



October 10, 2012

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ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

Toll Free: 866.742.0742 www.talonipe.com Mr. Mike Bratcher **NMOCD District 2** 1301 West Grand Avenue Artesia, NM 88210

Subject: Amended Soil Assessment and Remediation Work Plan Cimarex Energy Red lake Disposal Line

Dear Mr. Bratcher,

Cimarex Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Red lake Disposal Line (pipeline) release. Our soil sampling results and proposed remediation activities consist of the following:

# **Incident Date**

July 22, 2012

# **Background Information**

The Red lake Disposal Line (pipeline) is located approximately fifteen (15) miles east of Artesia, New Mexico. The legal location for the site is Section 22, Township 17 South and Range 28 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.815055 North and -104.167486 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 Largo-Stony land complex soils with 0 to 25 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of older alluvial deposits of upland plains and piedmont areas which include calcareous alluvium and silty loamy soils under lain by hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates no ground water records for Section 22, Township 17 South and Range 28 East. Groundwater in the vicinity is approximately 75-feet below land surface accordingly to the Texaco/Chevron Eddy County Trend Data Map.

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

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

# **Incident Description**

On July 22, 2012 the Red Lake Disposal Line was found to be leaking. A release of 80 to 100 barrels of produced water is estimated. The line was shut-in, repaired and brought back into service. A vacuum truck was called to pick up standing fluids; approximately 5 barrels of fluids were recovered. The release traveled 300-feet east of the disposal line and 75-feet south of the line.

# **Actions Taken**

On July 27, 2012 Talon mobilized personnel to begin the assessment and soil sampling for the construction of a work plan. The soil samples were collected from the impacted area using a backhoe.

On August 8, 2011 Talon returned to the release site to collect additional soil samples utilizing a split spoon auger rig to obtain soil samples for vertical delineation for chlorides. Grab samples were collected from a depth of 15 to 55 feet below land surface.

The soil samples were collected by Talon personnel wearing clean nitrile gloves. The 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 TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chlorides were analyzed per method SM4500Cl-B. The complete laboratory report is attached as Appendix II.

# **Analytical Results**

Analytical results received from Cardinal Laboratories are summarized below:

August 11, 2012

Sample	Depth	<u>BTEX</u>	Chlorides	<u>TPH</u> (mg/kg)
S-1,	0'	0.576	31,200	2401.6
	2'	< 0.050	16,000	<10
	4'		13,200	
	6'		15,600	
	8'		14,800	
	10'		19,400	
	12'		22,000	
S-2,	0'	< 0.050	20,000	<10
	2'	< 0.050	15,000	<10
·	4'		11,800	
	6'		14,800	
	8'		15,400	***
	12'		15,200	

S-3 August 28, 29	0' 012		32	
Sample	Depth	Chlorides (mg	g/kg)	
B-1	15' 20' 25' 30' 35' 40' 45' 50' 55'	11,400 9,200 2,680 5,840 3,840 5,120 64 96 128 – Ground	water not enco	ountered
B-2	15' 20' 25'	16 16 <16		

# Summary

- Ground water in the project vicinity is approximately 125-feet below land surface according to the Texaco/Chevron Eddy County Water Trend Data Map (2005).
- Per the New Mexico State Engineers Database, groundwater is identified at 40-feet below land surface 7,784 meters west of the project location.
- Based on the depth to groundwater, it is unlikely that the impacts identified from this release will pose a threat to groundwater after proposed remediation activities are complete.

# Proposed Remedial Actions

- The impacted soil will be excavated to a depth of 4-feet and transported to an NMOCD approved solid waste disposal facility.
- Confirmation samples will be collected from the sidewalls of the excavation and presented to the OCD for permission to complete excavation activities.
- Upon completion of excavation activities, a 20 mil. liner will be placed into the bottom of excavated area. The excavated area will be backfilled back to grade using new material transported from a local borrow pit and will be contoured to match the surrounding location.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office, 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

maristreefall

Mike Stubblefield Project Manager

Adi

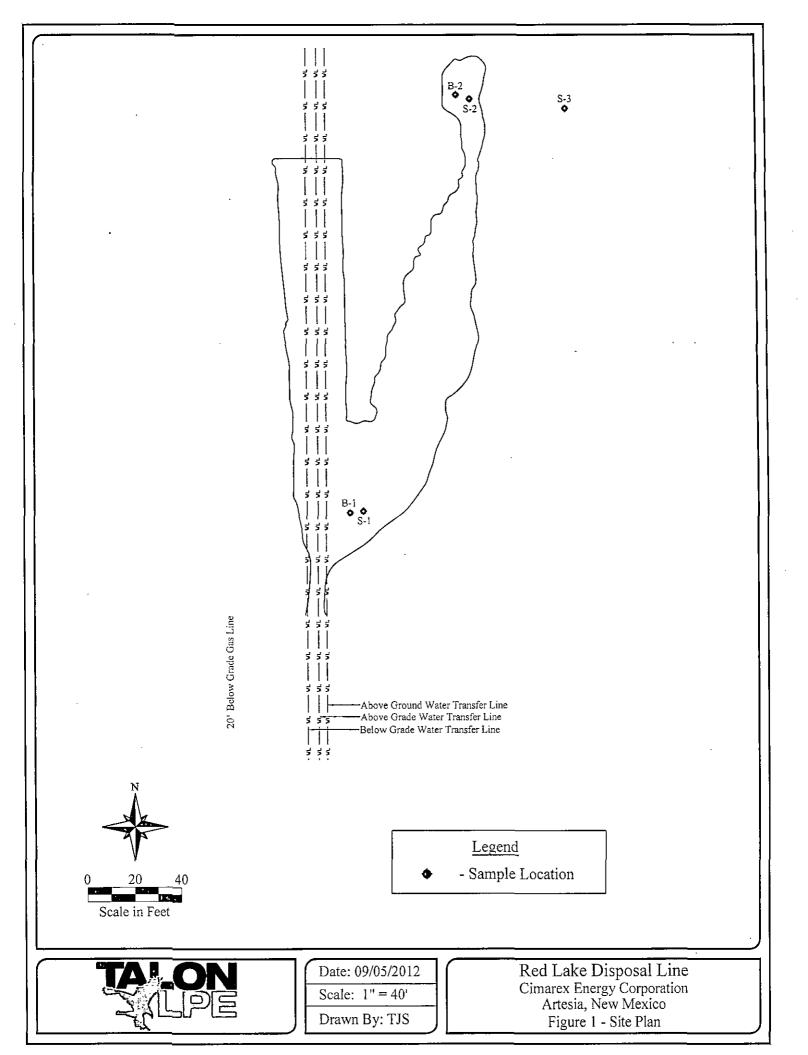
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David J. Adkins District Manager

. SITE MAP

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# APPENDIX I

# GROUNDWATER DATA

# **INITIAL C-141**



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD has been replaced, O=orphaned, C=the file is closed)	(quarters a (quarters a						UTM in me	ters)	(	n feet)	
	POD	Q	مم							Depth	Depth W	ater
POD Number	Code Subbasin	County 64	164	Sec	Tws	Rng	х	Y	Distance	Well	Water Co	lumn
RA 04561		ED	42	26	17S	27E	570871	3630142*	6752	250		
L 01142 POD1	Ĺ	LE	24	15	18S	28E	578921	3623453*	7600	80		
RA 04554		ED	1	23	17S	27E	569859	3631947*	7784	220	40	180
								Avera	ge Depth to	Water	40 fe	et
									Minimum	Depth	40 fe	et
									Maximum	Depth:	40 fe	∋t
Depart County 2												

### **Record Count: 3**

### UTMNAD83 Radius Search (in meters):

Easting	(X):	577577
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Northing (Y): 3630934

Radius: 8000

### \*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.

08/05/2012	<b>05:</b> 45	5057489720
001 001 2012	40.40	2021483120

OCD ARTESIA

<u>District II</u>			New Mex and Natura	ico I Resources		Form C-141 Revised October 10, 2003		
<ul> <li>W. Grand Avenue, Artesia, NM 88210</li> <li>District III</li> <li>000 Rio Brazos Road, Aztec, NM 87410</li> <li>District IV</li> </ul>	Oil C	Conserv	rvation Division h St. Francis Dr.			Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back		
220 S. St. Francis Dr., Santa Fc. NM 37505		_	, NM 875			side of form		
R	elease Notific	eation	and Co	prrective A	ction			
Name of Company-Cimarcx Energy			OPERA		🛛 Initia	l Report 🔲 Final Repo		
Address-600 N Marienfeld Stc 600, Mid	ilend Tx 79701	î 1		lo, 575 706 009				
Facility Name-Red Lake Disposal Line	(pipelinc)	[ F	Facility Typ	e-Disposal Lin	0			
Surface Owner	Mineral C	)wner			Lease N	0		
		TION	OF REI	LEASE				
Unit Letter Section Township Ran 22 17S 28E	ge Feet from the	North/S	South Line	Fect from the	East/West Line	County - Eddy		
Latit	ude32-48'-5"							
Type of Release- Produce Water	NAT	URE	OF REL	EASE Release- 80-100	bbis Volume R	ccovered-5 bbls		
Was Immediate Notice Given?			IFYES TO	Whom? Messag	c was left for Mike	Bratcher @ NMOCD		
	🔲 No 🔲 Not Ro	cquired						
Was a Watercourse Reached?			)   If YES, Ve	dume impacting	the Watercourse.			
Ycs	🔀 No		[	-		······································		
If a Watercourse was Impacted, Describe Fu	liy.*		L		<b>Fit</b>	CEIVED		
					i u	JL 2 3 2012		
					JL			
	etion Take: Disposal	line leak	ed locked ou	t phinps at batter				
	etion Take: Disposal	line leak	ed locked ou	t phinps at batter				
	etion Take: Disposal	line leak	ed locked ou	t pumps at batter				
line. Cut and repaired disposal line. Describe Area Affected and Cleanup Action	Take: impacted area				y. Vacuum Mibli pA	Der an		
line. Cut and repaired disposal line. Describe Area Affected and Cleanup Action	Take: impacted area				y. Vacuum Mibli pA	CHUPARILLASPON of bad		
line. Cut and repaired disposal line. Describe Area Affected and Cleanup Action Notified Talon to sample and start clean up p	Take: impacted area	is 300' to	o the cast and	1 75' to the south	y. Vacuum ikubi fak	EEUupArtiteraSpon of bad		
line. Cut and repaired disposal line. Describe Area Affected and Cleanup Action Notified Talon to sample and start clean up p I hereby certify that the information given al regulations all operators are required to repo	Take: impacted area plan pove is true and comp rt and/or file certain r	is 300' to	o the cast and the best of my otifications a	175' to the south knowledge and t nd perform corre	y. Vacuum ihtibii jak . Calicd out vac true inderstand that pure	Want to NMOCD rules and		
Describe Cause of Problem and Remedial A line. Cut and repaired disposal line. Describe Area Affected and Cleanup Action Notified Talon to sample and start clean up p I hereby certify that the information given al regulations all operators are required to repo public health or the environment. The accep should their operations have failed to adequa	Take: impacted area plan pove is true and comp rt and/or file certain r (ance of a C-141 repo	is 300' m dete to th elease no	e best of my tifications a	knowledge and t ind perform corre arked as "Final R	y. Vacuum ihibii fa . Calicd out vac true inderstand that purs tive actions for reli- eport" does not reli-	CHURARITESPON of bad ck to pick up standing water.		
line. Cut and repaired disposal line. Describe Area Affected and Cleanup Action Notified Talon to sample and start clean up p I hereby certify that the information given al regulations all operators are required to repo public health or the environment. The accep should their operations have failed to adequa or the environment. In addition, NMOCD ar	Take: impacted area plan pove is true and comp rt and/or file certain r tance of a C-141 repo atoly investigate and n ecoptance of a C-141	is 300° to dete to the elease no ort by the emediate	e best of my otifications a NMOCD m	knowledge and t nd perform correl arked as "Final R on that pose a thi	y. Vacuum ihibii jak . Calied out vac tru- inderstand that purs etive actions for reli- eport" does not reli- reat to ground water	want to NMOCD rules and eases which may endanger even the operator of liability surface water, human health		
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line. Cut and repaired disposal line. Describe Area Affected and Cleanup Action Notified Talon to sample and start clean up p I hereby certify that the information given al regulations all operators are required to repo public health or the environment. The accep should their operations have failed to adequa or the environment. In addition, NMOCD ar	Take: impacted area plan pove is true and comp rt and/or file certain r tance of a C-141 repo atoly investigate and n ecoptance of a C-141	is 300° to dete to the elease no ort by the emediate	e best of my otifications a NMOCD m	knowledge and t hd perform corre arked as "Final R on that pose a thi e the operator of	y. Vacuum ihibii jak . Calied out vac tru- inderstand that purs etive actions for reli- eport" does not reli- reat to ground water	want to NMOCD rules and eases which may endanger event to operator of liability surface water, human health compliance with any other		
line. Cut and repaired disposal line. Describe Area Affected and Cleanup Action Notified Talon to sample and start clean up p I hereby certify that the information given al regulations all operators are required to repo public health or the environment. The accep should their operations have failed to adequa or the environment. In addition, NMOCD ar federal, state, or local laws and/or regulation Signature:	Take: impacted area plan pove is true and comp rt and/or file certain r tance of a C-141 repo atoly investigate and n ecoptance of a C-141	is 300' to dete to the elease no ort by the emediato report do	e the cast and the best of my otifications a NMOCD m contaminations not reliev	knowledge and t hd perform corre arked as "Final R on that pose a thi e the operator of	y. Vacuum ithibit for called out vac true inderstand that pure clive actions for reli- ter to ground water responsibility for c SERVATION	want to NMOCD rules and eases which may endanger event to operator of liability surface water, human health compliance with any other		
line. Cut and repaired disposal line. Describe Area Affected and Cleanup Action Notified Talon to sample and start clean up p I hereby certify that the information given al regulations all operators are required to repo public health or the environment. The accep should their operations have failed to adequa or the environment. In addition, NMOCD as federal, state, or local laws and/or regulation	Take: impacted area plan pove is true and comp rt and/or file certain r tance of a C-141 repo atoly investigate and n ecoptance of a C-141	is 300' to lete to the elease no ort by the emediato report do	e the cast and the best of my otifications a NMOCD m contaminations not reliev	i 75' to the south knowledge and t nd perform corre arked as "Final R on that pose a thi e the operator of <u>OIL CON</u> District Supervis	y. Vacuum ithibit jok called out vac true inderstand that pure clive actions for reli- ter to ground water responsibility for c SERVATION	CHURARITESPOL of bad ck to pick up standing water. eases which may endanger eve the operator of liability ; surface water, human health compliance with any other DIVISION		

\* Attach Additional Sheets If Necessary

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# APPENDIX II

# LABORATORY RESULTS

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August 11, 2012

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

RE: RED LAKE DISPOSAL LINE

Enclosed are the results of analyses for samples received by the laboratory on 07/27/12 14:30.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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,

Celey 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:	07/27/2012	Sampling Date:	07/27/2012
Reported:	08/11/2012	Sampling Type:	Soil
Project Name:	RED LAKE DISPOSAL LINE	Sampling Condition:	Cool & Intact
Project Number:	701162.050.01	Sample Received By;	Jodi Henson
Project Location:	32.81501-104.16747		

### Sample ID: S - 1 0' (H201752-01)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.069	0.050	08/03/2012	ND	1.71	85.7	2.00	0.0615	
Toluene*	0.074	0.050	08/03/2012	ND	1.75	87.7	2.00	3.22	
Ethylbenzene*	0.113	0.050	08/03/2012	ND	1.76	88.1	2.00	5.06	
Total Xylenes*	0.320	0.150	08/03/2012	ND	5.24	87.4	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PIL	103 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	31200	16.0	07/30/2012	ND	416	104	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
GR0 C6-C10	51.6	50.0	07/30/2012	ND .	183	91.6	200	0.268	
DRO >C10-C28	2350	50.0	07/30/2012	ND	208	104	200	7.17	
Surrogate: 1-Chlorooctane	91.8 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	137 %	63.6-15	4						

Cardinal Laboratories

\*=Accredited Analyte

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Celey 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:	07/27/2012	Sampling Date:	07/27/2012
Reported:	08/11/2012	Sampling Type:	Soil
Project Name:	RED LAKE DISPOSAL LINE	Sampling Condition:	Cool & Intact
Project Number:	701162.050.01	Sample Received By:	Jodi Henson
Project Location:	32.81501-104.16747		

### Sample ID: S - 1 2' BGS (H201752-02)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2012	ND	1.71	85.7	2.00	0.0615	
Toluene*	<0.050	0.050	08/03/2012	ND	1.75	87.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	08/03/2012	ND	1.76	88.1	2.00	5.06	
Total Xylenes*	<0.150	0.150	08/03/2012	ND	5.24	87.4	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	07/30/2012	ND	416	104	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	07/30/2012	ND	183	91.6	200	0.268	
DRO >C10-C28	<10.0	10.0	07/30/2012	ND	208	104	200	7,17	
Surrogate: 1-Chlorooctane	85.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.3	% 63.6-15	4						
Sample ID: S - 1 4' BGS (H20)	753-02								
Chloride, SM4500Cl-B	,دں-2د / ا mg		Analyze	d By: HM					

	mg/	ĸg	Analyze	u by: net					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	07/30/2012	ND	416	104	400	0.00	

### **Cardinal Laboratories**

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability and climit's exclusive remedy for any claim ansing, 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 thiny (30) days after completion of the applicable service. In no event, shall Cardinal be liable for including those for negligence and unders, writing, writing, including, writing, list subsidiares, affiliates or successors asising 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

Celey D. Keene, Lab Director/Quality Manager



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

Received:	07/27/2012	Sampling Date:	07/27/2012
Reported:	08/11/2012	Sampling Type:	Soil
Project Name:	RED LAKE DISPOSAL LINE	Sampling Condition:	Cool & Intact
Project Number:	701162.050.01	Sample Received By:	Jodi Henson
Project Location:	32,81501-104,16747		

### Sample ID: S - 1 6' BGS (H201752-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	07/30/2012	ND	416	104	400	0.00	

### Sample ID: S - 1 8' BGS (H201752-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: НМ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	. % Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	07/30/2012	ND	416	104	400	0.00	

### Sample ID: S - 1 10' BGS (H201752-06)

Chloride, SM4500Cl-B	mg/	ſkg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19400	16.0	08/08/2012	ND	384	96.0	400	0.00	

### Sample ID: S - 1 12' BGS (H201752-07)

Chloride, SM4500Cl-B	mg;	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS .	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	08/10/2012	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

PIEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remerby 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 cauge whatsoever shall be deemed waived unless made in writing and received by Cardinal which thirty (30) days after competion of the applicable service. In no event shall Cardinal be limited for incidental or consequential demages, 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 claims is based upon two fits debutions of uses stated reasons or chemise. Results related by client, its subsidiaried exerces in lively with writer approval of Cardinal Laboratories,

Celey 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:	07/27/2012	Sampling Date:	07/27/2012
Reported:	08/11/2012	Sampling Type:	Soil
Project Name:	RED LAKE DISPOSAL LINE	Sampling Condition:	Cool & Intact
Project Number:	701162.050.01	Sample Received By:	Jodi Henson
Project Location:	32.81501-104.16747		

### Sample ID: S - 2 0' (H201752-08)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2012	ND	1.71	85.7	2.00	0.0615	
Toluene*	<0.050	0.050	08/03/2012	ND	1.75	87.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	08/03/2012	ND	1.76	88.1	2.00	5.06	
Total Xylenes*	<0.150	0.150	08/03/2012	ND	5.24	87.4	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PIL	100 9	6 89.4-12	б						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	07/30/2012	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS		<u></u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/30/2012	ND	183	91.6	200	0.268	
DRO >C10-C28	<10.0	10.0	07/30/2012	ND	208	104	200	7,17	
Surrogate: I-Chlorooctane	87.8	65.2-14	0		<u> </u>			- <u></u>	
Surrogate: 1-Chlorooctadecane	98.0	% 63.6-15	4						

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\*=Accredited Analyte

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Celey 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:	07/27/2012	Sampling Date:	07/27/2012
Reported:	08/11/2012	Sampling Type:	Soil
Project Name:	RED LAKE DISPOSAL LINE	Sampling Condition:	Cool & Intact
Project Number:	701162.050.01	Sample Received By:	Jodi Henson
Project Location:	32.81501-104.16747		

### Sample ID: S - 2 2' BGS (H201752-09)

BTEX 8021B	៣១/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene* .	<0.050	0.050	08/03/2012	ND	1.71	85.7	2,00	0.0615	
Toluene*	<0.050	0.050	08/03/2012	ND	1.75	87.7	2.00	3.22	
Ethylbenzene*	<0.050	0.050	08/03/2012	ND	1.76	88.1	2,00	5.06	
Total Xylenes*	<0.150	0.150	08/03/2012	ND	5.24	87.4	6.00	6.20	
Surrogate: 4-Bromofluorobenzene (PIL	101	% 89.4-12	6						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	βS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15000	16.0	07/30/2012	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Алајуze	d By: MS					
Analyte .	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10,0	10.0	07/30/2012	ND	183	91.6	200	0.268	
DRO >C10-C28	<10.0	10.0	07/30/2012	ND	208	104	200	7.17	
Surrogate: 1-Chlorooctane	92.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						
Sample ID: S - 2 4' BGS (H201	L752-10)	)							
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Oualifie

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11800	16.0	07/30/2012	ND	416	104	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

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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:	07/27/2012	Sampling Date:	07/27/2012
Reported:	08/11/2012	Sampling Type:	Soil
Project Name:	RED LAKE DISPOSAL LINE	Sampling Condition:	Cool & Intact
Project Number:	701162.050.01	Sample Received By:	Jodi Henson
Project Location:	32.81501-104.16747		

### Sample ID: S - 2 6' BGS (H201752-11)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	07/30/2012	ND	416	104	400	0.00	

### Sample ID: S - 2 8' BGS (H201752-12)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15400	16.0	07/30/2012	ND	416	104	400	0.00	

# Sample ID: S - 2 12' BGS (H201752-14)

Chloride, SM4500Cl-B	_mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	08/08/2012	ND	384	96.0	400	0.00	

### Sample ID: S - 3 0' BACKGROUND (H201752-15)

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	07/30/2012	ND	416	104	400	0.00	

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Celeg 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. Kune

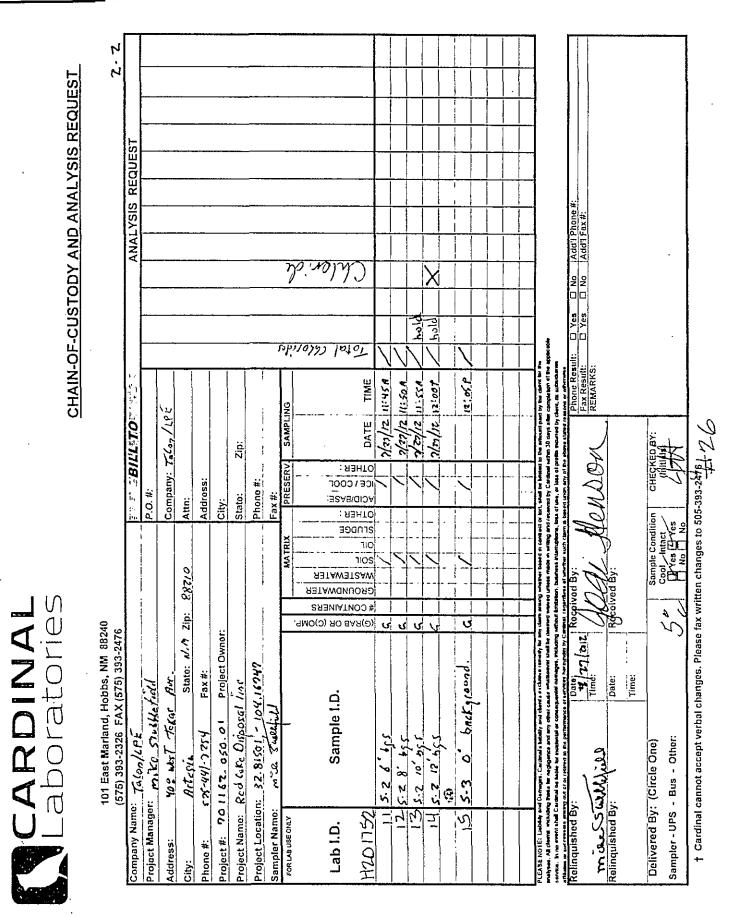
Celey D. Keene, Lab Director/Quality Manager



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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

7 3	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	3240 176				`								<u> </u>	Ņ	
Company Name: Tolon / CPE	Tulon / CPE			411.	8					AN	ANALYSIS		REQUEST			
Project Manager:	mike Studdle field			a	P.O. #:											
Address:	408 Whit Terni Aur.				Company: Tolan		165			. <u></u>					7	
city:	Ar Stato: VM	Zip: 892	2120	<u> </u>	Attn:											
Phone #: 5	# XDS- 441- 2254 Fax #:			A	Address:									i		
	901162.050.01 Project Owner: Cimari	er C.3	<u>سر</u>	Facter C	- City:											
Project Name: F	Red Lake Disposal line			_	State:	Zip:		· · ·		<u> </u>					-	
Project Location:	32.9150			<u>a</u> 1	Phone #:		ļ			<b>.</b>						
Sampler Name:	marchelle			ű	Fax #:						7					
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t Cardinal ca	† Cardinal cannot accept verbal changes. Please fax written	so fax wri	tten chan	ges to 50	changes to 505-393-2476										]	
				<b>·</b>	1 1 0 1	٢										



Page 10 of 10



August 28, 2012

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

RE: RED LAKE DISPOSAL LINE

Enclosed are the results of analyses for samples received by the laboratory on 08/23/12 17:07.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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:	08/23/2012		Sampling Date:	08/22/2012
Reported:	08/28/2012		Sampling Type:	Soil
Project Name:	RED LAKE DISPOSAL LINE		Sampling Condition:	** (See Notes)
Project Number:	701162.021.01	•	Sample Received By:	Jodi Henson
Project Location:	SEC 22-T17S-R28E			

### Sample ID: B - 1 15' BGS (H202029-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11400	16.0	08/27/2012	ND	400	100	400	0.00	

### Sample ID: B - 1 20' (H202029-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	08/27/2012	ND	400	100	400	0.00	

### Sample ID: B - 1 25' (H202029-03)

Chloride, SM4500CI-B	mg	/kg	Алаłуze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	08/27/2012	ND	400	100	400	0.00	

### Sample ID: B - 1 30' (H202029-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5840	16.0	08/27/2012	ND	400	100	400	0.00	

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey 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

08/23/2012	Sampling Date:	08/22/2012
08/28/2012	Sampling Type:	Soil
RED LAKE DISPOSAL LINE	Sampling Condition:	** (See Notes)
701162.021.01	Sample Received By:	Jodi Henson
SEC 22-T17S-R28E		
	08/28/2012 RED LAKE DISPOSAL LINE 701162.021.01	08/28/2012Sampling Type:RED LAKE DISPOSAL LINESampling Condition:701162.021.01Sample Received By:

### Sample ID: 8 - 1 35' (H202029-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	08/27/2012	ND	400	100	400	0.00	

### Sample ID: 8 - 1 40' (H202029-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5120	16.0	08/27/2012	ND	400	100	400	0.00	

### Sample ID: B - 1 45' (H202029-07)

Chloride, SM45D0C1-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS .	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/27/2012	ND	400	100	400	0.00	

### Sample ID: B - 1 50' (H202029-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/27/2012	ND	400	100	400	0.00	

### Sample ID: B - 1 55' (H202029-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/27/2012	ND	400	100	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:	08/23/2012	Sampling Date:	08/22/2012
Reported:	08/28/2012	Sampling Type:	Soil
Project Name:	RED LAKE DISPOSAL LINE	Sampling Condition:	** (See Notes)
Project Number:	701162.021.01	Sample Received By:	Jodi Henson
Project Location:	SEC 22-T17S-R28E		

### Sample ID: B - 2 15' (H202029-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/27/2012	ND	400	100	400	0.00	

### Sample ID: B - 2 20' (H202029-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM		<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/27/2012	ND	400	100	400	0.00	

### Sample ID: B - 2 25' (H202029-12)

Chloride, SM4500Cl-B mg/kg Analyzed By: HM
--

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/27/2012	ND	416	104	400	0.00	

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\*=Accredited Analyte

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Celez Di Kune

Celey D. Keene, Lab Director/Quality Manager



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

### Notes and Definitions -

	Samples reported on an as received basis (wet) unless otherwise noted on report
	Chloride by SM4500CI-B does not require samples be received at or below 6°C
***	Insufficient time to reach temperature.
**	Samples not received at proper temperature of 6°C or below.
RPD	Relative Percent Difference
ND	Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

\*=Accredited Analyte

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Celeg Di Kune

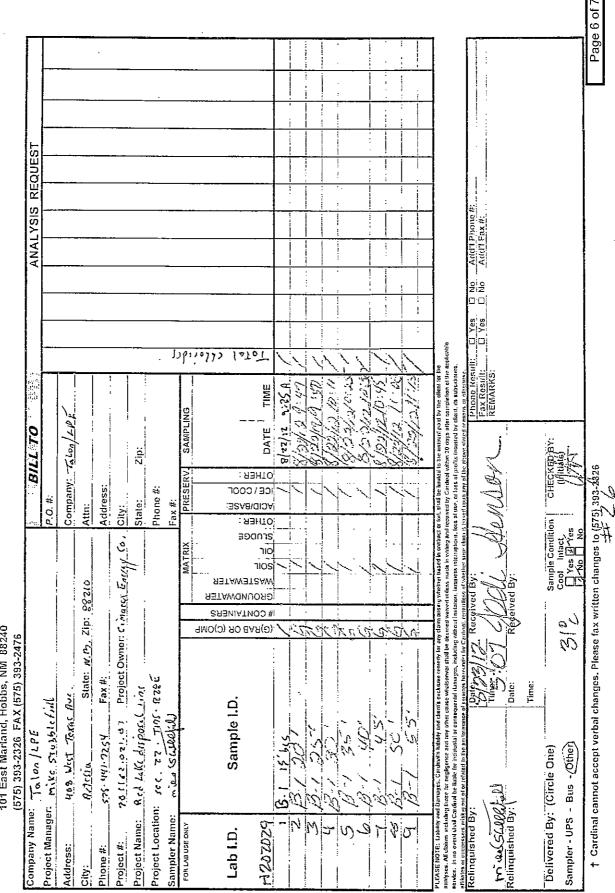
Celey D. Keene, Lab Director/Quality Manager

Page 5 of 7

Lahor-

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240



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

Respectfully submitted,

TALON/LPE

mile Shellefield

Mike Stubblefield Project Manager

de-

David J. Adkins District Manager