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**Work Plan
Lime Rock Resources II-A, L.P.:**

West Redlake Water Station #1 Battery

April 11, 2016

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: **Soil Assessment and Remediation Work Plan**
Lime Rock Resources II-A, L.P.
West Redlake Water Station #1 Battery

Dear Mr. Bratcher,

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.

Site 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 lands. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of older alluvial deposits of upland plains and piedmont areas. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the Chevron Texaco ground water trend map, the ground water in this area is between 50 to 100 feet below ground surface (BGS). Therefore the ranking for this site is a **10** based on the following:

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

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

Incident Description and Initial Remedial Actions

A flow line ruptured resulting in a release of approximately 1,100bbls of produced water. Upon discovery the line was shut in and repaired. Vacuum trucks were immediately dispatched and were able to recover approximately 1,040bbls of fluid. The heavily impacted soil was scraped up to minimize further impacts.

Talon mobilized personnel to conduct a site assessment and soil sampling within the impacted area. Refusal was encountered with a backhoe where noted. The laboratory results from the soil sampling event are summarized in the table below. Upon receipt of analytical results from the soil sampling event it was determined that further vertical delineation of chloride impacts would be required.

An air rotary drill rig was then mobilized for further vertical delineation of the impacted areas. Vertical delineation sampling was carried out in the vicinity of sample locations S-2, S-5 and S-6 which had the highest chloride (worst case) levels. The laboratory results from the soil sampling activities are summarized in the March 31, 2016 data table.

Laboratory Results

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

February 29, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	ND	24400	ND	10.8
	1'	--	14000	--	--
	2'	--	3600	--	--
	3'	--	1250	--	--
	4'	--	912	--	--
	5'	--	1490	--	--
	7'	--	528	--	--
	9'	--	1200	--	--
S-2	0'	--	25600	--	--
Refusal	1'	--	4360	--	--
S-3	0'	--	11200	--	--
	1'	--	1680	--	--
	2'	--	1500	--	--
Refusal	3'	--	944	--	--
S-4	0'	--	3840	--	--
	1'	--	800	--	--
	2'	--	512	--	--
	3'	--	384	--	--
	4'	--	224	--	--

Refusal	5'	--	384	--	--
S-5	0'	--	7800	--	--
Refusal	1'	--	2680	--	--
S-6	0'	--	6130	--	--
	1'	--	5200	--	--
	2'	--	3080	--	--
	3'	--	1650	--	--
S-6 Refusal	4'	--	3400	--	--

--Analyte Not Tested (ND-non detect)

March 31, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-2	5'	--	448	--	--
	10'	--	64	--	--
	15'	--	32	--	--
S-5	5'	--	400	--	--
	10'	--	944	--	--
	15'	--	4800	--	--
	20'	--	576	--	--
	25'	--	512	--	--
	30'	--	608	--	--
	35'	--	192	--	--
	40'	--	176	--	--
S-6	5'	--	2040	--	--
	10'	--	2600	--	--
	15'	--	208	--	--
	20'	--	192	--	--

--Analyte Not Tested

Proposed Remedial actions

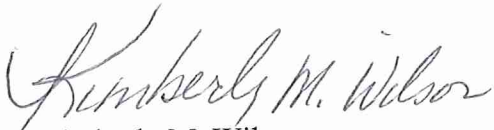
- The impacted areas in the vicinity of sample location S-1, S-2, S-5 and S-6 will be excavated to a depth of 2-feet bgs. The impacted area in the vicinity of sample location S-3 will be excavated to a depth of 1-foot bgs and the area in the vicinity of sample location S-4 will be excavated to a depth of 0.5-feet deep.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.

- After the delineation procedures were performed, it is apparent that the chlorides on location are historical. Therefore on behalf of Lime Rock Resources, we respectfully request that the chloride impacts on the location be remediated upon the closure of the facility.
- Upon completion of the remediation activities the excavation will be backfilled with caliche and the berms around the location reconstructed.
- The work areas will be 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

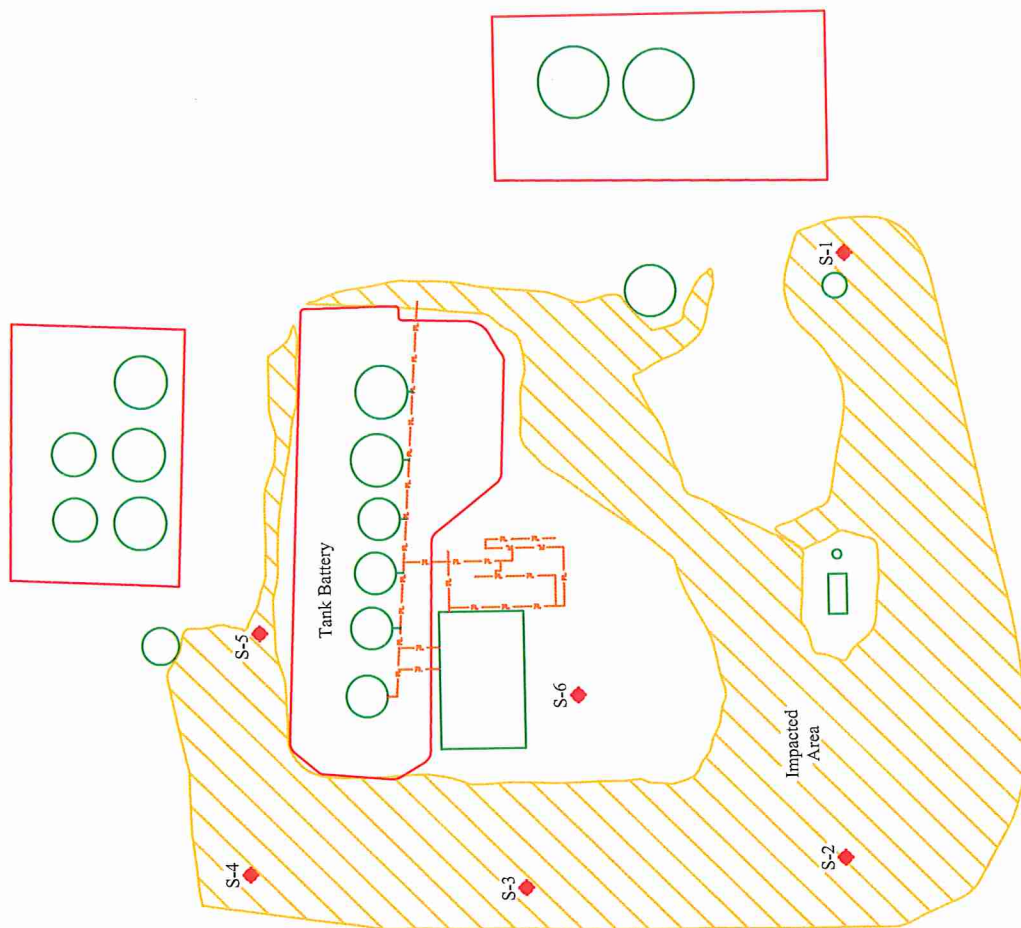
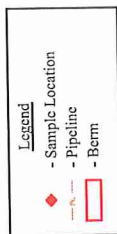
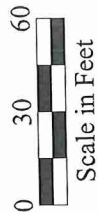


Kimberly M. Wilson
Project Manager



David J. Adkins
District Manager

SITE PLAN



West Red Lake Station #1
Lime Rock Resources
Eddy County, New Mexico
Figure 1 - Site Plan

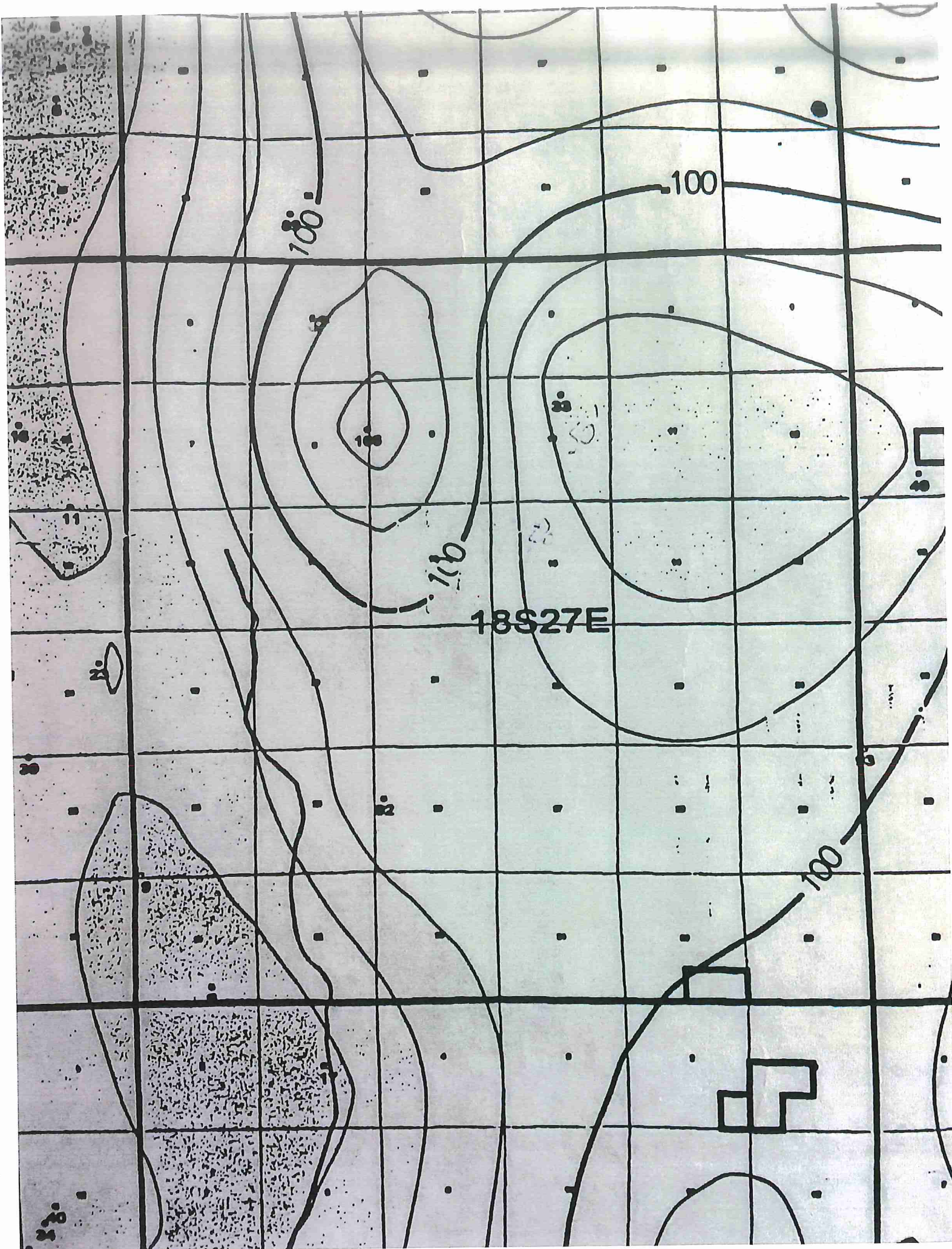
Date: 02/23/2016

Scale: 1" = 60'

Drawn By: TJS



GROUNDWATER DATA



INITIAL C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Lime Rock Resources II-A, LP	Contact: Mike Barrett
Address: 1111 Bagby Street Ste. 4600, Houston, TX 77002	Telephone No. 575-623-8424
Facility Name: West Redlake Water Station #1	Facility Type:
Surface Owner: BLM	Mineral Owner: Federal
API No.	

LOCATION OF RELEASE

Unit Letter B	Section 7	Township 18S	Range 27E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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Latitude 32.768991 Longitude -104.314224

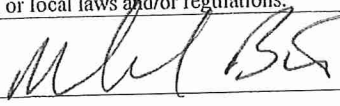
NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 1100bbls	Volume Recovered: 1040bbls
Source of Release: Flowline	Date and Hour of Occurrence: 2/14/2016	Date and Hour of Discovery: 2/15/2016 9:30 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 Shelly Tucker-BLM, voicemail	
By Whom? Kimberly Wilson-Talon/LPE	Date and Hour: 2/15/16 3:20 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

Describe Cause of Problem and Remedial Action Taken.* A flowline ruptured resulting in the release of approximately 1,100bbls of produced water. Upon discovery the line was shut in and repaired. Vacuum trucks were immediately dispatched to the location and were able to recover approximately 1,040bbls of fluid. The heavily impacted soil was scraped up to prevent further spread of fluid.

Describe Area Affected and Cleanup Action Taken.* The fluid remained within the berms of the West Redlake #1 location. Talon/LPE mobilized personnel to conduct a site assessment and collect soil samples within the impacted area. Upon receipt of analytical data from the soil sampling event a remediation work plan will be generated and submitted to NMOCD and BLM for approval.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 		OIL CONSERVATION DIVISION	
Printed Name: Mike Barrett		Approved by Environmental Specialist:	
Title: Production Supervisor		Approval Date:	Expiration Date:
E-mail Address: mbarrett@limerockresources.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/17/2016 Phone: 575-623-8424			

* Attach Additional Sheets If Necessary

LABORATORY RESULTS



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

February 29, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE STA. #1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/19/16 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/19/2016
Reported: 02/29/2016
Project Name: WEST RED LAKE STA. #1 BATTERY
Project Number: 701307.082.02
Project Location: EDDY COUNTY, NM

Sampling Date: 02/17/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0' (H600392-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/24/2016	ND	2.03	102	2.00	1.57	
Toluene*	<0.050	0.050	02/24/2016	ND	2.00	100	2.00	1.45	
Ethylbenzene*	<0.050	0.050	02/24/2016	ND	1.83	91.7	2.00	1.74	
Total Xylenes*	<0.150	0.150	02/24/2016	ND	5.59	93.1	6.00	1.59	
Total BTEX	<0.300	0.300	02/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24400	16.0	02/23/2016	ND	416	104	400	7.41	

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	02/22/2016	ND	195	97.7	200	4.26	
DRO >C10-C28	10.8	10.0	02/22/2016	ND	213	107	200	10.4	

Surrogate: 1-Chlorooctane 91.5 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

Sample ID: S-1 1' (H600392-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	02/23/2016	ND	416	104	400	7.41	

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	02/19/2016	Sampling Date:	02/17/2016
Reported:	02/29/2016	Sampling Type:	Soil
Project Name:	WEST RED LAKE STA. #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.082.02	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 2' (H600392-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	02/23/2016	ND	416	104	400	7.41	

Sample ID: S-1 3' (H600392-04)

Chloride, SM4500Cl-B			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1250	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-1 4' (H600392-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-1 5' (H600392-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	02/23/2016	ND	432	108	400	3.77	

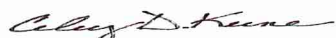
Sample ID: S-1 7' (H600392-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	02/23/2016	ND	432	108	400	3.77	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/19/2016
Reported: 02/29/2016
Project Name: WEST RED LAKE STA. #1 BATTERY
Project Number: 701307.082.02
Project Location: EDDY COUNTY, NM

Sampling Date: 02/17/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 9' (H600392-08)

Chloride, SM4500Cl-B			mg/kg							Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	1200	16.0	02/23/2016	ND	432	108	400	3.77			

Sample ID: S-2 0' (H600392-09)

Chloride, SM4500Cl-B			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25600	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-2 1' REFUSAL (H600392-10)

Chloride, SM4500Cl-B		mg/kg								Analyzed By: AP	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	4360	16.0	02/23/2016	ND	432	108	400	3.77			

Sample ID: S-3 0' (H600392-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-3 1' (H600392-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	02/23/2016	ND	432	108	400	3.77	

*=Accredited Analyte

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

Received:	02/19/2016	Sampling Date:	02/17/2016
Reported:	02/29/2016	Sampling Type:	Soil
Project Name:	WEST RED LAKE STA. #1 BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.082.02	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-3 2' (H600392-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-3 3' REFUSAL (H600392-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-4 0' (H600392-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-4 1' (H600392-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-4 2' (H600392-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	02/23/2016	ND	432	108	400	3.77	

*=Accredited Analyte

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 02/19/2016
 Reported: 02/29/2016
 Project Name: WEST RED LAKE STA. #1 BATTERY
 Project Number: 701307.082.02
 Project Location: EDDY COUNTY, NM

 Sampling Date: 02/17/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 3' (H600392-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-4 4' (H600392-19)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-4 5' REFUSAL (H600392-20)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-5 0' (H600392-21)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7800	16.0	02/23/2016	ND	432	108	400	3.77	

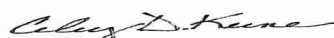
Sample ID: S-5 1' REFUSAL (H600392-22)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	02/23/2016	ND	432	108	400	3.77	

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/19/2016
Reported: 02/29/2016
Project Name: WEST RED LAKE STA. #1 BATTERY
Project Number: 701307.082.02
Project Location: EDDY COUNTY, NM

Sampling Date: 02/17/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 0' (H600392-23)

Chloride, SM4500Cl-B			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	02/23/2016	ND	432	108	400	3.77	

Sample ID: S-6 1' (H600392-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	02/23/2016	ND	400	100	400	7.69	

Sample ID: S-6 2' (H600392-25)

Sample ID: S-0-2 (H000002-10)									
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	02/23/2016	ND	400	100	400	7.69	

Sample ID: S-6 3' (H600392-26)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1650	16.0	02/23/2016	ND	400	100	400	7.69	

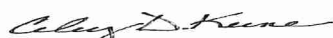
Sample ID: S-6 4' REFUSAL (H600392-27)

Chloride, SM4500Cl-B			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	02/23/2016	ND	400	100	400	7.69	

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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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #: 701307.082.02	
Project Manager: D. ADKINS		Company: Talon/LPE	
Address: 408 W. Texas Ave.		Attn: D. ADKINS	
City: Artesia		Address:	
State: NM zip: 88210		City:	
Phone #: 575-746-8768		State:	
Fax #: 575-746-8905		Zip:	
Project #: 701307.082.02		Project Owner: Lime Rock	
Project Name: West Pad Lake Sta. 1 B & T		City:	
Project Location: Gddy Co.		State:	
Sample Name: D. ADKINS		Phone #:	
FOR LAB USE ONLY		Fax #:	
Lab I.D.		Sample I.D.	
H600392		S-1 C-1	
1		S-1 1'	
2		S-1 2'	
3		S-1 3'	
4		S-1 4'	
5		S-1 5'	
6		S-1 7'	
7		S-1 9'	
8		S-1 0'	
9		S-2 1' Refused	
10		S-2 1' Refused	
		(G) RAB OR (C) COMP.	
		# CONTAINERS	
		GROUNDWATER	
		WASTEWATER	
		SOIL	
		OIL	
		SLUDGE	
		OTHER :	
		ACID/BASE:	
		ICE / COOL	
		OTHER :	
		DATE	
		TIME	
		TOTAL CHLORIDES	
		TPH	
		BTBX	

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Relinquished By: [Signature] Date: 4/19/16 Received By: [Signature] Date: 4/19/16

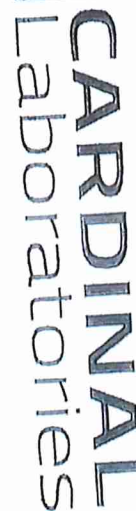
Relinquished By: [Signature] Date: 4/19/16 Received By: [Signature] Date: 4/19/16

Delivered By: (Circle One) ☒ UPS ☐ Bus ☐ Other: 5.80

Sample Condition: ☒ Intact ☐ Broken

Checked By: [Signature]

REMARKS: P163



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/PE		P.O. #: 70507-082-02
Project Manager: D. ADAMS		Company: Talon/PE
Address: 408 W. Texas Ave.		Attn:
City: Artesia		State: NM Zip: 88210
Phone #: 575-746-8768		Fax #: 575-746-8905
Project #: 70507-082-02		Project Owner: Line Rock
Project Name: West Road Lake Sh. 1 Buffer		City:
Project Location: Eddy Co.		State: Zip:
Sampler Name: D. Adams		Phone #:
		Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
H000392	S-3 O'	G	1								2/17/16		TOTAL CHLORIDES
11	S-3 0'												
12	S-3 1'												
13	S-3 2'												
14	S-3 3' Refused												
15	S-4 0'												
16	S-4 1'												
17	S-4 2'												
18	S-4 3'												
19	S-4 4'												
20	S-4 5' Refused												

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Relinquished By:	Date: 2/19/16	Received By:	Date: 2/19/16
Relinquished By:	Time: 1:00	Received By:	Time:

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
<input checked="" type="checkbox"/> UPS - Bus - Other: 5.88	<input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	Initials: [Signature] Date: 2/19/16

REMARKS:	Phone Result	Addl Phone #:
	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Addl Fax # <input type="checkbox"/> No

P.263



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: Talon/LE

Project Manager: D. ADLER

Address: 408 W. Texas Ave.

City: Artesia State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 701307.082.02 Project Owner: Line Rock

Project Name: West Red Lake Sfr. I Battery

Project Location: Gady CU.

Sampler Name: D. ADLER

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H6ED392

21

22

23

24

25

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27

S-5 0' 1' Refused

S-5 0' 1' Refused

S-6 1' 1' Refused

S-6 2' 1' Refused

S-6 3' 1' Refused

S-6 4' 1' Refused

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

2/17/16

11:16

TOTAL CHLORIDES

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

March 31, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WEST RED LAKE STA. #1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/24/16 9:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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



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

Analytical Results For:

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

Received:	03/24/2016	Sampling Date:	03/23/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	WEST RED LAKE STA. #1 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701307.082.02	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-2 5' (H600637-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/28/2016	ND	416	104	400	3.92	

Sample ID: S-2 10' (H600637-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/28/2016	ND	416	104	400	3.92	

Sample ID: S-2 15' (H600637-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/28/2016	ND	416	104	400	3.92	

Sample ID: S-5 5' (H600637-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/28/2016	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/24/2016	Sampling Date:	03/23/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	WEST RED LAKE STA. #1 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701307.082.02	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-5 10' (H600637-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	03/28/2016	ND	416	104	400	3.92	

Sample ID: S-5 15' (H600637-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	03/28/2016	ND	416	104	400	3.92	

Sample ID: S-5 20' (H600637-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	03/28/2016	ND	416	104	400	3.92	

Sample ID: S-5 25' (H600637-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/28/2016	ND	416	104	400	3.92	

Sample ID: S-5 30' (H600637-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	03/28/2016	ND	416	104	400	3.92		

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/24/2016	Sampling Date:	03/23/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	WEST RED LAKE STA. #1 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701307.082.02	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-5 35' (H600637-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/28/2016	ND	416	104	400	3.92	

Sample ID: S-5 40' (H600637-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	03/28/2016	ND	416	104	400	3.92	

Sample ID: S-6 5' (H600637-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2040	16.0	03/28/2016	ND	416	104	400	3.92	

Sample ID: S-6 10' (H600637-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	03/28/2016	ND	416	104	400	3.92	

Sample ID: S-6 15' (H600637-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	03/28/2016	ND	416	104	400	3.92	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/24/2016	Sampling Date:	03/23/2016
Reported:	03/31/2016	Sampling Type:	Soil
Project Name:	WEST RED LAKE STA. #1 BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701307.082.02	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-6 20' (H600637-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/28/2016	ND	416	104	400	3.92	

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Celey D. Keene

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



ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to 202-541-5400.