



October 27, 2014

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Soil Assessment and Remediation Work Plan**
Lime Rock Resources II-A, L.P.
Windfohr 4 Federal No. 2
30-015-30411

Dear Mr. Bratcher:

Lime Rock Resources II-A, LP (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.

Incident Date

October 13, 2014

Background Information

The Windfohr 4 Federal No. 2 is located approximately fourteen (14) miles southeast of Artesia, New Mexico. The legal location for this site is Section 4, Township 18 South, and Range 27 East. More specifically the latitude and longitude for the release are 32.77428 North and -104.27538 West. A site plan is presented in Appendix I.

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 Reeves-Gypsum land complex soils with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils underlain by gypsum and hard caliches. Drainage courses in this area are normally dry. According to the New Mexico Office of the State Engineer groundwater in the project vicinity is approximately 50-feet below ground surface (bgs). See Appendix II for the referenced groundwater data.

The ranking for this site is **10** based on the following:

Depth to ground water	50' - 100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Incident Description

A transport driver ran over a surface flow line at the battery causing a release of 45 barrels of produced water. A vac truck was immediately called to the site and recovered 15 barrels. All wells were shut in and the flow line was repaired. Talon mobilized personnel to conduct soil sampling within the facility and along the flow path. The results of these sampling activities are summarized in the table below. A site plan is attached.

Laboratory Results

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

October 23, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	2440	<10	<10
Refusal	1'	--	2000	<10	<10
S-2	0'	<0.300	13600	<10	<10
	1'	--	3600	--	--
	2'	--	240	--	--
S-3 Refusal	0'	<0.300	14000	--	--
S-4	0'	<0.300	17000	--	--
Refusal	1'	--	864	--	--
S-5	0'	<0.300	4960	<10	<10
	1'	--	8960	--	--
Refusal	2'	--	5120	--	--

--Analyte Not Tested

Based upon the site ranking of **10**, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 1,000 mg/kg for TPH. The chloride standard is considered to be 1,000 mg/kg.

Proposed Remedial Actions

- The impacted areas will be excavated to a depth of 2-feet deep and confirmation samples will be taken from the bottom of the excavation.
- The excavated soil will be transported to Lea Land for disposal.
- Upon receipt of the lab analysis for the additional samples, the results will be immediately forwarded to the BLM, NMOCD and the client.
- Once approval is obtained the regulatory agencies, the excavation will then be backfilled with caliche and re-contoured to match the surrounding terrain.
- A final report documenting all field activities, lab reports and Final C-141, will be provided to the BLM and NMOCD Artesia Office.

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



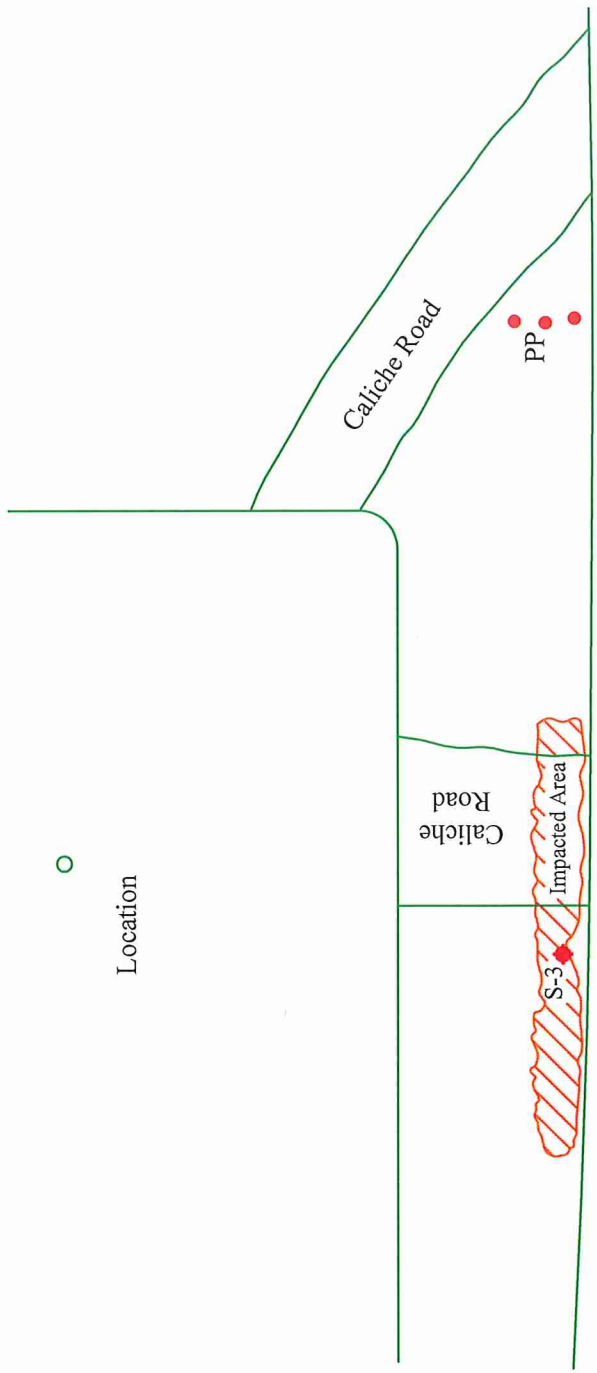
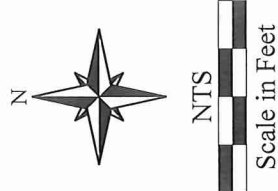
Kimberly M. Wilson
Project Manager



David J. Adkins
District Manager

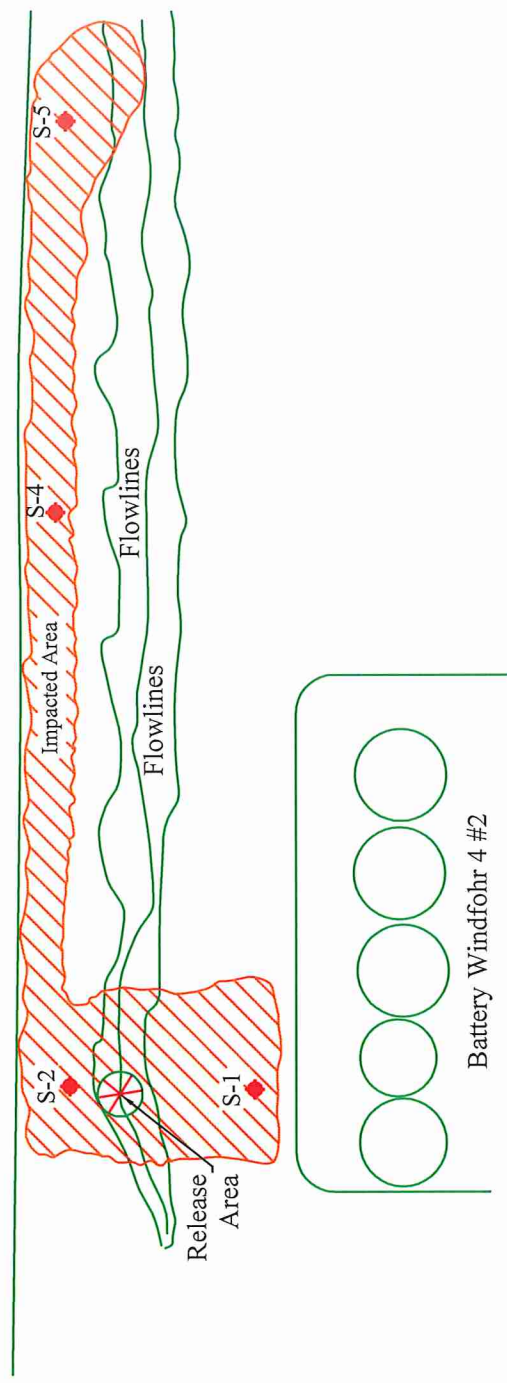
APPENDIX I

SITE MAP



Little Diamond

Pavement



Windfohr 4 Federal #2 Battery
Lime Rock Resources
Eddy County, New Mexico
Figure 1 - Site Plan

Date: 10/28/2014
Scale: NTS
Drawn By: TJS



APPENDIX II
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 03917			LE	4	1	2	10	18S	27E	569019	3625660*	1349	130	50	80
RA 03714			CH	4	4	2	08	18S	27E	566212	3625253*	1895	381		

Average Depth to Water: 50 feet

Minimum Depth: 50 feet

Maximum Depth: 50 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 567814

Northing (Y): 3626267

Radius: 2000

*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
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company : LIME ROCK RESOURCES II-A, LP	Contact : Mike Barrett
Address : 1111 Bagby Street Suite 4600, Houston, TX 77002	Telephone No. : 575-623-8424
Facility Name: Windfohr 4 Federal #2 Battery	Facility Type: Battery
Surface Owner : Bogle Farms	Mineral Owner: BLM
API #30-015-30411 Lease No. # MNL-061783A	

LOCATION OF RELEASE

Unit Letter I	Section 4	Township 18S	Range 27E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude 32.775006 N Longitude -104.276077 W

NATURE OF RELEASE

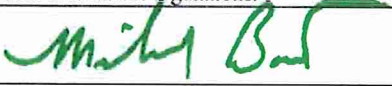
Type of Release : Produced Water	Volume of Release : 45 bbls PW	Volume Recovered: 15 bbls PW
Source of Release : Surface Flow Line	Date and Hour of Occurrence: 10/13/14 3:00 pm	Date and Hour of Discovery: 10/13/14 @ 3:00 pm
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? BLM/Jeffery Robertson & OCD/Mike Bratcher	
By Whom? Kimberly Wilson with Talon/LPE	Date and Hour :10/13/14 @ 4:00 pm	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*☐ A surface flow line was run over at the battery by a Par Five driver causing a release of 45 barrels of produced water. A vac truck was immediately called to the site and recovered 15 barrels. All wells were shut in and the flow line was repaired. Talon/LPE was contacted for initial site assessment and to generate a work plan.

Describe Area Affected and Cleanup Action Taken.*☐ The initial release point measured approximately 24-feet long by 21-feet wide then flowed east along both sides of Little Diamond Road for approximately 411-feet long by 10 feet wide. A backhoe was used to berm the flow path to prevent further migration.

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 District Supervisor:	
Title: Production Supervisor	Approval Date:	Expiration Date:
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval:	Attached ☐
Date: 10/15/2014 Phone: 575-623-8424		

* Attach Additional Sheets If Necessary

APPENDIX III
LABORATORY RESULTS

October 23, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WINDFOHR 4 FED #2

Enclosed are the results of analyses for samples received by the laboratory on 10/20/14 12:50.

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
 DAVID ADKINS
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 10/20/2014
 Reported: 10/23/2014
 Project Name: WINDFOHR 4 FED #2
 Project Number: 70130707101
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/17/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H403215-01)

BTX 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	10/21/2014	ND	2.05	103	2.00	8.65	
Toluene*	<0.050	0.050	10/21/2014	ND	1.94	97.1	2.00	9.58	
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.85	92.7	2.00	9.35	
Total Xylenes*	<0.150	0.150	10/21/2014	ND	5.56	92.6	6.00	9.47	
Total BTX	<0.300	0.300	10/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	2440	16.0	10/21/2014	ND	400	100	400	3.92	

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	10/21/2014	ND	178	89.0	200	2.01	
DRO >C10-C28	<10.0	10.0	10/21/2014	ND	209	105	200	3.44	

Surrogate: 1-Chlorooctane 93.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 120 % 52.1-176

Sample ID: S-1 1' REFUSAL (H403215-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	10/21/2014	ND	400	100	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/20/2014
Reported: 10/23/2014
Project Name: WINDFOHR 4 FED #2
Project Number: 70130707101
Project Location: EDDY COUNTY, NM

Sampling Date: 10/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H403215-03)

BTX 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	10/21/2014	ND	2.05	103	2.00	8.65	
Toluene*	<0.050	0.050	10/21/2014	ND	1.94	97.1	2.00	9.58	
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.85	92.7	2.00	9.35	
Total Xylenes*	<0.150	0.150	10/21/2014	ND	5.56	92.6	6.00	9.47	
Total BTX	<0.300	0.300	10/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 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	13600	16.0	10/21/2014	ND	400	100	400	3.92	

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	10/21/2014	ND	178	89.0	200	2.01	
DRO >C10-C28	<10.0	10.0	10/21/2014	ND	209	105	200	3.44	

Surrogate: 1-Chlorooctane 98.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 106 % 52.1-176

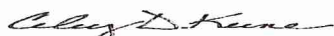
Sample ID: S-2 1' (H403215-04)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	10/21/2014	ND	400	100	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Received: 10/20/2014
Reported: 10/23/2014
Project Name: WINDFOHR 4 FED #2
Project Number: 70130707101
Project Location: EDDY COUNTY, NM

Sampling Date: 10/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 2' (H403215-05)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	10/21/2014	ND	416	104	400	0.00		

Sample ID: S-3 0' REFUSAL (H403215-06)

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	10/21/2014	ND	2.05	103	2.00	8.65		
Toluene*	<0.050	0.050	10/21/2014	ND	1.94	97.1	2.00	9.58		
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.85	92.7	2.00	9.35		
Total Xylenes*	<0.150	0.150	10/21/2014	ND	5.56	92.6	6.00	9.47		
Total BTEX	<0.300	0.300	10/21/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 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	14000	16.0	10/21/2014	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	10/21/2014	ND	178	89.0	200	2.01		
DRO >C10-C28	<10.0	10.0	10/21/2014	ND	209	105	200	3.44		

Surrogate: 1-Chlorooctane 94.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 122 % 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
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 10/20/2014
Reported: 10/23/2014
Project Name: WINDFOHR 4 FED #2
Project Number: 70130707101
Project Location: EDDY COUNTY, NM

Sampling Date: 10/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 0' (H403215-07)

BTX 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	10/21/2014	ND	2.05	103	2.00	8.65	
Toluene*	<0.050	0.050	10/21/2014	ND	1.94	97.1	2.00	9.58	
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.85	92.7	2.00	9.35	
Total Xylenes*	<0.150	0.150	10/21/2014	ND	5.56	92.6	6.00	9.47	
Total BTX	<0.300	0.300	10/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 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	17000	16.0	10/21/2014	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	10/21/2014	ND	178	89.0	200	2.01	
DRO >C10-C28	<10.0	10.0	10/21/2014	ND	209	105	200	3.44	

Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

Sample ID: S-4 1' REFUSAL (H403215-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	10/21/2014	ND	416	104	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/20/2014
 Reported: 10/23/2014
 Project Name: WINDFOHR 4 FED #2
 Project Number: 70130707101
 Project Location: EDDY COUNTY, NM

 Sampling Date: 10/17/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-5 0' (H403215-09)

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	10/21/2014	ND	2.05	103	2.00	8.65	
Toluene*	<0.050	0.050	10/21/2014	ND	1.94	97.1	2.00	9.58	
Ethylbenzene*	<0.050	0.050	10/21/2014	ND	1.85	92.7	2.00	9.35	
Total Xylenes*	<0.150	0.150	10/21/2014	ND	5.56	92.6	6.00	9.47	
Total BTEX	<0.300	0.300	10/21/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	4960	16.0	10/21/2014	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	10/21/2014	ND	178	89.0	200	2.01	
DRO >C10-C28	<10.0	10.0	10/21/2014	ND	209	105	200	3.44	

Surrogate: 1-Chlorooctane 96.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 112 % 52.1-176

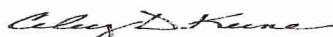
Sample ID: S-5 1' (H403215-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8960	16.0	10/21/2014	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/20/2014
Reported: 10/23/2014
Project Name: WINDFOHR 4 FED #2
Project Number: 70130707101
Project Location: EDDY COUNTY, NM

Sampling Date: 10/17/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

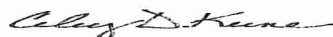
Sample ID: S-5 2' REFUSAL (H403215-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	10/21/2014	ND	416	104	400	0.00	

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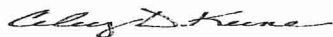
Notes and Definitions

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

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