

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

OCT 05 2015

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report X Final Report

Name of Company Encana Oil & Gas (USA), Inc	Contact: Tucker Smith
Address: 6584 E Main St., Farmington, NM 87402	Telephone No. 505-599-2407
Facility Name: Dunn No. 009 well	Facility Type: E&P Production
Surface Owner: Federal	Mineral Owner: Federal
API No. 3003922935	

LOCATION OF RELEASE (Well)

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	3	23N	07W	990	FNL	2240	FEL	Rio Arriba

Latitude 36.259406 N Longitude 107.556094 W (Tank Battery / Release location)

NATURE OF RELEASE

Type of Release: Historical / unknown hydrocarbon	Volume of Release: 3	Volume Recovered: 3
Source of Release: Historical / unknown hydrocarbon	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 8/17/2015
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? NA	
By Whom?	Date and Hour: NA	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NO	
If a Watercourse was Impacted, Describe Fully.* NA		

Describe Cause of Problem and Remedial Action Taken.*

Location presented with a pronounced hydrocarbon odor and visual signs of sheen after heavy precipitation events. The containment area was saturated to a depth of three ft. A site assessment was completed and an active leak was not found. To ensure there was not a non-visible production tank leak, well was shut in and tanks were emptied and removed from containment for assessment. There were visible signs of a compromised tank; therefore, it is concluded that this is a historical spill that surfaced from the soil saturation post heavy precipitation events.

Describe Area Affected and Cleanup Action Taken.*

The affected area was within the containment area, 60 ft x 25 ft x 8 ft deep. (445 cu yards) Containment area was excavated and soil stockpiled on location in a bermed area while full site assessment took place. Soil was removed from site and disposed of at Envirotech landfarm. Clean soil was brought in to fill excavated area.

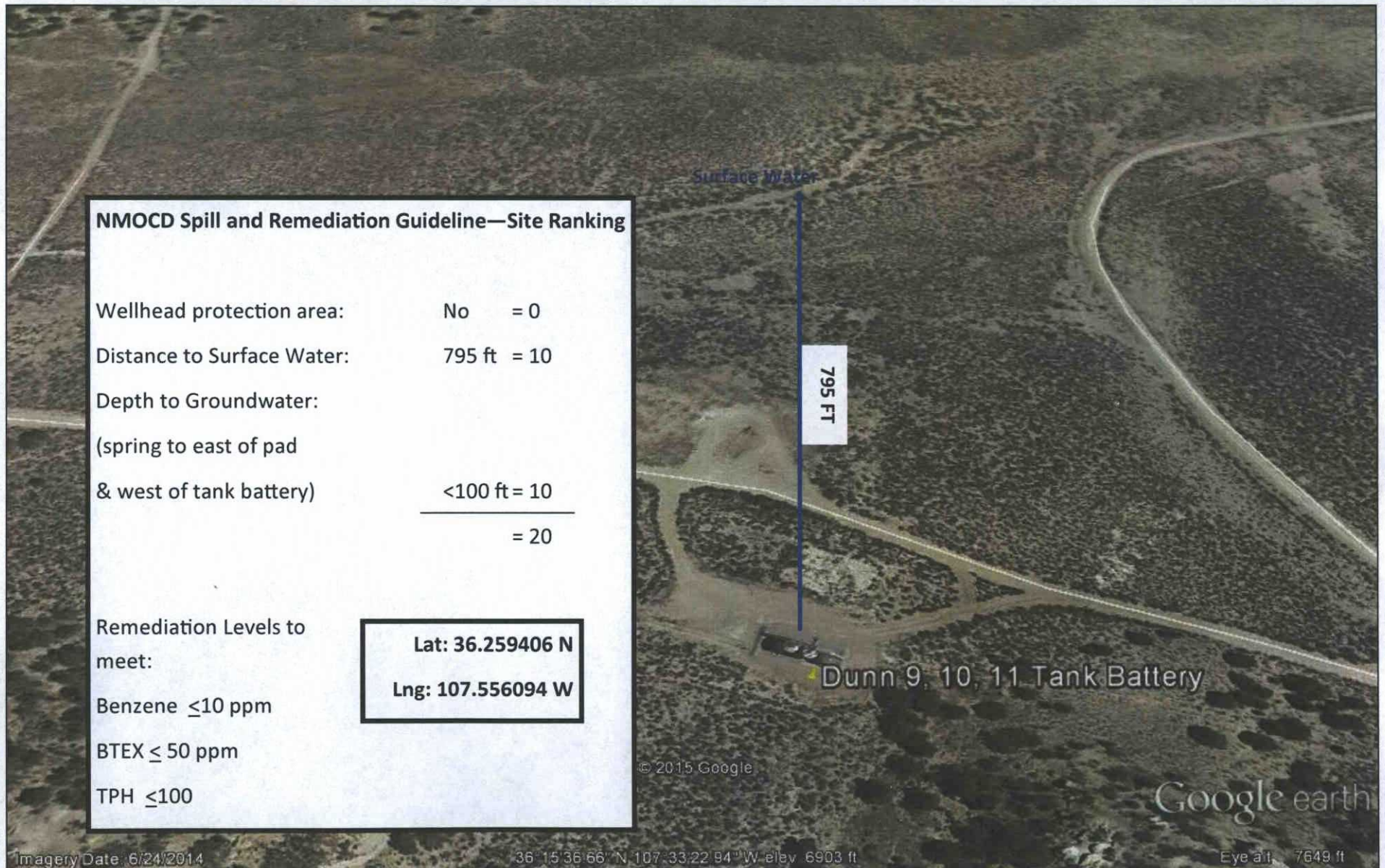
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Tucker Smith</i> 10/1/15	OIL CONSERVATION DIVISION	
Printed Name: Tucker Smith	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Environmental Specialist	Approval Date: 12/18/15	Expiration Date:
E-mail Address: tucker.smith@encana.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/10/2015 Phone: 505-599-2407		

#NCS 1535239962

* Attach Additional Sheets If Necessary

NMOCD Spill and Remediation Guideline—Site Ranking
Dunn 9, 10, 11 Tank Battery—Historical Spill Remediation
September 2015





Analytical Report

Report Summary

Client: Encana Oil & Gas USA

Chain Of Custody Number:

Samples Received: 9/16/2015 4:23:00PM

Job Number: 11195-0087

Work Order: P509028

Project Name/Location: Dunn 9, 10, 11 Tank
Battery

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a light blue rectangular background.

Date: 9/21/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.



Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Dunn 9, 10, 11 Tank Battery
Project Number: 11195-0087
Project Manager: Tucker Smith

Reported:
21-Sep-15 08:14

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Dunn N Wall 9.16.15	P509028-01A	Solid	09/16/15	09/16/15	Glass Jar, 4 oz.
Dunn S Wall 9.16.15	P509028-02A	Solid	09/16/15	09/16/15	Glass Jar, 4 oz.
Dunn E Wall 9.16.15	P509028-03A	Solid	09/16/15	09/16/15	Glass Jar, 4 oz.
Dunn W Wall 9.16.15	P509028-04A	Solid	09/16/15	09/16/15	Glass Jar, 4 oz.
Dunn floor 9.16.15	P509028-05A	Solid	09/16/15	09/16/15	Glass Jar, 4 oz.

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Dunn 9, 10, 11 Tank Battery
Project Number: 11195-0087
Project Manager: Tucker Smith

Reported:
21-Sep-15 08:14

Dunn N Wall 9.16.15
P509028-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.7 %		50-150	1538014	09/17/15	09/17/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1538013	09/17/15	09/17/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		117 %		50-200	1538013	09/17/15	09/17/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		103 %		50-150	1538014	09/17/15	09/17/15	EPA 8015D	

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Dunn 9, 10, 11 Tank Battery
Project Number: 11195-0087
Project Manager: Tucker Smith

Reported:
21-Sep-15 08:14

Dunn S Wall 9.16.15
P509028-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %		50-150	1538014	09/17/15	09/17/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1538013	09/17/15	09/17/15	EPA 8015D	
Surrogate: o-Terphenyl		95.4 %		50-200	1538013	09/17/15	09/17/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		101 %		50-150	1538014	09/17/15	09/17/15	EPA 8015D	

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Dunn 9, 10, 11 Tank Battery
Project Number: 11195-0087
Project Manager: Tucker Smith

Reported:
21-Sep-15 08:14

Dunn E Wall 9.16.15
P509028-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1538014	09/17/15	09/17/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1538013	09/17/15	09/17/15	EPA 8015D	
Surrogate: o-Terphenyl		92.8 %		50-200	1538013	09/17/15	09/17/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		102 %		50-150	1538014	09/17/15	09/17/15	EPA 8015D	

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370 17th Street
Denver CO, 80202

Project Name: Dunn 9, 10, 11 Tank Battery
Project Number: 11195-0087
Project Manager: Tucker Smith

Reported:
21-Sep-15 08:14

Dunn W Wall 9.16.15
P509028-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.1 %		50-150	1538014	09/17/15	09/17/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1538013	09/17/15	09/17/15	EPA 8015D	
Surrogate: o-Terphenyl		94.2 %		50-200	1538013	09/17/15	09/17/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		102 %		50-150	1538014	09/17/15	09/17/15	EPA 8015D	

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Encana Oil & Gas USA
 370 17th Street
 Denver CO, 80202

Project Name: Dunn 9, 10, 11 Tank Battery
 Project Number: 11195-0087
 Project Manager: Tucker Smith

Reported:
 21-Sep-15 08:14

Dunn floor 9.16.15
P509028-05 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %		50-150	1538014	09/17/15	09/17/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	19.9	mg/kg	1	1538014	09/17/15	09/17/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1538013	09/17/15	09/17/15	EPA 8015D	
Surrogate: o-Terphenyl		99.3 %		50-200	1538013	09/17/15	09/17/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		103 %		50-150	1538014	09/17/15	09/17/15	EPA 8015D	

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370 17th Street
Denver CO, 80202

Project Name: Dunn 9, 10, 11 Tank Battery
Project Number: 11195-0087
Project Manager: Tucker Smith

Reported:
21-Sep-15 08:14

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1538014 - Purge and Trap EPA 5030A

Blank (1538014-BLK1)

Prepared & Analyzed: 17-Sep-15

Benzene	ND	0.10	mg/kg
Toluene	ND	0.10	"
Ethylbenzene	ND	0.10	"
p,m-Xylene	ND	0.20	"
o-Xylene	ND	0.10	"
Total Xylenes	ND	0.10	"
Total BTEX	ND	0.10	"

Surrogate: 4-Bromochlorobenzene-PID 0.324 " 0.320 101 50-150

LCS (1538014-BS1)

Prepared & Analyzed: 17-Sep-15

Benzene	12300	ug/L	10000	123	75-125
Toluene	12400	"	10000	124	70-125
Ethylbenzene	12400	"	10000	124	75-125
p,m-Xylene	24700	"	20000	124	80-125
o-Xylene	12300	"	10000	123	75-125

Surrogate: 4-Bromochlorobenzene-PID 0.323 mg/kg 0.320 101 50-150

Matrix Spike (1538014-MS1)

Source: P509028-01

Prepared & Analyzed: 17-Sep-15

Benzene	11300	ug/L	10000	9.50	113	75-125
Toluene	11300	"	10000	32.5	113	70-125
Ethylbenzene	11200	"	10000	23.5	112	75-125
p,m-Xylene	23000	"	20000	70.7	115	80-125
o-Xylene	11300	"	10000	22.0	113	75-125

Surrogate: 4-Bromochlorobenzene-PID 0.327 mg/kg 0.320 102 50-150

Matrix Spike Dup (1538014-MSD1)

Source: P509028-01

Prepared & Analyzed: 17-Sep-15

Benzene	12600	ug/L	10000	9.51	125	75-125	10.2	15
Toluene	12500	"	10000	32.5	124	70-125	9.83	15
Ethylbenzene	12000	"	10000	23.5	119	75-125	6.19	15
p,m-Xylene	24700	"	20000	70.7	123	80-125	7.12	15
o-Xylene	12200	"	10000	22.0	122	75-125	7.59	15

Surrogate: 4-Bromochlorobenzene-PID 0.322 mg/kg 0.320 101 50-150

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Encana Oil & Gas USA	Project Name:	Dunn 9, 10, 11 Tank Battery	Reported: 21-Sep-15 08:14
370 17th Street	Project Number:	11195-0087	
Denver CO, 80202	Project Manager:	Tucker Smith	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1538013 - DRO Extraction EPA 3550M										
Blank (1538013-BLK1)				Prepared & Analyzed: 17-Sep-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	46.5		"	40.0		116	50-200			
LCS (1538013-BS1)				Prepared & Analyzed: 17-Sep-15						
Diesel Range Organics (C10-C28)	543	25.0	mg/kg	500		109	38-132			
Surrogate: o-Terphenyl	48.7		"	40.0		122	50-200			
Matrix Spike (1538013-MS1)				Source: P509028-01 Prepared & Analyzed: 17-Sep-15						
Diesel Range Organics (C10-C28)	538	25.0	mg/kg	500	ND	108	38-132			
Surrogate: o-Terphenyl	47.4		"	40.0		118	50-200			
Matrix Spike Dup (1538013-MSD1)				Source: P509028-01 Prepared & Analyzed: 17-Sep-15						
Diesel Range Organics (C10-C28)	540	25.0	mg/kg	500	ND	108	38-132	0.304	20	
Surrogate: o-Terphenyl	42.4		"	40.0		106	50-200			

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Dunn 9, 10, 11 Tank Battery
Project Number: 11195-0087
Project Manager: Tucker Smith

Reported:
21-Sep-15 08:14

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1538014 - Purge and Trap EPA 5030A										
Blank (1538014-BLK1)				Prepared & Analyzed: 17-Sep-15						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.328		"	0.320		102	50-150			
LCS (1538014-BS1)				Prepared & Analyzed: 17-Sep-15						
Gasoline Range Organics (C6-C10)	230		mg/L	196		117	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.322		mg/kg	0.320		101	50-150			
Matrix Spike (1538014-MS1)				Source: P509028-01		Prepared & Analyzed: 17-Sep-15				
Gasoline Range Organics (C6-C10)	210		mg/L	196	9.85	102	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.326		mg/kg	0.320		102	50-150			
Matrix Spike Dup (1538014-MSD1)				Source: P509028-01		Prepared & Analyzed: 17-Sep-15				
Gasoline Range Organics (C6-C10)	228		mg/L	196	9.86	111	75-125	8.51	15	
Surrogate: 4-Bromochlorobenzene-FID	0.322		mg/kg	0.320		101	50-150			

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Encana Oil & Gas USA
370 17th Street
Denver CO, 80202

Project Name: Dunn 9, 10, 11 Tank Battery
Project Number: 11195-0087
Project Manager: Tucker Smith

Reported:
21-Sep-15 08:14

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference

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Client: Encana Oil & Gas
 Project: Dunn 9, 10, 11 Tank Battery
 Sampler: Tucker Smith
 Phone: 979-204-7485
 Email(s): tucker.smith@encana.com
 Project Manager: Tucker Smith

RUSH?

☐ 1d
☒ 3d

Lab Use Only		Analysis and Method										Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	Chloride by 300.0								Lab Number	Correct Cont/Prsrv (s) Y/N
Job Number													
P509028													
11195-0087													
Page 1 of 1													

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	Chloride by 300.0										
Dunn N wall 9.16.15	9/16/15	11:20	Soil	1 glass	✓	✓	✓									1	Y
Dunn S wall 9.16.15	1	11:20														2	
Dunn E Wall 9.16.15		11:20														3	
Dunn W Wall 9.16.15		11:20														4	
Dunn floor 9.16.15		11:20														5	

Relinquished by: (Signature) <u>Tucker Smith</u>	Date <u>9/16/15</u>	Time <u>16:12</u>	Received by: (Signature) <u>Alana Pizio</u>	Date <u>9/16/15</u>	Time <u>3:23</u>	Lab Use Only	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice Y / N T1 <u>5.1</u> T2 <u> </u> T3 <u> </u> AVG Temp °C <u>4.0</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other S Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days.

<input type="checkbox"/> Sample(s) dropped off after hours to a secure drop off area.	Chain of Custody	Notes/Billing info:
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Chain of Custody

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