

Bratcher, Mike, EMNRD

From: Michael Stubblefield [mstubblefield@talonlpe.com]
Sent: Wednesday, March 07, 2012 7:24 AM
To: Bratcher, Mike, EMNRD
Cc: mburton@blm.gov; Hernandez, Roger; Lewis, Merle
Subject: FW: LITTLEFIELD AB FEDERAL NO 5 RELEASE
Attachments: H200553 TALON.pdf

Dear Mr. Bratcher,

Talon/LPE is sending you the analytical results for the soil samples collected at the Littlefield AB No.5 release. Based on the analytical results, Devon Energy Corporation is requesting approval to start backfilling the excavated area using new soil transported to the location. If further information is required please contact me.

Mike Stubblefield
Project Manager
Talon/LPE
408 West Texas Avenue
Artesia, New Mexico 88210
(575) 746.8768 phone
(575) 746.8905 fax
(575) 441.7254 cell
www.talonlpe.com



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist
Staples Foundation for Learning Hall of Fame Recipient: 2010
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006
Inc. 500/5000: 2011, 2010, 2009, 2008, 2007

From: Celey Keene [<mailto:celey.keene@cardinallabsnm.com>]
Sent: Tuesday, March 06, 2012 3:37 PM
To: Michael Stubblefield; David Adkins; Kimberly M. Wilson
Subject: LITTLEFIELD AB FEDERAL NO 5 RELEASE

THANK YOU,

Celey Keene
Lab Director
Cardinal Laboratories
101 East Marland
Hobbs, NM 88240
T: (575) 393-2326
F: (575) 393-2476
e-mail: celey.keene@cardinallabsnm.com

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March 06, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LITTLEFIELD AB FED. NO. 5 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/01/12 15:14.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	03/01/2012	Sampling Date:	03/01/2012
Reported:	03/06/2012	Sampling Type:	Soil
Project Name:	LITTLEFIELD AB FED. NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700794.020.01	Sample Received By:	Jodi Henson
Project Location:	DEVON ENERGY SEC22-T18S-R31E		

Sample ID: S-1 BOTTOM 2.5' (H200553-01)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2012	ND	1.88	93.8	2.00	4.76		
Toluene*	<0.050	0.050	03/05/2012	ND	2.04	102	2.00	4.10		
Ethylbenzene*	<0.050	0.050	03/05/2012	ND	2.09	104	2.00	3.65		
Total Xylenes*	<0.150	0.150	03/05/2012	ND	6.54	109	6.00	3.57		

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/02/2012	ND	432	108	400	0.00		

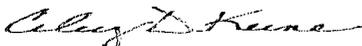
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5		
DRO >C10-C28	56.3	10.0	03/05/2012	ND	195	97.3	200	8.29		

Surrogate: 1-Chlorooctane 103 % 55.5-154
Surrogate: 1-Chlorooctadecane 106 % 57.6-158

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	03/01/2012	Sampling Date:	03/01/2012
Reported:	03/06/2012	Sampling Type:	Soil
Project Name:	LITTLEFIELD AB FED. NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700794.020.01	Sample Received By:	Jodi Henson
Project Location:	DEVON ENERGY SEC22-T18S-R31E		

Sample ID: S-2 NORTHSIDE WALL (H200553-02)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2012	ND	1.88	93.8	2.00	4.76		
Toluene*	<0.050	0.050	03/05/2012	ND	2.04	102	2.00	4.10		
Ethylbenzene*	<0.050	0.050	03/05/2012	ND	2.09	104	2.00	3.65		
Total Xylenes*	<0.150	0.150	03/05/2012	ND	6.54	109	6.00	3.57		

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 64.4-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/02/2012	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5		
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29		

Surrogate: 1-Chlorooctane 105 % 55.5-154
Surrogate: 1-Chlorooctadecane 120 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	03/01/2012	Sampling Date:	03/01/2012
Reported:	03/06/2012	Sampling Type:	Soil
Project Name:	LITTLEFIELD AB FED. NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700794.020.01	Sample Received By:	Jodi Henson
Project Location:	DEVON ENERGY SEC22-T18S-R31E		

Sample ID: S-3 EAST SIDE WALL (H200553-03)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2012	ND	1.88	93.8	2.00	4.76		
Toluene*	<0.050	0.050	03/05/2012	ND	2.04	102	2.00	4.10		
Ethylbenzene*	<0.050	0.050	03/05/2012	ND	2.09	104	2.00	3.65		
Total Xylenes*	<0.150	0.150	03/05/2012	ND	6.54	109	6.00	3.57		

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/02/2012	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5		
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29		

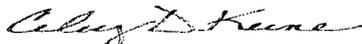
Surrogate: 1-Chlorooctane 98.0 % 55.5-154

Surrogate: 1-Chlorooctadecane 112 % 57.6-158

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	03/01/2012	Sampling Date:	03/01/2012
Reported:	03/06/2012	Sampling Type:	Soil
Project Name:	LITTLEFIELD AB FED. NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700794.020.01	Sample Received By:	Jodi Henson
Project Location:	DEVON ENERGY SEC22-T18S-R31E		

Sample ID: S-4 SOUTH SIDE WALL (H200553-04)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2012	ND	1.88	93.8	2.00	4.76		
Toluene*	<0.050	0.050	03/05/2012	ND	2.04	102	2.00	4.10		
Ethylbenzene*	<0.050	0.050	03/05/2012	ND	2.09	104	2.00	3.65		
Total Xylenes*	<0.150	0.150	03/05/2012	ND	6.54	109	6.00	3.57		

Surrogate: 4-Bromofluorobenzene (PIL) 107% 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/02/2012	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5		
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29		

Surrogate: 1-Chlorooctane 101% 55.5-154
Surrogate: 1-Chlorooctadecane 108% 57.6-158

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TALON LPE
 MIKE STUBBLEFIELD
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

Received:	03/01/2012	Sampling Date:	03/01/2012
Reported:	03/06/2012	Sampling Type:	Soil
Project Name:	LITTLEFIELD AB FED. NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700794.020.01	Sample Received By:	Jodi Henson
Project Location:	DEVON ENERGY SEC22-T18S-R31E		

Sample ID: S-5 WEST SIDE WALL (H200553-05)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/05/2012	ND	1.88	93.8	2.00	4.76		
Toluene*	<0.050	0.050	03/05/2012	ND	2.04	102	2.00	4.10		
Ethylbenzene*	<0.050	0.050	03/05/2012	ND	2.09	104	2.00	3.65		
Total Xylenes*	<0.150	0.150	03/05/2012	ND	6.54	109	6.00	3.57		

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/02/2012	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/05/2012	ND	206	103	200	15.5		
DRO >C10-C28	<10.0	10.0	03/05/2012	ND	195	97.3	200	8.29		

Surrogate: 1-Chlorooctane 94.9 % 55.5-154

Surrogate: 1-Chlorooctadecane 99.1 % 57.6-158

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

Company Name: <u>Talon/LPE</u>				BILL TO				ANALYSIS REQUEST											
Project Manager: <u>MIKE (Stubblefield)</u>				P.O. #:															
Address: <u>408 West Texas Ave.</u>				Company: <u>Talon/LPE</u>															
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>				Attn:															
Phone #: <u>505-441-7254</u> Fax #:				Address:															
Project #: <u>700 794 020 01</u> Project Owner: <u>Devon Energy Corp.</u>				City:															
Project Name: <u>Littlefield AB Federal No. 5 release II</u>				State: Zip:															
Project Location: <u>sec. 22 - T185 - R31E</u>				Phone #:															
Sampler Name: <u>Mike Stubblefield</u>				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME							
<u>H200553</u>																			
<u>1</u>	<u>S-1 bottom 2-5'</u>	<u>5</u>			/			/			<u>3/1/2012</u>	<u>10:05A</u>	/	/					
<u>2</u>	<u>S-2 north side wall</u>	<u>5</u>			/			/			<u>3/1/2012</u>	<u>10:25A</u>	/	/					
<u>3</u>	<u>S-3 east side wall</u>	<u>5</u>			/			/			<u>3/1/2012</u>	<u>10:19A</u>	/	/					
<u>4</u>	<u>S-4 south side wall</u>	<u>5</u>			/			/			<u>3/1/2012</u>	<u>10:12A</u>	/	/					
<u>5</u>	<u>S-5 west side wall</u>	<u>5</u>			/			/			<u>3/1/2012</u>	<u>10:21A</u>	/	/					

8015M TPH
 8021B BTEX
 Total chlorides

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Relinquished By: <u>Mike Stubblefield</u>	Date: <u>3/1/2012</u> Time: <u>3:14P</u>	Received By: <u>Jodi Jensen</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
REMARKS:				
Delivered By: (Circle One) Sampler - UPS - Bus - <u>Other</u>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Checked By: (Initials) <u>MS</u>		

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#26