

NARRATIVE ATTACHMENT

FORM 4 (SUNDRY NOTICE)

Earthen Pit Closure (Hells Hole Canyon Unit #9112)

Document Date-8/15/2014

Introduction

Encana Oil & Gas (USA) Inc. (Encana) is submitting this Form 4 Sundry Notice to request final closure status for the earthen pit associated with the Hells Hole Canyon Unit #9112 (COGCC facility #335749, COGCC remediation #5560). The site investigation was conducted by a third party contractor as authorized by Encana personnel and in accordance with the approved Form 27 previously submitted for this location. All samples were collected in accordance with Encana's Environmental Compliance Group's Sampling Procedures. The analytical results for the respective soil samples are provided in the Table's and Attachment A of this submittal. The text below provides the details of the site investigation. For a visual description of the site please refer to Figures – Site Maps.

Assessment Activities

August 31, 2011 - The excavated soil surrounding the earthen pit was screened utilizing a photoionization detector (PID) prior to collecting soil samples for laboratory analysis. The excavation was limited on the north side due to proximity to equipment. Bedrock was encountered at approximately four (4) feet below ground surface. A grab sample was collected directly from the excavated soil from the pit with the highest PID reading (ie., spoils sample). The grab sample was submitted to the lab for analysis with regards to the COGCC Table 910-1 standards.

The excavation was approximately 20' x 20' x 4'. The associated spoils stockpile was approximately 50 cubic yards. The spoils stockpile was treated with a microbial product and mixed to facilitate natural attenuation. The excavation was fenced to promote site safety. The excavated spoil was stockpiled on location with a berm surrounding the pile to mitigate stormwater runoff from the pile.

Five (5) background samples were collected from approximately six (6) inches beneath the grounds surface for analysis with regards to arsenic.

Analytical Review

Sample results indicate that soil excavated from the earthen pit footprint on Encana's Hells Hole Canyon Unit #9112 well pad, had organic constituent concentrations of the excavated area below or within COGCC Table 910-1 except for Total Petroleum Hydrocarbons (TPH) (10,000 ppm), benzene (2.4 ppm), arsenic (4.5 ppm), and SAR (43). Though the arsenic concentration in the soil is above the allowable concentration identified in Table 910-1, the concentration is within the range of arsenic background values (3.2 – 4.5 ppm) in this area. Based on these results and footnote 1 to COGCC Table 910-1, Encana requests that the COGCC consider the higher range of background arsenic value(s) as the allowable concentration for this constituent. Please see Table 1 and Attachment A for the analytical results.

Though the elevated arsenic and SAR levels of the returned spoil material within the excavated footprint area are above the allowable levels identified in Table 910-1; it will be buried greater than three feet bgs of



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existing pad footprint material to assure that material with elevated levels of arsenic and SAR will have no adverse effect on future re-vegetation efforts and receptors in the area. Please see Tables and Attachments for analytical results.

The excavated material that exceeded COGCC Table 910-1 allowable concentration for TPH and benzene were landfarmed and amended with water, fertilizer, and turned. The excavated material (spoils) was re-sampled June 12, 2014 and the results are below or within allowable COGCC Table 910-1 concentrations.

Five (5) grab samples were collected from the excavated pit (each of 4 sidewalls and base) on June 12, 2014. These samples were analyzed for TPH and BTEX. The results indicated that all concentrations were below or within allowable Table 910-1 standards.

Conclusion

Based on the site investigation and analytical results, the earthen pit associated with the Hells Hole Canyon Unit #9112 is in compliance with the standards specified within COGCC Table 910-1. Encana respectfully requests that final closure be granted for the respective pit, COGCC remediation #5560.

Notification of Completion

This Sundry Notice is also being submitted as the Notification of Completion for Remediation #5560. If the information provided here is satisfactory, please provide documentation of the closure of this remediation project.

Attachments

- Topographic Location Map (Figure 1)
- Site Overview Map
- 9112 Aerial map with sample locations (Figure 2)
- 9112 Site Diagram of Excavation and sample locations (Figure 3)
- Attachment A- Earthen Pit Soil Concentration Table (HRL)
- Laboratory Results Summary Table 1 – 9112
- Attachment B – Laboratory Results

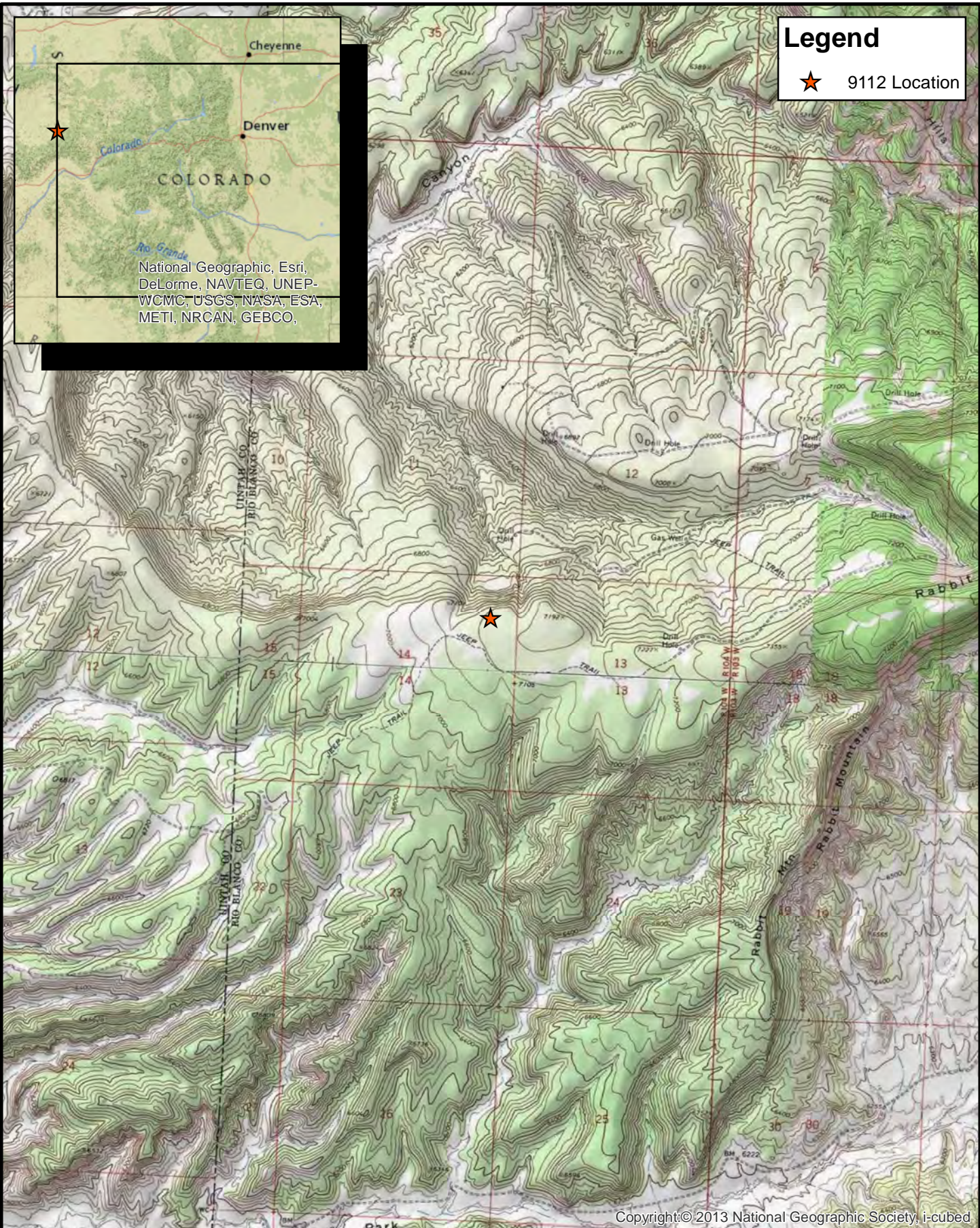




National Geographic, Esri,
DeLorme, NAVTEQ, UNEP-
WCMC, USGS, NASA, ESA,
METI, NRCAN, GEBCO,

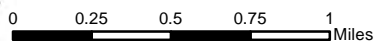
Legend

★ 9112 Location



Copyright: © 2013 National Geographic Society, i-cubed

Rule Engineering, LLC
Solutions to Regulations for Industry

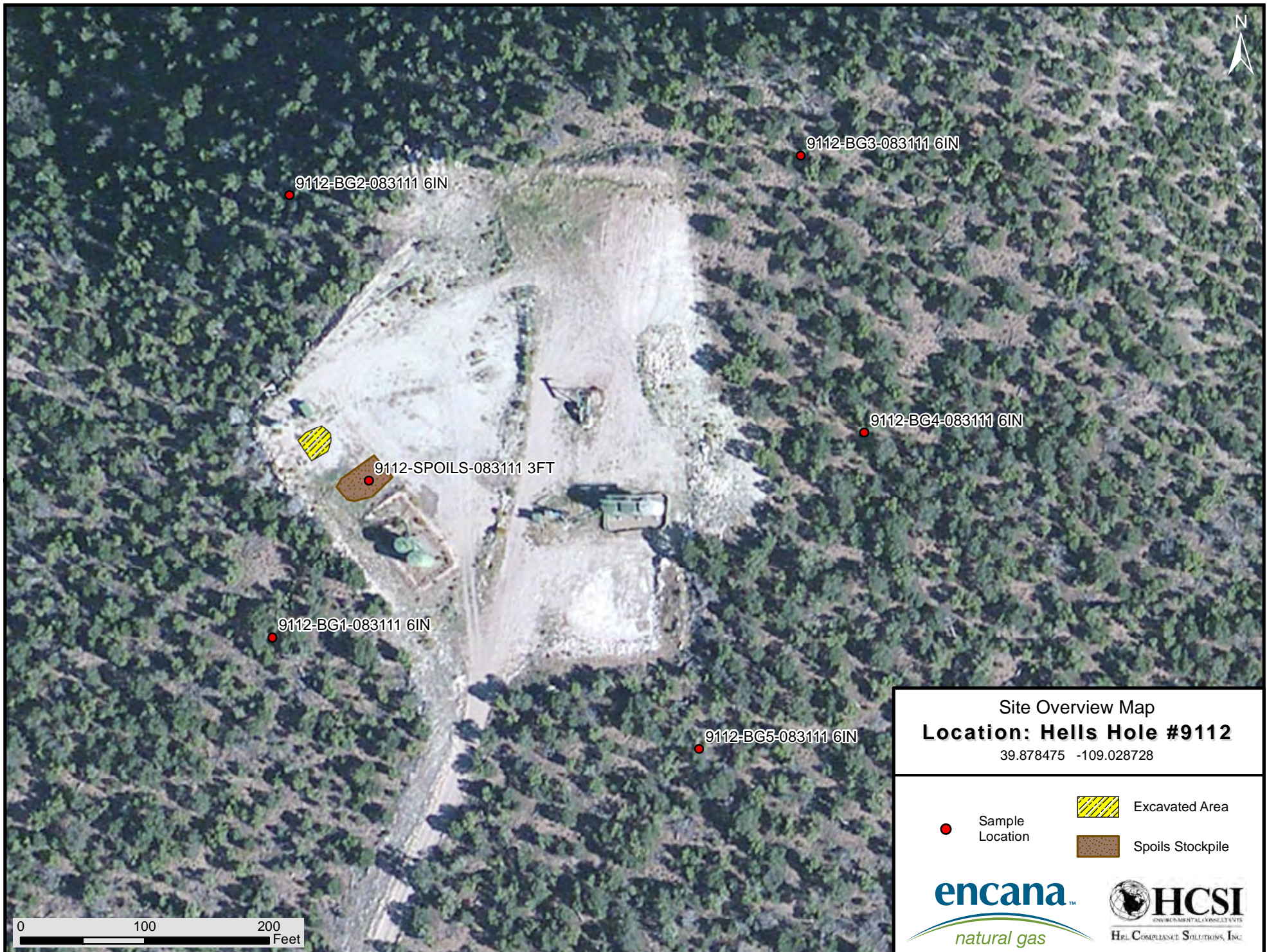


Location: 9112
QtrQtr, NENE Sec, 14 Twp, 2S Rng, 104W
Site Map

Date: 6/26/2014

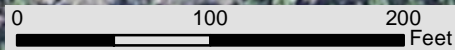
File:

Figure: 1



Site Overview Map
Location: Hells Hole #9112
 39.878475 -109.028728

- Sample Location
- Excavated Area
- Spoils Stockpile





Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

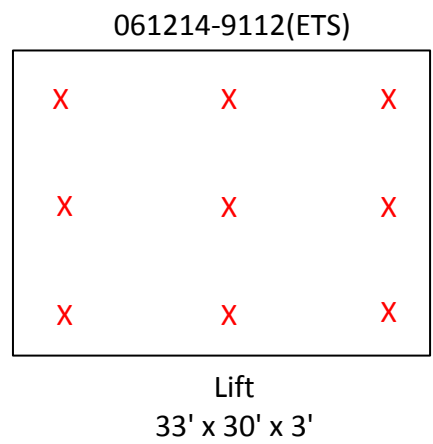
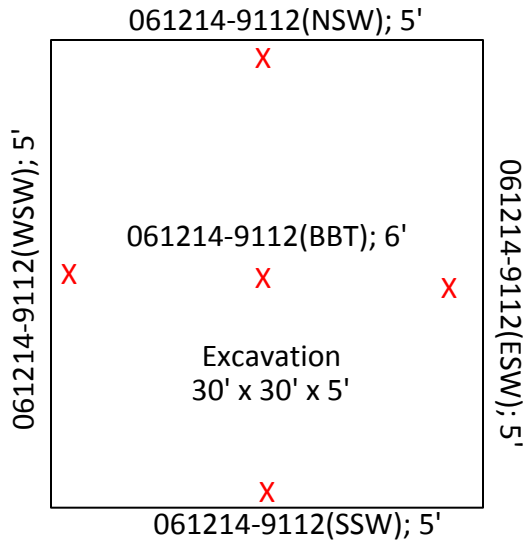
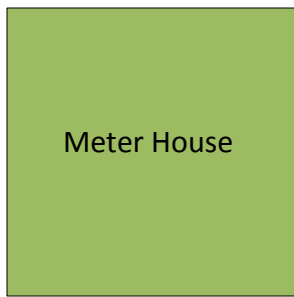
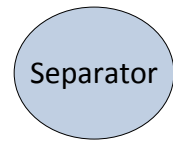
Legend

★ Soil Sample Location





Direction of Flow



Legend
X-Sample



Well: Figure 3. 9112 Site Diagram	
Area: Hells Hole Unit	
Legal: NENE, Sec 14, 02S, 104W, 6 th PM	
Date: 06/23/14	Drawn By: Shad Johnson
Revision Date:	Scale: None

Analytes (BDL = Below Detection Limit; NA = Not Applicable; NS = Not Sampled)																														
Organics in Soil (mg/Kg)																														
COC ID	Date:	Lab	Sampler:	Sample Matrix	Matrix Notes	Allowable Concentration -->		TPH	TPH-GPD (GC-C10) Low Fraction	TPH-DRO (C10-C28) High Fraction	Benzene	Toluene	Ethylbenzene	Xylenes - total	Acenaphthene	Anthracene	Benzo(A)anthracene	Benzo(B)fluoranthene	Benzo(K)fluoranthene	Benzo(A)pyrene	Chrysene	Dibenzo(A,H)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Pyrene	see below EC (<4 mm)bs/cm or 2x background	<12 SAR (calculation)	(6-9) pH
						500	NA																							
9112-BG1-083111 6IN	8/31/2011	ESC	KHR	Soil	Background 1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9112-BG2-083111 6IN	8/31/2011	ESC	KHR	Soil	Background 2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9112-BG3-083111 6IN	8/31/2011	ESC	KHR	Soil	Background 3	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9112-BG4-083111 6IN	8/31/2011	ESC	KHR	Soil	Background 4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9112-BG5-083111 6IN	8/31/2011	ESC	KHR	Soil	Background 5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9112-SPOILS-083111 3FT	8/31/2011	ESC	KHR	Soil	Spills	10000	2200	7800	2.4	7.3	7.1	110	0.68	BDL	0.12	0.061	BDL	BDL	0.099	BDL	0.14	2.2	BDL	6.2	0.24	1.9	43	8		

COC ID	Date:	Lab	Sampler:	Sample Matrix	Matrix Notes	Metals in Soil (mg/kg [ppm])																								
						0.39 Arsenic	15000 Barium - EPA Total Barium	70 Cadmium	120000 Chromium (III)	23 Chromium (VI)	3100 Copper	400 Lead	23 Mercury	1600 Nickel	390 Selenium	390 Silver	23000 Zinc													
9112-BG1-083111 6IN	8/31/2011	ESC	KHR	Soil	Background 1	4.4	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
9112-BG2-083111 6IN	8/31/2011	ESC	KHR	Soil	Background 2	3.2	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9112-BG3-083111 6IN	8/31/2011	ESC	KHR	Soil	Background 3	4.1	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9112-BG4-083111 6IN	8/31/2011	ESC	KHR	Soil	Background 4	3.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9112-BG5-083111 6IN	8/31/2011	ESC	KHR	Soil	Background 5	4.5	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
9112-SPOILS-083111 3FT	8/31/2011	ESC	KHR	Soil	Spills	4.5	NS	0.69	11	BDL	16	15	BDL	10	BDL	BDL	41													

ATTACHMENT B



12065 Lebanon Rd.
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Est. 1970

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

Report Summary

Thursday September 15, 2011

Report Number: L534276


Samples Received: 09/02/11

Client Project:

Description: 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:


Jared Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,
TX - T104704245, OK-9915

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

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

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REPORT OF ANALYSIS

September 15, 2011

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

ESC Sample # : L534276-01

Date Received : September 02, 2011
 Description : Pit Closure Project

Site ID : HELLS HOLE 9112

Sample ID : 9112-SPOILS-083111 3FT

Project # :

Collected By : Kate Ramsay
 Collection Date : 08/31/11 15:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium,Hexavalent	BDL	2.0	mg/kg	3060A/7196A	09/08/11	1
Chromium,Trivalent	11.	0.50	mg/kg	Calc.	09/06/11	1
ORP	58.		mV	2580	09/07/11	1
pH	8.0		su	9045D	09/10/11	1
Sodium Adsorption Ratio	43.			Calc.	09/07/11	1
Specific Conductance	1900		umhos/cm	9050AMod	09/11/11	1
Mercury	BDL	0.020	mg/kg	7471	09/07/11	1
Arsenic	4.5	2.0	mg/kg	6010B	09/06/11	2
Barium	410	0.25	mg/kg	6010B	09/06/11	1
Cadmium	0.69	0.25	mg/kg	6010B	09/06/11	1
Chromium	11.	0.50	mg/kg	6010B	09/06/11	1
Copper	16.	1.0	mg/kg	6010B	09/06/11	1
Lead	15.	0.25	mg/kg	6010B	09/06/11	1
Nickel	10.	2.0	mg/kg	6010B	09/06/11	2
Selenium	BDL	2.0	mg/kg	6010B	09/06/11	2
Silver	BDL	0.50	mg/kg	6010B	09/06/11	1
Zinc	41.	1.5	mg/kg	6010B	09/06/11	1
Benzene	2.4	0.025	mg/kg	8021/8015	09/06/11	50
Toluene	7.3	0.25	mg/kg	8021/8015	09/06/11	50
Ethylbenzene	7.1	0.025	mg/kg	8021/8015	09/06/11	50
Total Xylene	110	0.38	mg/kg	8021/8015	09/08/11	250
TPH (GC/FID) Low Fraction	2200	25.	mg/kg	GRO	09/08/11	250
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	88.9		% Rec.	8021/8015	09/08/11	250
a,a,a-Trifluorotoluene(PID)	93.5		% Rec.	8021/8015	09/06/11	50
TPH (GC/FID) High Fraction	7800	200	mg/kg	3546/DRO	09/12/11	50
Surrogate recovery(%)						
o-Terphenyl	0.00		% Rec.	3546/DRO	09/12/11	50
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.030	mg/kg	8270C-SIM	09/12/11	5
Acenaphthene	0.68	0.030	mg/kg	8270C-SIM	09/12/11	5
Acenaphthylene	0.10	0.030	mg/kg	8270C-SIM	09/12/11	5
Benzo(a)anthracene	0.12	0.030	mg/kg	8270C-SIM	09/12/11	5
Benzo(a)pyrene	BDL	0.030	mg/kg	8270C-SIM	09/12/11	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 L534276-01 (SV8270PAHSIM) - Dilution due to matrix
 L534276-01 (PH) - 7.98@20.4c



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REPORT OF ANALYSIS

September 15, 2011

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

ESC Sample # : L534276-01

Date Received : September 02, 2011
Description : Pit Closure Project

Site ID : HELLS HOLE 9112

Sample ID : 9112-SPOILS-083111 3FT

Project # :

Collected By : Kate Ramsay
Collection Date : 08/31/11 15:00

Table with 7 columns: Parameter, Result, Det. Limit, Units, Method, Date, Dil. Rows include various PAHs like Benzo(b)fluoranthene, Benzo(g,h,i)perylene, etc., and Surrogate Recovery results.

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: 09/15/11 13:48 Printed: 09/15/11 13:49
L534276-01 (SV8270PAHSIM) - Dilution due to matrix
L534276-01 (PH) - 7.98@20.4c



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REPORT OF ANALYSIS

September 15, 2011

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

Date Received : September 02, 2011
Description : Pit Closure Project
Sample ID : 9112-BG1-083111 6IN
Collected By : Kate Ramsay
Collection Date : 08/31/11 12:40

ESC Sample # : L534276-02
Site ID : HELLS HOLE 9112
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.4	1.0	mg/kg	6010B	09/08/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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September 15, 2011

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

Date Received : September 02, 2011
Description : Pit Closure Project
Sample ID : 9112-BG2-083111 6IN
Collected By : Kate Ramsay
Collection Date : 08/31/11 12:50

ESC Sample # : L534276-03
Site ID : HELLS HOLE 9112
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	3.2	1.0	mg/kg	6010B	09/08/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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September 15, 2011

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

Date Received : September 02, 2011
Description : Pit Closure Project
Sample ID : 9112-BG3-083111 6IN
Collected By : Kate Ramsay
Collection Date : 08/31/11 13:00

ESC Sample # : L534276-04
Site ID : HELLS HOLE 9112
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.1	1.0	mg/kg	6010B	09/08/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

September 15, 2011

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

Date Received : September 02, 2011
Description : Pit Closure Project
Sample ID : 9112-BG4-083111 6IN
Collected By : Kate Ramsay
Collection Date : 08/31/11 13:10

ESC Sample # : L534276-05
Site ID : HELLS HOLE 9112
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	3.7	1.0	mg/kg	6010B	09/08/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

September 15, 2011

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

Date Received : September 02, 2011
Description : Pit Closure Project
Sample ID : 9112-BG5-083111 6IN
Collected By : Kate Ramsay
Collection Date : 08/31/11 13:20

ESC Sample # : L534276-06
Site ID : HELLS HOLE 9112
Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.5	1.0	mg/kg	6010B	09/08/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

The reported analytical results relate only to the sample submitted.

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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L534276-01	WG553618	SAMP	Selenium	R1846232	O
	WG554477	SAMP	1-Methylnaphthalene	R1852932	E
	WG554477	SAMP	2-Methylnaphthalene	R1852932	E
	WG554477	SAMP	Nitrobenzene-d5	R1852932	J7
	WG554075	SAMP	o-Terphenyl	R1853860	J7

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
E	GTL (EPA) - Greater than upper calibration limit: Actual value is known to be greater than the upper calibration range.
J7	Surrogate recovery limits cannot be evaluated; surrogates were diluted out
O	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

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

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
09/15/11 at 13:49:26

TSR Signing Reports: 358
R5 - Desired TAT

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

Sample: L534276-01 Account: HRLCSCO Received: 09/02/11 09:00 Due Date: 09/12/11 00:00 RPT Date: 09/15/11 13:48

Sample: L534276-02 Account: HRLCSCO Received: 09/02/11 09:00 Due Date: 09/12/11 00:00 RPT Date: 09/15/11 13:48

Sample: L534276-03 Account: HRLCSCO Received: 09/02/11 09:00 Due Date: 09/12/11 00:00 RPT Date: 09/15/11 13:48

Sample: L534276-04 Account: HRLCSCO Received: 09/02/11 09:00 Due Date: 09/12/11 00:00 RPT Date: 09/15/11 13:48

Sample: L534276-05 Account: HRLCSCO Received: 09/02/11 09:00 Due Date: 09/12/11 00:00 RPT Date: 09/15/11 13:48

Sample: L534276-06 Account: HRLCSCO Received: 09/02/11 09:00 Due Date: 09/12/11 00:00 RPT Date: 09/15/11 13:48



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 Kate Ramsay
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 Grand Junction, CO 81506

Quality Assurance Report
 Level II

L534276

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

Tax I.D. 62-0814289

Est. 1970

September 15, 2011

Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
Arsenic	< 1	mg/kg			WG553618	09/06/11 14:44
Barium	< .25	mg/kg			WG553618	09/06/11 14:44
Cadmium	< .25	mg/kg			WG553618	09/06/11 14:44
Chromium	< .5	mg/kg			WG553618	09/06/11 14:44
Copper	< 1	mg/kg			WG553618	09/06/11 14:44
Lead	< .25	mg/kg			WG553618	09/06/11 14:44
Nickel	< 1	mg/kg			WG553618	09/06/11 14:44
Selenium	< 1	mg/kg			WG553618	09/06/11 14:44
Silver	< .5	mg/kg			WG553618	09/06/11 14:44
Zinc	< 1.5	mg/kg			WG553618	09/06/11 14:44
Benzene	< .0005	mg/kg			WG553729	09/06/11 06:28
Ethylbenzene	< .0005	mg/kg			WG553729	09/06/11 06:28
Toluene	< .005	mg/kg			WG553729	09/06/11 06:28
a,a,a-Trifluorotoluene(FID)		% Rec.	95.61	59-128	WG553729	09/06/11 06:28
a,a,a-Trifluorotoluene(PID)		% Rec.	100.2	54-144	WG553729	09/06/11 06:28
Mercury	< .02	mg/kg			WG553778	09/07/11 08:17
TPH (GC/FID) Low Fraction	< .1	mg/kg			WG553911	09/07/11 17:56
Total Xylene	< .0015	mg/kg			WG553911	09/07/11 17:56
a,a,a-Trifluorotoluene(FID)		% Rec.	95.69	59-128	WG553911	09/07/11 17:56
a,a,a-Trifluorotoluene(PID)		% Rec.	100.5	54-144	WG553911	09/07/11 17:56
Chromium,Hexavalent	< 2	mg/kg			WG553536	09/08/11 15:27
Arsenic	< 1	mg/kg			WG553924	09/08/11 17:05
Arsenic	< 1	mg/kg			WG553917	09/08/11 17:28
1-Methylnaphthalene	< .006	mg/kg			WG554477	09/11/11 22:41
2-Chloronaphthalene	< .006	mg/kg			WG554477	09/11/11 22:41
2-Methylnaphthalene	< .006	mg/kg			WG554477	09/11/11 22:41
Acenaphthene	< .006	mg/kg			WG554477	09/11/11 22:41
Acenaphthylene	< .006	mg/kg			WG554477	09/11/11 22:41
Anthracene	< .006	mg/kg			WG554477	09/11/11 22:41
Benzo(a)anthracene	< .006	mg/kg			WG554477	09/11/11 22:41
Benzo(a)pyrene	< .006	mg/kg			WG554477	09/11/11 22:41
Benzo(b)fluoranthene	< .006	mg/kg			WG554477	09/11/11 22:41
Benzo(g,h,i)perylene	< .006	mg/kg			WG554477	09/11/11 22:41
Benzo(k)fluoranthene	< .006	mg/kg			WG554477	09/11/11 22:41
Chrysene	< .006	mg/kg			WG554477	09/11/11 22:41
Dibenz(a,h)anthracene	< .006	mg/kg			WG554477	09/11/11 22:41
Fluoranthene	< .006	mg/kg			WG554477	09/11/11 22:41
Fluorene	< .006	mg/kg			WG554477	09/11/11 22:41
Indeno(1,2,3-cd)pyrene	< .006	mg/kg			WG554477	09/11/11 22:41
Naphthalene	< .006	mg/kg			WG554477	09/11/11 22:41
Phenanthrene	< .006	mg/kg			WG554477	09/11/11 22:41
Pyrene	< .006	mg/kg			WG554477	09/11/11 22:41
2-Fluorobiphenyl		% Rec.	84.51	34-129	WG554477	09/11/11 22:41
Nitrobenzene-d5		% Rec.	77.44	14-141	WG554477	09/11/11 22:41
p-Terphenyl-d14		% Rec.	76.13	25-139	WG554477	09/11/11 22:41

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Analyte	Result	Laboratory Blank		Limit	Batch	Date Analyzed
		Units	% Rec			
pH	5.20	su			WG553639	09/10/11 11:08
Specific Conductance	1.20	umhos/cm			WG554532	09/11/11 11:55
TPH (GC/FID) High Fraction o-Terphenyl	< 4	ppm % Rec.	77.45	50-150	WG554075 WG554075	09/09/11 21:55 09/09/11 21:55

Analyte	Units	Duplicate		RPD	Limit	Ref Samp	Batch
		Result	Duplicate				
Selenium	mg/kg	0	0	0	20	L534310-02	WG553618
Arsenic	mg/kg	2.80	2.50	13.1	20	L534310-02	WG553618
Barium	mg/kg	2000	240.	158.*	20	L534310-02	WG553618
Cadmium	mg/kg	0.510	0.600	16.0	20	L534310-02	WG553618
Chromium	mg/kg	8.80	8.60	1.96	20	L534310-02	WG553618
Copper	mg/kg	11.0	9.80	9.71	20	L534310-02	WG553618
Lead	mg/kg	7.60	8.70	13.8	20	L534310-02	WG553618
Nickel	mg/kg	7.20	8.20	13.1	20	L534310-02	WG553618
Silver	mg/kg	0	0	0	20	L534310-02	WG553618
Zinc	mg/kg	34.0	33.0	4.15	20	L534310-02	WG553618
Mercury	mg/kg	0	0	0	20	L534136-10	WG553778
ORP	mV	75.0	66.0	12.8	20	L533650-04	WG553916
ORP	mV	62.0	63.0	1.60	20	L533974-10	WG553916
Chromium,Hexavalent	mg/kg	0	0	0	20	L533944-11	WG553536
Chromium,Hexavalent	mg/kg	0	0	0	20	L534302-06	WG553536
Arsenic	mg/kg	3.00	3.46	15.6	20	L534378-08	WG553924
Arsenic	mg/kg	4.70	4.40	6.81	20	L534276-02	WG553917
pH	su	8.50	8.50	0.352	1	L534278-01	WG553639
Specific Conductance	umhos/cm	3000	3000	0	20	L534133-51	WG554532
Specific Conductance	umhos/cm	2000	1900	5.13	20	L534276-01	WG554532

Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Arsenic	mg/kg	92.6	91.6	98.9	82.9-117	WG553618
Barium	mg/kg	169	165.	97.6	82.8-117	WG553618
Cadmium	mg/kg	61.8	60.9	98.5	83.3-117	WG553618
Chromium	mg/kg	71.3	72.5	102.	81.8-118	WG553618
Copper	mg/kg	81.2	91.0	112.	83.9-116	WG553618
Lead	mg/kg	92.4	95.2	103.	83.3-117	WG553618
Nickel	mg/kg	59.1	62.1	105.	83.8-116	WG553618
Selenium	mg/kg	89.5	90.6	101.	79-121	WG553618
Silver	mg/kg	34.4	35.1	102.	66.3-134	WG553618

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
Zinc	mg/kg	141	136.	96.5	80.9-119	WG553618
Benzene	mg/kg	.05	0.0493	98.5	76-113	WG553729
Ethylbenzene	mg/kg	.05	0.0508	102.	78-115	WG553729
Toluene	mg/kg	.05	0.0516	103.	76-114	WG553729
a,a,a-Trifluorotoluene(PID)				96.71	54-144	WG553729
Mercury	mg/kg	3.77	4.46	118.	71.6-128	WG553778
Total Xylene	mg/kg	.15	0.161	108.	81-118	WG553911
a,a,a-Trifluorotoluene(PID)				98.49	54-144	WG553911
TPH (GC/FID) Low Fraction	mg/kg	5.5	6.25	114.	67-135	WG553911
a,a,a-Trifluorotoluene(FID)				95.73	59-128	WG553911
ORP	mV	229	220.	96.1	95.6-104.37	WG553916
Chromium, Hexavalent	mg/kg	132	94.4	71.5	50-150	WG553536
Arsenic	mg/kg	92.6	90.0	97.2	82.9-117	WG553924
Arsenic	mg/kg	92.6	92.7	100.	82.9-117	WG553917
1-Methylnaphthalene	mg/kg	.033	0.0277	84.1	48-113	WG554477
2-Chloronaphthalene	mg/kg	.033	0.0280	84.8	51-114	WG554477
2-Methylnaphthalene	mg/kg	.033	0.0286	86.7	44-109	WG554477
Acenaphthene	mg/kg	.033	0.0288	87.2	52-108	WG554477
Acenaphthylene	mg/kg	.033	0.0289	87.6	51-110	WG554477
Anthracene	mg/kg	.033	0.0302	91.7	58-120	WG554477
Benzo(a)anthracene	mg/kg	.033	0.0303	91.9	54-110	WG554477
Benzo(a)pyrene	mg/kg	.033	0.0305	92.3	56-118	WG554477
Benzo(b)fluoranthene	mg/kg	.033	0.0303	91.8	55-114	WG554477
Benzo(g,h,i)perylene	mg/kg	.033	0.0296	89.6	48-130	WG554477
Benzo(k)fluoranthene	mg/kg	.033	0.0311	94.4	55-122	WG554477
Chrysene	mg/kg	.033	0.0304	92.2	57-118	WG554477
Dibenz(a,h)anthracene	mg/kg	.033	0.0289	87.6	53-122	WG554477
Fluoranthene	mg/kg	.033	0.0312	94.5	58-118	WG554477
Fluorene	mg/kg	.033	0.0305	92.4	54-109	WG554477
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.0295	89.4	51-125	WG554477
Naphthalene	mg/kg	.033	0.0274	83.0	45-105	WG554477
Phenanthrene	mg/kg	.033	0.0312	94.5	53-114	WG554477
Pyrene	mg/kg	.033	0.0295	89.5	53-121	WG554477
2-Fluorobiphenyl				84.06	34-129	WG554477
Nitrobenzene-d5				76.82	14-141	WG554477
p-Terphenyl-d14				81.57	25-139	WG554477
pH	su	9.04	9.00	99.6	98-101	WG553639
Specific Conductance	umhos/cm	427	430.	101.	85-115	WG554532

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Analyte	Units	Laboratory Control Sample		% Rec	Limit	Batch
		Known Val	Result			
TPH (GC/FID) High Fraction	ppm	60	50.4	84.0	50-150	WG554075
o-Terphenyl				83.39	50-150	WG554075

Analyte	Units	Laboratory Control Sample Duplicate			Limit	RPD	Limit	Batch
		Result	Ref	%Rec				
Benzene	mg/kg	0.0512	0.0493	102.	76-113	3.96	20	WG553729
Ethylbenzene	mg/kg	0.0516	0.0508	103.	78-115	1.70	20	WG553729
Toluene	mg/kg	0.0526	0.0516	105.	76-114	1.96	20	WG553729
a,a,a-Trifluorotoluene(PID)				97.44	54-144			WG553729
TPH (GC/FID) Low Fraction	mg/kg	6.61	6.25	120.	67-135	5.57	20	WG553911
a,a,a-Trifluorotoluene(FID)				96.10	59-128			WG553911
Total Xylene	mg/kg	0.147	0.161	98.0	81-118	8.98	20	WG553911
a,a,a-Trifluorotoluene(PID)				98.00	54-144			WG553911
ORP	mV	220.	220.	96.0	95.6-104.37	0	20	WG553916
Chromium,Hexavalent	mg/kg	87.8	94.4	66.0	50-150	7.24	20	WG553536
1-Methylnaphthalene	mg/kg	0.0295	0.0277	89.0	48-113	6.07	24	WG554477
2-Chloronaphthalene	mg/kg	0.0299	0.0280	91.0	51-114	6.56	24	WG554477
2-Methylnaphthalene	mg/kg	0.0297	0.0286	90.0	44-109	3.74	24	WG554477
Acenaphthene	mg/kg	0.0298	0.0288	90.0	52-108	3.48	22	WG554477
Acenaphthylene	mg/kg	0.0301	0.0289	91.0	51-110	3.93	21	WG554477
Anthracene	mg/kg	0.0309	0.0302	94.0	58-120	2.01	20	WG554477
Benzo(a)anthracene	mg/kg	0.0314	0.0303	95.0	54-110	3.59	22	WG554477
Benzo(a)pyrene	mg/kg	0.0308	0.0305	93.0	56-118	1.28	21	WG554477
Benzo(b)fluoranthene	mg/kg	0.0312	0.0303	94.0	55-114	2.92	20	WG554477
Benzo(g,h,i)perylene	mg/kg	0.0293	0.0296	89.0	48-130	0.785	20	WG554477
Benzo(k)fluoranthene	mg/kg	0.0305	0.0311	92.0	55-122	1.92	25	WG554477
Chrysene	mg/kg	0.0310	0.0304	94.0	57-118	2.04	20	WG554477
Dibenz(a,h)anthracene	mg/kg	0.0287	0.0289	87.0	53-122	0.605	20	WG554477
Fluoranthene	mg/kg	0.0313	0.0312	95.0	58-118	0.245	20	WG554477
Fluorene	mg/kg	0.0312	0.0305	94.0	54-109	2.28	20	WG554477
Indeno(1,2,3-cd)pyrene	mg/kg	0.0295	0.0295	89.0	51-125	0.0208	21	WG554477
Naphthalene	mg/kg	0.0270	0.0274	82.0	45-105	1.45	24	WG554477
Phenanthrene	mg/kg	0.0302	0.0312	92.0	53-114	3.06	20	WG554477
Pyrene	mg/kg	0.0307	0.0295	93.0	53-121	3.92	20	WG554477
2-Fluorobiphenyl				91.75	34-129			WG554477
Nitrobenzene-d5				78.84	14-141			WG554477
p-Terphenyl-d14				82.77	25-139			WG554477
pH	su	9.00	9.00	100.	98-101	0	20	WG553639
Specific Conductance	umhos/	430.	430.	101.	85-115	0	20	WG554532
TPH (GC/FID) High Fraction	ppm	49.2	50.4	82.0	50-150	2.36	20	WG554075
o-Terphenyl				84.72	50-150			WG554075

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Analyte	Units	MS Res	Matrix Spike		% Rec	Limit	Ref Samp	Batch
			Ref Res	TV				
Selenium	mg/kg	52.6	0	10	105.	75-125	L534310-02	WG553618
Arsenic	mg/kg	49.6	2.50	50	94.2	75-125	L534310-02	WG553618
Barium	mg/kg	822.	240.	50	1160*	75-125	L534310-02	WG553618
Cadmium	mg/kg	44.1	0.600	50	87.0	75-125	L534310-02	WG553618
Chromium	mg/kg	57.5	8.60	50	97.8	75-125	L534310-02	WG553618
Copper	mg/kg	63.5	9.80	50	107.	75-125	L534310-02	WG553618
Lead	mg/kg	55.2	8.70	50	93.0	75-125	L534310-02	WG553618
Nickel	mg/kg	55.7	8.20	50	95.0	75-125	L534310-02	WG553618
Silver	mg/kg	50.5	0	50	101.	75-125	L534310-02	WG553618
Zinc	mg/kg	78.4	33.0	50	90.8	75-125	L534310-02	WG553618
Benzene	mg/kg	0.0254	0.00200	.05	46.9	32-137	L534150-06	WG553729
Ethylbenzene	mg/kg	0.0267	0.000560	.05	52.2	10-150	L534150-06	WG553729
Toluene	mg/kg	0.0282	0.00270	.05	51.1	20-142	L534150-06	WG553729
a,a,a-Trifluorotoluene(PID)					96.97	54-144		WG553729
Mercury	mg/kg	0.242	0	.25	96.8	70-130	L534136-10	WG553778
Total Xylene	mg/kg	0.718	0.0150	.15	93.8	16-141	L534118-09	WG553911
a,a,a-Trifluorotoluene(PID)					97.51	54-144		WG553911
TPH (GC/FID) Low Fraction	mg/kg	28.7	2.41	5.5	95.7	55-109	L534118-09	WG553911
a,a,a-Trifluorotoluene(FID)					102.2	59-128		WG553911
Chromium, Hexavalent	mg/kg	4.72	0	20	23.6*	50-150	L534302-03	WG553536
Arsenic	mg/kg	43.3	3.46	50	79.7	75-125	L534378-08	WG553924
Arsenic	mg/kg	45.3	4.40	50	81.8	75-125	L534276-02	WG553917
TPH (GC/FID) High Fraction	ppm	43.8	0	60	73.0	50-150	L534150-05	WG554075
o-Terphenyl					70.98	50-150		WG554075
1-Methylnaphthalene	mg/kg	0.0255	0	.033	77.3	25-155	L534221-06	WG554477
2-Chloronaphthalene	mg/kg	0.0260	0	.033	78.6	31-153	L534221-06	WG554477
2-Methylnaphthalene	mg/kg	0.0280	0	.033	84.7	22-172	L534221-06	WG554477
Acenaphthene	mg/kg	0.0255	0	.033	77.3	43-133	L534221-06	WG554477
Acenaphthylene	mg/kg	0.0266	0	.033	80.6	42-146	L534221-06	WG554477
Anthracene	mg/kg	0.0265	0	.033	80.4	38-153	L534221-06	WG554477
Benzo(a)anthracene	mg/kg	0.0257	0	.033	77.9	31-142	L534221-06	WG554477
Benzo(a)pyrene	mg/kg	0.0243	0	.033	73.6	26-152	L534221-06	WG554477
Benzo(b)fluoranthene	mg/kg	0.0242	0	.033	73.2	10-188	L534221-06	WG554477
Benzo(g,h,i)perylene	mg/kg	0.0270	0	.033	81.8	10-176	L534221-06	WG554477
Benzo(k)fluoranthene	mg/kg	0.0218	0	.033	65.9	22-163	L534221-06	WG554477
Chrysene	mg/kg	0.0228	0	.033	69.1	26-146	L534221-06	WG554477
Dibenz(a,h)anthracene	mg/kg	0.0220	0	.033	66.6	10-160	L534221-06	WG554477
Fluoranthene	mg/kg	0.0272	0	.033	82.4	23-160	L534221-06	WG554477
Fluorene	mg/kg	0.0275	0	.033	83.4	44-143	L534221-06	WG554477
Indeno(1,2,3-cd)pyrene	mg/kg	0.0248	0	.033	75.3	10-157	L534221-06	WG554477
Naphthalene	mg/kg	0.0242	0	.033	73.3	22-156	L534221-06	WG554477
Phenanthrene	mg/kg	0.0286	0	.033	86.5	23-164	L534221-06	WG554477
Pyrene	mg/kg	0.0252	0	.033	76.4	12-170	L534221-06	WG554477
2-Fluorobiphenyl					71.94	34-129		WG554477

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



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Quality Assurance Report
 Level II

L534276

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Tax I.D. 62-0814289

Est. 1970

September 15, 2011

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit Ref	Samp	Batch
			Ref	%Rec					
Nitrobenzene-d5					73.89	14-141			
p-Terphenyl-d14					72.38	25-139			

Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit Ref	Samp	Batch
			Ref	%Rec					
Arsenic	mg/kg	48.2	49.6	91.4	75-125	2.86	20	L534310-02	WG553618
Barium	mg/kg	1310	822.	2140*	75-125	45.8*	20	L534310-02	WG553618
Cadmium	mg/kg	42.7	44.1	84.2	75-125	3.23	20	L534310-02	WG553618
Chromium	mg/kg	56.6	57.5	96.0	75-125	1.58	20	L534310-02	WG553618
Copper	mg/kg	62.5	63.5	105.	75-125	1.59	20	L534310-02	WG553618
Lead	mg/kg	54.0	55.2	90.6	75-125	2.20	20	L534310-02	WG553618
Nickel	mg/kg	54.6	55.7	92.8	75-125	1.99	20	L534310-02	WG553618
Silver	mg/kg	49.0	50.5	98.0	75-125	3.02	20	L534310-02	WG553618
Zinc	mg/kg	77.5	78.4	89.0	75-125	1.15	20	L534310-02	WG553618
Selenium	mg/kg	47.0	52.6	94.0	75-125	11.2	20	L534310-02	WG553618
Benzene	mg/kg	0.0401	0.0254	76.2	32-137	44.8*	39	L534150-06	WG553729
Ethylbenzene	mg/kg	0.0409	0.0267	80.7	10-150	42.1	44	L534150-06	WG553729
Toluene	mg/kg	0.0422	0.0282	79.0	20-142	39.6	42	L534150-06	WG553729
a,a,a-Trifluorotoluene (PID)				97.47	54-144				WG553729
Mercury	mg/kg	0.253	0.242	101.	70-130	4.44	20	L534136-10	WG553778
Total Xylene	mg/kg	0.689	0.718	89.9	16-141	4.15	46	L534118-09	WG553911
a,a,a-Trifluorotoluene (PID)				98.66	54-144				WG553911
TPH (GC/FID) Low Fraction	mg/kg	24.5	28.7	80.2	55-109	16.1	20	L534118-09	WG553911
a,a,a-Trifluorotoluene (FID)				100.2	59-128				WG553911
Chromium, Hexavalent	mg/kg	7.36	4.72	36.8*	50-150	43.7*	20	L534302-03	WG553536
Arsenic	mg/kg	47.3	43.3	87.7	75-125	8.83	20	L534378-08	WG553924
Arsenic	mg/kg	43.0	45.3	77.2	75-125	5.21	20	L534276-02	WG553917
TPH (GC/FID) High Fraction	ppm	44.2	43.8	73.6	50-150	0.844	20	L534150-05	WG554075
o-Terphenyl				73.11	50-150				WG554075
1-Methylnaphthalene	mg/kg	0.0297	0.0255	90.0	25-155	15.1	27	L534221-06	WG554477
2-Chloronaphthalene	mg/kg	0.0304	0.0260	92.2	31-153	15.9	22	L534221-06	WG554477
2-Methylnaphthalene	mg/kg	0.0317	0.0280	96.0	22-172	12.5	29	L534221-06	WG554477
Acenaphthene	mg/kg	0.0284	0.0255	86.2	43-133	10.9	26	L534221-06	WG554477
Acenaphthylene	mg/kg	0.0296	0.0266	89.6	42-146	10.6	22	L534221-06	WG554477
Anthracene	mg/kg	0.0290	0.0265	87.8	38-153	8.83	27	L534221-06	WG554477
Benzo(a)anthracene	mg/kg	0.0285	0.0257	86.4	31-142	10.3	31	L534221-06	WG554477
Benzo(a)pyrene	mg/kg	0.0258	0.0243	78.2	26-152	6.04	32	L534221-06	WG554477
Benzo(b)fluoranthene	mg/kg	0.0285	0.0242	86.2	10-188	16.3	33	L534221-06	WG554477
Benzo(g,h,i)perylene	mg/kg	0.0281	0.0270	85.2	10-176	4.07	30	L534221-06	WG554477
Benzo(k)fluoranthene	mg/kg	0.0244	0.0218	74.0	22-163	11.5	29	L534221-06	WG554477
Chrysene	mg/kg	0.0257	0.0228	77.8	26-146	11.9	30	L534221-06	WG554477
Dibenz(a,h)anthracene	mg/kg	0.0234	0.0220	70.8	10-160	6.08	39	L534221-06	WG554477

* Performance of this Analyte is outside of established criteria.
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Analyte	Units	MSD	Matrix Spike Duplicate		Limit	RPD	Limit	Ref Samp	Batch
			Ref	%Rec					
Fluoranthene	mg/kg	0.0306	0.0272	92.6	23-160	11.7	22	L534221-06	WG554477
Fluorene	mg/kg	0.0294	0.0275	89.0	44-143	6.58	23	L534221-06	WG554477
Indeno(1,2,3-cd)pyrene	mg/kg	0.0257	0.0248	77.9	10-157	3.38	40	L534221-06	WG554477
Naphthalene	mg/kg	0.0280	0.0242	84.9	22-156	14.7	27	L534221-06	WG554477
Phenanthrene	mg/kg	0.0310	0.0286	94.0	23-164	8.29	25	L534221-06	WG554477
Pyrene	mg/kg	0.0294	0.0252	89.2	12-170	15.6	24	L534221-06	WG554477
2-Fluorobiphenyl				80.98	34-129				WG554477
Nitrobenzene-d5				84.58	14-141				WG554477
p-Terphenyl-d14				83.24	25-139				WG554477

Batch number / Run number / Sample number cross reference

WG553618: R1846232: L534276-01
 WG553729: R1847452: L534276-01
 WG553724: R1848212: L534276-01
 WG553778: R1848272: L534276-01
 WG553911: R1849132: L534276-01
 WG553916: R1849497: L534276-01
 WG553536: R1850152: L534276-01
 WG553924: R1850854: L534276-06
 WG553917: R1851281: L534276-02 03 04 05
 WG554477: R1852932: L534276-01
 WG553639: R1853232: L534276-01
 WG554532: R1853655: L534276-01
 WG554075: R1853860: L534276-01

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

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

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

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



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Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

Report Summary

Wednesday June 18, 2014

Report Number: L704571


Samples Received: 06/13/14

Client Project: 9112

Description: 9112-Site Clearance

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

Entire Report Reviewed By:


Jared Willis, ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 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, EPA - TN002

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REPORT OF ANALYSIS

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

June 18, 2014

Date Received : June 13, 2014
Description : 9112-Site Clearance
Sample ID : 061214-9112(NSW) 5 FT
Collected By : Shad Johnson
Collection Date : 06/12/14 10:00

ESC Sample # : L704571-01
Site ID : 9112
Project # : 9112

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/17/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/17/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/17/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	06/17/14	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	06/17/14	5
TPH (GC/FID) High Fraction	4.4	4.0	mg/kg	3546/DRO	06/18/14	1
Surrogate recovery(%)						
o-Terphenyl	82.3		% Rec.	3546/DRO	06/18/14	1

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

Charles Jensen
 EnCana Oil & Gas - Rangely, CO
 1125 Escalante Drive
 Rangely, CO 81648-3600

June 18, 2014

Date Received : June 13, 2014
 Description : 9112-Site Clearance
 Sample ID : 061214-9112(ESW) 5 FT
 Collected By : Shad Johnson
 Collection Date : 06/12/14 10:15

ESC Sample # : L704571-02
 Site ID : 9112
 Project # : 9112

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/17/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/17/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/17/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	06/17/14	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	06/17/14	5
TPH (GC/FID) High Fraction	BDL	20.	mg/kg	3546/DRO	06/18/14	5
Surrogate recovery(%)						
o-Terphenyl	89.6		% Rec.	3546/DRO	06/18/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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REPORT OF ANALYSIS

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Rangely, CO 81648-3600

June 18, 2014

Date Received : June 13, 2014
Description : 9112-Site Clearance
Sample ID : 061214-9112(SSW) 5 FT
Collected By : Shad Johnson
Collection Date : 06/12/14 10:25

ESC Sample # : L704571-03
Site ID : 9112
Project # : 9112

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/17/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/17/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/17/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	06/17/14	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	06/17/14	5
TPH (GC/FID) High Fraction	56.	20.	mg/kg	3546/DRO	06/18/14	5
Surrogate recovery(%)						
o-Terphenyl	84.8		% Rec.	3546/DRO	06/18/14	5

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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L704571-03 (DRO) - Dilution due to matrix



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REPORT OF ANALYSIS

Charles Jensen
 EnCana Oil & Gas - Rangely, CO
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June 18, 2014

Date Received : June 13, 2014
 Description : 9112-Site Clearance
 Sample ID : 061214-9112(WSW) 5 FT
 Collected By : Shad Johnson
 Collection Date : 06/12/14 10:35

ESC Sample # : L704571-04
 Site ID : 9112
 Project # : 9112

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/17/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/17/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/17/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	06/17/14	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	06/17/14	5
TPH (GC/FID) High Fraction	36.	20.	mg/kg	3546/DRO	06/18/14	5
Surrogate recovery(%)						
o-Terphenyl	74.5		% Rec.	3546/DRO	06/18/14	5

BDL - Below Detection Limit
 Det. Limit - Practical Quantitation Limit(PQL)
 Note:
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 L704571-04 (DRO) - Dilution due to matrix



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REPORT OF ANALYSIS

Charles Jensen
EnCana Oil & Gas - Rangely, CO
1125 Escalante Drive
Rangely, CO 81648-3600

June 18, 2014

Date Received : June 13, 2014
Description : 9112-Site Clearance
Sample ID : 061214-9112(BBT) 6 FT
Collected By : Shad Johnson
Collection Date : 06/12/14 10:45

ESC Sample # : L704571-05
Site ID : 9112
Project # : 9112

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/17/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/17/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/17/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	101.		% Rec.	8021/8015	06/17/14	5
a,a,a-Trifluorotoluene(PID)	102.		% Rec.	8021/8015	06/17/14	5
TPH (GC/FID) High Fraction	30.	20.	mg/kg	3546/DRO	06/18/14	5
Surrogate recovery(%)						
o-Terphenyl	89.8		% Rec.	3546/DRO	06/18/14	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: 06/18/14 12:49 Printed: 06/18/14 12:49
L704571-05 (DRO) - Dilution due to matrix



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REPORT OF ANALYSIS

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EnCana Oil & Gas - Rangely, CO
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June 18, 2014

Date Received : June 13, 2014
Description : 9112-Site Clearance
Sample ID : 061214-9112(ETS) 3-9 IN
Collected By : Shad Johnson
Collection Date : 06/12/14 11:00

ESC Sample # : L704571-06
Site ID : 9112
Project # : 9112

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Toluene	BDL	0.025	mg/kg	8021/8015	06/17/14	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	06/17/14	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	06/17/14	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	06/17/14	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	100.		% Rec.	8021/8015	06/17/14	5
a,a,a-Trifluorotoluene(PID)	101.		% Rec.	8021/8015	06/17/14	5
TPH (GC/FID) High Fraction	78.	20.	mg/kg	3546/DRO	06/18/14	5
Surrogate recovery(%)						
o-Terphenyl	81.2		% Rec.	3546/DRO	06/18/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 06/18/14 12:49 Printed: 06/18/14 12:49
L704571-06 (DRO) - Dilution due to matrix

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L704571-02	WG726775	SAMP	TPH (GC/FID) High Fraction	R2943378	0

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
0	(ESC) Sample diluted due to matrix interferences that impaired the ability to make an accurate analytical determination. The detection limit is elevated in order to reflect the necessary dilution.

Qualifier Report Information

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

Definitions

- Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.
- Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Difference.
- Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromatography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.
- TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
06/18/14 at 12:49:52

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L704571-01 Account: ENCANRCO Received: 06/13/14 09:00 Due Date: 06/20/14 00:00 RPT Date: 06/18/14 12:49
Sample: L704571-02 Account: ENCANRCO Received: 06/13/14 09:00 Due Date: 06/20/14 00:00 RPT Date: 06/18/14 12:49
Sample: L704571-03 Account: ENCANRCO Received: 06/13/14 09:00 Due Date: 06/20/14 00:00 RPT Date: 06/18/14 12:49
Sample: L704571-04 Account: ENCANRCO Received: 06/13/14 09:00 Due Date: 06/20/14 00:00 RPT Date: 06/18/14 12:49
Sample: L704571-05 Account: ENCANRCO Received: 06/13/14 09:00 Due Date: 06/20/14 00:00 RPT Date: 06/18/14 12:49
Sample: L704571-06 Account: ENCANRCO Received: 06/13/14 09:00 Due Date: 06/20/14 00:00 RPT Date: 06/18/14 12:49

Encana Oil & Gas (USA)
 143 Diamond Ave.
 Parachute, CO 81635
 ENCANRCO-RULEENG

Billing Information:
 Charlie Jensen
 143 Diamond Ave
 Parachute, CO 81635

Report to: Charlie Jensen
 Email to: charles.jensen@encana.com

Project Description: 9112 - SITE CLEARANCE
 City/State Collected: CO

Phone: 970-285-2735
 FAX: Client Project #: 9112
 ESC Key: ENCANRCO-RULEENG


Collected by: Shad Johnson
 Site/Facility ID#: 9112
 P.O.#:

Collected by (signature): *[Signature]*
 Immediately Packed on Ice N
Rush? (Lab MUST Be Notified)
 ___ Same Day.....200%
 ___ Next Day.....100%
 ___ Two Day.....50%
 ___ Three Day.....25%
 Date Results Needed:
 Email? ___ No Yes
 FAX? No ___ Yes

Analysis/Container/Preservative

BTEXGRO / DRO - 8021/8015	SV8270PAHSIM - 8270SIM	SPCON - 9050AMod	SAR - Calc.	RCRA8 Metals + Cu, Ni, and Zn - 6010/7470	CR6SS - 3060A/7196	CR3 - Calc.	Arsenic
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Chain of Custody Page 1 of 1



12065 Lebanon Road
 Mt. Juliet, TN 37122

Phone: (800) 767-5859
 Phone: (615) 758-5858
 Fax: (615) 758-5859

A097

CoCode ENCANRCO (lab use only)
 Template/Prelogin
 Shipped Via: T70530

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	BTEXGRO / DRO - 8021/8015	SV8270PAHSIM - 8270SIM	SPCON - 9050AMod	SAR - Calc.	RCRA8 Metals + Cu, Ni, and Zn - 6010/7470	CR6SS - 3060A/7196	CR3 - Calc.	Arsenic	Remarks/Contaminant	Sample # (lab only)
061214-9112(NSW); 5'	Grab	SS	5'	6-12-14	1000	2	X									62571-01
061214-9112(ESW); 5'	Grab	SS	5'	6-12-14	1015	2	X									02
061214-9112(SSW); 5'	Grab	SS	5'	6-12-14	1025	2	X									03
061214-9112(WSW); 5'	Grab	SS	5'	6-12-14	1035	2	X									04
061214-9112(BBT); 6'	Grab	SS	6'	6-12-14	1045	2	X									05
061214-9112(ETS); 3-9"	Comp	SS	3-9"	6-12-14	1100	2	X									06

*Matrix: SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks: 5939 9648 3124

pH _____ Temp _____
 Flow _____ Other _____

Relinquished by: (Signature) <i>[Signature]</i>	Date: 6/12/14	Time: 1600	Received by: (Signature) <i>[Signature]</i>	Samples returned via: <input checked="" type="checkbox"/> UPS <input type="checkbox"/> FedEx <input type="checkbox"/> Courier	Condition: (lab use only) <i>JWS</i>
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.6	Bottles Received: 12/402
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature) <i>[Signature]</i>	Date: 6-13-14	Time: 0900
				pH Checked:	NCF: