



May 28, 2015

Ms. Heather Patterson

NMOCD District 2

811 S. 1st Street

Artesia, NM 88210

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

Subject: **Soil Assessment and Remediation Work Plan**
Lime Rock Resources II-A, L.P.
Kite 5I Federal #4
30-015-41718 (2RP-3011)

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.746.8905

Dear Ms. Patterson,

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88240
Phone 575.393.4261
Fax 575.393.4658

Lime Rock Resources (Lime Rock) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Background Information

MIDLAND
2901 State Hwy 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

The Kite 5I Federal #4 water transfer line release is located approximately fourteen (14) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter J, Section 4, Township 19 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.77411 North and -104.28050 West. A site plan is presented in [Appendix I](#).

OKLAHOMA CITY
7700 North Hudson Avenue
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
Fax 806.467.0622

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Gypsum land-cottonwood complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of older alluvial deposits of upland plains and piedmont areas. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 140-feet below ground surface (bgs) according to the New Mexico Office of the State Engineer. See [Appendix II](#) for the referenced groundwater data

SAN ANTONIO
13111 Lookout Way
San Antonio, Texas 78233
Phone 210.265.8025
Fax 210.568.2191

The ranking for this site is 0 Based on the following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Incident Description

A temporary 12-inch water transfer line developed a leak which resulted in a release of approximately 35bbls of treated produced water. When the leak was discovered the line was shut-in and repaired.

Talon mobilized personnel to conduct a site assessment and soil sampling within the impacted area utilizing a backhoe. Laboratory results from the above referenced sampling activities are summarized in the table below.

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	5520	ND	ND
S-1	0.5	--	816	--	--
S-1	1	--	224	--	--
S-2	0	ND	17200	ND	ND
S-2	0.5	--	64	--	--
S-2	1	--	160	--	--
S-3	0	ND	11500	ND	ND
S-3	0.5	--	4480	--	--
S-3	1	--	256	--	--

(--) Analyte Not Tested

(ND) Analyte Not Detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene 5,000 mg/kg for TPH and 1,000 mg/kg for chlorides.

Proposed Remedial Actions

- The impacted area in the vicinity of sample locations S-1 and S-2 will be excavated to a depth of 0.5-feet bgs.
- The impacted area in the vicinity of sample location S-3 will be excavated to a depth of 1-foot bgs.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with top soil, contoured to match the surrounding terrain and seeded with BLM seed mixture #4.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

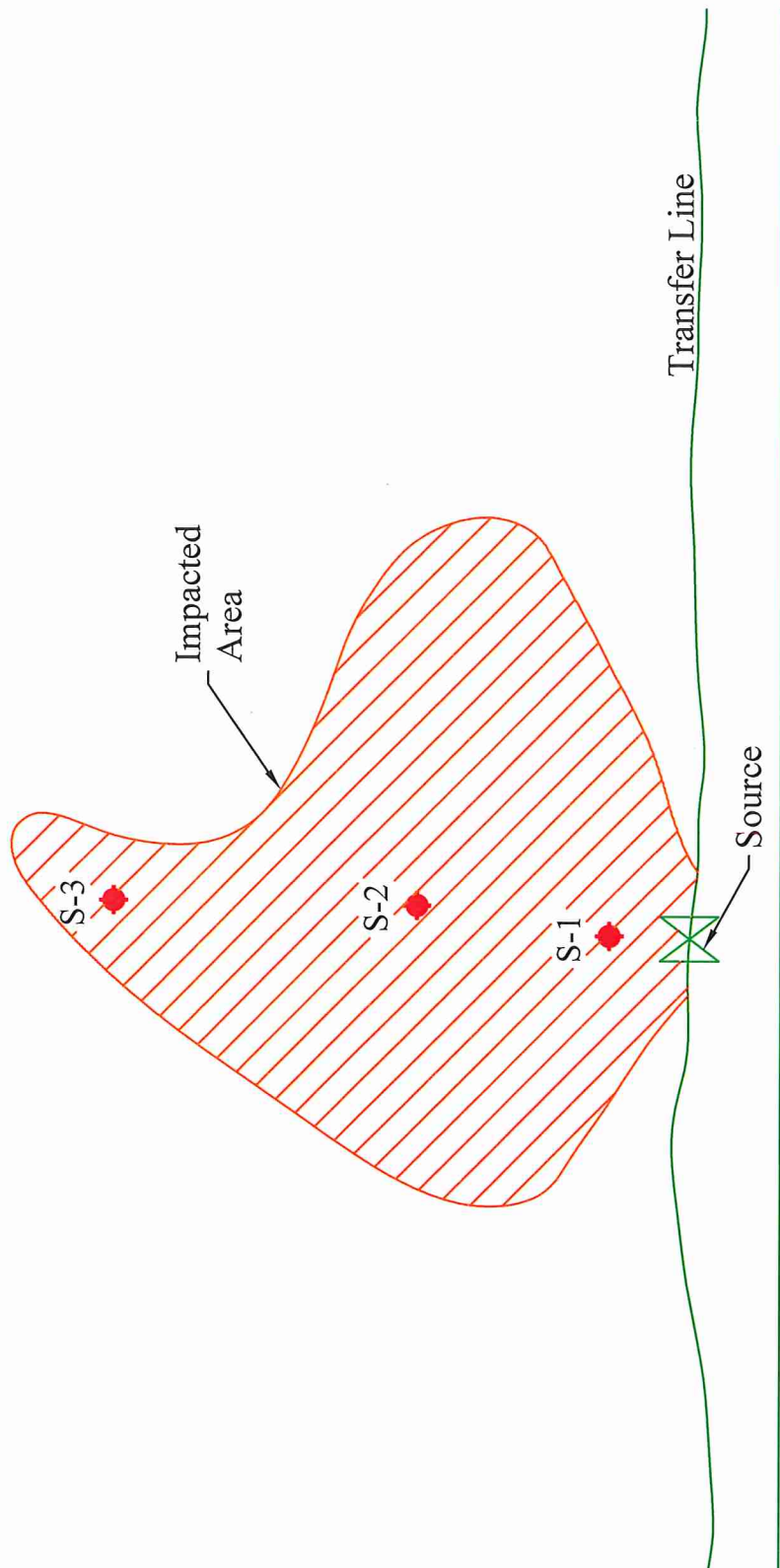
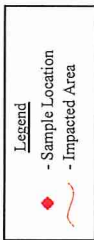
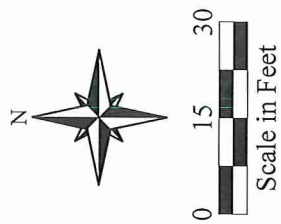
Respectfully submitted,

TALON/LPE

Sheldon L. Hitchcock
Project Manager

David J. Adkins
District Manager

SITE PLAN



Date: 05/27/2015

Scale: 1" = 30'

Drawn By: TJS

Kite 5I Fed #4
Lime Rock Resources
Eddy County, New Mexico
Figure 1 - Site Plan

GROUNDWATER DATA
INITIAL C-141



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 03661			ED	3	2	3	32	17S	27E	565186	3628038*	2594	330	140	190

Average Depth to Water: 140 feet

Minimum Depth: 140 feet

Maximum Depth: 140 feet

Record Count: 1

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 567312

Northing (Y): 3626550

Radius: 2600

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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

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 ☐ Final Report

Name of Company Lime Rock Resources II-A, L.P.	Contact Michael Barrett	
Address 1111 Bagby St. Ste. 4600, Houston, TX 77002	Telephone No. 575-623-8424	
Facility Name Kite 5 I Federal #004	Facility Type Water Transfer Line	
Surface Owner Federal	Mineral Owner Federal	API No. 30-015-41718

LOCATION OF RELEASE

Unit Letter J	Section 4	Township 18S	Range 27E	Feet from the 1882	North/South Line S	Feet from the 1582	East/West Line S	County Eddy
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Latitude 32.77411 Longitude -104.28050

NATURE OF RELEASE

Type of Release Treated Produced water	Volume of Release 35bbls	Volume Recovered 0bbls
Source of Release Water Transfer Line	Date and Hour of Occurrence 5/19/2015 8:30 pm	Date and Hour of Discovery 5/19/2015 8:30 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Heather Patterson-NMOCD Jeff Robertson-BLM	
By Whom? Sheldon Hitchcock-Talon/LPE	Date and Hour 5/20/15 11:12 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

A temporary 12" transfer line developed a leak which caused a release of approximately 35bbls of treated produced water. When the leak was discovered the line was repaired and put back into service. Talon/LPE mobilized personnel to conduct an initial site assessment and perform soil sampling activities within the impacted area.

Describe Area Affected and Cleanup Action Taken.*

The impacted area is in the pasture just north CR-227 and measures approximately 110' x 110'. Talon/LPE mobilized personnel to conduct an initial site assessment and perform soil sampling utilizing a backhoe. Upon receipt of analytical results from the soil sampling activities a remediation work plan will be generated and submitted to NMOCD and BLM for approval.

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: 		OIL CONSERVATION DIVISION	
Printed Name: Michael Barrett		Approved by Environmental Specialist:	
Title: Production Supervisor		Approval Date:	Expiration Date:
E-mail Address: mbarrett@limerockresources.com		Conditions of Approval:	
Date: 5/21/2015 Phone: 575-623-8424		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

LABORATORY RESULTS



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

May 27, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: KITE 5 I FED #4

Enclosed are the results of analyses for samples received by the laboratory on 05/20/15 16:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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
 SHELDON HITCHCOCK
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 05/20/2015
 Reported: 05/27/2015
 Project Name: KITE 5 I FED #4
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/20/2015
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H501284-01)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2015	ND	1.68	84.0	2.00	3.46		
Toluene*	<0.050	0.050	05/26/2015	ND	1.84	92.1	2.00	1.04		
Ethylbenzene*	<0.050	0.050	05/26/2015	ND	1.72	86.1	2.00	3.52		
Total Xylenes*	<0.150	0.150	05/26/2015	ND	5.07	84.4	6.00	2.89		
Total BTEX	<0.300	0.300	05/26/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 115 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5520	16.0	05/22/2015	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	05/21/2015	ND	175	87.4	200	2.29		
DRO >C10-C28	<10.0	10.0	05/21/2015	ND	195	97.6	200	11.8		

Surrogate: 1-Chlorooctane 91.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 102 % 52.1-176

Sample ID: S-1 0.5' (H501284-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	05/22/2015	ND	416	104	400	0.00		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/20/2015	Sampling Date:	05/20/2015
Reported:	05/27/2015	Sampling Type:	Soil
Project Name:	KITE 5 I FED #4	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 1' (H501284-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/22/2015	ND	416	104	400	0.00	

Sample ID: S-2 0' (H501284-04)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2015	ND	1.68	84.0	2.00	3.46	
Toluene*	<0.050	0.050	05/26/2015	ND	1.84	92.1	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/26/2015	ND	1.72	86.1	2.00	3.52	
Total Xylenes*	<0.150	0.150	05/26/2015	ND	5.07	84.4	6.00	2.89	
Total BTEX	<0.300	0.300	05/26/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 115 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	05/22/2015	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	05/21/2015	ND	175	87.4	200	2.29	
DRO >C10-C28	<10.0	10.0	05/21/2015	ND	195	97.6	200	11.8	

Surrogate: 1-Chlorooctane 76.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 92.5 % 52.1-176

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/20/2015
Reported: 05/27/2015
Project Name: KITE 5 I FED #4
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0.5' (H501284-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/22/2015	ND	416	104	400	0.00	


Sample ID: S-2 1' (H501284-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/22/2015	ND	416	104	400	0.00	

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*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/20/2015
Reported: 05/27/2015
Project Name: KITE 5 I FED #4
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 0' (H501284-07)

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2015	ND	1.68	84.0	2.00	3.46	
Toluene*	<0.050	0.050	05/26/2015	ND	1.84	92.1	2.00	1.04	
Ethylbenzene*	<0.050	0.050	05/26/2015	ND	1.72	86.1	2.00	3.52	
Total Xylenes*	<0.150	0.150	05/26/2015	ND	5.07	84.4	6.00	2.89	
Total BTEX	<0.300	0.300	05/26/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	05/22/2015	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	05/21/2015	ND	175	87.4	200	2.29	
DRO >C10-C28	<10.0	10.0	05/21/2015	ND	195	97.6	200	11.8	

Surrogate: 1-Chlorooctane 95.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 108 % 52.1-176

Sample ID: S-3 0.5' (H501284-08)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	05/22/2015	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/20/2015
Reported: 05/27/2015
Project Name: KITE 5 I FED #4
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2015
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

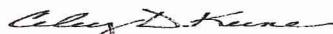
Sample ID: S-3 1' (H501284-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/22/2015	ND	416	104	400	0.00	

Cardinal Laboratories

*=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

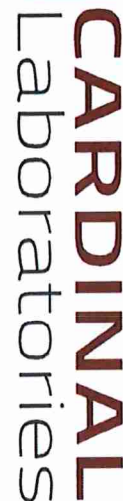
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Page 8 of 8

a: Talon/LPE

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX	Chlor
4501884	5-10'	G-1	1			✓							5/24/15	2:03	✓	✓	✓
3	5-10.5'	G-1	1	✓									2:10	✓	✓	✓	
3	5-11'	G-1	1	✓									2:12	✓	✓	✓	
4	5-20'	G-1	1	✓									2:28	✓	✓	✓	
5	5-20.5'	G-1	1	✓									2:29	✓	✓	✓	
4	5-21'	G-1	1	✓									2:30	✓	✓	✓	
5	5-30'	G-1	1	✓									2:34	✓	✓	✓	
8	5-30.5'	G-1	1	✓									2:37	✓	✓	✓	
3	5-31'	G-1	1	✓									2:39	✓	✓	✓	

Date: 5-20-15
Time: 1:15

Time:

Delivered By: (Circle One)	4.80e	Sample Condition	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:		Cool Intact	
		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes	
		<input type="checkbox"/> No <input type="checkbox"/> No	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326