



12065 Lebanon Rd.  
Mt. Juliet, TN 37122  
(615) 758-5858  
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Tax I.D. 62-0814289

Est. 1970

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

## Report Summary

Tuesday July 15, 2014

Report Number: L707498


Samples Received: 06/28/14

Client Project: USA 1-31LW

Description: USA 1-31LW Backgrounds

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

July 15, 2014

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

Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGW)  
Collected By : Matt K.  
Collection Date : 06/27/14 07:55

ESC Sample # : L707498-01

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	10.	mg/kg	6010B	07/07/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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July 15, 2014

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143 Diamond Avenue  
Parachute, CO 81635

Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGW)  
Collected By : Matt K.  
Collection Date : 06/27/14 07:55

ESC Sample # : L707498-02

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	BDL	10.	mg/kg	6010B	07/07/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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143 Diamond Avenue  
Parachute, CO 81635

Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGW)  
Collected By : Matt K.  
Collection Date : 06/27/14 07:55

ESC Sample # : L707498-03

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	BDL	10.	mg/kg	6010B	07/07/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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July 15, 2014

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143 Diamond Avenue  
Parachute, CO 81635

Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGW)  
Collected By : Matt K.  
Collection Date : 06/27/14 07:55

ESC Sample # : L707498-04  
  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	10.	mg/kg	6010B	07/07/14	5

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Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGW)  
Collected By : Matt K.  
Collection Date : 06/27/14 07:55

ESC Sample # : L707498-05

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	12.	10.	mg/kg	6010B	07/07/14	5

BDL - Below Detection Limit

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Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGN)  
Collected By : Matt K.  
Collection Date : 06/27/14 08:00

ESC Sample # : L707498-06

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	10.	mg/kg	6010B	07/07/14	5

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGN)  
Collected By : Matt K.  
Collection Date : 06/27/14 08:00

ESC Sample # : L707498-07  
  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	13.	10.	mg/kg	6010B	07/07/14	5

BDL - Below Detection Limit  
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Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGN)  
Collected By : Matt K.  
Collection Date : 06/27/14 08:00

ESC Sample # : L707498-08  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.2	2.0	mg/kg	6010B	07/07/14	1

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Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGN)  
Collected By : Matt K.  
Collection Date : 06/27/14 08:00

ESC Sample # : L707498-09

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.9	2.0	mg/kg	6010B	07/07/14	1

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Det. Limit - Practical Quantitation Limit(PQL)

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Sample ID : 20140627-USA 1-31 (BGN)  
Collected By : Matt K.  
Collection Date : 06/27/14 08:00

ESC Sample # : L707498-10

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.6	2.0	mg/kg	6010B	07/07/14	1

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Det. Limit - Practical Quantitation Limit(PQL)

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143 Diamond Avenue  
Parachute, CO 81635

Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627 - USA 1-31 (BGMID) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:05

ESC Sample # : L707498-11  
  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.8	2.0	mg/kg	6010B	07/07/14	1

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Sample ID : 20140627 - USA 1-31 (BGMID) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:05

ESC Sample # : L707498-12  
  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.8	2.0	mg/kg	6010B	07/07/14	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
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Parachute, CO 81635

Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627 - USA 1-31 (BGMID) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:05

ESC Sample # : L707498-13  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.6	2.0	mg/kg	6010B	07/07/14	1

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143 Diamond Avenue  
Parachute, CO 81635

July 15, 2014

Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627 - USA 1-31 (BGMID) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:05

ESC Sample # : L707498-14  
  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	6.2	2.0	mg/kg	6010B	07/07/14	1

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143 Diamond Avenue  
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Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627 - USA 1-31 (BGMID) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:05

ESC Sample # : L707498-15  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.6	2.0	mg/kg	6010B	07/07/14	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
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Parachute, CO 81635

Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGS) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:10

ESC Sample # : L707498-16

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.3	2.0	mg/kg	6010B	07/07/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGS) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:10

ESC Sample # : L707498-17

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	6.4	2.0	mg/kg	6010B	07/07/14	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGS) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:10

ESC Sample # : L707498-18

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.7	2.0	mg/kg	6010B	07/07/14	1

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Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGS) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:10

ESC Sample # : L707498-19  
  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.2	2.0	mg/kg	6010B	07/07/14	1

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Sample ID : 20140627-USA 1-31 (BGS) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:10

ESC Sample # : L707498-20

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.0	2.0	mg/kg	6010B	07/07/14	1

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Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGE) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:15

ESC Sample # : L707498-21

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	6.0	2.0	mg/kg	6010B	07/07/14	1

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143 Diamond Avenue  
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Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGE) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:15

ESC Sample # : L707498-22  
  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.0	2.0	mg/kg	6010B	07/07/14	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
Note:  
The reported analytical results relate only to the sample submitted.  
This report shall not be reproduced, except in full, without the written approval from ESC.  
.  
Reported: 07/08/14 10:21 Revised: 07/15/14 09:48



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Est. 1970

REPORT OF ANALYSIS

July 15, 2014

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

Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGE) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:15

ESC Sample # : L707498-23  
  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	8.1	2.0	mg/kg	6010B	07/07/14	1

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

July 15, 2014

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

Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGE) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:15

ESC Sample # : L707498-24  
  
Site ID : USA 1-31LW  
Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	6.3	2.0	mg/kg	6010B	07/07/14	1

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

July 15, 2014

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

Date Received : June 28, 2014  
Description : USA 1-31LW Backgrounds  
Sample ID : 20140627-USA 1-31 (BGE) 1FT  
Collected By : Matt K.  
Collection Date : 06/27/14 08:15

ESC Sample # : L707498-25

Site ID : USA 1-31LW

Project # : USA 1-31LW

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.8	2.0	mg/kg	6010B	07/07/14	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
L707498-02	WG729741	SAMP	Arsenic	R2956666	0
L707498-03	WG729741	SAMP	Arsenic	R2956666	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.