

February 10, 2016

AMARILLO 921 North Bivins Amarillo, Texas 79107 Phone 806.467.0607

Fax 806.467.0622

Ms. Heather Patterson **NMOCD District 2** 811 S. 1st Street Artesia, NM 88210

ARTESIA

408 West Texas Avenue Artesia, New Mexico 88210 Phone 575.746.8768 Soil Assessment and Remediation Work Plan

Lime Rock Resources II-A, L.P. West Redlake Water Station #1

FORT COLLINS

1811 East Mulberry Street Fort Collins, Colorado Phone 970.818.5330 Dear Ms. Patterson,

Subject:

MIDLAND 2301 State Hwy 349

Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180 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.

OKLAHOMA CITY

7700 North Hudson Avenue Suite 10 Oklahoma City, Oklahoma 73116 Phone 405.486.7030

SAN ANTONIO

13111 Lookout Way San Antonio, Texas 78233 Phone 210,265,8025

WOODWARD

1211 34th Street Suite 13 Woodward, Oklahoma 73801 Phone 580.377.1194

Background Information

The West Redlake Water Station #1 is located approximately ten (10) miles east of Artesia, New Mexico. The legal location for this release is Unit Letter B, Section 7. Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.768991 North and -104.314224 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 gypsum land. 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 normally dry. Ground water in the project vicinity is between 50 and 100-feet below ground surface (bgs) according the 2005 Chevron Texaco ground water trend map. 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' >1000° Wellhead Protection Area 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 flowline ruptured causing a release of approximately 190bbls of produced water. The fluid was contained within the berms of the battery. The line was repaired and put back into service. A vacuum truck was dispatched to the location and was able to recover approximately 170bbls of produced water. Talon mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area utilizing a hand auger. Upon receipt of analytical results from the soil sampling event with the hand auger it was determined that further vertical delineation of chloride impacts would be required. An excavator was then mobilized for further vertical delineation of the impacted area. Due to the numerous above and below ground lines at this location, vertical delineation sampling was carried out at sample locations S-2 and S-4. The laboratory results from the soil sampling activities are summarized in the table below.

Laboratory Results

See Appendix IV for complete report of laboratory results.

Initial Site Assessment

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	0.387	18200	ND	ND
S-1 Refusal	1	ND	17400	ND	ND
S-2	0	1.65	26800	ND	ND
S-2 Refusal	1	ND	16800	ND	ND
S-3	0	ND	15000	ND	ND
S-3 Refusal	0.5	ND	5800	ND	ND
S-4	0	ND	20400	ND	ND
S-4 Refusal	0.5	ND	16800	ND	ND

Chloride Delineation with Excavator

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-2	2		6800		
S-2	3		4560		
S-2	4		1720		
S-2	5		1070		
S-2 Refusal	6		496		
S-4	1		4080		
S-4	2	<u></u>	6000	-,16	-
S-4	3		1800		
S-4	4		800		
S-4	5		1840		
S-4 Refusal	6		592		

(--) Analyte Not Tested

(ND) Analyte Not Detected

Proposed Remedial Actions

- Due to the rocky conditions and the lines in the area the impacted area in the vicinity of sample locations S-1 and S-3 will be excavated to the greatest extent safely possible. Confirmation soil samples will be taken and results will be discussed with OCD and BLM prior to backfilling the excavation.
- The impacted area in the vicinity of sample location S-2 will be excavated to a depth of 4-feet bgs.
- The impacted area in the vicinity of sample location S-4 will be excavated to a depth of 5-feet bgs.
- All of the excavated soil will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with caliche and contoured to match the surrounding location.

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

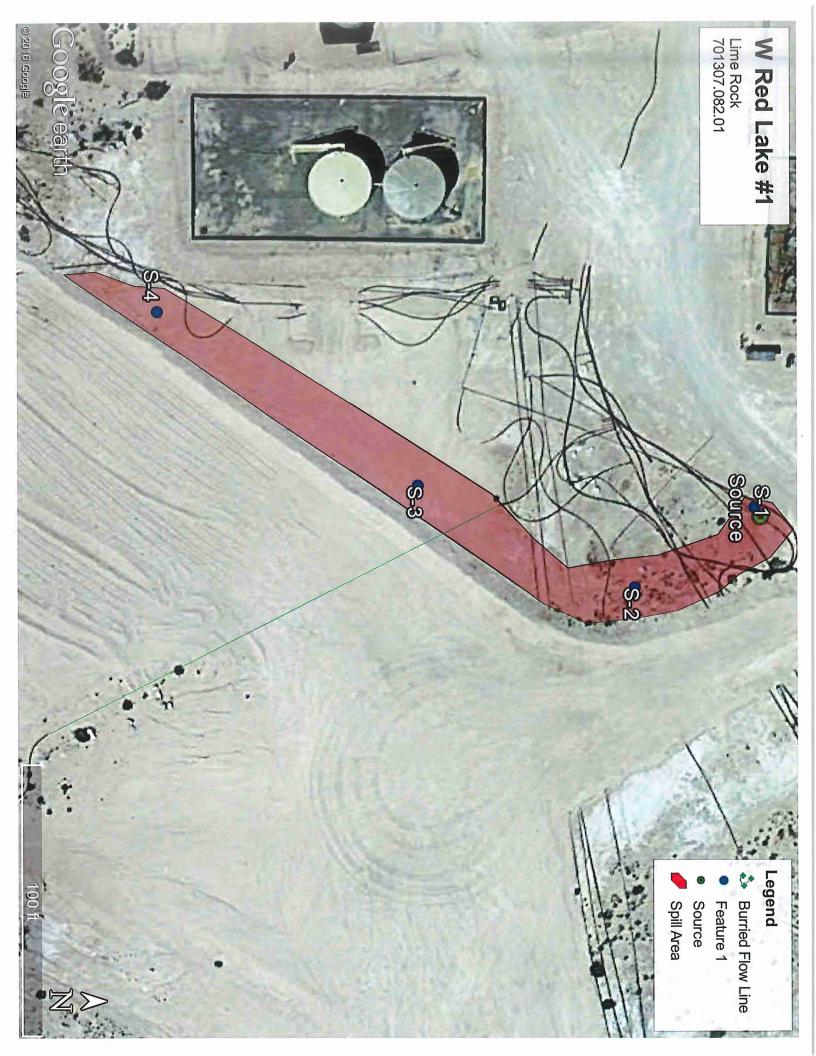
Sheldon L. Hitchcock

Project Manager

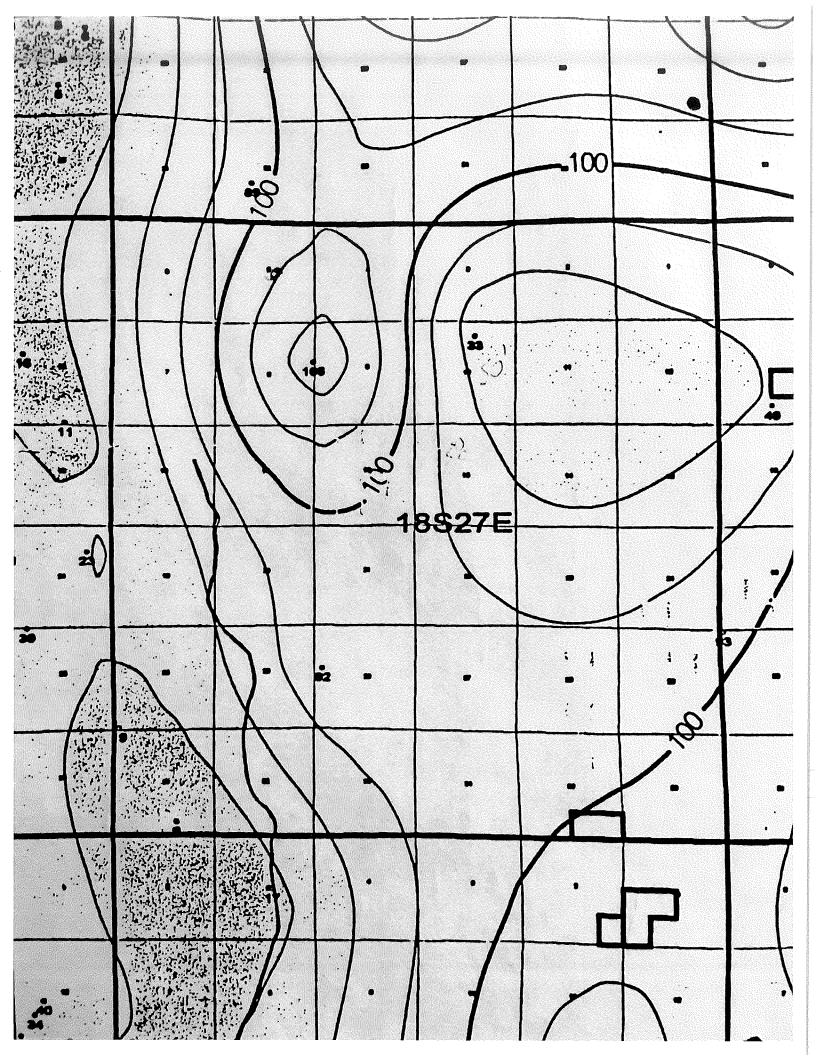
David J. Adkins

District Manager

SITE PLAN



GROUNDWATER DATA



INITIAL C-141

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

Attached

Release Notification and Corrective Action OPERATOR Initial Report Final Report Contact: Mike Barrett Name of Company: LIME ROCK RESOURCES II-A, LP Telephone No.: 575-623-8424 Address: 1111 Bagby Street Suite 4600, Houston, TX 77002 Facility Name: WEST REDLAKE WATER STATION #1 Facility Type: Water Station Mineral Owner: Lease No. Surface Owner: LOCATION OF RELEASE Feet from the North/South Line Feet from the East/West Line County Eddy Township Unit Letter Section Range **18S** В 7 27E Latitude 32.768991 N Longitude -104.314224 W NATURE OF RELEASE Volume Recovered: 170 bbls Volume of Release: 190 bbls Type of Release: Produced Water Source of Release: Flow line leak Date and Hour of Occurrence: Date and Hour of Discovery: 11/27/15 11/27/15 10:00 am If YES, To Whom? Was Immediate Notice Given? OCD/Mike Bratcher Date and Hour: 11/27/15 @, 11:30 am By Whom? Kimberly Wilson If YES, Volume Impacting the Watercourse. Was a Watercourse Reached? ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.*□A flow line ruptured causing a release of 190 barrels of produced water to be released within the earthen berms of the secondary containment. The release didn't breach the berm. The line was isolated, shut in and repaired. A vac truck was immediately called to location and recovered 170 barrels of fluid. Talon mobilized personnel to the location for initial site assessment and soil sampling activities to generate a work plan. Describe Area Affected and Cleanup Action Taken.* All fluids were contained with earthen berms. 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. OIL CONSERVATION DIVISION Signature: W Approved by District Supervisor: Printed Name: Michael Barrett Approval Date: **Expiration Date:** Title: Production Supervisor

Conditions of Approval:

Date: 12/10/2015

E-mail Address: mbarrett@limerockresources.com

Phone: 575-623-8424

^{*} Attach Additional Sheets If Necessary

LABORATORY RESULTS



December 03, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE #1

Enclosed are the results of analyses for samples received by the laboratory on 11/30/15 15:35.

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 accreditated 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.

Celey D. Keene

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



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

Received:

11/30/2015

Reported:

12/03/2015

Project Name:

WEST RED LAKE #1

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/25/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 0' (H503129-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2015	ND	1.97	98.6	2.00	2.58	
Toluene*	0.135	0.050	12/02/2015	ND	1.97	98.5	2.00	2.40	
Ethylbenzene*	0.099	0.050	12/02/2015	ND	2.01	101	2.00	2.90	
Total Xylenes*	0.154	0.150	12/02/2015	ND	5.97	99.5	6.00	3.01	
Total BTEX	0.387	0.300	12/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.6-14)						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result 18200	Reporting Limit 16.0	Analyzed 12/01/2015	Method Blank ND	BS 400	% Recovery	True Value QC 400	RPD 11.3	Qualifier
•		16.0	12/01/2015			50 Sec. 10 Sec	100 miles		Qualifier
Chloride	18200	16.0	12/01/2015	ND		50 Sec. 10 Sec	100 miles		Qualifier Qualifier
Chloride TPH 8015M	18200 mg/	16.0 /kg	12/01/2015 Analyze	ND d By: MS	400	100	400	11.3	
Chloride TPH 8015M Analyte	18200 mg, Result	16.0 /kg Reporting Limit	12/01/2015 Analyze Analyzed	ND d By: MS Method Blank	400 BS	100 % Recovery	400 True Value QC	11.3	
Chloride TPH 8015M Analyte GRO C6-C10	18200 mg, Result <10.0	16.0 /kg Reporting Limit 10.0 10.0	12/01/2015 Analyze Analyzed 12/01/2015 12/01/2015	ND d By: MS Method Blank ND	400 BS 194	100 % Recovery 97.2	400 True Value QC 200	11.3 RPD 0.907	

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keena



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

Received:

11/30/2015

Reported:

12/03/2015

Project Name:

WEST RED LAKE #1

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/25/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 1' REFUSAL (H503129-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2015	ND	1.97	98.6	2.00	2.58	
Toluene*	<0.050	0.050	12/02/2015	ND	1.97	98.5	2.00	2.40	
Ethylbenzene*	<0.050	0.050	12/02/2015	ND	2.01	101	2.00	2.90	
Total Xylenes*	<0.150	0.150	12/02/2015	ND	5.97	99.5	6.00	3.01	
Total BTEX	<0.300	0.300	12/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17400	16.0	12/01/2015	ND	400	100	400	11.3	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/01/2015	ND	194	97.2	200	0.907	
DRO >C10-C28	<10.0	10.0	12/01/2015	ND	193	96.6	200	2.84	
Surrogate: 1-Chlorooctane	95.69	% 35-147	,						
Surrogate: 1-Chlorooctadecane	103 9	% 28-171							

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*=Accredited Analyte

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Celey & Keens



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

Received:

11/30/2015

Reported:

12/03/2015

Project Name:

WEST RED LAKE #1

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/25/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-2 0' (H503129-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.548	0.050	12/02/2015	ND	1.97	98.6	2.00	2.58	
Toluene*	0.680	0.050	12/02/2015	ND	1.97	98.5	2.00	2.40	
Ethylbenzene*	0.151	0.050	12/02/2015	ND	2.01	101	2.00	2.90	
Total Xylenes*	0.269	0.150	12/02/2015	ND	5.97	99.5	6.00	3.01	
Total BTEX	1.65	0.300	12/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26800	16.0	12/01/2015	ND	400	100	400	11.3	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/01/2015	ND	194	97.2	200	0.907	
DRO >C10-C28	<10.0	10.0	12/01/2015	ND	193	96.6	200	2.84	
Surrogate: 1-Chlorooctane	97.8	% 35-147	,						
Surrogate: 1-Chlorooctadecane	104 9	% 28-171							

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Celey D. Keene



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

Received:

11/30/2015

Reported:

12/03/2015

Project Name:

WEST RED LAKE #1

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/25/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-2 1' REFUSAL (H503129-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2015	ND	1.97	98.6	2.00	2.58	
Toluene*	<0.050	0.050	12/02/2015	ND	1.97	98.5	2.00	2.40	
Ethylbenzene*	<0.050	0.050	12/02/2015	ND	2.01	101	2.00	2.90	
Total Xylenes*	<0.150	0.150	12/02/2015	ND	5.97	99.5	6.00	3.01	
Total BTEX	<0.300	0.300	12/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	12/01/2015	ND	400	100	400	11.3	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/01/2015	ND	194	97.2	200	0.907	
DRO >C10-C28	<10.0	10.0	12/01/2015	ND	193	96.6	200	2.84	
Surrogate: 1-Chlorooctane	89.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	100	% 28-171	1						

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Celey D. Keens



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

Received:

11/30/2015

Reported:

12/03/2015

Project Name:

WEST RED LAKE #1

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/25/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 0' (H503129-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2015	ND	1.97	98.6	2.00	2.58	
Toluene*	<0.050	0.050	12/02/2015	ND	1.97	98.5	2.00	2.40	
Ethylbenzene*	<0.050	0.050	12/02/2015	ND	2.01	101	2.00	2.90	
Total Xylenes*	<0.150	0.150	12/02/2015	ND	5.97	99.5	6.00	3.01	
Total BTEX	<0.300	0.300	12/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 73.6-140)						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15000	16.0	12/01/2015	ND	400	100	400	11.3	
Chloride TPH 8015M	15000 mg/			ND d By: MS	400	100	400	11.3	
					400 BS	100 % Recovery	400 True Value QC	11.3	Qualifier
TPH 8015M	mg/	kg	Analyze	d By: MS					Qualifier
TPH 8015M Analyte	mg/ Result	Reporting Limit	Analyze Analyzed	d By: MS Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte GRO C6-C10	Result	Reporting Limit 10.0 10.0	Analyzed 12/02/2015 12/02/2015	Method Blank	BS 192	% Recovery 96.1	True Value QC 200	RPD 0.104	Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



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

Received:

11/30/2015

Reported:

12/03/2015

Project Name: Project Number: WEST RED LAKE #1

Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

11/25/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-3 0.5' REFUSAL (H503129-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2015	ND	1.97	98.6	2.00	2.58	
Toluene*	<0.050	0.050	12/02/2015	ND	1.97	98.5	2.00	2.40	
Ethylbenzene*	<0.050	0.050	12/02/2015	ND	2.01	101	2.00	2.90	
Total Xylenes*	<0.150	0.150	12/02/2015	ND	5.97	99.5	6.00	3.01	
Total BTEX	<0.300	0.300	12/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
									Ex. (2.52)
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte Chloride	Result 5800	Reporting Limit	Analyzed 12/01/2015	Method Blank ND	BS 400	% Recovery	True Value QC 400	RPD 11.3	Qualifier
,		16.0	12/01/2015			ACT SHARE SERVICES OF A MARKET AND A SHARE SERVICES	author construction and an arrangement of the material		Qualifier
Chloride	5800	16.0	12/01/2015	ND		ACT SHARE SERVICES OF A MARKET AND A SHARE SERVICES	author construction and an arrangement of the material		Qualifier Qualifier
Chloride TPH 8015M	5800 mg/	16.0 ′kg	12/01/2015 Analyze	ND d By: MS	400	100	400	11.3	
Chloride TPH 8015M Analyte	5800 mg/ Result	16.0 /kg Reporting Limit	12/01/2015 Analyze Analyzed	ND d By: MS Method Blank	400 BS	100 % Recovery	400 True Value QC	11.3	
Chloride TPH 8015M Analyte GRO C6-C10	5800 mg/ Result <10.0	16.0 Reporting Limit 10.0 10.0	12/01/2015 Analyze Analyzed 12/02/2015 12/02/2015	ND d By: MS Method Blank ND	400 BS 192	100 % Recovery 96.1	400 True Value QC 200	11.3 RPD 0.104	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keens



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

Received:

11/30/2015

Reported:

12/03/2015

Project Name:

WEST RED LAKE #1

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/25/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-4 0' (H503129-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2015	ND	1.97	98.6	2.00	2.58	
Toluene*	<0.050	0.050	12/02/2015	ND	1.97	98.5	2.00	2.40	
Ethylbenzene*	<0.050	0.050	12/02/2015	ND	2.01	101	2.00	2.90	
Total Xylenes*	<0.150	0.150	12/02/2015	ND	5.97	99.5	6.00	3.01	
Total BTEX	<0.300	0.300	12/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	12/01/2015	ND	400	100	400	11.3	
TPH 8015M	mg/	kg	Analyze	d By: MS	: t :				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2015	ND	192	96.1	200	0.104	
DRO >C10-C28	<10.0	10.0	12/02/2015	ND	185	92.6	200	0.860	
Surrogate: 1-Chlorooctane	97.1	% 35-147							
Surrogate: 1-Chlorooctadecane	109 5	% 28-171							

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Celey D. Keene



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

Received:

11/30/2015

Reported:

12/03/2015

Project Name:

WEST RED LAKE #1

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

11/25/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-4 0.5' REFUSAL (H503129-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/02/2015	ND	1.97	98.6	2.00	2.58	
Toluene*	<0.050	0.050	12/02/2015	ND	1.97	98.5	2.00	2.40	
Ethylbenzene*	<0.050	0.050	12/02/2015	ND	2.01	101	2.00	2.90	
Total Xylenes*	<0.150	0.150	12/02/2015	ND	5.97	99.5	6.00	3.01	
Total BTEX	<0.300	0.300	12/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16800	16.0	12/01/2015	ND	400	100	400	11.3	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/02/2015	ND	192	96.1	200	0.104	
DRO >C10-C28	<10.0	10.0	12/02/2015	ND	185	92.6	200	0.860	
Surrogate: 1-Chlorooctane	94.3 9	% 35-147							
Surrogate: 1-Chlorooctadecane	103 %	6 28-171							

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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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

י מיסיוירי ד				•	ANALYSIS REQUEST
Project Manager: D. Adkins	Adkins		P.O. #:		
Address: 408 W. Texas Ave	Texas Ave.		Company: Talon/LPE		
city: Artesia	State: NM	State: NM Zip: 88210			
Phone #: 575-746-8768	71	Fax #: 575-746-8905	Address:		
Project #:	Project Owner:Lime Rock	•	City:		
Project Name: West Red Lake #1			State: Zip:		
Project Location:			#		
Sampler Name: R. D	DeRosier		Fax #:		
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	2	
Lab I.D.	Sample I.D.		ASE: DOL :	EX Lorid	
H503129		# CON GROUI WASTE SOIL OIL SLUDG	OTHER ACID/B ICE / CO OTHER DATE	ŢÍ Bi	
1 5-1	0.	-	11/25/15 4:00	///	
25-	1 Rz Eusal	6	1 1 402	////	
3 5-2	Ó	61	919	1////	
-9 1	2 1' Resusal	9	(1)	/////	
5 5-	30'	6 1	81:0 (//////	
2,20	3 1915 REFUSAL	6 1	6:3		
75-0	0,	6 1 9	0.5.3		
8 5-0	1 0.5' Rerusal	1 6	/ (4:32	1111	

Sample Condition
Cool Intact
Pes Pes
No No

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Time:

Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No Add'I Phone #:
☐ Yes ☐ No Add'I Fax #:

Relinquished By



January 21, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE #1

Enclosed are the results of analyses for samples received by the laboratory on 01/20/16 14:00.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keens

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



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

Received:

01/20/2016

Reported:

01/21/2016

Project Name:

WEST RED LAKE #1

Project Number:

Project Location:

701307.082.01

EDDY CTY.

Sampling Date:

Sample Received By:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

01/19/2016

Jodi Henson

Sample ID: S-2 2' (H600130-01)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Result

6800

Result

4560

1720

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 01/21/2016 Method Blank ND

BS 400

BS

400

BS

400

% Recovery 100

True Value QC 400

RPD 3.92 Qualifier

Sample ID: S-2 3' (H600130-02)

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyzed

01/21/2016

Method Blank

ND

% Recovery

100

True Value QC

400

RPD

Qualifier 3.92

Sample ID: S-2 4' (H600130-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Reporting Limit

16.0

Analyzed

01/21/2016

Method Blank

ND

% Recovery

100

True Value QC

400

RPD 3.92 Qualifier

Sample ID: S-2 5' (H600130-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result Chloride 1070

Analyzed 01/21/2016 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD 3.92 Qualifier

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Celeg & treens

Celey D. Keene, Lab Director/Quality Manager



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

Received: Reported: 01/20/2016

01/21/2016

Project Name:

WEST RED LAKE #1

Project Number: Project Location: 701307.082.01 EDDY CTY.

Sampling Date:

01/19/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-2 6' (H600130-05) Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Result

496

Reporting Limit 16.0

Reporting Limit

Reporting Limit

Analyzed 01/21/2016

Analyzed

Analyzed

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD

3.92

Sample ID: S-4 1' (H600130-06)

Chloride, SM4500CI-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AP

True Value QC

Qualifier

Qualifier

Chloride

Chloride

Result 4080

16.0 01/21/2016 Method Blank ND

BS 400 % Recovery 100

400

RPD

3.92

Sample ID: S-4 2' (H600130-07)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

Result 6000

16.0 01/21/2016 ND

BS 400

100

400

Sample ID: S-4 3' (H600130-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

3.92

Chloride

Result 1800

Result

800

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 01/21/2016

Analyzed

01/21/2016

Method Blank ND

Method Blank

ND

BS 400

BS

400

% Recovery 100

% Recovery

100

True Value QC 400

True Value QC

400

RPD

RPD

7.69

Qualifier

Sample ID: S-4 4' (H600130-09)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

7.69

Oualifier

Analyte Chloride

Cardinal Laboratories

*=Accredited Analyte

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Celeg & treens

Celey D. Keene, Lab Director/Quality Manager



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 01/20/2016

01/21/2016

WEST RED LAKE #1

Project Name: Project Number:

701307.082.01

Project Location:

EDDY CTY.

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

01/19/2016

Sample ID: S-4 5' (H600130-10)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

01/21/2016

Analyzed Method Blank

ND

True Value QC

RPD

Qualifier

Chloride

1840

16.0

BS 400 % Recovery 100

400

7.69

Sample ID: S-4 6' (H600130-11)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/21/2016	ND	400	100	400	7.69	

Cardinal Laboratories

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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. Kuna



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

			2,42 Cool	Delivered By: (Circle One) Sampler - UPS - Bus - Other:
,	KULI	CHECKED BY.	Time:	
			Date: Received By:	Relinquished By:
	3	The tolor	The Knottown	
Add'l Phone非:	Phone Result: Yes No	nder by Cardinal regardless of whether such claim is based upon any of the above seases real. Received By:	nance of services hereunder by Cardinal, regardless of whether Dates Received By:	affiliates or successors arising out of or related to the performanc Relinquished By:
	s after completion of the applicable of by client, its subsidiaries,	writing and received by Cardinal within 30 day erruptions, loss of use, or loss of profits incurse	PLEASE NOTE. LEMETRY and Burnages. Continuit's initially and cleans accounts terrainly on a system across a sound to the applicable analyses. All claims clouding those for resignates any other creams whatesever shall be decimed univoked unless and belief the residence and any other creams whatesever shall be decimed univoked unless and belief the residence and any other creams whatesever shall be decimed univoked universe and be interested by client, its subcliction, service, in one event shall Cauditud be liable for incidental or consequential damages, instantiant multifact, business interruptions, loss of use, or loss of profit incurred by client, its subcliction, and the consequential damages, instantiants, which is unless that the consequential damages, instantiants without includion, business interruptions, loss of use, or loss of profit incurred by client, its subclictions.	PLEASE NOTE: Litelity and Damages. Cardinal's liability a analyses. All claims including those for negligence and any service. In no event shall Cardinal be liable for incidental or
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	s la		ER	FOR LAB USE ONLY
	SAMPI NG	rax#:	0,180m	Sampler Name: X.B.
	100	Phone #:	Cty	Project Location: Eddy
	le	State: Zip:	10#1	me: WRedle
	1	City:	. 01 Project Owner:	R
		Address:	*71	-746-8768
		Attn:	State: NM Zip: 88210	esia
	LPE	company: Talon/LPE	1	N. Te
		P.O. #:	(D)/Son	
ANALYSIS REQUEST		(0) = 11.5 = 11.5 = 11.5 = 11.5 = 11.5 = 11.5		Company Name: Talon/I PF
11 Sel 2001			101 East Mariand, Hobbs, NM 88240 1675) 203-2326 FAX (575) 293-2476	101 East Mariand, Hobbs, NM 8824
/ / / /				

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 396/2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

		5,4° Gres Gres (Matas)	Bus - Other:	Sampler - UPS -
		Sample Condition CHECKET BY:	I mie.	
v.	KUSh	Received By:	By:	Relinquished
	REMARKS:	thetowy teller	CAS Times Of	R
Add'i Fax#	Phone Result:	Received By:	additates of successors arising out of or related to the performance of services incounter to Relinquished By:	Relinquished By:
		PIESCE NOTE. Lability and Burnages. Caminate subset with the companion of the property of the companion of the opposite principle of the companion of the opposite principles. All claims including those for resiliences and any other causes whichsalves in the deemed walved includes intriplicing, toos of use, or loss of points neutred by clerk, its substiticities, and the principle of the companion of the property of the property of the companion of the property of	lability and Barnages. Cartinate sistemy sistements of control of the lability and Barnages. Cartinate sistemy other genes what sowers shall be including those for negligence and any other genes whatsoever shall neclaid carding be jable for incidental or consequental darmages, include the sistemy cardinal be jable for incidental or consequental darmages, include	analyses. All claims
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	lo	VATER TER		
	E	P. MATRIX PRESERV. SAULT LING	ATA	FOR LABUSE ONLY
	ia	Fax#:	me: Simble 1807	Sampler Name:
	00	Phone #:	677	Project Name.
			ingod lake a	Project #:
		City:	10.09	Money, Or
		746-8905 Address:	-746-8768 F	shone # 575
		zip: 88210 Attn:	State: NM	Address, To
		Company: Talon/LPE	Texas Ave	Address: 408 W
		P.O.#:	10	project Wanager
ANALYSIS REQUEST			1 0	Name Name
600			101 East Marland, Hobbs, NW 88240	
Day 2012				

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