

August 15, 2012

Mr. Mike Bratcher NMOCD District 2

1301 West Grand Avenue Artesia, NM 88210

Subject:

Soil Assessment and Remediation Work Plan Lime Rock Resources II-A, L.P. West Red Lake No. 60 30-015-28781 2RP-1168

Dear Mr. Bratcher,

Lime Rock Resources II-A, L.P. (Lime Rock) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced West Red Lake No. 60. The results of our soil assessment and proposed remediation activities are presented herein.

Incident Date

May 28, 2012

Background Information

The West Red Lake No. 60 is located approximately ten (10) miles southeast of Artesia, New Mexico. The legal location for the site is Section 5, Township 18 South and Range 27 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.76944 North and -104.30223 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of weathered Gypsum. The local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadeloupian Artesia Group, Tansil and Yates formations which include silty soils under lain by gypsum and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S32-T17S-R27E. The ground water in the area is reported to be 140' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

possible Sife Ruiky The ranking for this site is 0 based on the as following: >100' Depth to ground water Wellhead Protection Area >1000' Distance to surface water body >1000'

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

ARTESIA

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

> AUSTIN 9II West Anderson Lane Suite 202 Austin, Texas 78757

Phone 512.989.3428 Fax 512.989.3487

HOBBS

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

> MIDLAND 290I State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

SAN ANTONIO II Commercial Place Schertz, Texas 78154 Phone 210.265.8025 Fax 210.568.2191

TULSA 525 South Main Street Suite 535 Tulsa, Oklahoma 74103 Phone 918.742.0871 Fax 918.382.0232

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Toll Free: 866.742.0742 www.talonipe.com AUG 2 3 2012

Incident Description

On May 28, 2012 a 0.25-inch corroded valve failed at the wellhead causing 82 barrels of produced water to be released. The well was shut in, the valve was replaced and the impacted flow path was flushed with a load of fresh water. The release traveled across the location in a flow path measuring approximately 200-feet long by 54-feet wide. The release then traveled off the location and followed an erosion channel to the southwest ending east of the West Red Lake Unit No. 50 location. The entire flow path measured approximately 1,520-feet long by 4-feet to 75-feet wide in some locations. A site plan illustrating the impacted areas is attached.

Actions Taken

On June 7, 2012 Talon/LPE mobilized personnel to the site to carry out soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a backhoe. The soil samples were collected from the impacted areas to a depth of 6-feet below land surface.

On June 26, 2012 and July 3, 2012 Talon personnel returned to the site to collect additional soil samples using a drill rig. Grab samples were collected from a depth of 8-18 feet below land surface.

On July 25, 2012 Talon personnel met on site with Mr. Mike Bratcher at the NMOCD and Lime Rock Resources personnel to discuss remediation options at this location. It was determined that no actions will be required in the draw. The location is to be remediated.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for volatile organics (BTEX) per EPA Method 8021B, Total Petroleum Hydrocarbons (TPH) per EPA Method 8015M, and total chlorides via Method SM 4500Cl-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

June 14, 2012 <u>Sample</u>	Depth	<u>BTEX</u>	Chlorides	<u>TPH</u> (mg/kg)
S-1, Location	0'	< 0.150	41,600	15.4
	2'		2,680	
	4'		1,220	
	6'		1,920	
S-2, off Location	0'		53,600	
	1'		20,400	
	2'		10,800	
	*Refusal w/h	ackhoe @?'		

*Refusal w/backhoe @2

Sample	<u>Depth</u>	<u>BTEX</u>	Chlorides	<u>TPH</u> (mg/kg)
S-3, Flowpath	0'		20,600	
	1'		11,800	+
	2'		10,300	
	2.5'		6,320	
S-4, Flowpath	0'		30,400	
	1'		2,400	
	1.5'		2,160	
S-5, Flowpath	0'		41,600	
	1'		880	
	2'		896	
	3'		1,680	
	4'		560	
	6'		416	

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--Analyte Not Tested

July 3, 2012

Sample	<u>Depth</u>	Chlorides (mg/kg)
S-1, Location	8' 10' 12' 18'	1,440 2,200 688 240
S-2, off Location	4'	272
July 10, 2012		
Sample	<u>Depth</u>	Chlorides
B-7	0' 2' 4' 6' 8' 10' 14' 16'	40,000 10,400 1,600 432 272 320 32 80

Sample	Depth	Chlorides (mg/kg)
B-8	0' 2'	88,800 11,800
	4' 6'	384 1,140
	8'	256
	12' 14'	640 144
	16'	48
B-9, Background	0' 5'	16 512
	10'	832

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg. Chloride cleanup levels are considered to be 1,000 mg/kg.

Summary

- The depth to groundwater in the project vicinity is 140-feet below land surface per the New Mexico State Engineer Database.
- Based upon the results of the laboratory data obtained for this investigation, the vertical impacts of chlorides have been documented to extend 10-feet below ground surface on the location and 4-6 feet deep in the flow path.

Proposed Remedial Actions

- The impacted soil within the cellar of the wellhead will be excavated to a depth of 4-feet deep and the chloride impacted area on location will be excavated to approximately 0.5-feet deep.
- The impacted soil immediately off the location at sample point S-2 will be excavated to a depth of 1-foot deep.
- The excavated soil will be transported to a NMOCD approved solid waste disposal facility.
- The location will be reconstructed using caliche from a local borrow pit.
- The excavated area at S-2 will be backfilled to grade using new material transported from a local borrow pit. The area will be contoured to match existing terrain and be seeded using the recommended BLM seed mix for the area.

- No actions will be required down the draw per July 25, 2012 meeting with Mike Bratcher of the NMOCD.
- A berm will be installed using material transported from a local borrow pit around the location and in front of the drilling pit to prevent future run off.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office and the BLM including Form C-141.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

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Mike Stubblefield Project Manager

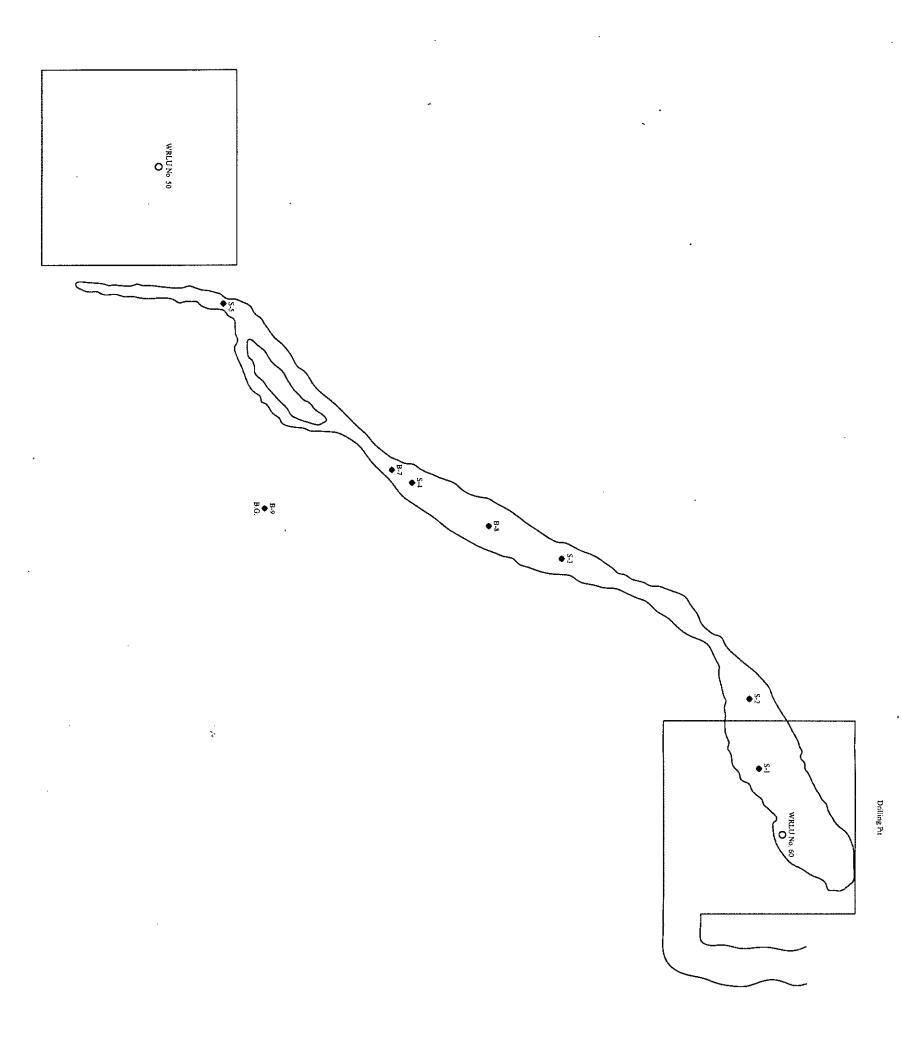
David J. Adkins District Manager

SITE MAP

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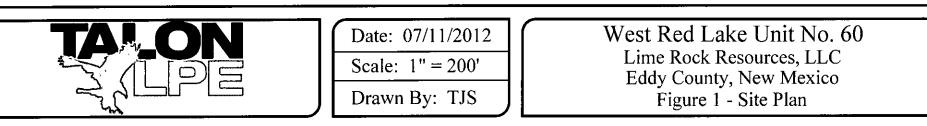
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APPENDIX I

GROUNDWATER DATA

INITIAL C-141

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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)							E 3=SW argest)	,	UTM in me	ters)	(1	n feet)	
	POD		Q	Q	Q							Depth	Depth	Water
POD Number	Code Subbasin	County	64	16	4	Sec	Tws	Rng	х	Y	Distance	-	Water (
RA 03714		СН	4	4	2	08	18S	27E	566212	3625253*	1445	381		
RA 03661		ED	3	2	3	32	17S	27E	565186	3628038*	1998	330	140	190
RA 03664		СН	3	2	3	32	17S	27E	565186	3628038*	1998	400	100	300
										Averag	e Depth to	Water:	120 1	eet
											Minimum	Depth:	100 1	eet
											Maximum	Depth:	140 1	feet
Record Count: 3														

UTMNAD83 Radius Search (in meters):

Easting (X): 565005

545352.12

Northing (Y): 3626048 .

Radius: 2000

3/125943.12

*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.

·	1 . Ano		•							
•** •	District 1 Stat 1625 N French Dr., Hobbs, NM 88240 Energy Mine District II District III 1301 W. Grand Avenue, Artesia, NM 88210 Oil Co District III Oil Co 1000 Rio Brazos Road, Aztec, NM 87410 1220 S	erals a onserv South	New Mexic and Natural I vation Divis St. Francis , NM 8750	sion Dr.	JUA	DEIV 0720	ED Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate District Office in accordance ESIA with Rule 116 on back side of form			
•	Release Notifica	ation	and Cor	rective A	ction	اف"**محديد من من ا				
	MILB / 1/6 7 47427 Name of Company Lime Rock Resources II-A,LP 17755 Address 1111 Bagby St Suite 4600 Houston, Tx 77002 Facility Name West Red Lake Unit #60 Surface Owner BLM	8 (OPERAT Contact Mich Telephone No Facility Type	OR lael Barrett	(I Report			
	TOCA'		N OF REL	E A OE	• • • • • •	·	······			
	Unit Letter Section Township Range Feet from the	North/ FSL	South Line	Feet from the	Fast/W FWL	est Line	County Eddy			
	NATU NATU	T T T	OF RELE	4 ST						
	Type of Release Produced Water Source of Release 1/4" needle valve on filter pot @ wellhead Was Immediate Notice Given? X Yes No		Volume of R Date and Ho 5/28/12 am If YES, To V	elease 82 bbls ur of Occurrenc	e	Date and I	ume Recovered 0 bbls and Hour of Discovery /12 @ 8 am			
	By Whom? Michael Barrett w/ LRR Was a Watercourse Reached?		Date and Ho	ur 5/28/12 @ 6 ume Impacting t	pm	rcourse.				
	If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* 1/4" needle valve blew out of filter pot (threads eroded). Isolated we	ell, pla	n to sample and	d submit work p	lan.		· · · ·			
	Describe Area Affected and Cleanup Action Taken.* Rock and Caliche. Talon LPE has been contracted to do a site asses I hereby certify that the information given above is true and compler regulations all operators are required to report and/or file certain rele public health or the environment. The acceptance of a C-141 report should their operations have failed to adequately investigate and rem or the environment. In addition, NMOCD acceptance of a C-141 re- federal, state, or local laws and/or regulations.	te to the ease no by the nediate	e best of my kr tifications and NMOCD marl contamination	towledge and un perform correct ked as "Final Re that pose a three	tive actio eport" do eat to gro	ons for rele es not relie und water,	ases which may endanger eve the operator of liability surface water, human health			
	Signature: Michael Barrett	Si approved by Di	OIL CONS	14	ATION !	DIVISION				
	Title: Production Supervisor	A		UN 13 20	17 5	epiration D)ate:			
	E-mail Address: mbarrett@limerockresources.com Date: 5/31/12 Phone: 575-623-8424	c	Conditions of A	pproval:	ules &		Attached			
*	Attach Additional Sheets If Necessary	- 6.3	delines. SUE	MIT REMED	N:	- 	2RA-1168			

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APPENDIX II

LABORATORY RESULTS

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June 14, 2012

MIKE STUBBLEFIELD TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: WEST RED LAKE UNIT NO. 60

Enclosed are the results of analyses for samples received by the laboratory on 06/08/12 13:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accredited analytes.

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

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

Accreditation applies to public drinking water matrices.

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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/08/2012	Sampling Date:	06/07/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT NO. 60	Sampling Condition:	Cool & Intact
Project Number:	701307.038.06	Sample Received By:	Jodi Henson
Project Location:	SEC. 5 - T18S - R27E		

Sample ID: S-1 0' LOCATION (H201297-01)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/13/2012	ND	2.10	105	2.00	4.88	
Toluene*	<0.050	0.050	06/13/2012	ND	2.17	109	2.00	2.07	
Ethylbenzene*	<0.050	0.050	06/13/2012	ND	2.21	111	2.00	1.77	
Total Xylenes*	<0.150	0.150	06/13/2012	ND	6.86	114	6.00	0.457	
Surrogate: 4-Bromofluorobenzene (PIE	104 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	41600	16.0	06/12/2012	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/12/2012	ND	176	88.0	200	4.28	
DRO >C10-C28	15.4	10.0	06/12/2012	ND	172	86.2	200	7.49	
Surrogate: 1-Chlorooctane	96.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1149	63.6-15	4						

Sample ID: S-1 2' (H201297-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	06/12/2012	ND	432	108	400	0.00	

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/08/2012	Sampling Date:	06/07/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT NO. 60	Sampling Condition:	Cool & Intact
Project Number:	701307.038.06	Sample Received By:	Jodi Henson
Project Location:	SEC. 5 - T18S - R27E		

Sample ID: S-1 4' (H201297-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1220	16.0	06/12/2012	ND	432	108	400	0.00	

Sample ID: S-1 6' (H201297-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	06/12/2012	ND	432	108	400	0.00		

Sample ID: S-2 0' OFF LOCATION (H201297-05)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	53600	16.0	06/12/2012	ND	432	108	400	0.00	

Sample ID: S-2 1' (H201297-06)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20400	16.0	06/12/2012	ND	432	108	400	0.00	

Sample ID: S-2 2' (H201297-07)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10800	16.0	06/12/2012	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/08/2012	Sampling Date:	06/07/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT NO. 60	Sampling Condition:	Cool & Intact
Project Number:	701307.038.06	Sample Received By:	Jodi Henson
Project Location:	SEC. 5 - T18S - R27E		

Sample ID: S-3 0' FLOWPATH (H201297-08)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20600	16.0	06/12/2012	ND	432	108	400	0.00	

Sample ID: S-3 1' (H201297-09)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP	· · · · · · · · · · · · · · · · · · ·			<u></u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	06/12/2012	ND	416	104	400	0.00	

Sample ID: S-3 2' (H201297-10)

Chloride, SM4500Cl-B mg/kg			Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10300	16.0	06/12/2012	ND	416	104	400	0.00	

Sample ID: S-3 2.5 BGS (H201297-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6320	16.0	06/12/2012	ND	416	104	400	0.00	

Sample ID: S-4 0' FLOWPATH (H201297-12)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	30400	16.0	06/12/2012	ND	416	104	400	0.00	

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Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/08/2012	Sampling Date:	06/07/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT NO. 60	Sampling Condition:	Cool & Intact
Project Number:	701307.038.06	Sample Received By:	Jodi Henson
Project Location:	SEC. 5 - T18S - R27E		

Sample ID: S-4 1' BGS (H201297-13)

Chloride, SM4500CI-B	mg,	/kg	Алајуze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	06/12/2012	ND	416	104	400	0.00	

Sample ID: S-4 1.5' BGS (H201297-14)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP		· · · · · · · · · · · · · · · · · · ·			
Anaiyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	06/12/2012	ND	416	104	400	0.00	

Sample ID: S-5 0' FLOWPATH (H201297-15)

Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AP		n			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	41600	16.0	06/12/2012	ND	416	104	400	0.00	

Sample ID: S-5 1' BGS (H201297-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	06/12/2012	ND	416	104	400	0.00	

Sample ID: S-5 2' BGS (H201297-17)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	06/12/2012	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celez Di Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/08/2012	Sampling Date:	06/07/2012
Reported:	06/14/2012	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT NO. 60	Sampling Condition:	Cool & Intact
Project Number:	701307.038.06	Sample Received By:	Jodi Henson
Project Location:	SEC. 5 - T18S - R27E		

Sample ID: S-5 3' BGS (H201297-18)

Chloride, SM4500Cl-B	mg_	/kg	Analyz	ed By: AP					<u>.</u>
Analyte	Result	Reporting Limit	Analyzed	' Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	06/12/2012	ND	416	104	400	0.00	

Sample ID: S-5 4' BGS (H201297-19)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	06/12/2012	ND	416	104	400	0.00	

Sample ID: S-5 6' BGS (H201297-20)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/12/2012	ND	416	104	400	0.00	

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Celey Di Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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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.
-	Chioride by SM4500CI-8 does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

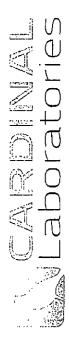
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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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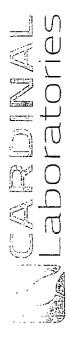
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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July 03, 2012 MIKE STUBBLEFIELD TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: WEST RED LAKE UNIT NO. 60

Enclosed are the results of analyses for samples received by the laboratory on 06/29/12 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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.tceg.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Celez D. Kune

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/29/2012	Sampling Date:	06/26/2012
Reported:	07/03/2012	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT NO. 60	Sampling Condition:	** (See Notes)
Project Number:	701307.038.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 5 - T18S - R27E		

Sample ID: S-1 8' BGS LOCATION (H201480-01)

Chloride, SM4500Cl-B	mg		Алајузе	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: S-1 10' BGS (H201480-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	2200	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: S-1 12' BGS (H201480-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	07/03/2012	ND	416	104	400	0.00	

Sample ID: S-1 18' BGS (H201480-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/03/2012	ND	416	104	400	0.00	

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/29/2012	Sampling Date:	06/26/2012
Reported:	07/03/2012	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT NO. 60	Sampling Condition:	** (See Notes)
Project Number:	701307.038.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 5 - T18S - R27E		

Sample ID: S-2 4' BGS OFF LOCATION (H201480-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/03/2012	ND	416	104	400	0.00	

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Celez D. Kune

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 SM4500CI-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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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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Page 5 of 5



July 10, 2012

MIKE STUBBLEFIELD TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: WEST RED LAKE UNIT NO. 60

Enclosed are the results of analyses for samples received by the laboratory on 07/05/12 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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,

Lope S. Moreno-

Hope Moreno Inorganic Technical Director



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

Received:	07/05/2012	Sampling Date:	07/03/2012
Reported:	07/10/2012	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT NO. 60	Sampling Condition:	** (See Notes)
Project Number:	701307.038.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 5 - T18S - R27E		

Sample ID: BH - 7 0' IMPACTED AREA (H201525-01)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	40000	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 7 2' BGS (H201525-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 7 4' BGS (H201525-03)

Chloride, SM4500Cl-B	mg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 7 6' BGS (H201525-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM				•	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/06/2012	ND	416	104	400	0.00	

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Hope S. Moreno

Hope Moreno, Inorganic Technical Director



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Received:	07/05/2012	Sampling Date:	07/03/2012
Reported:	07/10/2012	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT NO. 60	Sampling Condition:	** (See Notes)
Project Number:	701307.038.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 5 - T185 - R27E		

Sample ID: BH - 7 8' BGS (H201525-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 7 10' BGS (H201525-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chioride	320	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 7 14' BGS (H201525-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 7 16' BGS (H201525-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 8 0' IMPACTED AREA (H201525-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	88800	16.0	07/06/2012	ND	416	104	400	0.00	

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Hope S. Moreno-

Hope Moreno, Inorganic Technical Director



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

Received:	07/05/2012	Sampling Date:	07/03/2012
Reported:	07/10/2012	Sampling Type:	Soil
Project Name:	WEST RED LAKE UNIT NO. 60	Sampling Condition:	** (See Notes)
Project Number:	701307.038.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 5 - T18S - R27E		

Sample ID: BH - 8 2' BGS (H201525-10)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 8 4' BGS (H201525-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 8 6' BGS (H201525-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 8 8' BGS (H201525-13)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 8 12' (H201525-14)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	ву: НМ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	07/06/2012	ND	416	104	400	0.00	

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Hope Moreno, Inorganic Technical Director



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

Received:	07/05/2012	Sampling Date:	07/03/2012	
Reported:	07/10/2012	Sampling Type:	Soil	
Project Name:	WEST RED LAKE UNIT NO. 60	Sampling Condition:	** (See Notes)	
Project Number:	701307.038.01	Sample Received By:	Jodi Henson	
Project Location:	SEC. 5 - T18S - R27E			

Sample ID: BH - 8 14' BGS (H201525-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 8 16' BGS' (H201525-16)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 9 0' BACKGROUND (H201525-17)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 9 5' BGS' (H201525-18)

Chloride, SM4500CI-B	mg;	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/06/2012	ND	416	104	400	0.00	

Sample ID: BH - 9 10' BGS (H201525-19)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	07/06/2012	ND	416	104	400	0.00	

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Notes and Definitions

 ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference

 **
 Samples not received at proper temperature of 6°C or below.

 Insufficient time to reach temperature.

 Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

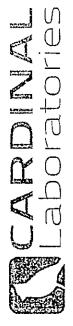
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Lope S. Moreno

Hope Moreno, Inorganic Technical Director



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