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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

	Form C-141
	Revised August 24, 2018
Submit	to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	-

# Release Notification

# Responsible Party

, Ste 1700 Der  cocation of Relea  Long (A ID 88 m skeemal skepeer)	gitude 107.411890° to 5 deconal places) e Type Tank Battery 1# of applicables 30-039-31219
, Ste 1700 Der  cocation of Relea  Long (VID 83 in decimal degree)  Site API	nver, CO 80202  ase Source  gitude 107.411890°  to 5 decorate places)  e Type Tank Battery  1# apoplicables 30-039-31219
, Ste 1700 Der  Long (A ID 88 m skeemal skegees)  Site API	ase Source gitude 107.411890° In 8 de conal places  e Type Tank Battery  1# apapheables 30-039-31219
Long (X4D 83 in deemal degrees)    Site   AP	gitude 107.411890° to 5 deconal places) e Type Tank Battery 1# of applicables 30-039-31219
(N4D 83 in decimal degrees) Site API	to 8 decimal placess  2 Type Tank Battery  1# of applicables 30-039-31219
API	1# 19 applicables 30-039-31219
1	
Range	
The second secon	County
6W R	tio Arriba DENIED
	Volume Recovered (bbls) 5.0
80	Volume Recovered (bbls) 70
	IDS) Yes No
	Volume Recovered (bbls)
rf)	Volume Recovered (Mcf)
ised (provide units)	Volume Weight Recovered (provide units)
	ls) 5.7

NMOCD

59

SEP 2 0 2018



### Smith, Cory, EMNRD

From:

Smith, Cory, EMNRD

Sent:

Tuesday, October 16, 2018 1:59 PM

To:

'Buck, Paul R.'

Cc:

'Merrell, Steven E.'; Fields, Vanessa, EMNRD

Subject:

RE: Lybrook A12 2306 Final C141 and attachments

Paul,

OCD has reviewed the final C-141 for the Lybrook A12 (Incident # nVF1821833715) received on September 20, 2018 and has Denied the Final C-141 for the following reasons

- Per 19.15.29.12 The closure report needs to include a scaled site and sampling diagram. For a more detailed explanation of a site map reference 19.15.29.11.A(1)
- C-141 is photocopied and the details some details are illegible.

As previously mentioned on September 5, "the site map and impacted areas need to be redone. Encana needs to provide a Detailed site map that include impacted areas, sample area, has a scale, northing etc. Please see 19.15.29.12 NMAC for the requirements of the closure report."

Please correct the above issues and submit a new C-141 closure report. If you have any additional questions please give me a call.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Smith, Cory, EMNRD

**Sent:** Monday, September 24, 2018 8:04 AM **To:** Buck, Paul R. <Paul.Buck@encana.com>

Cc: Merrell, Steven E. <Steven.Merrell@encana.com>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>

Subject: RE: Lybrook A12 2306 Final C141 and attachments

Paul,

Per the rule OCD has 60 days to review the closure report and approve or deny it.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 115 cory.smith@state.nm.us

From: Buck, Paul R. < Paul.Buck@encana.com > Sent: Thursday, September 20, 2018 10:36 AM To: Smith, Cory, EMNRD < Cory.Smith@state.nm.us >

Cc: Merrell, Steven E. <Steven.Merrell@encana.com>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>

Subject: RE: Lybrook A12 2306 Final C141 and attachments

Hi Cory,

Understood, thank you. Rouhgly how long do you think it will take to approve after the complete submittal? Thank you,

Paul

#### **Paul Buck**

Manager, Field Environmental, Western Operations t 720.876.3513 c 303.882.5868

### **Encana Services Company Ltd.**

#### Encana.com

Encana Services Company Ltd. provides operational, corporate, administrative and advisory services to Encana Corporation and its subsidiaries.

From: Smith, Cory, EMNRD < Cory. Smith@state.nm.us>

**Sent:** Thursday, September 20, 2018 10:32 AM **To:** Buck, Paul R. <Paul.Buck@encana.com>

Cc: Merrell, Steven E. <Steven.Merrell@encana.com>; Fields, Vanessa, EMNRD <Vanessa.Fields@state.nm.us>

Subject: RE: Lybrook A12 2306 Final C141 and attachments

Paul,

Encana will need to send the complete and correct Final C-141 Closure repot via hardcopy to include all the necessary documents as required by 19.15.29 NMAC.

Once it has been approved the signed copy will be located on the Lybrook A12 2306 well file.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Buck, Paul R. < <a href="mailto:Paul.Buck@encana.com">Paul.Buck@encana.com</a>>
Sent: Tuesday, September 18, 2018 9:30 AM

To: Smith, Cory, EMNRD < Cory.Smith@state.nm.us > Cc: Merrell, Steven E. < Steven.Merrell@encana.com > Subject: RE: Lybrook A12 2306 Final C141 and attachments

Hi Cory,

The attached complete report from Envirotech includes all required mapping. Additionally, I've attached pictures of the areas sampled prior to back fill. I think that this completes the final C141 submittal. Does this email meet the requirements or would you prefer that I send via hard copy? Lastly, for next steps, will you send back the C141 with your signature approving the closure? If so, roughly when can we expect this? Thank you for your help moving us through this new process.

Paul

### **Paul Buck**

Manager, Field Environmental, Western Operations t 720.876.3513 c 303.882.5868

## Encana Services Company Ltd.

Encana.com

Encana Services Company Ltd. provides operational, corporate, administrative and advisory services to Encana Corporation and its subsidiaries.

From: Smith, Cory, EMNRD < Cory. Smith@state.nm.us>

**Sent:** Wednesday, September 5, 2018 7:10 AM **To:** Buck, Paul R. <Paul.Buck@encana.com>

Cc: Fields, Vanessa, EMNRD < Vanessa. Fields@state.nm.us > Subject: RE: Lybrook A12 2306 Final C141 and attachments

Paul.

Taking a quick glance I think the site map and impacted areas need to be redone. Encana needs to provide a Detailed site map that include impacted areas, sample area, has a scale, northing etc. Please see 19.15.29.12 NMAC for the requirements of the closure report.

Encana also need to include pictures of the remediation prior to backfill.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Buck, Paul R. < Paul.Buck@encana.com>

Sent: Friday, August 31, 2018 2:20 PM

**To:** Smith, Cory, EMNRD < Cory.Smith@state.nm.us > **Subject:** Lybrook A12 2306 Final C141 and attachments

Hi Cory,

The final C141 and all (I hope) required documents for the Lybrook A12 2306 release are attached. Please let me know if you have any questions or need more detail. Thank you and have a good long weekend.

Paul

### **Paul Buck**

Manager, Field Environmental, Western Operations t 720.876.3513 c 303.882.5868

Encana Services Company Ltd. Encana.com

Encana Services Company Ltd. provides operational, corporate, administrative and advisory services to Encana Corporation and its subsidiaries.

Form C-141 Page 2

## State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?				
release as defined by  This was a release of greater than 25 barrels.					
19.15.29.7(A) NMAC?					
X Yes No					
If YES, was immediate n	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?				
	k with Encana to Cory Smith of the OCD by phone on 7/28/2018 at 2:02 pm				
	Initial Response				
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury				
[ ] The source of the rele	ease has been stopped.				
	as been secured to protect human health and the environment.				
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.				
	recoverable materials have been removed and managed appropriately.				
	ed above have not been undertaken, explain why:				
If all the actions describe	a above have jien been undertaken, e spian stry.				
	11/14				
Per 19.15.29.8 B. (4) NA	MAC the responsible party may commence remediation immediately after discovery of a release. If remediation is narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred				
within a lined containme	ent area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.				
Thereby certify that the info	formation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and				
regulations all operators are	e required to report and/or file certain release notifications and perform corrective actions for releases which may endanger iment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have				
failed to adequately investig	gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In				
addition, OCD acceptance of	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.					
Printed Name	Title				
Signature:	Date:				
.ngnature					
email:	Telephone:				
0.000.0					
OCD Only					
Received by:	Date:				

Form C-141 Page 3

### State of New Mexico Oil Conservation Division

Incident ID	I	
District RP		
Facility ID		
Application ID		

# Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date

What is the shallowest depth to groundwater beneath the area affected by the release?	51-100 (ft bgs)			
Did this release impact groundwater or surface water?	Yes X No			
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes 🔀 No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	Yes X No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	Yes X No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	Yes X No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	Yes X No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🗶 No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🖪 No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🕅 No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes 🛛 No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes 🗶 No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes 🗶 No			
Attack a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within before the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Acrial maps  Laboratory data including chain of custody				
1				

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15-29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141

Page 4

## State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may enclanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.					
Printed Name:	Title:				
Signature:	Date:				
email:	Telephone:				
OCD Only Received by:	Date:				

Form C-141 Page 5

## State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	 -

# Remediation Plan

Remediation Plan Cl	hecklist: Euch of the following items must be included in the plan.			
Scaled sitemap wi Estimated volume Closure criteria is	on of proposed remediation technique ith GPS coordinates showing delineation points of material to be remediated to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC of remediation (note if remediation plan timeline is more than 90 days OCD approval is required)			
Deferral Requests O	nly: Each of the following items must be confirmed as part of any request for deferral of remediation.			
Contamination me deconstruction.	ust be in areas immediately under or around production equipment where remediation could cause a major facility			
Extents of contam	nination must be fully delineated			
Contamination do	ses not cause an imminent risk to human health, the environment, or groundwater.			
Thereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.				
Printed Name:	Fitle:			
Signature:	Date:			
email:	1 elephone:			
OCD Only				
Received by:	Date:			
Approved	Approved with Attached Conditions of Approval Denied Deferral Approved			
Signature:	Date:			

Form C-141 Page 6

### State of New Mexico Oil Conservation Division

Incident ID			
District RP			
Facility ID			
Application ID		-	

# Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the foll	lowing items must be included in the closure report.
A scaled site and sampling diagram as described in 19	.15.29.11 NMAC
Photographs of the remediated site prior to backfill or must be notified 2 days prior to liner inspection)	photos of the liner integrity if applicable (Note: appropriate OCD District office
k Laboratory analyses of final sampling (Note: appropri-	ate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or fil may endanger public health or the environment. The accept should their operations have failed to adequately investigate human health or the environment. In addition, OCD accept compliance with any other federal, state, or local laws and/or restore, reclaim, and re-vegetate the impacted surface area to	complete to the best of my knowledge and understand that pursuant to OCD rules le certain release notifications and perform corrective actions for releases which tance of a C-141 report by the OCD does not relieve the operator of liability and remediate contamination that pose a threat to groundwater, surface water, ance of a C-141 report does not relieve the operator of responsibility for or regulations. The responsible party acknowledges they must substantially to the conditions that existed prior to the release or their final land use in to the OCD when reclamation and re-vegetation are complete.
Printed Name Paul Buck	Title: Manager, Field Environmental
Signature WWW Dow	Date: 8/31/2018
email: paul.buck@encana.com	Telephone: 720-876-3513
OCD Only Received by:	Date: 16/16/8
remediate contamination that poses a threat to groundwater, par'	le party of hability should their operations have failed to adequately investigate and surface water, human health, or the environment nor does not relieve the responsible ws and/or regulations
CIO DENIED	Date:
Prii	l'itle



Site and and Sampling Diagram (included in Envirotech report located in Lab Analysis Below)



Photographs of Remediated Site prior to Clean Up





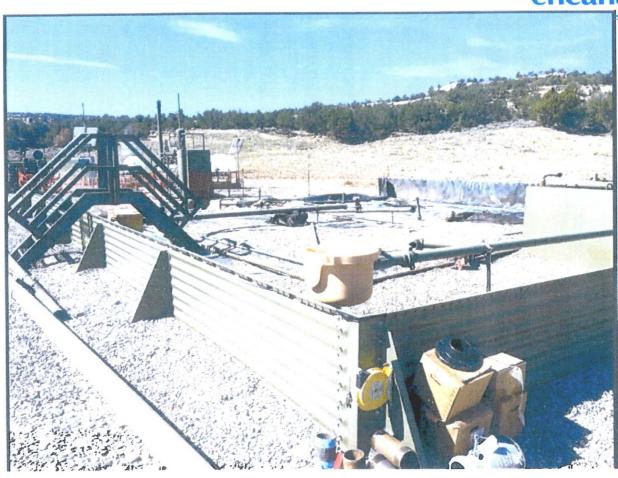








# encana





Labaratory Analysis



September 17, 2018

Mr. Steven Merrell Encana Oil & Gas (USA) Inc. 6584 E. Main Street Farmington, NM 87402

Email: steven.merrell@encana.com Phone: (505) 634-6490

Project Number: 11195-0228

RE: CONFIRMATION SAMPLING DOCUMENTATION FOR THE LYBROOK A12 2306 01H UNIT A WELL SITE, RIO ARRIBA COUNTY, NEW MEXICO

Dear Mr. Merrell:

Enclosed please find the Vicinity Map, Site Map, Sitting Criteria Map, Field Notes, Summary of Analytical Results, and Analytical Results for confirmation sampling activities performed at the Lybrook A12 2306 01H Unit: A well site located in Section 12, Township 23 North, Range 6 West, Rio Arriba County, New Mexico (Site); see Vicinity Map. Upon Envirotech personnel's arrival on August 16, 2018, a brief site assessment was conducted. A wash was visualized to the east of the site and depth to groundwater is estimated to be between 51-100 feet below ground surface (bgs) at the wash. Based on groundwater being between 51-100 feet below the area of release and the area of release not being with in the sitting criteria referenced in the New Mexico Administrative Code (NMAC) 19.15.29.12(4)(a-h). The regulatory standards for the site were determined to be 2,500 mg/Kg total petroleum hydrocarbons (TPH), 50 mg/Kg BTEX, 10 mg/Kg benzene, and 10,000 mg/Kg chlorides pursuant to Table I of 19.15.12 NMAC.

Prior to Envirotech's arrival on August 16, 2018, the affected area had been hydroexcavated. The hydroexcavation was divided into three (3) sections identified as: Inside Containment, East of Ladder, and South of Ladder. The Inside Containment section measured approximately six (6) feet by four (4) feet by two (2) inches to three (3) feet below ground surface (bgs). The East of Ladder section measured approximately four (4) feet by three (3) feet by one (1) foot to three (3) feet bgs. The South of Ladder section measured approximately five (5) feet by four (4) feet by one (1) foot to two (2) feet bgs. One (1) five (5) point composite sample was collected from the three (3) sections of the excavation. After visually inspecting the liner, a hole was found. The liner was peeled back, and the contaminated soil was removed using a hand shovel. One (1) three (3) point composite sample was collected (Under Liner). The samples were screened in the field for organic vapors using a photoionization detector (PID). The Inside Containment sample returned results of 2.5 ppm OV, the East of Ladder sample returned results of 0.0 ppm OV, the South of Ladder sample returned results of 9.7 ppm OV, the *Inside Containment* sample returned results of 2.5 ppm OV, and the Under Liner sample returned results of 41.4 ppm OV; see Field Notes. Encana elected to postpone confirmation sampling until further excavation of the impacted area and additional work to the site was completed.

Envirotech returned to the site on August 29, 2018 to perform confirmation sampling activities. Prior to Envirotech's arrival, the affected area had been further hydroexcavated. The excavation was divided into two (2) sections: Section 1 and Section 2. Section 1 measured approximately

Encana

Lybrook A12 2306 01H Unit A Confirmation Sampling

Project Number: 11195-0228

Page 2

twelve (12) feet by four (4) feet by one (1) foot to three (3) feet bgs. Section 2 measured approximately eight (8) feet by three (3) feet by two (2) feet bgs. The area under the liner (Under Liner) was also excavated to the extents of approximately two (2) feet by one (1) foot by six (6) inches bgs. One (1) five (5) point composite sample was collected from Section 1, Section 2, under the liner, and along the western edge of the location (Bladed Area) due to splatter from the tank and the manifold located on top of the tanks when they broke apart with New Mexico Oil Conservation Division (NMOCD), Mr. Cory Smith, and Bureau of Land Management (BLM) representative, Mr. Abiodun "Emanuel" Adeloye, as witnesses; see Field Notes and Site Map. The samples were screened in the field for organic vapors using a PID. All four samples returned results of 0.0 ppm OV. The samples were placed into individual laboratory provided four (4) ounce jars, capped headspace free, and transported on ice under strict chain of custody to Envirotech's Analytical Laboratory to be analyzed for TPH (DRO/GRO/ORO) using USEPA Method 8015D, benzene and total BTEX using USEPA Method 8260B, and chlorides using USEPA Method 300.0. The samples returned results below the regulatory standards all constituents analyzed; see enclosed Analytical Results and Summary of Analytical Results. Envirotech, Inc. recommends No Further Action in regards to this incident.

A total of 196 barrels of hydrocarbon contaminated gravel and soil from within the lined containment and the impacted soil outside the containment was disposed of at Envirotech's New Mexico Oil Conservation Division (NMOCD) permitted facility, Landfarm #2; see enclosed *Bills of Lading*.

We appreciate the opportunity to be of service. Should you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully submitted, ENVIROTECH, INC.

Brittany Hall

Environmental Field Technician bhall@envirotech-inc.com

Enclosure(s):

Vicinity Map Water Well Map Site Map

Sitting Criteria Map

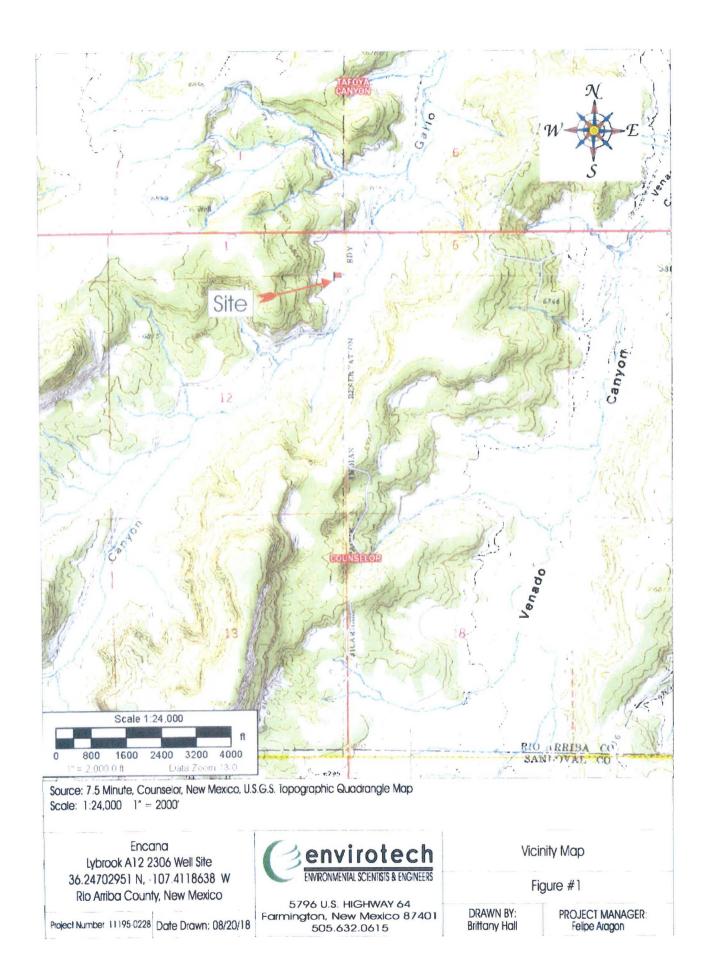
Field Notes

Summary of Analytical Results

Analytical Results Site Photography Bills of Lading

Ce

Client File Number 11195





# LEGEND

- to them !
- Section 2
- **Vunder Liner**
- x Sample Locations

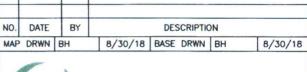
# SITE MAP Encana

Lybrook A12 2306 SECTION 12, TWP 23 NORTH, RANGE 6 WEST RIO ARRIBA COUNTY, NEW MEXICO

PROJECT NO.11195-0228

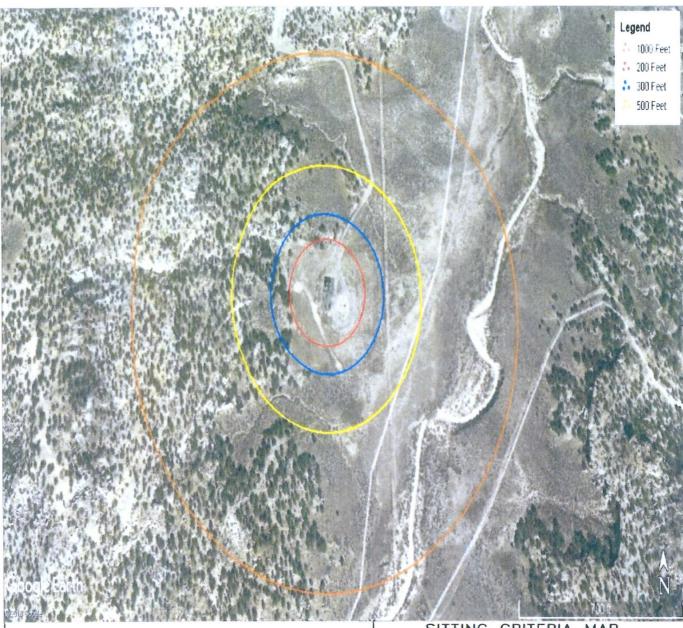
FIGURE NO. 2

REVISIONS





5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615



# LEGEND

- 200 Feet
- ○300 Feet
  - 500 Feet
    - 1,000 Feet

## SITTING CRITERIA MAP Encana

Lybrook A12 2306
SECTION 12, TWP 23 NORTH, RANGE 6 WEST RIO ARRIBA COUNTY, NEW MEXICO

SCAL	SCALE:				FIGURE NO. 3				
PRO	JECT NO	11195-	0228		LINO	. 3			
				REVISION	ONS				
					********				
NO.	DATE	BY			DES	CRIPTIC	N		
MAP	DRWN	ВН	8/	30/18	BASE	DRWN	ВН	8/30/18	

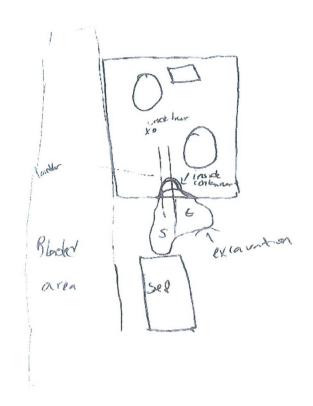


5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

CLIENT:	Encana				Envmtl. Spclst:	KJO	4
CLIENT/JOB#:	11195-0228	(2)0	nvirot	ech	C.O.C. No:		
START DATE:	Chielis	W	) 632-0615 (800		LAT	34.2	4-102951
FINISH DATE:		5796 U	S. Hwy 64, Farming	ton, NM 87401	LONG	-107	.4118638
Page #	of					-	
	Fie	ld Report:	Spill Closur	e Verificatio	n	F-13/49	1000
NMOCD Ranking:			Depth to GW:		WH Protection	Area: No	Yes
NMOCD TPH Clo			istance to SW:	555.911			
LOCATION:	Name: Lubriok	A12	Well#:	230614	API:	30-039-3	NIG.
	County: Ris wat	200	State:N				
Cause of Release:	lightening chi	ito 1	faterial Released:	Produced	under Ami	. Released:	
		12	TWP: 234	RNG	Lew	PM:	
Wellhead Lat/Long:		Land Ju		ral		n Ann Millian Rossell (1800) and an annual an annual and an annual an an	_
Spill Located Approximately: FT. FROM Ast battery + secondary contament							
Excavation Approx	15 FT. X	_15_F			Cubic Yardage:		
Disposal Facility:			Remed	iaton Method:	E-0	~~~~	
Land Use:		L	ease:		Land Owner: I	ederal	
		ngamun derdoriselven od en sanntimme e	ELD 418.1 ANL	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE PERSON NAME			
SAMPLE DESCR	IPITION TIME	SAMPLE I.D.	WEIG	II (g) ml FREON	DILUTION RE	ADING C	ALC. ppm
		-	and the second second second				
		ļ			-		
					-		
	OVM F	Results	No. of the last of		Lab Testing		TANK SUMMER SERVICE SERVICES
Sample II)	Freid Headspace PtD (ppm	Sample ID	Field Headspace PID	(ppm) Sample ID	Anal	lysis Type	Ţime
Est Stais	0.00					5 told lote	e/ci
Sof Stain	9.7	-			A		
Inside Contem	41.4						
West III	1 11				****		

Ap over

M



8/10/18- Closure falls under new rule.

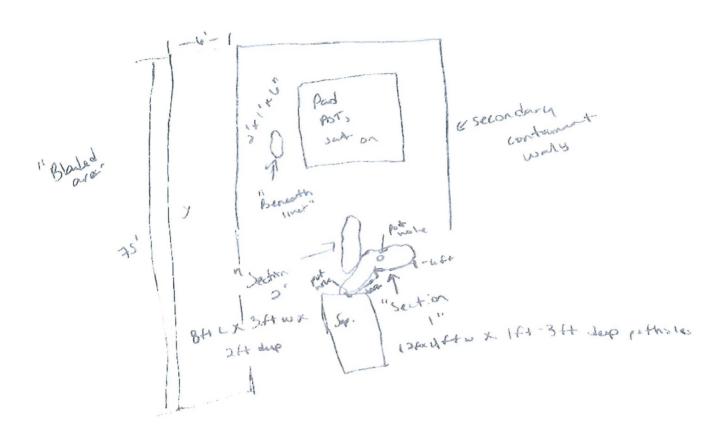
5 pt composite taken from east of backler
5 pt composite taken from South of ladder
5 pt composite taken from inside contaminant
5 pt composite taken from blooded ourse
3 pt can posite from under liver (where hole was found)

and will resample when work (additional)
is complete. Per Steven Mervil.
Going to be digging but piping to separator & removing repaints
damented lines protostaly early right week
East of ladder ~ 4': x3" x 1 foot to 3 feel deep

Sof ladder ~ 5" x 4" x 1" to 2" deep

Triside containment ~ 6" long x 4" wide x 2" to 3" deep

					Proceedings of the Park of the	A CONTRACTOR OF THE PROPERTY OF THE PARTY OF	ordinary proportion in	The second second second
CLIENT: Enlance					Envmtl. Sp	clst:	Brown	
CLIENT/JOB#: 1100-0	Bec	3envii	otec	h	C.O.C. No:		-	
START DATE: 8 200/1	1 10	(505) 632-0611			LAT	-	36.24	Pasasi
FINISH DATE:		5796 U.S. Hwy 64,	Farmington, NA	487401	LONG			13638
	f				20110		7.14	1 2 198 0
r age n	AND DESCRIPTION OF THE PARTY OF	eport: Spill C	losure Ve	rification	1000	343.750	DK S	
				and provided in the last continuous of the conti			Jalo I	Vac
-	500	Depth to			WH Protect	tion Area:	No	Yes
NMOCD TPH Closure Std.:		Distance to	SW: 555.6	r for		ADI G	do mo	
	prope wit		Well #: 23		a ve ve	API: 56	0 39-	31219
	o aniba		State: NM					
Cause of Release: Itahkan	y Strike	Material Re	leased:	podred	ue to	Amt. Releas	sed:	
QUAD/UNIT:	SEC: 12	TWP:	23N	RNG:	un	PM	:	
Wellhead Lat/Long:		Land Jurisdiction:	Jedwa 1		QTR Footag	e:		
Spill Located Approximately:	Ø FT.		FROM /	And But	rn tall	molecy c	ander	turn
Excavation Approx: F1	. X				•	•		
Disposal Facility			Remediaton N				101111111111111111111111111111111111111	
Land Use:		Lease:			Land Owner	:		
and the state of t		FIELD 418.	I ANLAYSI	S	**************************************			
SAMPLE DESCRIPITION	TIME SAME	PLE LD.	WEIGHT (g)	ml. FREON	DILUTION	READING	CA	LC. ppm
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	OVM Results				Tab Tradi		1	
Completio Freid Headspace	- T		pace PID (ppm)	6 1 111	Lab Testin	-		
Sample ID Field Headspace	Sampl	le (I)	T Freeze	Sample ID		Analysis Typ	e 1	ime
section 1 3.0							-	
serbon 2 e.u								
Bladed area Qui								



1-30° 14.8379 10724,7312 2-36° 14.8377 107.24.7311	Section 2
3-36° 14.8373 107. 24.7316 1-36° 14.8368 107 24.7316	
5-36° 14.3354 107° 24.7314 1-36° 14.8334 107° 24.7340	tout (+ 5 mg)
2-36° 14. 3337 107 24. 3322 3-36° 14. 3347 107° 24. 7330	4-34° 14, 8360 107° 24. 7314 5-36° 14. 8367 107° 24. 73.19

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(c)	156. 401 W W. 46. 46. 401 1568. 41.08 N WX '41.06.
S	allocks formand

## Table 1, Summary of Analytical Results

### Encana

### Lybrook A12 2306 01H Unit A Spill Confirmation Sampling Report Project Number 11195-0228

				USEPA Method	USEPA Method 8260		USEAP Method
		Sample	PID OV	8015 TPH	Benzene		300.0 Chloride
Date	Sample Description	Number	(pp <b>m</b> )	(mg/Kg)	(mg/Kg)	BTEX (mg/Kg)	(mg/Kg)
	New Mexico Oil Conservation						
NA	Division Standards	NA	NA	2,500	10	50	10,000
8/29/2018	Under Liner	1	0	44.8	ND	ND	62.1
8/29/2018	Section 1	2	0	ND	ND	ND	1000
8/29/2018	Section 2	3	0	87.4	ND	ND	229
8/29/2018	Bladed Area	4	0	41.8	ND	ND	79.9

<sup>\*</sup>NS= Not Sampled

<sup>\*</sup>ND= Analyte below detection limit



## **Analytical Report**

### **Report Summary**

Client: Encana Oil & Gas USA

Chain Of Custody Number:

Samples Received: 8/29/2018 12:27:00PM

Job Number: 11195-0228 Work Order: P808054

Project Name/Location: Soil Sampling Lybrook

A12-2306 01 Unit A

Report Reviewed By:	Wallet Hinker	Date:	8/31/18	
	Walter Hinchman, Laboratory Director			
	Tim Cain, Project Manager	Date:	8/31/18	



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Encana Oil & Gas USA Project Name: Soil Sampling Lybrook A12-2306 01 Unit A

 370 17th Street
 Project Number.
 11195-0228
 Reported:

 Denver CO, 80202
 Project Manager:
 Felipe Aragon
 08/31/18 13:59

### **Analyical Report for Samples**

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container	
Under Liner	P808054-01A	Soil	08/29/18	08/29/18	Glass Jar, 4 oz.	
Section 1	P808054-02A	Soil	08/29/18	08/29/18	Glass Jar, 4 oz.	
Section 2	P808054-03A	Soil	08/29/18	08/29/18	Glass Jar, 4 oz.	
Bladed Area	P808054-04Λ	Soil	08/29/18	08/29/18	Glass Jar, 4 oz.	



Encana Oil & Gas USA Project Name: Soil Sampling Lybrook A12-2306 01 Unit A

 370 17th Street
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 08/31/18 13:59

### Under Liner P808054-01 (Solid)

		Reporting	,						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	25.0	ug/kg	Ī	1835008	08/29/18	08/29/18	EPA 8260B	
Toluene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Ethylbenzene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
p.m-Xylene	ND	50.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
o-Xylene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Total Xylenes	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Surrogate. 1,2-Dichloroethane-d4		104 %	70-	130	1835008	08/29/18	08/29/18	EPA 8260B	
Surrogate: Toluene-d8		89.8 %	70-	130	1835008	08/29/18	08/29/18	EPA 8260B	
Surrogate: Bromofluorobenzene		103 %	70-	130	1835008	08/29/18	08/29/18	EPA 8260B	
Nonhalogenated Organics by 8015								23.25.25.25.25.25.25.25.25.25.25.25.25.25.	
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1835008	08/29/18	08/30/18	EPA 8015D	
Diesel Range Organics (C10-C28)	44.8	25.0	mg/kg	1	1835009	08/29/18	08/29/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1835009	08/29/18	08/29/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.4 %	50-	150	1835008	08/29/18	08/30/18	EPA 8015D	
Surrogate: n-Nonane		120 %	50-	200	1835009	08/29/18	08/29/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	62.1	20.0	mg/kg	1	1835011	08/29/18	08/29/18	EPA 300.0/9056A	



Project Name:

Soil Sampling Lybrook A12-2306 01 Unit A

370 17th Street Denver CO, 80202 Project Number: Project Manager: 11195-0228 Felipe Aragon Reported: 08/31/18 13:59

Section 1

Section 1 P808054-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Toluene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Ethylbenzene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
p.m-Xylene	ND	50.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
o-Xylene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Total Xylenes	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-	130	1835008	08/29/18	08/29/18	EPA 8260B	
Surrogate: Toluene-d8		89.7%	70-	130	1835008	08/29/18	08/29/18	EPA 8260B	
Surrogate: Bromofluorobenzene		103 %	70-	130	1835008	08/29/18	08/29/18	EPA 8260B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1835008	08/29/18	08/30/18	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1835009	08/29/18	08/29/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	1	1835009	08/29/18	08/29/18	EPA 8015D	
Surrogate. 1-Chloro-4-fluorobenzene-FID		96.9 %	50-	150	1835008	08/29/18	08/30/18	EPA 8015D	
Surrogate: n-Nonane		115 %	50-	200	1835009	08/29/18	08/29/18	EPA 8015D	
Anions by 300.0/9056A				***************************************					
Chloride	1000	20.0	mg/kg	1	1835011	08/29/18	08/29/18	EPA 300.0/9056A	



Project Name:

Soil Sampling Lybrook A12-2306 01 Unit A

370 17th Street

Project Number:

11195-0228

Reported:

Denver CO, 80202

Project Manager:

Felipe Aragon

08/31/18 13:59

### Section 2 P808054-03 (Solid)

		Reporting			1				
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Toluene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Ethylbenzene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
p,m-Xylene	ND	50.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
o-Xylene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Total Xylenes	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Surrogate: 1.2-Dichloroethane-d4		105 %	70-	-130	1835008	08/29/18	68/29/18	EPA 8260B	
Surrogate: Toluene-d8		89.1 %	70-	-130	1835008	08/29/18	08/29/18	EPA 8260B	
Surrogate: Bromofluorobenzene		103 %	70-	-130	1835008	08/29/18	08:29/18	EPA 8260B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1835008	08/29/18	08/30/18	EPA 8015D	
Diesel Range Organics (C10-C28)	87.4	25.0	mg/kg	1	1835009	08/29/18	08/29/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	t	1835009	08/29/18	08/29/18	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		95.2 %	50-	-150	1835008	08/29/18	08/30/18	EPA 8015D	
Surrogate: n-Nonane		112 %	50-	-200	1835009	08/29/18	08/29/18	EPA 8015D	
Anions by 300.0/9056A									
Chloride	229	20.0	mg/kg	1	1835011	08/29/18	08/29/18	EPA 300.0/9056A	



Project Name:

Soil Sampling Lybrook A12-2306 01 Unit A

370 17th Street

Project Number:

11195-0228

Reported:

Denver CO, 80202

Project Manager:

Felipe Aragon

08/31/18 13:59

### Bladed Area P808054-04 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Benzene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Toluene	ND	25,0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Ethylbenzene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
p,m-Xylene	ND	50.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
o-Xylene	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Total Xylenes	ND	25.0	ug/kg	1	1835008	08/29/18	08/29/18	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %	70-	-130	1835008	08/29/18	08/29/18	EPA 8260B	
Surrogate: Toluene-d8		89.0 %	70-	-130	1835008	08/29/18	08/29/18	EPA 8260B	
Surrogate: Bromofluorobenzene		102%	70-	-130	1835008	08/29/18	08/29/18	EPA 8260B	
Nonhalogenated Organics by 8015									
Gasoline Range Organies (C6-C10)	ND	20.0	mg/kg	1	1835008	08/29/18	08/30/18	EPA 8015D	
Diesel Range Organics (C10-C28)	41.8	25.0	mg/kg	1	1835009	08/29/18	08/29/18	EPA 8015D	
Oil Range Organics (C28-C40+)	ND	50.0	mg/kg	l	1835009	08/29/18	08/29/18	EPA 8015D	
Surrogate. 1-Chloro-4-fluorohenzene-FID		95.8 %	50-	-150	1835008	08/29/18	08/30/18	EPA 8015D	
Surrogate n-Nonane		132 %	50	-200	1835009	08/29/18	08/29/18	EPA 8015D	
Anions by 300.0/9056A						<b>W</b>			
Chloride	79.9	20.0	mg/kg	1	1835011	08/29/18	08/29/18	EPA 300.0/9056A	



Project Name:

Soil Sampling Lybrook A12-2306 01 Unit A

370 17th Street

Project Number:

11195-0228

Reported:

Denver CO, 80202

Project Manager:

Felipe Aragon

08/31/18 13:59

### Volatile Organic Compounds by 8260 - Quality Control

### **Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1835008 - Purge and Trap EPA 5030A								-		
Blank (1835008-BLK1)				Prepared &	Analyzed:	08/29/18 1				
Benzene	ND	25.0	ug/kg							
Foluene	ND	25.0	**							
Ethylbenzene	ND	25.0								
,m-Xylene	ND	50.0								
o-Xylene	ND	25.0	***							
Total Xylenes	ND	25.0								
Surrogate 1,2-Dichloroethane-d4	532		**	500		106	70-130			
Surrogate Toluene-d8	453		**	500		90.5	70-130			
inrrogate: Bromofluorobenzene	525			500		105	70-130			
.CS (1835008-BS1)	Prepared & Analyzed: 08/29/18 1									
Benzene	2550	25.0	ug/kg	2500		102	70-130			
Foluene	2110	25.0		2500		84.6	70-130			
Ethylbenzene	2180	25.0		2500		87.2	70-130			
p,m-Xylene	4400	50.0	P.	5000		88.1	70-130			
-Xylene	2240	25.0		2500		89.5	70-130			
Total Xylenes	6640	25.0		7500		88.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	526			500		105	70-130			
Surrogate: 1,2-12tentoraemane-ass	149		**	500		89.8	70-130			
Surrogate: Bromofluorobenzene	513		,,	500		103	70-130			
Matrix Spike (1835008-MS1)	Sou	rce: P808049-	01	Prepared &	Analyzed:	08/29/18 1				
Benzene	2690	25.0	ug/kg	2500	ND.	108	48-131			
foluene	2220	25.0	"B NB	2500	ND	88.8	48-130			
Ethylbenzene	2270	25.0		2500	ND	91.0	45-135			
p,m-Xylene	4600	50.0	44	5000	ND	91.9	43-135			
o-Xylene	2340	25.0	**	2500	ND	93.5	43-135			
Total Xylenes	6930	25.0		7500	ND	92.5	43-135			
Surrogate 1,2-Dichloroethane-d4	523		**	500		105	70-130			
Surrogate, Toluene-d8	448		**	500		89.6	70-130			
Surrogate. Bromofluorobenzene	506			500		101	70-130			
Matrix Spike Dup (1835008-MSD1)	Source: P808049-01			Prepared & Analyzed: 08/29/18 1						
Benzene	2660	25.0	ug/kg	2500	ND	107	48-131	1.01	23	
Toluene	2190	25.0		2500	ND	87.8	48-130	1.16	24	
Ethylbenzene	2270	25.0		2500	ND	90.7	45-135	0.374	27	
p,m-Xylene	4590	50.0		5000	ND	91.8	43-135	0.131	27	
o-Xylene	2340	25.0		2500	ND	93.5	43-135	0.0428	27	
Total Xylenes	6930	25.0		7500	ND	92.4	43-135	0.101	27	
Surrogate, 1,2-Dichloroethane-d4	515		**	500		103	70-130			
Surrogate Toluene-d8	447		-	500		89.3	20-130			

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5796 US Highway 64. Farmington. NM 87401

Three Springs - 65 Mercado Street, Suite 115, Durango, CO 81301

Ph (970) 259-0615 Fr (800) 362-1879

envirotech-inc.com laboratory@envirotech-inc.com



Encana Oil & Gas USA

Project Name:

Soil Sampling Lybrook A12-2306 01 Unit A

370 17th Street

Project Number:

11195-0228

Reported:

Denver CO, 80202

Project Manager:

Felipe Aragon

08/31/18 13:59

## Volatile Organic Compounds by 8260 - Quality Control

## **Envirotech Analytical Laboratory**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 1835008 - Purge and Trap EPA 5030A

Matrix Spike Dup (1835008-MSD1)	Source: P808049	9-01	Prepared & Anal	lyzed: 08/29/18 1	
The state of the s					
Surrogate, Bromofluorobenzene	505	ug/kg	500	101 70-130	

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Encana Oil & Gas USA

Project Name:

Soil Sampling Lybrook A12-2306 01 Unit A

370 17th Street

Denver CO, 80202

Project Number: Project Manager: 11195-0228 Felipe Aragon

Reported:

08/31/18 13:59

## 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 1835009 - DRO Extraction EPA 3570										
Blank (1835009-BLK1)				Prepared &	Analyzed:	08/29/18 1				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0								
Surrogate: n-Nonane	54.1		**	50.0		108	50-200			
LCS (1835009-BS1)				Prepared &	Analyzed:	08/29/18 1				
Diesel Range Organics (C10-C28)	464	25.0	mg/kg	500		92.8	38-132			
Surrogate, n-Nonunc	55.3		,,	50.0		111	50-200			
Matrix Spike (1835009-MS1)	Sou	rce: P808049-	01	Prepared &	Analyzed:	08/29/18 1				
Diesel Range Organics (C10-C28)	7650	250	mg/kg	500	7600	9.68	38-132			SPK2
Surrogate: n-Nonane	69.3		*	50.0		139	50-200			
Matrix Spike Dup (1835009-MSD1)	Sou	rce: P808049-	01	Prepared &	Analyzed.	08/29/18 1				
Diesel Range Organics (C10-C28)	7610	250	mg/kg	500	7600	2.31	38-132	0.483	20	SPK2
Surrogate, n-Nonanc	69.3		*	50.0		139	50-200			

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Encana Oil & Gas USA

Project Name:

Soil Sampling Lybrook A12-2306 01 Unit A

370 17th Street

Project Number:

11195-0228

Reported:

Denver CO, 80202

Project Manager:

Felipe Aragon

08/31/18 13:59

## Notes and Definitions

SPK2

The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to native analyte concentration at 4 times or

greater than the spike concentration.

DET

Analyte DETECTED

ND

Analyte NOT DETECTED at or above the reporting limit

NR

Not Reported

RPD

Relative Percent Difference

\*\*

Methods marked with \*\* are non-accredited methods.

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Project Information Chain of						Chain of Cu	stody												Pag	e	of			
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Time Sampled	Date Sampled	Matrix	No Containers	Sample I	D				Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1						Rem	narks	
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Additio	nal Instru	ections:								_														$\dashv$
									ice		-	Ol	ole	_		nd the en	nal Bross		nud be	*****		4		
	ection is consid					pled by.	pering with or integricina	Par	sample location	, date c	··											day they a subsequent		,
Relinquis	hed by: (Sig	nature)	Date		Time 1.727	R	eceived by: (Signal	M	Date 5/29/		Time 2	2		Rece	ived	on	ice:	1	7/1	e Only N				
Relinquis	hed by: (Sig		Date		Time	R	eceived by: (Signati	ure)	Date		Time			T1 AVG	Ten	מר		T2			_ <u>T3</u>	3		-
Sample M	atrix: 5 - Soil.	Sd - Solid. S	Sg - Sludge.	A - Aqueous	, O - Other				Containe	r Typ	e: g -	glass	, p -	polv/	plast	ic, as	- an	nber	glass	v - VC	)A			$\dashv$
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other				oles will be re	turnec	to cli	ent or	dispo	sed of	at the	client	expe	nse. T	he rep	ort for t	he ana	lysis of th	ne above	-					
							COC. The liability of																	





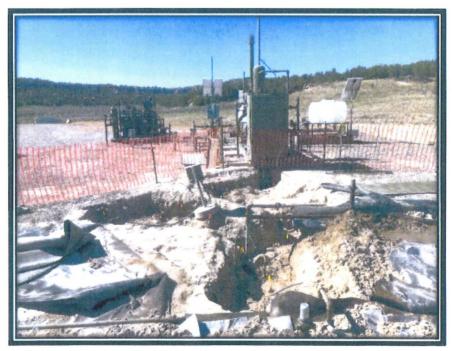
Picture 1: View of Wellsite Sign



Picture 2: View of Tank Struck by Lightening



Picture 3: View of Section 1



Picture 4: View of Sampling Locations (Orange Flags) in Section 1



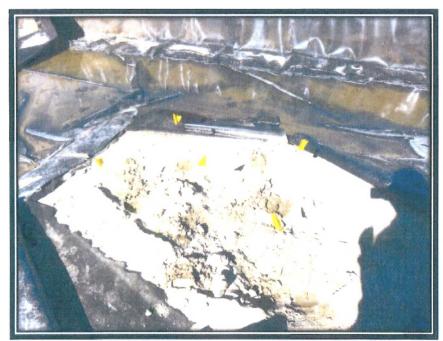
Picture 5: View of Section 2



Picture 6: View of Sampling Locations (Yellow Flags) in Section 2



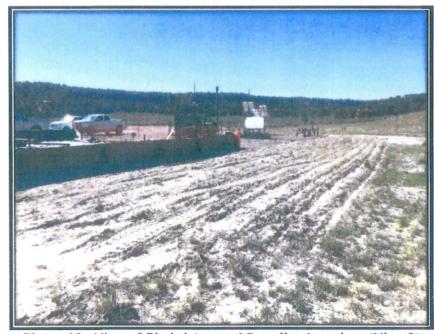
Picture 7: View of Under Liner Excavation



Picture 8: View of Sampling Locations (Yellow Flags) in Under Liner



Picture 9: View of Bladed Area and Sampling Locations (View 1)



Picture 10: View of Bladed Area and Sampling Locations (View 2)



61217
MANIFEST #
GENERATOR ENCURC
POINT OF ORIGIN LY Brook A12 (See notes)
TRANSPORTER FELLEY DILFIELD
DATE 7-29 18 JOB # 11195-0227

PHONE	. (303) 032-0613 - 3796 0	.S. HIGHWAY 64 FAN	VIIIVG I OIV,	INE VA IVIEZ	100 07401		07	IIL - I A T		111-10-0001		
LOAD	COMP	PLETE DESCRIPTION OF	SHIPMENT	-			TRANSPORTING COMPANY					
NO.	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT	#	TRK#	TIME	DRIVER SIGNATURE		
l	BF	Hydro vae Cont Soiz		_	40			HUT 1	1450	Alden Aith		
_	BF	Washowt			5			HV+1	1450	Alden Arthur		
					45							
										1		
										1		
RESUL	CHLORIDE TEST	LANDFARM EMPLOYEE	my K	Call	man	EL EL	NOTE	s Sivok A	12-230	16-014		
/	PAINT FILTER TEST	Certification	of above re	eceival & pl	acement		101	plaride/Pain	+ filter +	est run.		
By sign	ng as the driver/transport	er. I certify the material	nauled from	the above	location h	as not be	en ade	ded to or tampe				

Generator Onsite Contact					Phone	
Signatures required prior to distribution of the legal document.	DISTRIBUTION	White - Company Records.	Yellow - Billing.	Pink - Customer.	Goldenrod - LF Copy	



## envirotech CHLORIDE TESTING / PAINT FILTER TESTING

DATE	29-18 TIME	1450	Attach test strip here
CUSTOMER			9 /
SITE	Lybrook A12	-2306-014	2 × 4 B
DRIVER	Alden Arthur		
SAMPLE	Soil Straight	With Dirt	<u> </u>
CHLORIDE TEST	695 mg/Kg		7
ACCEPTED	YES	NO	8
PAINT FILTER TEST	Time started 1450	Time completed 1505	4
PASS	YES	NO	3
SAMPLER/ANALYST	Gay Robe	nau-	
			-



61226
MANIFEST #
GENERATOR & MCanu
POINT OF ORIGIN LY DOOK AIZ -2306-014
TRANSPORTER Kelley Oil Field
DATE 7-30-18 JOB# 3035 0115

PHONE:	(505) 632-0615 • 5796	U.S. HIGHWAY 6	4 - FARMINGTON	, NEW MEX	XICO 87401	[	DATE /-30	JOB #					
LOAD	COM	PLETE DESCRIP	TION OF SHIPMEN	JT.			TRANSPORTING COMPANY (195-0227						
NO.	DESTINATION	MATERIA	L GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE				
1	BF	Contry Dr			60	_	HUTOI	1522	Filen Arthu				
_	BF	washout			5	-	HV+0)	1522	Aden Arthur				
					65								
RESULT	S	LANDFARM		n /	EL	TON	ES						
530	CHLORIDE TEST	EMPLOYEE	Crary	Obin	so								
	PAINT FILTER TEST		rtification of above										
	ng as the driver/transpo								ify the material is from				

Generator Onsite Contact				P	Phone
Signatures required prior to distribution of the legal document.	DISTRIBUTION	White - Company Records.	Yellow - Billing.	Pink - Customer.	Goldenrod - LF Copy



DATE 7:30	TIME	1522	Attach tes	are
CUSTOMER	Encana		A N	/
SITE	CYDrook A12 23	506-01H		
DRIVER	Alden Action		9	
SAMPLE	Soil Straight V	Vith Dirt	2	
CHLORIDE TEST	Mg/Kg		6	
ACCEPTED	YES	NO	4	
PAINT FILTER TEST	Time started / 5 2 Z	Time completed 1537	3	
PASS	YES	NO	=======================================	
SAMPLER/ANALYST	Gay telms	ign .		



MANIFEST # 61250

GENERATOR COLOR

POINT OF ORIGIN LYBOUR A12-2306-01#

TRANSPORTER KONEYOIL Field

DATE 5-2-18 JOB# 11195-0227

PHONE:	$(505) 632 - 0615 \cdot 5796$	S U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401					DATE 0 2 10 JUB# 11-3-0201				
LOAD	COMPLETE DESCRIPTION OF SHIPMENT							TRANSPORTING COMPANY			
NO.	DESTINATION	MATERIA	L G	RID \	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE	
1	BF	CON'T NYO VOC. SOI	100			60		HV401	1518	Alchen Arthur	
-	BF	higshort	tork			5		HV+01	1518	Alden Arthur	
						65					
RESUL1	rs	LANDFARM			N	EL	NOT	ES			
482	CHLORIDE TEST	EMPLOYEE	Crac	7 Ki	slev	who					
	PAINT FILTER TEST	Ce	rtification of ab	ove receiv	val & pla	cement					
	ng as the driver/transpo								red with. I certif	y the material is from	

Generator Onsite Contact					Phone
Signatures required prior to distribution of the legal document.	DISTRIBUTION:	White - Company Records.	Yellow - Billing.	Pink - Customer.	Goldenrod - LF Copy



DATE 32	18	TIME	1518	Attach test strip here
CUSTOMER	ERCONIU			CUA
SITE	Cybrook	RIT	2306 -01H	Á
DRIVER	AldenArth	lur		
SAMPLE	Soil Straight		With Dirt	
CHLORIDE TEST	482 mg/k	<del>Kg</del>		
ACCEPTED	YES		NO	5
PAINT FILTER TEST	Time started 15/	18	Time completed (530	3
PASS	YES	<del>-</del> 1	NO	2
SAMPLER/ANALYST	Court	olin	20-	1-



MANIFEST# 61277
GENERATOR
POINT OF ORIGIN 1/2 1/2
TRANSPORTER Holls / 12 4 1/2
DATE JOB # 11175-0227

PHONE	: (505) 632-0615 · 5796 U	J.S. HIGHWAY 64 · FARM	INGTON,	DATE JOB # 111 13 V ZZ 7					
LOAD NO.	COMP	PLETE DESCRIPTION OF S	SHIPMENT		TRANSPORTING COMPANY				
	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	TRK#	TIME	DRIVER SIGNATURE
	Ďŕ	· 计对对 100 100 100 100 100 100 100 100 100 1			10		1-1-2/	1300	Alden Arthu
-	BF	hick stage of	× 2				A.B. 7.4	W. Off	Alden Arthur
					15				
RESUL	TS	LANDFARM		, , ,	EL	NOT	ES		
<270	CHLORIDE TEST	EMPLOYEE (	1/-	11					
	PAINT FILTER TEST	Certification							
	the state of the s	tou I moutiful the meaterial bea		41				1 1.1 1	

By signing as the driver/transporter, I certify the material hauled from the above location has not been added to or tampered with. I certify the material is from the above mentioned Generator/Point of Origin and that no additional material has been added or mixed into the load.

Generator Onsite Contact					Phone
Signatures required prior to distribution of the legal document.	DISTRIBUTION	White - Company Records.	Yellow - Billing.	Pink - Customer.	Goldenrod - LF Copy



## CHLORIDE TESTING / PAINT FILTER TESTING

DATE	15	TIME	1851	Att	ach test strip here
CUSTOMER	Sno	tar ii			G U
SITE Cybros	1 #12	230000	1 #/		A)
DRIVER	Alde	artother			
SAMPLE	Soil	Straight	With Dirt		B
CHLORIDE TEST	-27	mg/Kg			<b></b>
ACCEPTED	YES	-	NO		
PAINT FILTER TEST	Time started	1-1	Time completed	-, -, /	3
PASS	YES	<del></del>	NO		2
SAMPLER/ANALYST	( 5 ch	my Note 21	.10-		1



MANIFEST # 61413

GENERATOR ENCONCE

POINT OF ORIGIN LY Drock A12-2306-01#

TRANSPORTER Kelley OIL Field

DATE \$ 20.18 JOB# 11195-0227

PHONE	E: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARIVINGTON, NEW MEXICO 87401							DATE 2013 JUB# TITE				
LOAD	COM	TRANSPORTING COMPANY										
NO.	DESTINATION	MATERIAL	GRID	YDS	BBLS	TKT#	#	TRK#	TIME	DRIVER SIGNATURE		
1	BF	Vac Soil					Н	v+o/	1150	miles for		
	BF	WASH OUTTANK ON Vactorick			5			10+01	1150	min Ser-		
					(e							
RESUL	TS	LANDFARM /		0 1		EL	NOTES					
582	CHLORIDE TEST	EMPLOYEE GC	uy R	Olil	nite	7						
	PAINT FILTER TEST	Certification	of above re	eceival & pla	cement							
By sign	ing as the driver/transpor	ter, I certify the material h	auled from	the above	location ha	as not be	en adde	d to or tamper	ed with. I certi	fy the material is from		

Generator Onsite Contact					Phone
Signatures required prior to distribution of the legal document.	DISTRIBUTION	White - Company Records.	Yellow - Billing.	Pink - Customer.	Goldenrod - LF Copy

HUT

# chloride testing / Paint filter testing

DATE <u>\$.2</u>	018	Т	IME _	1150	Attach	test	е
CUSTOMER	Enco					A/	
SITE	Lybr	UDK	A12	-2306-	014		
DRIVER		der 1	7			8	
SAMPLE	Soil S	Straight	W	ith Dirt		= 7=	
CHLORIDE TEST	583	mg/Kg				- B	
ACCEPTED	YES _			NO			
PAINT FILTER TEST	Time started _	11.50		Time completed 120	/	9-	
PASS	YES _	1		NO			
SAMPLER/ANALYST	Com	1 Ro	line	Lon			



Description of Remediation Activities



When the operator arrived at the Lybrook A12 facility on July 28 it appeared that there had been a lightning strike because the produced water tank was blown out of the containment and roughly 100 feet north of the containment. A vac truck was dispatched to the site the next day to recover liquid in the containment. The area of greatest impact was also bladed to turn the soil and ensure that impacted soil could volatilze clean. Additionally, Encana is working to repair the secondary containment that was blown out of shape due to the lightning.