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**Closure Report
Lime Rock Resources II-A, L.P.:**

**West Red Lake Unit #56
|30-015-28451|2RP-4184|**

June 23, 2017

Prepared By:

TALON/LPE
408 W. Texas Avenue
Artesia, New Mexico 88210

Prepared For:

Lime Rock Resources II-A, L.P.

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

Subject: **Closure Report**
Lime Rock Resources II-A, L.P.
West Red Lake Unit #56
[30-015-28451|2RP-4184]

Dear Mr. Bratcher,

Lime Rock Resources II-A, L.P. (Lime Rock) has contracted Talon/LPE (Talon) to perform initial spill response, soil sampling, surface water sampling and remediation services at the above referenced location. The results of our soil and surface water assessment, remediation activities and closure request are submitted herein.

Site Information

The West Red Lake Unit #56 is located approximately twelve (12) miles east of Artesia, New Mexico. The legal location for this release is Unit Letter K, Section 7, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.76122 North and -104.32071 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 Arno-Harkey complex, saline with 0 to 1 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology in the vicinity of the release is comprised of the Salado formation. An evaporate sequence, dominantly halite.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that the nearest well is located in Section 1, Township 18 South and Range 26 East. This well has a reported depth to groundwater of 8-feet below ground surface (BGS). However groundwater was not observed during soil sampling activities at this site. See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **20** based on the following:

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

Incident Description and Initial Remedial Actions

On April 17, 2017, a nipple at a manifold fractured due to corrosion. The fracture resulted in the release of approximately 10bbls of produced water. The majority of the fluid flowed southeast across the soil surface. A small amount of overspray impacted the soil and vegetation northwest of the release point. Approximately 0.5bbl of produced water entered the river. There were no visual indicators (sheen, floating product, etc.) of hydrocarbons in the river at the time of discovery. The line was shut in and repaired.

Following discovery of the release a vacuum truck and backhoe were mobilized to the site to recover standing fluid and scrape up saturated soil in order to mitigate the impacts from the release. The impacted area on the river bank where the fluid entered the river was excavated to a depth of 2-feet BGS in order to prevent any further impacts to the river. A berm was also constructed to mitigate the potential impacts from a future release.

Talon mobilized personnel to conduct surface water and soil sampling within the affected area.

Laboratory Results

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

April 17, 2017 Surface Water Sampling

Sample ID	Benzene (mg/L)	BTEX (mg/L)	Chlorides (mg/L)	TPH (mg/L) GRO	TPH (mg/L) DRO
W-1	<0.001	<0.006	1720	<1.00	<1.00
W-2	<0.001	<0.006	1760	<1.00	<1.00
W-3	<0.001	<0.006	1640	<1.00	<1.00

April 18, 2017 Soil Sampling

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	2	<0.50	<0300	240	<10.0	<10.0
S-1	3	--	--	272	--	--
S-2	0	<0.050	<0.300	104000	<10.0	<10.0
S-2	1	--	--	6000	--	--
S-2	2	--	--	3120	--	--
S-2	3	--	--	1550	--	--
S-2	4	--	--	1040	--	--
S-2	6	--	--	1500	--	--
S-2	8	--	--	944	--	--
S-2	10	--	--	256	--	--
S-2	12	--	--	128	--	--

April 18, 2017 Soil Sampling Continued

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-3	0	<0.50	<0.300	15000	<10.0	<10.0
S-3	1	--	--	2440	--	--
S-3	2	--	--	2160	--	--
S-3	3	--	--	1380	--	--
S-3	4	--	--	688	--	--
S-3	6	--	--	768	--	--
S-3	8	--	--	1300	--	--
S-3	10	--	--	480	--	--
S-3	12	--	--	864	--	--
S-4	0	<0.50	<0.300	7460	<10.0	<10.0
S-4	1	--	--	288	--	--
S-4	2	--	--	608	--	--
S-4	3	--	--	1440	--	--
S-4	4	--	--	2400	--	--
S-4	6	--	--	1260	--	--
S-4	8	--	--	1330	--	--
S-4	10	--	--	1260	--	--
S-4	12	--	--	544	--	--

(--) Analyte Not Tested

Background Soil Sampling

Sample ID	Depth (feet)	Chlorides (mg/kg)
BG-1	0	160
BG-1	1	1600
BG-1	2	2200
BG-1	3	2680
BG-1	4	3160
BG-1	6	1090
BG-1	8	752
BG-1	10	352
BG-1	12	368
BG-2	0	160
BG-2	1	240
BG-2	2	272
BG-2	3	304
BG-2	4	544
BG-2	6	288
BG-2	8	224
BG-2	10	336
BG-2	12	368

Background Soil Sampling Continued

Sample ID	Depth (feet)	Chlorides (mg/kg)
BG-3	2	192
BG-3	4	1390
BG-3	6	1920
BG-3	8	848
BG-3	10	656
BG-3	12	864
BG-4	2	2920
BG-4	4	3320
BG-4	6	1360
BG-4	8	896
BG-4	10	656
BG-4	12	512
BG-5	2	4640
BG-5	4	53360
BG-5	6	1840
BG-5	8	2760
BG-5	10	2800
BG-5	12	2560

Mean background chloride concentration at depth

Depth (feet)	Chlorides (mg/kg)
0	160
1	920
2	2045
3	1492
4	12355
6	1300
8	1096
10	960
12	934

Based upon the site ranking of **20**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 100 mg/kg for TPH and the recommended guideline for Total Chlorides is 1,000 mg/kg.

Conclusions

A very small amount of brine water (approximately 0.5bbls) entered the river. Based on our analytical results from the surface water sampling and visual observations, there is no evidence that any hydrocarbons impacted the river. The analytical results from the surface water sampling event (source, upstream and downstream) do not indicate that the introduced brine water resulted in any noticeable effect to the water quality of the Pecos River.

Based on the saline soil type, the proximity of the river which has historically contained high levels of chlorides and the high chloride concentrations discovered from the background soil analysis; vertical delineation to the NMOCD recommended chloride concentration of 250 mg/kg was not possible at every sample location. It is our opinion that the soil within the area that was affected by this release was fully delineated. Furthermore, due to the high naturally occurring soil chloride concentrations in the project vicinity (background) remediation to the NMOCD recommended guidelines for total chlorides of 1,000 mg/kg was not always achievable.

Remedial Actions Taken

- In accordance with the NMOCD approved work plan, the flow path leading to the river was excavated to a depth of 2-feet BGS. A soil sample was taken in the bottom of the excavation (sample location S-1). The remaining soil in this area was excavated to a depth of 1-foot BGS.
- The impacted area in the vicinity of sample location S-2 was excavated to a depth of 4-feet BGS.
- The impacted area in the vicinity of sample location S-3 was excavated to a depth of 3-feet BGS.
- The excavated area in the vicinity of sample location S-4 was excavated to a depth of 1-foot BGS.
- All of the excavated soil was hauled to a NMOCD approved solid waste disposal facility.
- The excavation was backfilled and contoured to match the surrounding terrain.

Closure


On behalf of Lime Rock Resources II-A, L.P we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE


Sheldon Hitchcock
Project Manager


David J. Adkins
District Manager

Attachments

Appendix I Site Plan
Appendix II Groundwater Data
Appendix III Initial & Final C-141
Appendix IV Laboratory Results

APPENDIX I

SITE PLAN

West Red Lake Unit #56

Lime Rock Resources II-A, L.P.

Legend

-  Impacted Area
-  Sample Location





1000 ft

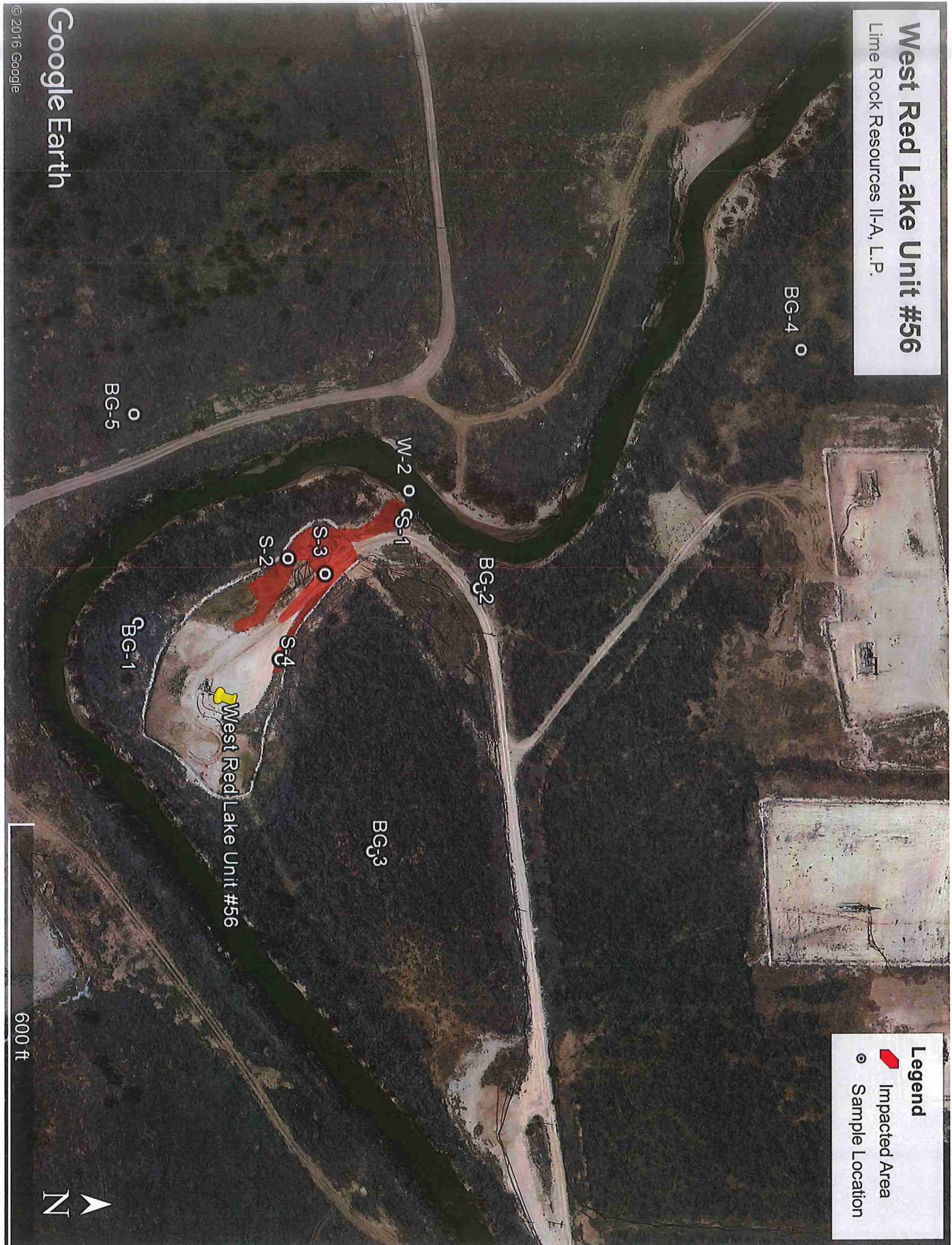
 N

West Red Lake Unit #56

Lime Rock Resources II-A, L.P.

Legend

-  Impacted Area
-  Sample Location



West Red Lake Unit #56

Lime Rock Resources II-A, L.P.

W-2 ○ S-1 ○

S-3 ○

S-2 ○

S-4

Legend

Impacted Area

○ Sample Location

Google Earth

© 2016 Google

West Red Lake Unit #56

100 ft



APPENDIX II

GROUNDWATER DATA



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 05989			ED	3	2	4	01	18S	26E	562774	3626466*	1776	72	8	64
RA 02432			ED	2	3	1	12	18S	26E	561764	3625443*	1990	100		

Average Depth to Water: 8 feet

Minimum Depth: 8 feet

Maximum Depth: 8 feet

Record Count: 2

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 563691

Northing (Y): 3624944

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.

APPENDIX III
INITIAL C-141
&
FINAL 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

NM OIL CONSERVATION
ARTESIA DISTRICT
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

APR 21 2017

RECEIVED

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

NAB1711547925

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company : LIME ROCK RESOURCES II-A, LP 277558	Contact : Mike Barrett
Address : 1111 Bagby Street Suite 4600, Houston, TX 77002	Telephone No. : 575-365-9724
Facility Name : WEST RED LAKE UNIT #56	Facility Type: Battery

Surface Owner : Private	Mineral Owner: Private	Lease No. 30-015-28451
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	7	18S	27E	2100'	FSL	1980'	FWL	Eddy

Latitude 32.76130 N Longitude -104.32066 W

NATURE OF RELEASE

Type of Release : Produced Water	Volume of Release : 10 bbls	Volume Recovered: 8 bbls
Source of Release : Flowline	Date and Hour of Occurrence: 4/17/2017 @ 10:00am	Date and Hour of Discovery: 4/17/2017 @ 11:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher-NMOCD NRC (NRC # 1175922)	
By Whom? Sheldon Hitchcock	Date and Hour: 4/17/2017	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. 0.5bbl	

If a Watercourse was Impacted, Describe Fully.*

Approximately 1/2 barrel of produced water entered the Pecos River. No sheen was observed on the water.

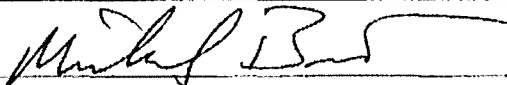
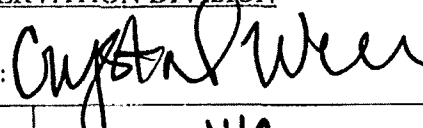
Describe Cause of Problem and Remedial Action Taken.*

A nipple cracked due to corrosion causing a release of 10 barrels produced water. The line was shut-in and the nipple repaired.

Describe Area Affected and Cleanup Action Taken.*

Approximately Ten (10) barrels of produced water were released due to a cracked nipple. A vac truck was called to the location immediately recovering approximately 8 barrels of produced water. Approximately 0.5 barrel of produced water entered the Pecos River. No sheen was observed on the water. Talon was called to begin the site assessment.

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 Superintendent	Approval Date: 4/25/17	Expiration Date: N/A
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval: see attached	Attached <input checked="" type="checkbox"/>
Date: 4/21/2017 Phone: 575-365-9724		

* Attach Additional Sheets If Necessary

Lab results of water
samples taken on
4/17/17 are included.

2RP-4184

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. : 575-365-9724
Facility Name : WEST RED LAKE UNIT #56	Facility Type: Oil

Surface Owner : Private	Mineral Owner: Private	Lease No. 30-015-28451
-------------------------	------------------------	------------------------

LOCATION OF RELEASE

Unit Letter K	Section 7	Township 18S	Range 27E	Feet from the 2100'	North/South Line FSL	Feet from the 1980'	East/West Line FWL	County Eddy
------------------	--------------	-----------------	--------------	------------------------	-------------------------	------------------------	-----------------------	-------------

Latitude 32.76130 N Longitude -104.32066 W

NATURE OF RELEASE

Type of Release : Produced Water	Volume of Release : 10 bbls	Volume Recovered: 8 bbls
Source of Release : Flowline	Date and Hour of Occurrence: 4/17/2017 @ 10:00am	Date and Hour of Discovery: 4/17/2017 @ 11:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher-NMOCD NRC (NRC # 1175922)	
By Whom? Sheldon Hitchcock	Date and Hour: 4/17/2017	
Was a Watercourse Reached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse. ½ barrel	

If a Watercourse was Impacted, Describe Fully.*

Approximately ½ barrel of produced water entered the Pecos River. No sheen was observed on the water. Water samples were taken upstream, at the entry point, and downstream of the release. The samples were analyzed for TPH, BTEX, and Total Chlorides. Comparison of the analytical results from the three sample locations indicated that the small amount of brine water that entered the river had no measurable effect on water quality.


Describe Cause of Problem and Remedial Action Taken.*

A nipple cracked due to corrosion causing a release of approximately 10 barrels produced water. The line was shut-in, repaired and put back into service.

Describe Area Affected and Cleanup Action Taken.*

Approximately ten (10) barrels of produced water were released due to a cracked nipple. A vacuum truck was called to the location immediately recovering approximately eight (8) barrels of produced water. Approximately ½ barrel of produced water entered the Pecos River. No sheen was observed on the water. Soil, surface water and background samples were taken. A remediation work plan was drafted and subsequently approved by NMOCD. The remediation of this release was carried out in accordance with the approved work plan. We are requesting that no further action be required for this incident.

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 Superintendent	Approval Date:	Expiration Date:	
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date 6/27/2017 Phone: 575-365-9724			

* Attach Additional Sheets If Necessary

APPENDIX IV

LABORATORY RESULTS



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

April 19, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE UNIT #56

Enclosed are the results of analyses for samples received by the laboratory on 04/18/17 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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: 04/18/2017
Reported: 04/19/2017
Project Name: WEST RED LAKE UNIT #56
Project Number: 701307.098.01
Project Location: K-7-18S-27E

Sampling Date: 04/17/2017
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: W-1 (H701027-01)

BTX 8021B		mg/L	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	04/19/2017	ND	0.020	98.1	0.0200	2.17	
Toluene*	<0.001	0.001	04/19/2017	ND	0.020	98.6	0.0200	1.97	
Ethylbenzene*	<0.001	0.001	04/19/2017	ND	0.021	106	0.0200	2.33	
Total Xylenes*	<0.003	0.003	04/19/2017	ND	0.061	102	0.0600	2.07	
Total BTX	<0.006	0.006	04/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 96.0 % 72-148

Chloride, SM4500Cl-B		mg/L	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1720	4.00	04/19/2017	ND	100	100	100	3.92	

TPH 8015M		mg/L		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	04/19/2017	ND	51.6	103	50.0	4.73	
DRO >C10-C28	<1.00	1.00	04/19/2017	ND	58.9	118	50.0	0.209	

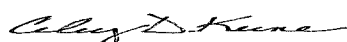
Surrogate: 1-Chlorooctane 143 % 37.1-138

Surrogate: 1-Chlorooctadecane 148 % 44.6-151

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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: 04/18/2017
 Reported: 04/19/2017
 Project Name: WEST RED LAKE UNIT #56
 Project Number: 701307.098.01
 Project Location: K-7-18S-27E

 Sampling Date: 04/17/2017
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: W-2 (H701027-02)

BTX 8021B		mg/L	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	04/19/2017	ND	0.020	98.1	0.0200	2.17	
Toluene*	<0.001	0.001	04/19/2017	ND	0.020	98.6	0.0200	1.97	
Ethylbenzene*	<0.001	0.001	04/19/2017	ND	0.021	106	0.0200	2.33	
Total Xylenes*	<0.003	0.003	04/19/2017	ND	0.061	102	0.0600	2.07	
Total BTX	<0.006	0.006	04/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 99.0 % 72-148

Chloride, SM4500Cl-B		mg/L	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1760	4.00	04/19/2017	ND	100	100	100	3.92	

TPH 8015M		mg/L	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	04/19/2017	ND	51.6	103	50.0	4.73	
DRO >C10-C28	<1.00	1.00	04/19/2017	ND	58.9	118	50.0	0.209	

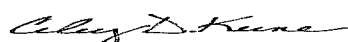
Surrogate: 1-Chlorooctane 124 % 37.1-138

Surrogate: 1-Chlorooctadecane 130 % 44.6-151

Cardinal Laboratories

*=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:	04/18/2017	Sampling Date:	04/17/2017
Reported:	04/19/2017	Sampling Type:	Water
Project Name:	WEST RED LAKE UNIT #56	Sampling Condition:	Cool & Intact
Project Number:	701307.098.01	Sample Received By:	Tamara Oldaker
Project Location:	K-7-18S-27E		

Sample ID: W-3 (H701027-03)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	04/19/2017	ND	0.020	98.1	0.0200	2.17	
Toluene*	<0.001	0.001	04/19/2017	ND	0.020	98.6	0.0200	1.97	
Ethylbenzene*	<0.001	0.001	04/19/2017	ND	0.021	106	0.0200	2.33	
Total Xylenes*	<0.003	0.003	04/19/2017	ND	0.061	102	0.0600	2.07	
Total BTX	<0.006	0.006	04/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PI) 96.8 % 72-148

Chloride, SM4500Cl-B		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1640	4.00	04/19/2017	ND	100	100	100	3.92	

TPH 8015M		mg/L		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<1.00	1.00	04/19/2017	ND	51.6	103	50.0	4.73		
DRO >C10-C28	<1.00	1.00	04/19/2017	ND	58.9	118	50.0	0.209		

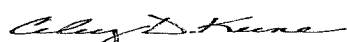
Surrogate: 1-Chlorooctane 139 % 37.1-138

Surrogate: 1-Chlorooctadecane 145 % 44.6-151

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Celey D. Keene, Lab Director/Quality Manager

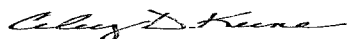
Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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

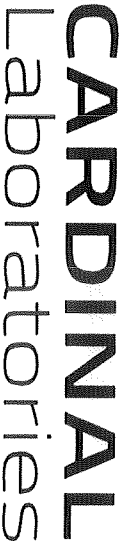
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PG 1021

Page 6 of 6



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

April 19, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE UNIT #56

Enclosed are the results of analyses for samples received by the laboratory on 04/18/17 16:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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: 04/18/2017
 Reported: 04/19/2017
 Project Name: WEST RED LAKE UNIT #56
 Project Number: 701307.098.01
 Project Location: K-7-18S-27E

 Sampling Date: 04/18/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG-1 0' (H701028-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/19/2017	ND	464	116	400	14.8	

Sample ID: BG-1 1' (H701028-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	04/19/2017	ND	464	116	400	14.8	

Sample ID: BG-1 2' (H701028-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	04/19/2017	ND	464	116	400	14.8	

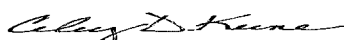
Sample ID: BG-1 3' (H701028-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	04/19/2017	ND	464	116	400	14.8	

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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: 04/18/2017
 Reported: 04/19/2017
 Project Name: WEST RED LAKE UNIT #56
 Project Number: 701307.098.01
 Project Location: K-7-18S-27E

 Sampling Date: 04/18/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: BG-1 4' (H701028-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3160	16.0	04/19/2017	ND	464	116	400	14.8	

Sample ID: BG-2 0' (H701028-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	04/19/2017	ND	464	116	400	14.8		

Sample ID: BG-2 1' (H701028-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	04/19/2017	ND	464	116	400	14.8		

Sample ID: BG-2 2' (H701028-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/19/2017	ND	464	116	400	14.8	

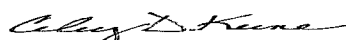
Sample ID: BG-2 3' (H701028-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/19/2017	ND	464	116	400	14.8	

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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: 04/18/2017
Reported: 04/19/2017
Project Name: WEST RED LAKE UNIT #56
Project Number: 701307.098.01
Project Location: K-7-18S-27E

Sampling Date: 04/18/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BG-2 4' (H701028-10)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	04/19/2017	ND	464	116	400	14.8		

Sample ID: S-1 2' (H701028-11)

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	04/19/2017	ND	2.35	117	2.00	0.525				
Toluene*	<0.050	0.050	04/19/2017	ND	2.15	107	2.00	0.517				
Ethylbenzene*	<0.050	0.050	04/19/2017	ND	2.12	106	2.00	0.333				
Total Xylenes*	<0.150	0.150	04/19/2017	ND	6.08	101	6.00	0.443				
Total BTEx	<0.300	0.300	04/19/2017	ND								

Surrogate: 4-Bromofluorobenzene (PIL) 99.2 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/19/2017	ND	464	116	400	14.8	

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	04/19/2017	ND	191	95.5	200	0.774	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	194	97.0	200	2.40	

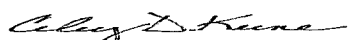
Surrogate: 1-Chlorooctane 110 % 28.3-164

Surrogate: 1-Chlorooctadecane 119 % 34.7-157

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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: 04/18/2017
Reported: 04/19/2017
Project Name: WEST RED LAKE UNIT #56
Project Number: 701307.098.01
Project Location: K-7-18S-27E

Sampling Date: 04/18/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S-1 3' (H701028-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	04/19/2017	ND	464	116	400	14.8	

Sample ID: S-2 0' (H701028-13)

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	04/19/2017	ND	2.35	117	2.00	0.525		
Toluene*	<0.050	0.050	04/19/2017	ND	2.15	107	2.00	0.517		
Ethylbenzene*	<0.050	0.050	04/19/2017	ND	2.12	106	2.00	0.333		
Total Xylenes*	<0.150	0.150	04/19/2017	ND	6.08	101	6.00	0.443		
Total BTEX	<0.300	0.300	04/19/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 98.3 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	10400	16.0	04/19/2017	ND	464	116	400	14.8		

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	04/19/2017	ND	191	95.5	200	0.774	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	194	97.0	200	2.40	

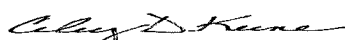
Surrogate: 1-Chlorooctane 117 % 28.3-164

Surrogate: 1-Chlorooctadecane 123 % 34.7-157

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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: 04/18/2017
Reported: 04/19/2017
Project Name: WEST RED LAKE UNIT #56
Project Number: 701307.098.01
Project Location: K-7-18S-27E

Sampling Date: 04/18/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S-2 1' (H701028-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6000	16.0	04/19/2017	ND	464	116	400	14.8		

Sample ID: S-2 2' (H701028-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	04/19/2017	ND	464	116	400	14.8	

Sample ID: S-2 3' (H701028-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	04/19/2017	ND	464	116	400	14.8	

Sample ID: S-2 4' (H701028-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	04/19/2017	ND	464	116	400	14.8	

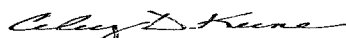
Sample ID: S-2 6' (H701028-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	04/19/2017	ND	464	116	400	14.8		

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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: 04/18/2017
Reported: 04/19/2017
Project Name: WEST RED LAKE UNIT #56
Project Number: 701307.098.01
Project Location: K-7-18S-27E

Sampling Date: 04/18/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S-2 8' (H701028-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	04/19/2017	ND	432	108	400	0.00	QM-07

Sample ID: S-2 10' (H701028-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/19/2017	ND	432	108	400	0.00	

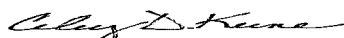
Sample ID: S-2 12' (H701028-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/19/2017	ND	432	108	400	0.00	

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Analytical Results For:

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

 Received: 04/18/2017
 Reported: 04/19/2017
 Project Name: WEST RED LAKE UNIT #56
 Project Number: 701307.098.01
 Project Location: K-7-18S-27E

 Sampling Date: 04/18/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-3 0' (H701028-22)

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	04/19/2017	ND	2.35	117	2.00	0.525		
Toluene*	<0.050	0.050	04/19/2017	ND	2.15	107	2.00	0.517		
Ethylbenzene*	<0.050	0.050	04/19/2017	ND	2.12	106	2.00	0.333		
Total Xylenes*	<0.150	0.150	04/19/2017	ND	6.08	101	6.00	0.443		
Total BTEX	<0.300	0.300	04/19/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.9 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	15000	16.0	04/19/2017	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	04/19/2017	ND	191	95.5	200	0.774	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	194	97.0	200	2.40	

Surrogate: 1-Chlorooctane 101 % 28.3-164

Surrogate: 1-Chlorooctadecane 105 % 34.7-157

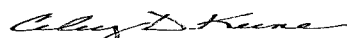
Sample ID: S-3 1' (H701028-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	04/19/2017	ND	432	108	400	0.00	

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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: 04/18/2017
Reported: 04/19/2017
Project Name: WEST RED LAKE UNIT #56
Project Number: 701307.098.01
Project Location: K-7-18S-27E

Sampling Date: 04/18/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S-3 2' (H701028-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	04/19/2017	ND	432	108	400	0.00		

Sample ID: S-3 3' (H701028-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	04/19/2017	ND	432	108	400	0.00		

Sample ID: S-3 4' (H701028-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/19/2017	ND	432	108	400	0.00	

Sample ID: S-3 6' (H701028-27)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	04/19/2017	ND	432	108	400	0.00	

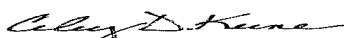
Sample ID: S-3 8' (H701028-28)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1300	16.0	04/19/2017	ND	432	108	400	0.00	

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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: 04/18/2017
Reported: 04/19/2017
Project Name: WEST RED LAKE UNIT #56
Project Number: 701307.098.01
Project Location: K-7-18S-27E

Sampling Date: 04/18/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S-3 10' (H701028-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	480	16.0	04/19/2017	ND	432	108	400	0.00		

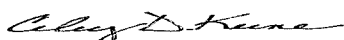
Sample ID: S-3 12' (H701028-30)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	864	16.0	04/19/2017	ND	432	108	400	0.00		

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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: 04/18/2017
 Reported: 04/19/2017
 Project Name: WEST RED LAKE UNIT #56
 Project Number: 701307.098.01
 Project Location: K-7-18S-27E

 Sampling Date: 04/18/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-4 0' (H701028-31)

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	04/19/2017	ND	2.35	117	2.00	0.525	
Toluene*	<0.050	0.050	04/19/2017	ND	2.15	107	2.00	0.517	
Ethylbenzene*	<0.050	0.050	04/19/2017	ND	2.12	106	2.00	0.333	
Total Xylenes*	<0.150	0.150	04/19/2017	ND	6.08	101	6.00	0.443	
Total BTEX	<0.300	0.300	04/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.0 % 72-148

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7460	16.0	04/19/2017	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	04/19/2017	ND	191	95.5	200	0.774	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	194	97.0	200	2.40	

Surrogate: 1-Chlorooctane 113 % 28.3-164

Surrogate: 1-Chlorooctadecane 123 % 34.7-157

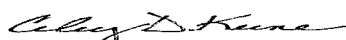
Sample ID: S-4 1' (H701028-32)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	04/19/2017	ND	432	108	400	0.00		

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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: 04/18/2017
 Reported: 04/19/2017
 Project Name: WEST RED LAKE UNIT #56
 Project Number: 701307.098.01
 Project Location: K-7-18S-27E

 Sampling Date: 04/18/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-4 2' (H701028-33)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	04/19/2017	ND	432	108	400	0.00	

Sample ID: S-4 3' (H701028-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	04/19/2017	ND	432	108	400	0.00	

Sample ID: S-4 4' (H701028-35)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	04/19/2017	ND	432	108	400	0.00	

Sample ID: S-4 6' (H701028-36)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	04/19/2017	ND	432	108	400	0.00	

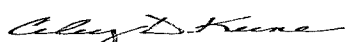
Sample ID: S-4 8' (H701028-37)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1330	16.0	04/19/2017	ND	432	108	400	0.00	

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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: 04/18/2017
 Reported: 04/19/2017
 Project Name: WEST RED LAKE UNIT #56
 Project Number: 701307.098.01
 Project Location: K-7-18S-27E

 Sampling Date: 04/18/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S-4 10' (H701028-38)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	04/19/2017	ND	432	108	400	0.00	

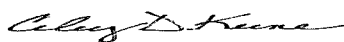
Sample ID: S-4 12' (H701028-39)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	04/19/2017	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

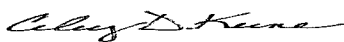
Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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

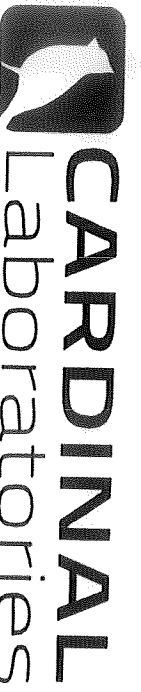
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Celey D. Keene, Lab Director/Quality Manager

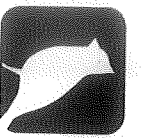


101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg 1 of 4

Company Name: Talon/LPE		P.O. #:		BILL TO																					
Project Manager: S. Hitchcock		Company: Talon/LPE		ANALYSIS REQUEST																					
Address: 408 W. Texas Ave.		Attn:																							
City: Artesia		Address:																							
Phone #: 575-746-8768		City:																							
Fax #: 575-746-8905		State:																							
Project #: 701307.08.01		Zip:																							
Project Name: West Red Lake Unit #54		Phone #:																							
Project Location: K-7-185-27E		Fax #:																							
Sampler Name: S. Hitchcock																									
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV	SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME											
H701028	B6-1 0'	G	1										4/18/17	8:00	Chlorides										
1	B6-1 1'	G	1											8:02											
2	B6-1 2'	G	1											8:06											
3	B6-1 3'	G	1											8:08											
4	B6-1 4'	G	1											8:10											
5	B6-2 0'	G	1											8:12											
6	B6-2 1'	G	1											8:14											
7	B6-2 2'	G	1											8:16											
8	B6-2 3'	G	1											8:18											
9	B6-2 4'	G	1											8:20											
10	B6-2 5'	G	1											8:22											
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Relinquished By: <u>Stephen N. ...</u>		Date: _____		Received By: _____		Date: _____		Time: _____		Time: _____		Time: _____		Time: _____											
Delivered By: (Circle One)		Date: 4-18-17		Received By: _____		Date: 4-18-17		Time: 4:35		Time: 4:35		Time: 4:35		Time: 4:35											
Sampler - UPS - Bus - Other:		4.90		Sample Condition		Cool <input checked="" type="checkbox"/> Pres <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: _____		(Initials)		1-5-17		1-5-17											
REMARKS: Rush																									



CARDINAL Laboratories

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 2 of 4

Company Name: Talon/LPE		P.O. #:		BILL TO															
Project Manager:		Company: Talon/LPE		ANALYSIS REQUEST															
Address: 408 W. Texas Ave.		Attn:																	
City: Artesia		Address:																	
State: NM Zip: 88210		City:																	
Phone #: 575-746-8768		State:																	
Fax #: 575-746-8905		Zip:																	
Project #:		Project Owner:																	
Project Name:		Project Location: West Red Lake Unit #54																	
Sampler Name:		Fax #:																	
FOR LAB USE ONLY		PRESERV		SAMPLING															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		DATE		TIME		TPH		BTEX		Chlorides	
11 5-1 2'		G 1		GROUNDWATER		1		SOIL		4/18/17		9:00		✓		✓		✓	
12 5-1 3'		G 1		WASTEWATER		1		OIL		9:02		9:10		✓		✓		✓	
13 5-2 0'		G 1		SLUDGE		1		OTHER:		9:12		9:14		✓		✓		✓	
14 5-2 1'		G 1		ACID/BASE:		1		ICE / COOL		9:16		9:18		✓		✓		✓	
15 5-2 2'		G 1		OTHER:		1		OTHER:		9:20		9:22		✓		✓		✓	
16 5-2 3'		G 1		DATE		1		TIME		9:24		9:26		✓		✓		✓	
17 5-2 4'		G 1		TPH		1		BTEX		9:28		9:30		✓		✓		✓	
18 5-2 5'		G 1		Chlorides		1				9:32		9:34		✓		✓		✓	
19 5-2 6'		G 1				1				9:36		9:38		✓		✓		✓	
20 5-2 10'		G 1				1				9:40		9:42		✓		✓		✓	

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

Sample Condition: ☐ Cool ☐ Intact ☐ Pres ☐ Yes ☐ No ☐ No

CHECKED BY: (Initials) Rush

REMARKS:

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 3 of 6

Company Name: Talon/LPE										BILL TO									
Project Manager:										P.O. #:									
Address: 408 W. Texas Ave.										Company: Talon/LPE									
City: Artesia										Attn:									
Phone #: 575-746-8768										Address:									
Project #:										City:									
Project Name: West Red Lake Unit # 54										State: Zip:									
Project Location:										Phone #:									
Sample Name:										Fax #:									
FOR LAB USE ONLY										MATRIX PRESERV SAMPLING									
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									
21 5-2 12'										4/18/12 9:26									
22 5-3 8'										9:30									
23 5-3 1'										9:32									
24 5-3 2'										9:34									
25 5-3 3'										9:36									
26 5-3 4'										9:38									
27 5-3 6'										9:40									
28 5-3 8'										9:42									
29 5-3 10'										9:44									
30 5-3 12'										9:46									

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Relinquished By: *Stephen P...* Date: _____ Received By: _____

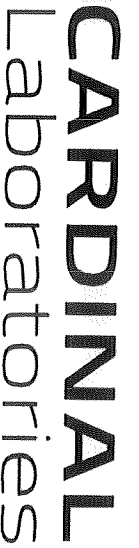
Relinquished By: *Stephen P...* Date: *4-18-17* Received By: *Shawna Blackwell*

Delivered By: (Circle One) *4.9e*

Sampler - UPS - Bus - Other: *4.9e*

Phone Result: ☐ Yes ☐ No Add'l Phone #: _____
Fax Result: ☐ Yes ☐ No Add'l Fax #: _____

REMARKS: *Relinquish*



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

[illegible]

P/5 40 EC



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

May 12, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE UNIT #56

Enclosed are the results of analyses for samples received by the laboratory on 05/05/17 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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: 05/05/2017
Reported: 05/12/2017
Project Name: WEST RED LAKE UNIT #56
Project Number: 701307.098.01
Project Location: K-7-18S-27E

Sampling Date: 05/04/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: BG-1 6' (H701218-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	05/09/2017	ND	416	104	400	0.00	

Sample ID: BG-1 8' (H701218-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	05/09/2017	ND	416	104	400	0.00	

Sample ID: BG-1 10' (H701218-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/09/2017	ND	416	104	400	0.00		

Sample ID: BG-1 12' (H701218-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	05/09/2017	ND	416	104	400	0.00		

Cardinal Laboratories

* = 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:	05/05/2017	Sampling Date:	05/04/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT #56	Sampling Condition:	** (See Notes)
Project Number:	701307.098.01	Sample Received By:	Tamara Oldaker
Project Location:	K-7-18S-27E		

Sample ID: BG-2 6' (H701218-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/09/2017	ND	416	104	400	0.00	

Sample ID: BG-2 8' (H701218-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/09/2017	ND	416	104	400	0.00	

Sample ID: BG-2 10' (H701218-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/09/2017	ND	416	104	400	0.00	

Sample ID: BG-2 12' (H701218-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	05/09/2017	ND	416	104	400	0.00	

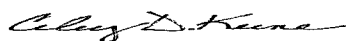
Sample ID: BG-3 2' (H701218-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	05/09/2017	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: 05/05/2017
 Reported: 05/12/2017
 Project Name: WEST RED LAKE UNIT #56
 Project Number: 701307.098.01
 Project Location: K-7-18S-27E

 Sampling Date: 05/04/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: BG-3 4' (H701218-10)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	05/09/2017	ND	416	104	400	0.00	

Sample ID: BG-3 6' (H701218-11)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	05/09/2017	ND	416	104	400	0.00	

Sample ID: BG-3 8' (H701218-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	05/09/2017	ND	416	104	400	0.00	

Sample ID: BG-3 10' (H701218-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	05/09/2017	ND	448	112	400	0.00	

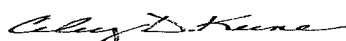
Sample ID: BG-3 12' (H701218-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	05/09/2017	ND	448	112	400	0.00	

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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: 05/05/2017
Reported: 05/12/2017
Project Name: WEST RED LAKE UNIT #56
Project Number: 701307.098.01
Project Location: K-7-18S-27E

Sampling Date: 05/04/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: BG-4 2' (H701218-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	05/09/2017	ND	448	112	400	0.00	

Sample ID: BG-4 4' (H701218-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	05/09/2017	ND	448	112	400	0.00	

Sample ID: BG-4 6' (H701218-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	05/09/2017	ND	448	112	400	0.00	

Sample ID: BG-4 8' (H701218-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	05/09/2017	ND	448	112	400	0.00	

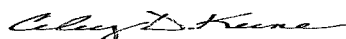
Sample ID: BG-4 10' (H701218-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	05/09/2017	ND	448	112	400	0.00	

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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:	05/05/2017	Sampling Date:	05/04/2017
Reported:	05/12/2017	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT #56	Sampling Condition:	** (See Notes)
Project Number:	701307.098.01	Sample Received By:	Tamara Oldaker
Project Location:	K-7-18S-27E		

Sample ID: BG-4 12' (H701218-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	05/09/2017	ND	448	112	400	0.00	

Sample ID: BG-5 2' (H701218-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	05/09/2017	ND	448	112	400	0.00	

Sample ID: BG-5 4' (H701218-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	05/09/2017	ND	448	112	400	0.00	

Sample ID: BG-5 6' (H701218-23)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	05/09/2017	ND	448	112	400	0.00	

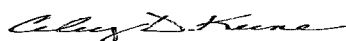
Sample ID: BG-5 8' (H701218-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	05/09/2017	ND	448	112	400	0.00	

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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: 05/05/2017
Reported: 05/12/2017
Project Name: WEST RED LAKE UNIT #56
Project Number: 701307.098.01
Project Location: K-7-18S-27E

Sampling Date: 05/05/2017
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: BG-5 10' (H701218-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	05/09/2017	ND	448	112	400	0.00	

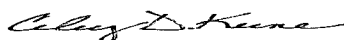
Sample ID: BG-5 12' (H701218-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	05/09/2017	ND	448	112	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

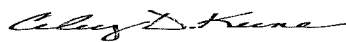
Notes and Definitions

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

(575) 393-2326 FAX (575) 393-2476

BILL TO		ANALYSIS REQUEST	
Company Name: Talon/LPE		P.O. #:	
Project Manager: S. Hinchey		Company: Talon/LPE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia		State: NM Zip: 88210	
Phone #: 575-746-8768		Fax #: 575-746-8905	
Project Owner: Live Run		City:	
Project Name: West Red Lake Unit #56		State:	
Project Location:		Zip:	
Sample Name: S. Hinchey		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	Chlorides
H701218	B6-16'	G	1	GROUNDWATER			5/4/17	7:30	/
1	B6-18'	G	1	WASTEWATER				7:35	/
2	B6-18'	G	1	SOIL				7:40	/
3	B6-112'	G	1	OIL				7:45	/
4	B6-26'	G	1	SLUDGE				8:00	/
5	B6-26'	G	1	OTHER :	None			8:05	/
6	B6-210'	G	1	ACID/BASE:				8:10	/
7	B6-212'	G	1	ICE / COOL				8:15	/
8	B6-212'	G	1	OTHER :				8:20	/
9	B6-32'	G	1					8:25	/
10	B6-34'	G	1						

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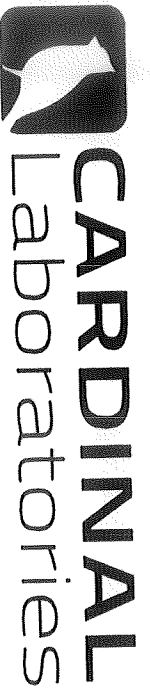
Relinquished By:	Date:	Received By:	Time:
[Signature]	5-5-17	[Signature]	3:35

Delivered By: (Circle One)	Sampler - UPS - Bus - Other:
Hand Mover	28.9g

Cool Intact	Yes No	Checked BY: (Initials)	T.E. #15
Sample Condition	Yes No		

REMARKS:	Phone Result:	Add'l Phone #:
	Fax Result:	Add'l Fax #:

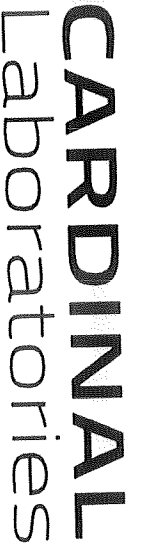
100105



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		P.O. #:		BILL TO												ANALYSIS REQUEST																									
Project Manager: S. Hitchcock		Company: Talon/LPE																																							
Address: 408 W. Texas Ave.		Attn:																																							
City: Artesia		Address:																																							
Phone #: 575-746-8768		City:																																							
Fax #: 575-746-8905		State:																																							
Project #:		Zip:																																							
Project Name: West Red Lake Unit # 56		Phone #:																																							
Project Location:		Fax #:																																							
Sampler Name: S. Hitchcock		PRESERV:																																							
FOR LAB USE ONLY		SAMPLING																																							
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		GEOTECH		OTHER :		DATE		TIME													
H701218		36-36		C		1		/		/		/		/		/		/		/		/		/		5/4/17		8:30		chlorides											
11		36-36		C		1		/		/		/		/		/		/		/		/		/		8:35		/													
12		36-36		C		1		/		/		/		/		/		/		/		/		/		8:40		/													
13		36-36		C		1		/		/		/		/		/		/		/		/		/		8:45		/													
14		36-36		C		1		/		/		/		/		/		/		/		/		/		10:00		/													
15		36-44		C		1		/		/		/		/		/		/		/		/		/		10:05		/													
16		36-44		C		1		/		/		/		/		/		/		/		/		/		10:10		/													
17		36-44		C		1		/		/		/		/		/		/		/		/		/		10:15		/													
18		36-44		C		1		/		/		/		/		/		/		/		/		/		10:20		/													
19		36-44		C		1		/		/		/		/		/		/		/		/		/		10:25		/													
20		36-44		C		1		/		/		/		/		/		/		/		/		/		10:25		/													
<p>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																									
Relinquished By:		Date:		Time:		Received By:		Date:		Time:		Sample Condition		CHECKED BY:		REMARKS:																									
Relinquished By: Paul Myers		Date: 5-5-17		Time: 3:35		Received By: [Signature]		Date: 5-5-17		Time: 3:35		Sample Condition: Cool Intact		CHECKED BY: [Signature]																											
Delivered By: (Circle One)		Cool		Intact																																					
Sampler - UPS - Bus - Other:		28.50		28.50		28.50		28.50		28.50		28.50		28.50																											



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476

[illegible]