

## Bratcher, Mike, EMNRD

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**From:** Michael Stubblefield [mstubblefield@talonlpe.com]  
**Sent:** Wednesday, January 18, 2012 8:56 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** mbarrett@limerockresources.com; Jerry Smith  
**Subject:** FW: STERLING 7 C NO 4 RELEASE  
**Attachments:** H200069 TALON.pdf

Dear Mr. Mike Bratcher,

Talon/LPE is sending you the analytical results for the soil samples collected on 1/12/2012 at the Stirling 7 C No. 4 release.

Based on the analytical results Lime Rock Resources, LLC is requesting approval to place the 20 Mil. liner into the excavated area at the Stirling 7 C No. 4 and to start the backfilling of 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](http://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

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**From:** Celey Keene [<mailto:celey.keene@cardinallabsnm.com>]  
**Sent:** Tuesday, January 17, 2012 10:25 AM  
**To:** Michael Stubblefield  
**Cc:** David Adkins; Kimberly M. Wilson  
**Subject:** STERLING 7 C NO 4 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](mailto:celey.keene@cardinallabsnm.com)

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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January 17, 2012

MIKE STUBBLEFIELD  
TALON LPE  
408 W. TEXAS AVE.  
ARTESIA, NM 88210

RE: STERLING 7 C NO 4 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/12/12 16:10.

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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/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,

A handwritten signature in cursive script that reads "Celey D. Keene".

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:	01/12/2012	Sampling Date:	01/12/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	STERLING 7 C NO 4 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	SEC.8-T18S-27E		

**Sample ID: S-1 NORTHSIDE WALL (H200069-01)**

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	01/13/2012	ND	2.09	104	2.00	2.07		
Toluene*	<0.050	0.050	01/13/2012	ND	2.20	110	2.00	2.39		
Ethylbenzene*	<0.050	0.050	01/13/2012	ND	2.22	111	2.00	2.53		
Total Xylenes*	<0.150	0.150	01/13/2012	ND	6.94	116	6.00	3.78		

*Surrogate 4-Bromofluorobenzene (PIL) 110 % 64 4-134*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>272</b>	16.0	01/13/2012	ND	416	104	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	01/16/2012	ND	219	109	200	6.11		
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3		

*Surrogate: 1-Chlorooctane 123 % 55 5-154*
*Surrogate 1-Chlorooctadecane 138 % 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:	01/12/2012	Sampling Date:	01/12/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	STERLING 7 C NO 4 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	SEC.8-T18S-27E		

**Sample ID: S-2 EASTSIDE WALL (H200069-02)**

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	01/13/2012	ND	2.09	104	2.00	2.07		
Toluene*	<0.050	0.050	01/13/2012	ND	2.20	110	2.00	2.39		
Ethylbenzene*	<0.050	0.050	01/13/2012	ND	2.22	111	2.00	2.53		
Total Xylenes*	<0.150	0.150	01/13/2012	ND	6.94	116	6.00	3.78		

*Surrogate 4-Bromofluorobenzene (PIL) 112 % 64 4-134*

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>752</b>	16.0	01/13/2012	ND	416	104	400	0.00		

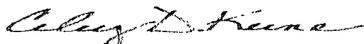
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/16/2012	ND	219	109	200	6.11		
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3		

*Surrogate 1-Chlorooctane 129 % 55 5-154*
*Surrogate 1-Chlorooctadecane 143 % 57 6-158*

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	01/12/2012	Sampling Date:	01/12/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	STERLING 7 C NO 4 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	SEC.8-T18S-27E		

**Sample ID: S-3 SOUTHSIDE WALL (H200069-03)**

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	01/13/2012	ND	2.09	104	2.00	2.07		
Toluene*	<0.050	0.050	01/13/2012	ND	2.20	110	2.00	2.39		
Ethylbenzene*	<0.050	0.050	01/13/2012	ND	2.22	111	2.00	2.53		
Total Xylenes*	<0.150	0.150	01/13/2012	ND	6.94	116	6.00	3.78		

*Surrogate 4-Bromofluorobenzene (PII) 109 % 64 4-134*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>720</b>	16.0	01/13/2012	ND	416	104	400	0.00		

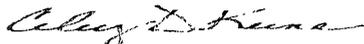
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	01/16/2012	ND	219	109	200	6.11		
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3		

*Surrogate 1-Chlorooctane 103 % 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

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 Fax To: (575) 745-8905

Received:	01/12/2012	Sampling Date:	01/12/2012
Reported:	01/17/2012	Sampling Type:	Soil
Project Name:	STERLING 7 C NO 4 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Celey D. Keene
Project Location:	SEC.8-T18S-27E		

**Sample ID: S-4 WESTSIDE WALL (H200069-04)**

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	01/13/2012	ND	2.09	104	2.00	2.07	
Toluene*	<0.050	0.050	01/13/2012	ND	2.20	110	2.00	2.39	
Ethylbenzene*	<0.050	0.050	01/13/2012	ND	2.22	111	2.00	2.53	
Total Xylenes*	<0.150	0.150	01/13/2012	ND	6.94	116	6.00	3.78	

*Surrogate 4-Bromofluorobenzene (PIL) 111 % 64.4-134*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>112</b>	16.0	01/13/2012	ND	416	104	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	01/16/2012	ND	219	109	200	6.11	
DRO >C10-C28	<10.0	10.0	01/16/2012	ND	203	101	200	10.3	

*Surrogate 1-Chlorooctane 124 % 55 5-154*
*Surrogate 1-Chlorooctadecane 137 % 57 6-158*

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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

