

April 9, 2013

RECEIVED APR **0 9** 2013 NMOCD ARTES!A

Mr. Mike Bratcher **NMOCD District 2** 811 S. 1st Street

Artesia, NM 88210

921 North Bivins Amarillo. Texas 79107

Phone 806.467.0607 Fax 806.467.0622

ARTESIA

AMARILLO

408 West Texas Ave. Artesia, New Mexico 88210 Phone 575 746 8768 Fax 575.746.8905

Subject:

Soil Assessment and Remediation Work Plan

LRE Operating, LLC

Karlsbad Corral: Central Battery API # 30-015-33324 2RP-1310

AMENDED

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

2901 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

ENVIRONMENTAL CONSULTING ENGINEERING

> CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

DRILLING

Toll Free: 866,742,0742 www.talonlpe.com Dear Mr. Bratcher,

LRE Operating, LLC has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced Karlsbad Corral Central Battery release. The results of our soil assessment and proposed remediation activities consist of the following:

Incident Date

September 4, 2012

Background Information

The Karlsbad Corral Central Battery is located approximately forty-eight (48) miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 2, Township 25 South and Range 29 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.152898 North and -103.953089 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 Tonuco loamy sand with a 0 to 3 percent slopes, eroded. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Salado formations which include loamy alluvium and eolian sands under lain by petrocalcic soils and hard caliche. The New Mexico State Engineer web site indicates the nearest ground water data to be in S10-T25S-R29E. The ground water in Section 10 is reported to be a depth of 40' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 20 based on the as following:

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

Incident Description

On September 4, 2012 a broken fitting on the transfer pump caused a release of 92 barrels of produced water inside the berms of the battery. A vacuum truck was immediately called to the location and recovered 70 barrels of produced water. A Hydro Vac was subsequently used to recover the heavily contaminated surface soil.

Actions Taken

On September 7, 2012 Talon/LPE mobilized personnel to begin the site assessment and soil sampling for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 2-feet below ground surface. Soil sample locations are illustrated on the attached site plan.

On March 6, 2013 Talon returned to the site for additional sampling. Grab soil samples were collected utilizing a backhoe to a depth of 12-feet deep.

On March 27, 2013 Talon/LPE mobilized personnel to the site again for additional vertical delineation. Grab soil samples were collected utilizing an air rotary rig to a depth of 45-feet deep.

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 TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per method SM4500Cl-B. The complete laboratory reports are attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

September 21, 2012

Sample	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	Chlorides (mg/kg)
S-1	0' 1'	<0.150 <0.150	<10 <10	33600 1250
	2'			1180
S-2	0,	0.538	23200	2320
	1'	5.255	8266	256
	2'			96
S-3	0,	< 0.150	192	33600
	1'	< 0.150	13.4	672
	2'			80
Analyte N	lot Tested			

March 6, 2013

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	Chlorides (mg/kg)
S-4	4' 5' 6' 7' 8' 10' 12'	 	 	15900 15300 15500 11500 12300 6530 2760
April 4, 2013				
Sample	<u>Depth</u>	BTEX	<u>TPH</u>	Chlorides (mg/kg)
BH-5	15' 20' 25' 30' 40' 45'	 	 	1620 2110 1460 1920 784 48
ВН-6	2' 5' 10'	 	 	5320 10200 8480
BH-7	2' 5' 10'	 	 	48800 6800 6480
BH-8	2' 5' 10'	 	 	13400 8000 576
BH-9	2', 5', 10'	 	 	4240 1840 832
BH-10	4' 5' 10'	 	 	56000 6800 4720
BH-11	3' 5' 10'	 	 	26000 16000 1790

April 4, 2013, continued

Sample	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	Chlorides (mg/kg)
BH-12	2' 5' 10'	 	 	19600 16400 3440
BH-13	1' 5' 10'	<0.300 	12.4	24800 4720 944
BH-14	0' 5' 10'	 		256 96 608
S-15		<0.300	1100	1230
S-16		< 0.300	1432.6	2440
S-17	2'	1.17	2911	1410
S-18		< 0.300	824	21200
Background	0' 5' 10'	 	 	32 128 416

⁻⁻ Analyte Not Tested

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 100 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

Summary

- Ground water in the project vicinity is 40-feet below land surface per the New Mexico State Engineer Database.
- 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 area on location has been excavated to a depth of 1-foot to 4-feet deep. The excavated soil has been transported to a NMOCD approved solid waste disposal facility.
- Confirmation samples have been collected from the bottom and sidewalls of the excavated areas.
- The excavated area will be backfilled to surface using new soil from a local borrow pit. A 20 mil liner will be installed inside the berm area.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office including Form C-141.

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

Mike Stubblefield

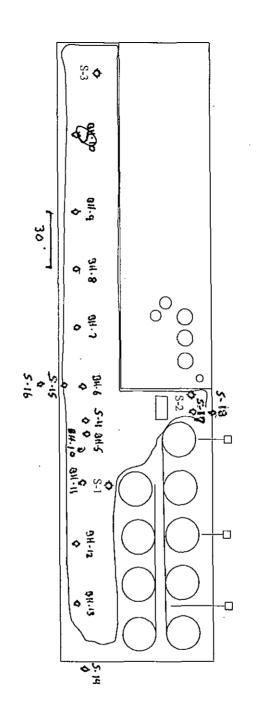
Project Manager

David J. Adkins

District Manager

SITE MAP





4



Scale in Feet

<u></u> სგ

- Sample Location

Date: 09/26/2012

Scale: 1'' = 50'Drawn By: TJS

Karlsbad Corral Central Battery Lime Rock Resources Artesia, New Mexico Figure 1 - Site Plan

APPENDIX I 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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

1			Rele	ease Notific	ation	and Co	rrective A	ction	1			
MLO	1228	44083	5			OPERA	OR		Initia 🛮	al Report_		Final Report
Name of Co		LRE Opera	ting, LL	28/994			Michael Barret					
Address I Facility Nar		y Street Suite bad Corral C		ouston, TX 7700			lo. 575-623-8					
		bad Corrai C	епігаі ва				e Production	/ injecti				
Surface Ow	ner State		•	Mineral O	wner !	State			API No	. 30-015	-33324	
						OF REJ	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/\	West Line	County		
0	02	25 S	29 E	330'	FSL	<u> </u>	1980,	FE	L	Eddy	 .	
			Latitu	ide_ <u>32.1528989</u>	1 <u>5</u> I	Longitude_	103.95308906	4 `	_			
				NAT	URE	OF RELI	EASE					
Type of Rele		· · · · · ·					Release 92 bbl			Recovered	70 bbls	
Source of Re	lease Broke	en Nipple on	Triplex			Date and I- 9/4/12 A	lour of Occurren	ce		Hour of Di) 11:30 am	scovery	
Was Immedia	ate Notice (No Not Re	٠	If YES, To	Whom?		7412 (1			
By Whom?	Alabaal Ba		res _	NO MOLKE	quirea		lour 9/5/12 @ 11	1,00 am				
Was a Water	course Read	hed?		 			dume Impacting		ercourse.			
			Yes 🗵] No		N/A						1
If a Watercou	rse was Im	pacted, Descr	ibe Fully.	F		<u>.</u>				-		
N/A												
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken.*				RF	CEIV	/ED		
1/22	. 1 1	,										
'/'' nipple cra Used Hydro			ntaminate	d surface soil.				SI	EP 17 2	012		
Work plan w								NIMO	(L) V (L)	TC044		
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Standing flui All standing			attery bern	ns.								
,	-101 0 71 10 p	ones ap										į
I hereby certi	fy that the i	information p	iven above	e is true and compl	ete to th	ne hest of my	knowledge and	understa	nd that nur	suant to NN	AOCD ru	les and
regulations al	I operators	are required t	o report a	nd/or file certain re	elease no	otifications a	nd perform corre	ective act	tions for rel	eases which	h may end	danger
				ce of a C-141 repo investigate and re								
or the environ	nment. In a	ddition, NMC	OCD accer	otance of a C-141 r								
federal, state,	or local lay	ws and/or regi	ılations.				OIL CON	ICEDI	/ A TION	DIVISI	ONI	
	11		. /				OIL COL	DLIC	ATION	DIVIDI	<u>OIV</u>	
Signature:	20	ow		<i></i>				con	- 91	1. K	A Cole	
Printed Name	e: Michael I	Barrett	·····			Approved by	Environmental S	zaitane q	1By <i>PUI)</i>	74 RJR	PH USI CA	
Title: Produc	tion Superv	isor				Approval Da	T 10 104	9	Expiration	Date:		
E-mail Addre	ss: mbarret	t@limerockro	sources.co	om		Conditions o	U U ZUI) A.m.aha		
Date: 09/05/			575-623-				CD Rules &			Attache	u 🛄	
Attach Addi				Guidel	ines. S	UBMIT RE	MEDIATION	-	2 R	P-11	21/	
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				Nov	ПC	1.20	-					

APPENDIX II LABORATORY RESULTS



April 04, 2013

MIKE STUBBLEFIELD

TALON LPE

408 W, TEXAS AVE.

ARTESIA, NM 88210

RE: KARLSBAD CORRAL CENTRAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/28/13 15:40.

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-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.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

04/04/2013

Sampling Type:

Soil

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

Cool & Intact

Project Name: Project Number:

701307.041.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: BH - 5 15' (H300754-01)

Chloride, SM4500Cl-B	mg/kg		Analyze	Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	04/01/2013	ND	448	112	400	0.00	
Sample ID: BH - 5 20' (H	H300754-02)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2110	16.0	04/01/2013	ND	448	112	400	0.00	
Sample ID: BH - 5 25' (F	H300754-03)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1460	16.0	04/01/2013	ND	448	112	400	0.00	
Sample ID: BH - 5 30' (i	H300754-04)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	04/01/2013	ND	448	112	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardenal's liability and client's exclusive remedy for any claim arising, whether based in contract or toxt, shall be limited to the amount paid by dient for analyses. All claims, including those any other cause whatsoever shall be deemed walked unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cercinal be liable for incorderal or con ed in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and 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 & Kune



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

Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

04/04/2013

Sampling Type:

Soil

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307.041.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: BH - 5 40' (H300754-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	04/01/2013	ND	448	112	400	0.00	
Sample ID: BH - 5 45' (H	300754-06)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/01/2013	ND	448	112	400	0.00	
Sample ID: BH - 6 2' (H3 Chloride, SM4500Cl-B	00754-07) mg	/ka	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5320	16.0	04/01/2013	ND	448	112	400	0.00	
Sample ID: BH - 6 5' (H36	00754-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10200	16.0	04/01/2013	ND	432	108	400	3.64	
Sample ID: BH - 6 10' (H	300754-09)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8480	16.0	04/01/2013	ND	432	108	400	3.64	

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*=Accredited Analyte

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Celey L. Keena



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

Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

04/04/2013

Sampling Type:

Soil

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307.041.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: BH - 7 2' (H300754-10)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48800	16.0	04/01/2013	ND	432	108	400	3.64	
Sample ID: BH - 7	5' (H300754-11)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	04/01/2013	МÐ	432	108	400	3.64	
Sample ID: BH - 7	10' (H300754-12)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6480	16.0	04/01/2013	ND	432	108	400	3.64	
Sample ID: BH - 8	2' (H300754-13)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13400	16.0	04/01/2013	ND	432	108	400	3.64	
Sample ID: BH - 8	5' (H300754-14)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	04/01/2013	ND	432	108	400	3.64	

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*=Accredited Analyte

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Celey D. Keine



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

ı az

Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

04/04/2013

Sampling Type:

Soil

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307.041.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: BH - 8 10' (H300754-15)

mg	/kg	Analyze	d By: DW					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
576	16.0	04/01/2013	ND	432	108	400	3.64	
D754 - 16)								
mg	/kg	Analyze	d By: DW					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
4240	16.0	04/01/2013	ND	432	108	400	3.64	
0754-17)								
mg	/kg	Analyze	d By: DW					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1840	16.0	04/01/2013	ND	432	108	400	3.64	
00754-18)								
mg	/kg	Analyze	d By: DW					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
832	16.0	04/01/2013	ND	432	108	400	3.64	
00754-19)								
	/ba	Analyze	d By: DW					
mg	/ N9							
mg Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Result 576 0754-16) mg Result 4240 0754-17) mg Result 1840 00754-18) mg Result 832	576 16.0 0754-16) mg/kg Result Reporting Limit 4240 16.0 0754-17) mg/kg Result Reporting Limit 1840 16.0 00754-18) mg/kg Result Reporting Limit 832 16.0	Result Reporting Limit Analyzed 576 16.0 04/01/2013 0754-16) Mg/kg Analyzed Result Reporting Limit Analyzed 4240 16.0 04/01/2013 0754-17) Mg/kg Analyzed Result Reporting Limit Analyzed 1840 16.0 04/01/2013 00754-18) Mg/kg Analyzed Result Reporting Limit Analyzed 832 16.0 04/01/2013 00754-19) 00754-19)	Result Reporting Limit Analyzed Method Blank 576 16.0 04/01/2013 ND 0754-16) mg/kg Analyzed By: DW Result Reporting Limit Analyzed Method Blank 4240 16.0 04/01/2013 ND 0754-17) mg/kg Analyzed By: DW Result Reporting Limit Analyzed By: DW 00754-18) mg/kg Analyzed By: DW Result Reporting Limit Analyzed Method Blank 832 16.0 04/01/2013 ND	Result Reporting Limit Analyzed Method Blank BS 576 16.0 04/01/2013 ND 432 0754-16) mg/kg Analyzed By: DW Result Reporting Limit Analyzed By: DW Result Reporting Limit Analyzed Method Blank BS 1840 16.0 04/01/2013 ND 432 00754-18) mg/kg Analyzed By: DW Result Reporting Limit Analyzed Method Blank BS 832 16.0 04/01/2013 ND 432 00754-19)	Result Reporting Limit Analyzed Method Blank BS % Recovery	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 576 16.0 04/01/2013 ND 432 108 400 0754-16) Mag/kg Analyzed By: DW Result Reporting Limit Analyzed By: DW Result Reporting Limit Analyzed By: DW Result Reporting Limit Analyzed By: DW True Value QC 1840 16.0 04/01/2013 ND 432 108 400 00754-18) mg/kg Analyzed By: DW Result Reporting Limit Analyzed By: DW	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 576 16.0 04/01/2013 ND 432 108 400 3.64 0754-16) mg/kg Analyzed By: DW Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 832 16.0 04/01/2013 ND 432 108 400 3.64

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keine



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

Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

04/04/2013

Sampling Type:

Soil

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307.041.01

mg/kg

Analyzed By: DW

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: BH - 10 5' (H300754-20)

		 (
Chloride,	SM4500CI-B	

		, - =		7					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	04/01/2013	ND	432	108	400	3.64	
Sample ID: BH - 10 10)' (H300754-21)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	04/01/2013	ND	432	108	400	3.64	
Sample ID: BH - 11 3'	(H300754-22)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	04/01/2013	ND	432	108	400	3.64	
Sample ID: BH - 11 5'	(H300754-23)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	04/01/2013	ND	432	108	400	3.64	
Sample ID: BH - 11 10)՝ (H300754-24)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1790	16.0	04/01/2013	ND	432	108	400	3.64	

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Celeg & Keine



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

Fax To:

Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

04/04/2013

Sampling Type:

Soil

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307,041.01

ma/ka

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: BH - 12 2' (H300754-25)

Chloride, SM4500Cl-B		g/kg Analyzed By		d By: DW	By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 12 5' (H300754-26)

Chloride, SM4500Cl-B	mg/	/kg Analyzed By: DW							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	04/01/2013	ND	432	108	400	3.64	

Sample ID: BH - 12 10' (H300754-27)

Chloride, SM4500CI-B

			•	•					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	04/02/2013	ND	432	108	400	3.64	

Analyzed By: DW

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Celey D. Keene, Lab Director/Quality Manager

Celey & Keine



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Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

04/04/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Project Number:

701307.041.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: BH - 13 1' (H300754-28)

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	04/04/2013	ND	2.02	101	2.00	0.606	
Toluene*	<0.050	0.050	04/04/2013	ND	2.23	112	2.00	0.756	
Ethylbenzene*	<0.050	0.050	04/04/2013	ND	2.32	116	2.00	0.556	
Total Xylenes*	< 0.150	0.150	04/04/2013	ND	6.90	115	6.00	0.229	
Total BTEX	<0.300	0.300	04/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS ·	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	04/02/2013	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	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	12.4	10.0	04/02/2013	ND	178	88.8	200	10.9	
Surrogate: 1-Chlorooctane	79.7 9	65.2-14	0						
Surrogate: I-Chlorooctadecane	104 %	63.6-15	4						

Sample ID: BH - 13 5' (H300754-29)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	04/02/2013	ND	432	108	400	0.00	

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Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

Sampling Type:

Soil

Chloride, SM4500Cl-B

04/04/2013

Cool & Intact

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

Project Number:

701307.041.01

mg/kg

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: BH - 13 10' (H300754-30)

		/ -		1					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	04/02/2013	ND	432	108	400	0.00	
Sample ID: BH - 14 Chloride, SM4500Cl-B	0' (H300754-31)	/ka	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/02/2013	ND	432	108	400	0.00	
Sample ID: BH - 14	5' (H300754-32)							•	
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/02/2013	ND	432	108	400	0.00	
Sample ID: BH - 14	10' (H300754-33)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW	···	··········			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	04/02/2013	ND	432	108	400	0.00	

Analyzed By: DW

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

Fax To:

KARLSBAD CORRAL CENTRAL BATTERY

(575) 745-8905

Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

Sampling Type:

Soil

04/04/2013

Sampling Condition:

Cool & Intact

Project Name: Project Number:

701307.041.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: S - 15 (H300754-34)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŚ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2013	ND	2.02	101	2.00	0.606	
Toluene*	<0.050	0.050	04/04/2013	ND	2.23	112	2.00	0.756	
Ethylbenzene*	0.055	0.050	04/04/2013	ND	2.32	116	2.00	0.556	
Total Xylenes*	0.220	0.150	04/04/2013	ND	6.90	115	6.00	0.229	
Total BTEX	<0.300	0.300	04/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	04/02/2013	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	1100	50.0	04/02/2013	ND	178	88.8	200	10.9	
Surrogate: 1-Chlorooctane	49.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 9	% 63.6-15	4						

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

Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

04/04/2013

Sampling Type:

Soil

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307.041.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: S - 16 (H300754-35)

BTEX 80218	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BŞ	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2013	ND	2.02	101	2.00	0.606	
Toluene*	<0.050	0.050	04/04/2013	ND	2.23	112	2.00	0.756	
Ethylbenzene*	0.063	0.050	04/04/2013	ND	2.32	116	2.00	0.556	
Total Xylenes*	0.236	0.150	04/04/2013	ND	6.90	115	6.00	0.229	
Total BTEX	<0.300	0.300	04/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	115 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	04/02/2013	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	12.6	10.0	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	1420	10.0	04/02/2013	ND	178	88.8	200	10.9	
Surrogate: 1-Chlorooctane	87.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	124 9	63.6-15	4						

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Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

04/04/2013

Sampling Type:

Soil

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

Cool & Intact

Project Number:

701307.041.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: S - 17 2' (H300754-36)

BTEX 8021B	mg/	kg	Analyze	d By: AP					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2013	ND	2.02	101	2.00	0.606	
Toluene*	<0.050	0.050	04/04/2013	ND	2.23	112	2.00	0.756	
Ethylbenzene*	0.316	0.050	04/04/2013	ND	2.32	116	2.00	0.556	
Total Xylenes*	0.851	0.150	04/04/2013	ND	6.90	115	6.00	0.229	
Total BTEX	1.17	0.300	04/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIC	265 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	04/02/2013	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	121	50.0	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	2790	50.0	04/02/2013	ND	178	88.8	200	10.9	
Surrogate: 1-Chloroactane	96.5 9	65.2-14	0	_					
Surrogate: 1-Chlorooctadecane	148 %	63.6-15	4						

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Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

Sampling Type:

Soil

04/04/2013

Cool & Intact

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

Project Number:

701307,041.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: S - 18 (H300754-37)

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	04/04/2013	ND	2.02	101	2.00	0.606	
Toluene*	<0.050	0.050	04/04/2013	ND	2.23	112	2.00	0.756	
Ethylbenzene*	0.050	0.050	04/04/2013	ND	2.32	116	2.00	0.556	
Total Xylenes*	0.171	0.150	04/04/2013	ND	6.90	115	6.00	0.229	
Total BTEX	<0.300	0.300	04/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	123 9	% 89.4-12	6			<u> </u>		_	
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21200	16.0	04/02/2013	ИD	432	108	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	<50.0	50.0	04/02/2013	ND	180	90.1	200	9.90	
DRO >C10-C28	824	50.0	04/02/2013	ND	178	88.8	200	10.9	
Surrogate: 1-Chlorooctane	67.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	129	% 63.6-15	4.						

Sample ID: BACKGROUND 0' (H300754-38)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/02/2013	ND	432	108	400	0.00	

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Celeg D. Keine



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Received:

03/28/2013

Sampling Date:

03/27/2013

Reported:

04/04/2013

Sampling Type:

Soil

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Reporting Limit

Reporting Limit

16.0

Sampling Condition:

Cool & Intact

Project Number:

701307.041.01

Project Location:

Sample Received By:

Jodi Henson

Analyte

Analyte

SEC. 2 - T25S - R29E

Sample ID: BACKGROUND 5' (H300754-39)

Chloride, SM4500CI-B

mg/kg

Analyzed By: DW

% Recovery

True Value QC

RPD

0.00

0.00

Chloride

Result 128

04/02/2013 16.0

Method Blank ND

ND

BS 432

BS

432

108

400

Qualifier

Chloride

Sample ID: BADCKGROUND 10' (H300754-40)

Result

416

Chloride, SM4500CI-B

Analyzed By: DW

Analyzed

04/02/2013

Analyzed

Method Blank

% Recovery 108

True Value QC

400

RPD

Qualifier

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Celey L. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 14 of 19



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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Celeg D. Keine



101 East Marland, Hobbs, NM 86240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: - Tolog/LPE		,	8111170	10		A	ANALYSIS R	REQUEST		
Project Managor: n.hc STUSKdich	//	-	P.O. #:			į				
Address: 408 WIT TOXE AVE	Avc	"	Company: 7610.	10%						_
City: A.desia	State: NM.	Zip: 98210	Attn:							
Phone #: 525.44/-725	Fax #:		Address:					,		
Project #: 201307,041.01	Project Owner:		City:							
Project Name: Itarishas - Corral	L'CESTAL BATT	Hecy	State: Zip:	-		:				
Project Location: sec. 2, T25C R25E	-R25E	,	Phone #:	,			<u> </u>			
Sampler Name: mile & Local LL	77		Fax #:		اود					
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 ompany Name:	lobbs, NM 882 (575) 393-2476	8 W			.	. []			Hilli	1116	BILLTO	6						ANALYSIS	I _X	3 1	REQUEST	. INES	15		7	7-2	_ [
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 3992326

CARDINAL

101 East Marland, Hobbs, NM 83240 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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March 08, 2013

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: KARLSBAD CORRAL CENTRAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/07/13 15:10.

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_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.

Celeg & Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Fax To:

(575) 745-8905

Analyzed By: DW

Received:

03/07/2013

Sampling Date:

03/06/2013

Reported:

Chloride, SM4500Cl-B

03/08/2013

Sampling Type:

Soil

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

** (See Notes)

Project Number:

701307.041.01

mg/kg

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: S-4 4' (H300581-01)

		-							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	B\$	% Recovery	True Value QC	RPD	Qualifier
Chloride	15900	16.0	03/08/2013	ND	432	108	400	0.00	
Sample ID: S-4 5' (H300	0581-02)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15300	16.0	03/08/2013	ND	432	108	400	0.00	
Sample ID: S-4 6' (H300 Chloride, SM4500Cl-B	0581-03) mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15500	16.0	03/08/2013	ND	432	108	400	0.00	
Sample ID: S-4 7' (H300	0581-04)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11500	16.0	03/08/2013	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardinal's lability and client's exclusive remedy for any claim anising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be libile for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of prints incurred by client, its saiding, affiliates arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims to be performance on the performance of the services hereunder by Cardinal, regardless of whether such claims to be accepted in full with written approval of Cardinal Laboratones.

Celey D. Keene



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

Received:

03/07/2013

Sampling Date:

03/06/2013

Reported:

Sampling Type:

Chloride, SM4500Cl-B

03/08/2013

Project Name:

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

** (See Notes)

Project Number:

701307.041.01

mg/kg

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: S-4 8' (H300581-05)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12300	16.0	03/08/2013	ND	432	108	400	0.00	
Sample ID: S-4 10' (H3	00581-06)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	03/08/2013	ND	432	108	400	0.00	
Sample ID: S-4 12' (H30	00581-07)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: DW		·_ · · · · · · · · · · · · · · · · · ·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS ·	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	03/08/2013	ND	432	108	400	0.00	

Analyzed By: DW

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any other cause whatsoever shall be deemed welved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In one event shall Cardinal be liable for incidental or consequential dam including, without limitation, business interruptions, loss of uses of profits incurred by Cardinal within thirty (30) days after completion of the applicable service. In on event shall Cardinal be liable for incidental or consequential dam including, without limitation, business interruptions, loss of uses of loss of profits incurred by Cardinal, regardless of whether 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 remoduled event in full with written and an advantage of the services hereunder by Cardinal, regardless of whether PLEASE NOTE: Liability and Damages. Cardinal's Rability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and

Celen Keens



Notes and Definitions

Analyte NOT DETECTED at or above the reporting limit NΩ 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

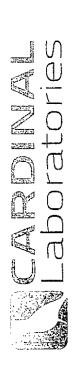
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

bs, NM 88240	75) 393-2476
101 East Marland, Hobbs, N	(575) 393-2326 FAX (575)
101 East	(575) 393

Company Name	Company Name: Talon 12PE		718	BILLTO		ANALYSIS REQUEST	
Project Manage	Project Manager: Pikk Stubble field		P.O. #:				
Address:	408 WORT TONGS AUC.		Company: Talon/LPE	100/LPE			
City:	Artegia State: NM. Zip: 88210	88210	Attn:				
Phone #:	۲.		Address:				
Project #: 🤊	Project Owner:	Lima Role Br. LCC	City:				
Project Name:	Project Name: Kailshad Cornal Central Battery		State: Z	Zip:			
Project Locatio	Project Location: sec. 2 - 7255 P252		Phone #:				
Sampler Name:	niers wallful		Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV.	SAMPLING			
Lab I.D.	Sample I.D.	ЯЭТАVVC ЯЭТАV	OF :3S:		ا دوروراط		
H.9006-44	8AR(0)	GROUNT BASTEV SOIL OIL OIL	АЗНТО АСІБ/ВА ОО \ ЗОІ ЯЗНТО	DATE TIME	10101		
5				3/6/13 4:60P			
2	5.4.5	7	4.	3/1/13 4:000			
w) -	S.4 6' 2		2	16/13 4:12P			
<u>ار</u>	5.4 9°	-	3	3/11/13 4:29/2	-	101 1	
<u>} ⊹</u>	2 - C C		9 IF)	3/1/13 4:351			
,-	ر در ادع ا			J 45055 Ell 11E			
			- '				
PLEASE NOTE: Lubility	PLEASE NOTE: Lubilly and Damages, Cardinals talkilly and client's exclusive remedy for any claim a	ansing whether hased in contract	t or tort, strall be basted to	ctains aresing whether hased in contract or fort, stratt be basted to the amount paid by the client for the			

analyses. All claims actuing those for negitjence and any other cause whatsoever stall be deemed where timed an webry and received by Cardinal within 30 days after completion of the applicant service. In no aventaball Cardinal be liable for inclinated or consequenced changes, including without limitation, within as therestions, loss of race, or lasts of profits incurred by effect. Its substitutions affiliates or successes anieng cut of or related to the posterinarize of sprices becented by Cardinal, repartities of whether such claim is passed twon ony of the above stated regions or althousies.

REMARKS: D Yes C No Add1 Fax#: REMARKS:	
1377 / Zo13 Roceived By: Unge: C C C C C C C C C C C C C C C C C C C	Sample Condition CHECKED BY: Cool Intact (Intigls) Cool Intact (Intigls) Cool Intact (Intigls)
Relinquished By: Relinquished By:	Delivered By: (Circle One) Sampler - UPS - Bus - Cthe)

† Cardinal cannot accept verbal changes. Please fax written changes to (575),393,2326

Page 5 of 5



September 21, 2012

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: KARLSBAD CORRAL CENTRAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/14/12 14:50.

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.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





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

Received:

09/14/2012

Sampling Date:

09/07/2012

Reported:

09/21/2012

Sampling Type:

Soil

KARLSBAD CORRAL CENTRAL BATTERY

Sampling Condition:

Cool & Intact

Project Name:

Project Number:

701307.041.01

Sample Received By:

Jodi Henson

Project Location:

SEC. 2 - T25S - R29E

Sample ID: S - 1 0' (H202235-01)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/20/2012	ND ·	1.84	92.0	2,00	13.8	
Toluene*	<0.050	0.050	09/20/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/20/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/20/2012	ND	6.32	105	6.00	9.78	
Surrogate: 4-Bromofluorobenzene (PIL	99.6	% 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	33600	16.0	09/20/2012	ND	400	100	400	3.92	
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	09/19/2012	ND	177	88.4	200	8.27	
DRO >C10-C28	<10.0	10.0	09/19/2012	ИD	172	86.1	200	12,5	
Surrogate: 1-Chlorooctane	77.4	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	74.6	% 63.6-15	i <i>4</i>						

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Celecy D. Keene