890 |
| TPH (GC/FID) High Fraction | ppm | 46.4 | 45.5 | 77.0 | 50-150 | 2.16 | 25 | WG610430 |
| o-Terphenyl | | | | 61.31 | 50-150 | | | WG610430 |
| TPH (GC/FID) High Fraction | ppm | 44.5 | 40.6 | 74.0 | 50-150 | 9.19 | 20 | WG610431 |
| o-Terphenyl | | | | 62.21 | 50-150 | | | WG610431 |
| TPH (GC/FID) High Fraction | ppm | 48.2 | 43.5 | 80.0 | 50-150 | 10.2 | 23 | WG611088 |

* Performance of this Analyte is outside of established criteria.

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Est. 1970

September 10, 2012

| Analyte | Units | MS Res | Matrix Spike | | % Rec | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------|--------------|-------|-------|--------|------------|----------|
| | | | Ref Res | TV | | | | |
| o-Terphenyl | | | | 62.22 | | 50-150 | | |
| Analyte | Units | MS Res | Matrix Spike | | % Rec | Limit | Ref Samp | Batch |
| | | | Ref Res | TV | | | | |
| Benzene | mg/kg | 0.215 | 0 | .05 | 85.9 | 32-137 | L592650-02 | WG610407 |
| Ethylbenzene | mg/kg | 0.260 | 0 | .05 | 104. | 10-150 | L592650-02 | WG610407 |
| Toluene | mg/kg | 0.256 | 0 | .05 | 102. | 20-142 | L592650-02 | WG610407 |
| Total Xylene | mg/kg | 0.770 | 0 | .15 | 103. | 16-141 | L592650-02 | WG610407 |
| a,a,a-Trifluorotoluene(PID) | | | | | 100.9 | 54-144 | | WG610407 |
| TPH (GC/FID) Low Fraction | mg/kg | 24.8 | 0 | 5.5 | 90.0 | 55-109 | L592650-02 | WG610407 |
| a,a,a-Trifluorotoluene(FID) | | | | | 100.1 | 59-128 | | WG610407 |
| Benzene | mg/kg | 0.212 | 0 | .05 | 84.8 | 32-137 | L592665-08 | WG610428 |
| Ethylbenzene | mg/kg | 0.247 | 0 | .05 | 98.6 | 10-150 | L592665-08 | WG610428 |
| Toluene | mg/kg | 0.236 | 0 | .05 | 94.2 | 20-142 | L592665-08 | WG610428 |
| Total Xylene | mg/kg | 0.715 | 0 | .15 | 95.4 | 16-141 | L592665-08 | WG610428 |
| a,a,a-Trifluorotoluene(PID) | | | | | 96.87 | 54-144 | | WG610428 |
| TPH (GC/FID) Low Fraction | mg/kg | 23.1 | 0 | 5.5 | 84.0 | 55-109 | L592665-08 | WG610428 |
| a,a,a-Trifluorotoluene(FID) | | | | | 94.90 | 59-128 | | WG610428 |
| Benzene | mg/kg | 0.246 | 0.0210 | .05 | 90.0 | 32-137 | L593087-03 | WG610890 |
| Ethylbenzene | mg/kg | 0.269 | 0.0980 | .05 | 68.2 | 10-150 | L593087-03 | WG610890 |
| Toluene | mg/kg | 0.273 | 0.0460 | .05 | 91.0 | 20-142 | L593087-03 | WG610890 |
| Total Xylene | mg/kg | 0.796 | 0.140 | .15 | 87.5 | 16-141 | L593087-03 | WG610890 |
| a,a,a-Trifluorotoluene(PID) | | | | | 101.5 | 54-144 | | WG610890 |
| TPH (GC/FID) Low Fraction | mg/kg | 25.6 | 21.8 | 5.5 | 13.6* | 55-109 | L593087-03 | WG610890 |
| a,a,a-Trifluorotoluene(FID) | | | | | 101.5 | 59-128 | | WG610890 |
| TPH (GC/FID) High Fraction | ppm | 48.3 | 0 | 60 | 80.4 | 50-150 | L592577-05 | WG610430 |
| o-Terphenyl | | | | | 64.34 | 50-150 | | WG610430 |
| TPH (GC/FID) High Fraction | ppm | 50.5 | 0 | 60 | 84.1 | 50-150 | L592665-09 | WG610431 |
| o-Terphenyl | | | | | 76.42 | 50-150 | | WG610431 |
| TPH (GC/FID) High Fraction | ppm | 43.6 | 0 | 60 | 72.7 | 50-150 | L593090-01 | WG611088 |
| o-Terphenyl | | | | | 54.76 | 50-150 | | WG611088 |

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|-------|------------------------|-------|--------|-------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| Benzene | mg/kg | 0.218 | 0.215 | 87.1 | 32-137 | 1.40 | 39 | L592650-02 | WG610407 |
| Ethylbenzene | mg/kg | 0.264 | 0.260 | 106. | 10-150 | 1.68 | 44 | L592650-02 | WG610407 |
| Toluene | mg/kg | 0.251 | 0.256 | 100. | 20-142 | 1.80 | 42 | L592650-02 | WG610407 |
| Total Xylene | mg/kg | 0.780 | 0.770 | 104. | 16-141 | 1.35 | 46 | L592650-02 | WG610407 |
| a,a,a-Trifluorotoluene(PID) | | | | 99.63 | 54-144 | | | | WG610407 |
| TPH (GC/FID) Low Fraction | mg/kg | 24.3 | 24.8 | 88.5 | 55-109 | 1.67 | 20 | L592650-02 | WG610407 |
| a,a,a-Trifluorotoluene(FID) | | | | 99.98 | 59-128 | | | | WG610407 |
| Benzene | mg/kg | 0.211 | 0.212 | 84.3 | 32-137 | 0.580 | 39 | L592665-08 | WG610428 |
| Ethylbenzene | mg/kg | 0.247 | 0.247 | 98.9 | 10-150 | 0.260 | 44 | L592665-08 | WG610428 |
| Toluene | mg/kg | 0.234 | 0.236 | 93.5 | 20-142 | 0.750 | 42 | L592665-08 | WG610428 |
| Total Xylene | mg/kg | 0.716 | 0.715 | 95.5 | 16-141 | 0.140 | 46 | L592665-08 | WG610428 |

* Performance of this Analyte is outside of established criteria.

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September 10, 2012

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref | Samp | Batch |
|-----------------------------|-------|-------|------------------------|-------|--------|------|-------|------------|------|----------|
| | | | Ref | %Rec | | | | | | |
| a,a,a-Trifluorotoluene(PID) | | | | 95.65 | 54-144 | | | | | |
| TPH (GC/FID) Low Fraction | mg/kg | 21.3 | 23.1 | 77.4 | 55-109 | 8.15 | 20 | L592665-08 | | WG610428 |
| a,a,a-Trifluorotoluene(FID) | | | | 94.17 | 59-128 | | | | | WG610428 |
| Benzene | mg/kg | 0.253 | 0.246 | 92.6 | 32-137 | 2.63 | 39 | L593087-03 | | WG610890 |
| Ethylbenzene | mg/kg | 0.280 | 0.269 | 72.8 | 10-150 | 4.21 | 44 | L593087-03 | | WG610890 |
| Toluene | mg/kg | 0.268 | 0.273 | 88.8 | 20-142 | 2.00 | 42 | L593087-03 | | WG610890 |
| Total Xylene | mg/kg | 0.817 | 0.796 | 90.2 | 16-141 | 2.60 | 46 | L593087-03 | | WG610890 |
| a,a,a-Trifluorotoluene(PID) | | | | 101.8 | 54-144 | | | | | WG610890 |
| TPH (GC/FID) Low Fraction | mg/kg | 27.9 | 25.6 | 22.1* | 55-109 | 8.81 | 20 | L593087-03 | | WG610890 |
| a,a,a-Trifluorotoluene(FID) | | | | 101.7 | 59-128 | | | | | WG610890 |
| TPH (GC/FID) High Fraction | ppm | 40.8 | 48.3 | 68.0 | 50-150 | 16.8 | 25 | L592577-05 | | WG610430 |
| o-Terphenyl | | | | 52.25 | 50-150 | | | | | WG610430 |
| TPH (GC/FID) High Fraction | ppm | 49.9 | 50.5 | 83.1 | 50-150 | 1.19 | 20 | L592665-09 | | WG610431 |
| o-Terphenyl | | | | 74.83 | 50-150 | | | | | WG610431 |
| TPH (GC/FID) High Fraction | ppm | 46.6 | 43.6 | 77.7 | 50-150 | 6.67 | 40 | L593090-01 | | WG611088 |
| o-Terphenyl | | | | 58.58 | 50-150 | | | | | WG611088 |

Batch number /Run number / Sample number cross reference

WG610407: R2325973: L592665-01 02 03 04 05
WG610428: R2327793: L592665-08 09
WG610890: R2328835: L592665-06 07
WG610430: R2331333: L592665-01 02 03 04
WG610431: R2333993: L592665-08 09
WG611088: R2335955: L592665-05 06 07

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

* Performance of this Analyte is outside of established criteria.

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September 10, 2012

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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Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Report Summary

Wednesday December 12, 2012

Report Number: L610223


Samples Received: 12/07/12

Client Project: 1305

Description: 1305 Pit Project

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

Entire Report Reviewed By:


Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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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

Blake Ford
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

December 12, 2012

Date Received : December 07, 2012
Description : 1305 Pit Project
Sample ID : 1305-SPOILS-120512
Collected By : Blake Ford
Collection Date : 12/05/12 15:22

ESC Sample # : L610223-01

Site ID : 1305

Project # : 1305

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|-----------------------------|--------|------------|--------|-----------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021/8015 | 12/12/12 | 5 |
| Toluene | BDL | 0.025 | mg/kg | 8021/8015 | 12/12/12 | 5 |
| Ethylbenzene | BDL | 0.0025 | mg/kg | 8021/8015 | 12/12/12 | 5 |
| Total Xylene | BDL | 0.0075 | mg/kg | 8021/8015 | 12/12/12 | 5 |
| TPH (GC/FID) Low Fraction | BDL | 0.50 | mg/kg | GRO | 12/12/12 | 5 |
| Surrogate Recovery-% | | | | | | |
| a,a,a-Trifluorotoluene(FID) | 94.8 | | % Rec. | 8021/8015 | 12/12/12 | 5 |
| a,a,a-Trifluorotoluene(PID) | 103. | | % Rec. | 8021/8015 | 12/12/12 | 5 |
| TPH (GC/FID) High Fraction | 7.8 | 4.0 | mg/kg | 3546/DRO | 12/12/12 | 1 |
| Surrogate recovery(%) | | | | | | |
| o-Terphenyl | 61.4 | | % Rec. | 3546/DRO | 12/12/12 | 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: 12/12/12 17:19 Printed: 12/12/12 17:19

Summary of Remarks For Samples Printed
12/12/12 at 17:19:56

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L610223-01 Account: ENCANRCO Received: 12/07/12 09:45 Due Date: 12/14/12 00:00 RPT Date: 12/12/12 17:19



YOUR LAB OF CHOICE

EnCana Oil & Gas - Rangely, CO
Blake Ford
1125 Escalante Drive

Rangely, CO 81648-3600

Quality Assurance Report
Level II

L610223

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

December 12, 2012

| Analyte | Result | Laboratory Blank | | Limit | Batch | Date Analyzed |
|-----------------------------|---------|------------------|-------|--------|----------|----------------|
| | | Units | % Rec | | | |
| TPH (GC/FID) High Fraction | < 4 | mg/kg | | | WG627431 | 12/11/12 21:17 |
| o-Terphenyl | | % Rec. | 66.90 | 50-150 | WG627431 | 12/11/12 21:17 |
| Benzene | < .0005 | mg/kg | | | WG627497 | 12/11/12 14:11 |
| Ethylbenzene | < .0005 | mg/kg | | | WG627497 | 12/11/12 14:11 |
| Toluene | < .005 | mg/kg | | | WG627497 | 12/11/12 14:11 |
| TPH (GC/FID) Low Fraction | < .1 | mg/kg | | | WG627497 | 12/11/12 14:11 |
| Total Xylene | < .0015 | mg/kg | | | WG627497 | 12/11/12 14:11 |
| a,a,a-Trifluorotoluene(FID) | | % Rec. | 96.30 | 59-128 | WG627497 | 12/11/12 14:11 |
| a,a,a-Trifluorotoluene(PID) | | % Rec. | 105.1 | 54-144 | WG627497 | 12/11/12 14:11 |

| Analyte | Units | Laboratory Control Sample | | % Rec | Limit | Batch |
|-----------------------------|-------|---------------------------|--------|-------|--------|----------|
| | | Known Val | Result | | | |
| TPH (GC/FID) High Fraction | mg/kg | 60 | 38.0 | 63.3 | 50-150 | WG627431 |
| o-Terphenyl | | | | 61.10 | 50-150 | WG627431 |
| Benzene | mg/kg | .05 | 0.0508 | 102. | 76-113 | WG627497 |
| Ethylbenzene | mg/kg | .05 | 0.0514 | 103. | 78-115 | WG627497 |
| Toluene | mg/kg | .05 | 0.0509 | 102. | 76-114 | WG627497 |
| Total Xylene | mg/kg | .15 | 0.150 | 100. | 81-118 | WG627497 |
| a,a,a-Trifluorotoluene(PID) | | | | 104.1 | 54-144 | WG627497 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.5 | 5.53 | 101. | 67-135 | WG627497 |
| a,a,a-Trifluorotoluene(FID) | | | | 102.1 | 59-128 | WG627497 |

| Analyte | Units | Laboratory Control Sample Duplicate | | | Limit | RPD | Limit | Batch |
|-----------------------------|-------|-------------------------------------|--------|-------|--------|------|-------|----------|
| | | Result | Ref | %Rec | | | | |
| TPH (GC/FID) High Fraction | mg/kg | 36.8 | 38.0 | 61.0 | 50-150 | 3.08 | 20 | WG627431 |
| o-Terphenyl | | | | 59.80 | 50-150 | | | WG627431 |
| Benzene | mg/kg | 0.0529 | 0.0508 | 106. | 76-113 | 3.93 | 20 | WG627497 |
| Ethylbenzene | mg/kg | 0.0535 | 0.0514 | 107. | 78-115 | 3.93 | 20 | WG627497 |
| Toluene | mg/kg | 0.0521 | 0.0509 | 104. | 76-114 | 2.24 | 20 | WG627497 |
| Total Xylene | mg/kg | 0.155 | 0.150 | 103. | 81-118 | 3.01 | 20 | WG627497 |
| a,a,a-Trifluorotoluene(PID) | | | | 104.2 | 54-144 | | | WG627497 |
| TPH (GC/FID) Low Fraction | mg/kg | 5.39 | 5.53 | 98.0 | 67-135 | 2.48 | 20 | WG627497 |
| a,a,a-Trifluorotoluene(FID) | | | | 101.3 | 59-128 | | | WG627497 |

| Analyte | Units | Matrix Spike | | | | Limit | Ref Samp | Batch |
|-----------------------------|-------|--------------|---------|-----|-------|--------|------------|----------|
| | | MS Res | Ref Res | TV | % Rec | | | |
| TPH (GC/FID) High Fraction | mg/kg | 224. | 220. | 60 | 7.08* | 50-150 | L610144-14 | WG627431 |
| o-Terphenyl | | | | | 58.30 | 50-150 | | WG627431 |
| Benzene | mg/kg | 0.153 | 0 | .05 | 61.2 | 32-137 | L610221-01 | WG627497 |
| Ethylbenzene | mg/kg | 0.146 | 0 | .05 | 58.3 | 10-150 | L610221-01 | WG627497 |
| Toluene | mg/kg | 0.158 | 0 | .05 | 63.1 | 20-142 | L610221-01 | WG627497 |
| Total Xylene | mg/kg | 0.441 | 0 | .15 | 58.8 | 16-141 | L610221-01 | WG627497 |
| a,a,a-Trifluorotoluene(PID) | | | | | 102.0 | 54-144 | | WG627497 |
| TPH (GC/FID) Low Fraction | mg/kg | 9.21 | 0 | 5.5 | 33.5* | 55-109 | L610221-01 | WG627497 |
| a,a,a-Trifluorotoluene(FID) | | | | | 95.39 | 59-128 | | WG627497 |

* 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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Blake Ford
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Rangely, CO 81648-3600

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Level II

L610223

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Est. 1970

December 12, 2012

| Analyte | Units | MSD | Matrix Spike Duplicate | | Limit | RPD | Limit | Ref Samp | Batch |
|-----------------------------|-------|-------|------------------------|-------|--------|------|-------|------------|----------|
| | | | Ref | %Rec | | | | | |
| TPH (GC/FID) High Fraction | mg/kg | 218. | 224. | 0* | 50-150 | 2.78 | 20 | L610144-14 | WG627431 |
| o-Terphenyl | | | | 62.10 | 50-150 | | | | WG627431 |
| Benzene | mg/kg | 0.130 | 0.153 | 52.0 | 32-137 | 16.2 | 39 | L610221-01 | WG627497 |
| Ethylbenzene | mg/kg | 0.106 | 0.146 | 42.4 | 10-150 | 31.5 | 44 | L610221-01 | WG627497 |
| Toluene | mg/kg | 0.116 | 0.158 | 46.2 | 20-142 | 30.9 | 42 | L610221-01 | WG627497 |
| Total Xylene | mg/kg | 0.315 | 0.441 | 42.0 | 16-141 | 33.5 | 46 | L610221-01 | WG627497 |
| a,a,a-Trifluorotoluene(PID) | | | | 103.8 | 54-144 | | | | WG627497 |
| TPH (GC/FID) Low Fraction | mg/kg | 7.68 | 9.21 | 27.9* | 55-109 | 18.1 | 20 | L610221-01 | WG627497 |
| a,a,a-Trifluorotoluene(FID) | | | | 93.30 | 59-128 | | | | WG627497 |

Batch number /Run number / Sample number cross reference

WG627431: R2473880: L610223-01

WG627497: R2474021: L610223-01

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

* Performance of this Analyte is outside of established criteria.

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December 12, 2012

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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Tax I.D. 62-0814289

Est. 1970

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

Report Summary

Wednesday August 28, 2013

Report Number: L654190


Samples Received: 08/27/13

Client Project: 033412042

Description: Rangley Site Assessment

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

Entire Report Reviewed By:


Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197,
FL - E87487, GA - 923, IN - C-IN-01, KY - 90010, KYUST - 0016,
NC - ENV375/DW21704/BIO041, ND - R-140, NJ - TN002, NJ NELAP - TN002,
SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612,
MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1,
TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364

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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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Est. 1970

REPORT OF ANALYSIS

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

August 28, 2013

Date Received : August 27, 2013
Description : Rangley Site Assessment
Sample ID : 082313-1305 (CB02) 34-34.5
Collected By : Dustin Held
Collection Date : 08/23/13 11:45

ESC Sample # : L654190-01

Site ID : 1305

Project # : 033412042

| Parameter | Result | Det. Limit | Units | Method | Date | Dil. |
|--|--------|------------|--------|--------|----------|------|
| Benzene | BDL | 0.0025 | mg/kg | 8021B | 08/28/13 | 5 |
| Surrogate Recovery(%) a,a,a-Trifluorotoluene(PID) | 99.9 | | % Rec. | 8021B | 08/28/13 | 5 |

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Reported: 08/28/13 13:44 Printed: 08/28/13 14:09

Summary of Remarks For Samples Printed
08/28/13 at 14:09:50

TSR Signing Reports: 358
R5 - Desired TAT

Log ALL samples for EDD (COGCC EDD). Log all PAHs as PAHSIM. DRO and DRO-SGT needed if TPH is listed twice on COC, one being TPH-GEL EXTRACT.

Sample: L654190-01 Account: ENCANACO Received: 08/27/13 09:30 Due Date: 09/04/13 00:00 RPT Date: 08/28/13 13:44