

May 7, 2015

Mr. Mike Bratcher

**NMOCD District 2** 

AMARILLO 92I North Bivins Amarillo. Texas 79107 Phone 806,467,0607

Fax 806.467.0622

811 S. 1<sup>st</sup> Street Artesia, NM 88210

Subject:

Soil Assessment and Remediation Work Plan (Revised)

Cimarex Energy

Parkway State Com #4H 30-015-37504 (2RP-2480)

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

Dear Mr. Bratcher

HOBBS 318 East Taylor Street

Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658 Cimarex Energy (Cimarex) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

### **Background Information**

MIDLAND 290I State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180 The Parkway State Com #4H is located approximately thirty (30) miles southeast of Artesia, New Mexico. The legal location for this site is Unit Letter H of Section 15, Township 19 South, and Range 29 East. More specifically the latitude and longitude for this site are 32.654322 North and -104.059509 West. A site plan is presented in Appendix I.

OKLAHOMA CITY 7700 North Hudson Avenue Suite IO Oklahoma City, Oklahoma 73II6 Phone 405.486.7030 Fax 806.467.0622

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Kimbrough-Stegall loams with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of middle to lower Pleistocene age alluvial deposits, piedmont areas and calcic soils with eolian cover sediments. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 100-feet below ground surface (bgs) according to the 2006 Chevron Texaco groundwater trend map.

SAN ANTONIO 13111 Lookout Way San Antonio, Texas 78233 Phone 210.265.8025 Fax 210.568.2191

The ranking for this site is 0 based on the following:

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

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742 www.talonlpe.com

### **Incident Description**

The well came in while stripping the flange and BOP over the string while working over the well. This caused a release of 15bbls of oil. The release flowed east across the location and into the pasture for approximately 56-feet. There was also a light overspray on the vegetation east-southeast of the location. The overspray is approximately 150-feet wide and 350-feet long. Talon mobilized personnel to conduct a site assessment and perform soil sampling activities. The results of our soil sampling activities are summarized in the table below.

### **Laboratory Results**

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	259	3200	2520	33100
S-1	1	182	416	1410	5880
S-1	2	ND		ND	ND
S-1	3	ND		ND	ND
S-2	0	ND	1960	ND	1110
S-2	1		592		
S-2	2	American	64		
S-2	1		ND		
S-3	0	40.4	976	1330	36100
S-3	1	ND	144	13.8	163
S-4	0	29.9	64	714	15300
S-4	1	0.556	ND	34.2	760
S-4	2	ND	64	ND	40.5
S-5overspray area	0	ND	16	ND	12

(ND) Analyte Not Detected

(--) Analyte Not Tested

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 1,000 mg/kg for chlorides.

### **Proposed Remedial Actions**

- The area in the vicinity of sample location S-1, S-2, S-3, and S-4 will be excavated to a depth of 1-foot bgs.
- The overspray area in the vicinity of S-5 will be treated with Micro-Blaze, a bio remediation agent to correct the hydrocarbon staining on the vegetation.
- The excavated areas on the location will be backfilled with caliche and the excavated area in the pasture will be backfilled with top soil. Once the excavation is backfilled everything will be contoured to match the surrounding location.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768.

Respectfully submitted,

Sheldon Hitchcock

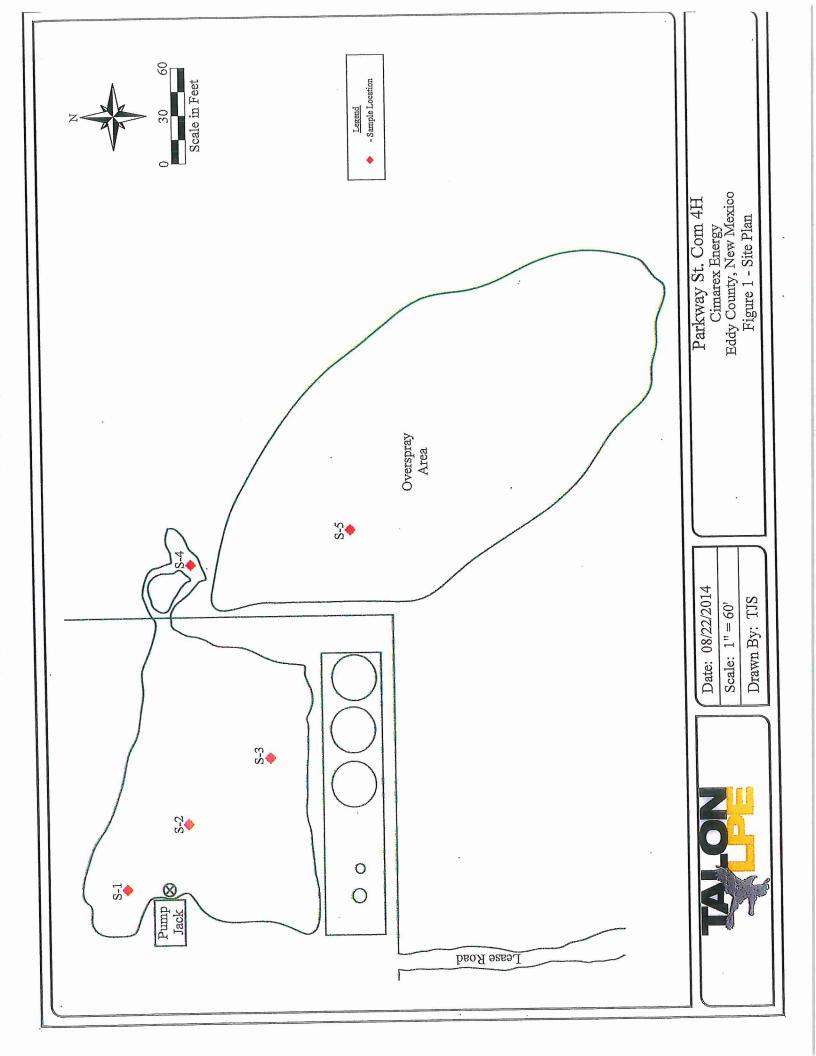
Project Manager

David J. Adkins

District Manager

1). Admis/Sm

## **SITE PLAN**



## **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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action														
NABI	425	13579	$\mathcal{A}$			OPERATOR Initial Report						Final Report		
Name of Co				1020	83	Contact Christine Alderman								
Address 60				dTX			lo. 432-853-70	59						
Facility Nan	ne Parkw	ay State Co	m 4			Facility Type Production								
Surface Ow	ner	***************************************		Mineral O	wner	er API No. 30-015-37504								
				LOCA	TIOI	OF REI	EASE							
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/\	East/West Line   County					
	15	198	29E			330			1650	Eddy				
THE RESERVE THE PROPERTY OF TH			1	Intitudo 22	*****		-104.059509			I. Luuy				
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Type of Bole			- * 1	<u>NAT</u>	URE	OF RELI								
Type of Relea	ase produce	ea water and o	011			12 bbls of l	Release 3 bbls co	rude	Volume F	Recovered 0	i			
Source of Rel	ease well	head		West Commission of the Commiss		Date and H	our of Occurrence	e		Hour of Dis	сочегу			
Was Immedia	te Notice C	liven?			<del></del>	8/11/14	Whom?		8/11/14					
Was Immediate Notice Given?  ☐ Yes ☐ No ☐ Not Required Mike Bratcher  ☐ If YES, To Whom?  ☐ Mike Bratcher														
By Whom?						Date and H	our 8/1	1/14						
Was a Watero	ourse Reac		V., 157	1 > -		If YES, Vo	lume Impacting t	he Wate	ercourse.	-				
☐ Yes ☑ No  If a Watercourse was Impacted, Describe Fully.*														
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Describe Area	Allected a	and Cleanup A	Action Tak	cn.*										
Contacted loc	al Environr	nental consul	ling agenc	y										
I hereby certif	y that the i	nformation gl	ven nhove	is true and compl	ete to th	e best of my	knowledge and u	ndersta	nd that purs	mant to NM	OCD ru	les and		
regulations all	l operators :	are required to	report ar	nd/or file certain re se of a C-141 repor	lease no	otifications ar	nd perform correct	tive act	ions for rela	eases which	may en	danger		
should their o	perations h	ave failed to a	idequately	investigate and re	mediate	contaminati	on that pose a thro	at to gr	ound water	, surface wa	ter, hur	nan health		
or the environ federal, state,	ment. In a	ddition, NMO	CD accep	tance of a C-141 r	eport do	es not reliev	the operator of r	esponsi	bility for c	ompliance w	ith any	other		
	<b>.</b>		•				OIL CONS	SERV	ATION	DIVISIO	N_			
Signature:	hust	ine al	dexi	man					//	7	<i>?</i> *	)		
Oignature. C						Anneauad hu	Environmental St	.aaialia	. //	_				
Printed Name	: Christine	Alderman				approved by	Environmental S	-/-	170	up-	2			
Title: ESH St	pervisor					Approval Date	e: 9/19/	14	Expiration 1	Date:	VA			
						3.1	7-7							
E-mail Addres	ss: caldern	an@cimarex.	com		Conditions of Approval:									
Date: 8/15/				32-853-7059	R	emediation	per OCD Rule							
Attach Addit	ional Shee	ts If Necess	ary		S	JBMIT REM	TEDIATION PRO				110	00100		
LATER THAN: 2RP-248C														



August 27, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PARKWAY ST. COM 4H

Enclosed are the results of analyses for samples received by the laboratory on 08/21/14 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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 & Keens

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

Received:

08/21/2014

Sampling Date:

08/20/2014

Reported:

DTEV 0031D

08/27/2014

Sampling Type:

Soil

Project Name:

PARKWAY ST. COM 4H

Sampling Condition:

Cool & Intact

C-04

Project Number:

701162.066.01

ma /lea

Project Location:

NOT GIVEN

Sample Received By:

Kathy Perez

### Sample ID: S-1 0' (H402571-01)

BTEX 8021B	mg,	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.39	1.00	08/25/2014	ND	2.04	102	2.00	7.31	
Toluene*	68.3	1.00	08/25/2014	ND	2.06	103	2.00	7.33	
Ethylbenzene*	52.8	1.00	08/25/2014	ND	2.09	104	2.00	7.14	
Total Xylenes*	133	3.00	08/25/2014	ND	6.44	107	6.00	6.96	
Total BTEX	259	6.00	08/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	157	% 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	3200	16.0	08/26/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2520	100	08/25/2014	ND	196	98.2	200	1.17	
DRO >C10-C28	33100	100	08/25/2014	ND	211	106	200	2.94	
Surrogate: 1-Chlorooctane	215	% 65.2-14	0				AV - 2 - 4 - 5 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6		
Surrogate: 1-Chlorooctadecane	930	% 63.6-15	4						

Analyzed But CV

### Cardinal Laboratories

\*=Accredited Analyte

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Celey & Kreens



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

Received:

08/21/2014

Reported:

08/27/2014

Project Name:

Project Number:

Project Location:

PARKWAY ST. COM 4H

701162.066.01 NOT GIVEN

Sampling Date:

08/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-1 1' (H402571-02)

BTEX 8021B	mg	/kg	Analyze	d By: CK					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.49	0.200	08/25/2014	ND	2.04	102	2.00	7.31	
Toluene*	46.5	0.200	08/25/2014	ND	2.06	103	2.00	7.33	
Ethylbenzene*	39.4	0.200	08/25/2014	ND	2.09	104	2.00	7.14	
Total Xylenes*	94.7	0.600	08/25/2014	ND	6.44	107	6.00	6.96	
Total BTEX	182	1.20	08/25/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	261	% 89.4-12	6						
Chloride, SM4500CI-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	08/26/2014	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1410	50.0	08/25/2014	ND	196	98.2	200	1.17	
DRO >C10-C28	5880	50.0	08/25/2014	ND	211	106	200	2.94	
Surrogate: 1-Chlorooctane	166	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	200	% 63.6-15	4						

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Received:

08/21/2014

Sampling Date:

08/20/2014

Reported:

08/27/2014

Sampling Type:

Soil

Project Name:

PARKWAY ST. COM 4H

Sampling Condition:

Cool & Intact

Project Number:

701162.066.01

Sample Received By:

Kathy Perez

Project Location:

NOT GIVEN

Sample ID: S-2 0' (H402571-03)

BTEX 8021B	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2014	ND	1.82	91.1	2.00	6.10	
Toluene*	0.181	0.050	08/26/2014	ND	1.70	84.9	2.00	5.49	
Ethylbenzene*	0.058	0.050	08/26/2014	ND	1.92	95.8	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/26/2014	ND	5.67	94.5	6.00	4.97	
Total BTEX	<0.300	0.300	08/26/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	08/26/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2014	ND	196	98.2	200	1.17	
DRO >C10-C28	1110	10.0	08/25/2014	ND	211	106	200	2.94	
Surrogate: 1-Chlorooctane	102 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	136	% 63.6-15	4						

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Celley D. Keens



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

Received:

08/21/2014

Reported:

08/27/2014

Project Name:

PARKWAY ST. COM 4H

Project Number: Project Location:

701162.066.01

NOT GIVEN

Sampling Date:

08/20/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By:

Cool & Intact

Kathy Perez

### Sample ID: S-3 0' (H402571-04)

BTEX 8021B	mg/kg		Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/26/2014	ND	1.82	91.1	2.00	6.10	
Toluene*	2.76	1.00	08/26/2014	ND	1.70	84.9	2.00	5.49	
Ethylbenzene*	9.46	1.00	08/26/2014	ND	1.92	95.8	2.00	4.27	
Total Xylenes*	28.2	3.00	08/26/2014	ND	5.67	94.5	6.00	4.97	
Total BTEX	40.4	6.00	08/26/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	08/26/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1330	100	08/25/2014	ND	196	98.2	200	1.17	
DRO >C10-C28	36100	100	08/25/2014	ND	211	106	200	2.94	
Surrogate: 1-Chlorooctane	209 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	948	% 63.6-15	4						

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Celey D. Keens



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

Γαλ

Reported: 08/27/2014

Project Name: PARKWAY ST. COM 4H

Project Number: 701162.066.01

Project Location: NOT GIVEN

08/21/2014 Sampling Date:

Sampling Date: 08/20/2014 Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Kathy Perez

Sample ID: S-3 1' (H402571-05)

Received:

BTEX 8021B	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2014	ND	1.82	91.1	2.00	6.10	
Toluene*	<0.050	0.050	08/26/2014	ND	1.70	84.9	2.00	5.49	
Ethylbenzene*	<0.050	0.050	08/26/2014	ND	1.92	95.8	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/26/2014	ND	5.67	94.5	6.00	4.97	
Total BTEX	<0.300	0.300	08/26/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/26/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.8	10.0	08/25/2014	ND	196	98.2	200	1.17	
DRO >C10-C28	163	10.0	08/25/2014	ND	211	106	200	2.94	
Surrogate: 1-Chlorooctane	110 9	65.2-14	0	,					
Surrogate: 1-Chlorooctadecane	130 9	63.6-15	4						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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

Received:

08/21/2014

Sampling Date:

08/20/2014

Reported:

08/27/2014

Sampling Type:

Soil

Project Name:

PARKWAY ST. COM 4H

Sampling Condition:

Cool & Intact

Project Number:

701162.066.01

Project Location:

NOT GIVEN

Sample Received By:

Kathy Perez

### Sample ID: S-4 0' (H402571-06)

BTEX 8021B	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	08/26/2014	ND	1.82	91.1	2.00	6.10	
Toluene*	0.693	0.500	08/26/2014	ND	1.70	84.9	2.00	5.49	
Ethylbenzene*	5.57	0.500	08/26/2014	ND	1.92	95.8	2.00	4.27	
Total Xylenes*	23.7	1.50	08/26/2014	ND	5.67	94.5	6.00	4.97	
Total BTEX	29.9	3.00	08/26/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1165	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/26/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	714	100	08/25/2014	ND	196	98.2	200	1.17	
DRO >C10-C28	15300	100	08/25/2014	ND	211	106	200	2.94	
Surrogate: 1-Chlorooctane	154	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	394	% 63.6-15	4						

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\*=Accredited Analyte

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Celeg & Keens



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

Received: Reported: 08/21/2014

08/27/2014

08/27/2014 PARKWAY ST. COM 4H

Project Name: Project Number:

701162.066.01

Project Location:

NOT GIVEN

Sampling Date:

ampling bate.

Sample Received By:

08/20/2014

Sampling Type: Sampling Condition:

Soil Cool & Intact

Kathy Perez

Sample ID: S-4 1' (H402571-07)

BTEX 8021B	mg/kg		Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2014	ND	1.82	91.1	2.00	6.10	
Toluene*	<0.050	0.050	08/26/2014	ND	1.70	84.9	2.00	5.49	
Ethylbenzene*	0.052	0.050	08/26/2014	ND	1.92	95.8	2.00	4.27	
Total Xylenes*	0.504	0.150	08/26/2014	ND	5.67	94.5	6.00	4.97	
Total BTEX	0.556	0.300	08/26/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/26/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	34.2	10.0	08/25/2014	ND	196	98.2	200	1.17	
DRO >C10-C28	760	10.0	08/25/2014	ND	211	106	200	2.94	
Surrogate: 1-Chlorooctane	109 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	123 9	63.6-15	4						

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TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed Burck

Received:

RTEV SOCIE

08/21/2014

Reported:

08/27/2014

Project Name:

PARKWAY ST. COM 4H

Project Number: Project Location: 701162.066.01 NOT GIVEN

ma/ka

Sampling Date:

08/20/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Kathy Perez

Sample ID: S-4 2' (H402571-08)

BTEX 8021B	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2014	ND	1.82	91.1	2.00	6.10	
Toluene*	<0.050	0.050	08/26/2014	ND	1.70	84.9	2.00	5.49	
Ethylbenzene*	<0.050	0.050	08/26/2014	ND	1.92	95.8	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/26/2014	ND	5.67	94.5	6.00	4.97	
Total BTEX	<0.300	0.300	08/26/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	% 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	64.0	16.0	08/26/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2014	ND	196	98.2	200	1.17	
DRO >C10-C28	40.5	10.0	08/25/2014	ND	211	106	200	2.94	
Surrogate: 1-Chlorooctane	108 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	123 9	% 63.6-15	4						

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Fax To:

(575) 745-8905

Received:

08/21/2014

Sampling Date:

08/20/2014

Reported:

08/27/2014

Sampling Type:

Soil

Project Name:

PARKWAY ST. COM 4H

Sampling Condition:

Cool & Intact

Project Number:

Project Location:

701162.066.01

NOT GIVEN

Sample Received By:

Kathy Perez

### Sample ID: S-5 0' (H402571-09)

BTEX 8021B	mg/	kg	Analyze	d By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2014	ND	1.82	91.1	2.00	6.10	
Toluene*	<0.050	0.050	08/26/2014	ND	1.70	84.9	2.00	5.49	
Ethylbenzene*	<0.050	0.050	08/26/2014	ND	1.92	95.8	2.00	4.27	
Total Xylenes*	<0.150	0.150	08/26/2014	ND	5.67	94.5	6.00	4.97	
Total BTEX	<0.300	0.300	08/26/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/26/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2014	ND	196	98.2	200	1.17	
DRO >C10-C28	12.0	10.0	08/25/2014	ND	211	106	200	2.94	
Surrogate: 1-Chlorooctane	115 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	128 9	63.6-15	4						

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Celey D. Keene



### **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 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

Cardinal Laboratories

\*=Accredited Analyte

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

7	(313) 3332340 1 77 (313) 330 271 3	١				-					7	7	1			
Company Name: Talon/LPE	Talon/LPE				The state of the s		1		NAL	100	200	ANALTSIS KEWUESI	ľ			
Project Manager: D. Adkins	D. Adkins			P.O. #:												
Address: 408 \	Address: 408 W. Texas Ave.			company: Talon/LPE	LPE											
city: Artesia	State: NM Zip: 88210	zip:	88210	Attn:												
Phone #: 575-746-8768	746-8768 Fax #: 575-746-8905	46-	8905	Address:												
Project #: 701162.066.01	62.066.01 Project Owner: Cimarex	Ci.	narex	City:			7							į		
Project Name: P	Project Name: Parkway St. Com 4H			State: Zip:												
Project Location:				Phone #:												
Sampler Name: S.	3. Hitchcock			Fax #:												
A INC SIST BY LEGG		4	MATRIX	PRESERV. SAN	SAMPLING		_									
FOR DE DECORES		-	ER R				 es							`		
Lab I.D.	Sample I.D.	RAB OR (C)	CONTAINERS ROUNDWATE ASTEWATER DIL	LUDGE THER: CID/BASE: E/COOL THER:	TPH	BTEX	Chloride									
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	5-50	0	-		1:33	1	+		1							
	Tablish and climate perkins to a constant of the constant of t		arraing whether based in co	entract or tort, shall be limited to the amo	unt paid by the client for the	-	ŀ	f	I	ľ						I
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Ca	PLEASE NOTE: Liability and Damages. Cardenals liability and client sectulated remote your lawy users assess on the control of the applicable analyses. All claims including those for negligence and any other cardes withouter shall be deemed where the liability and the control of the properties of the state of the control of the supplicable service. In no event shall Cardenal be liabile for incidental or consequential damages, including when the material cardenal be liabile for incidental or consequential damages, including when the limitation, business interruptions, loss of last, or loss of profits neutred by client, its subdistance, service, in no event shall Cardenal be liabile for incidental or consequential damages, including without limitation, business interruptions, loss of last, or loss of profits neutred by client, its subdistance, and the liability of the consequential damages, including without limitation, business interruptions, loss of last, or loss of profits neutred by client, its subdistance, and the liability neutred by client, and the liability neutred by client neutred by client, and the liability neutred by client neutred by client neutred	without	waived unless made in writi limitation, business interrup	ng and received by Cardinal within 30 di tions, loss of use, or loss of profits incurr	lys after completion of the app ed by client, its subsidiaries, and reasons or otherwise.	licable										
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Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Relinquished By:

Time: 20

wed By:

CHECKED BY: (Initials)



May 06, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: PARKWAY ST. COM 4H

Enclosed are the results of analyses for samples received by the laboratory on 04/29/15 11:39.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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 SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

04/29/2015

Reported:

05/06/2015

Project Name:

PARKWAY ST. COM 4H

Project Number: Project Location:

701167.066.01 NOT GIVEN

93.1 %

91.7%

47.2-157

52.1-176

Sampling Date:

04/29/2015

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

Sample ID: S-1 2' (H501121-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2015	ND	2.03	101	2.00	5.73	
Toluene*	<0.050	0.050	05/01/2015	ND	2.25	112	2.00	5.72	
Ethylbenzene*	<0.050	0.050	05/01/2015	ND	2.05	103	2.00	5.17	
Total Xylenes*	<0.150	0.150	05/01/2015	ND	6.19	103	6.00	5.71	
Total BTEX	<0.300	0.300	05/01/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 %	61-154							
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	04/30/2015	ND	193	96.3	200	6.35	
DRO >C10-C28	<10.0	10.0	04/30/2015	ND	195	97.6	200	8.88	

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Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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

Received:

04/29/2015

Reported:

05/06/2015

Project Name:

PARKWAY ST. COM 4H

Project Number: Project Location:

701167.066.01 NOT GIVEN Sampling Date:

04/29/2015

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By: Joe

Jodi Henson

Sample ID: S-1 3' (H501121-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/01/2015	ND	2.03	101	2.00	5.73	
Toluene*	<0.050	0.050	05/01/2015	ND	2.25	112	2.00	5.72	
Ethylbenzene*	<0.050	0.050	05/01/2015	ND	2.05	103	2.00	5.17	
Total Xylenes*	<0.150	0.150	05/01/2015	ND	6.19	103	6.00	5.71	
Total BTEX	<0.300	0.300	05/01/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 61-154							
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	04/30/2015	ND	193	96.3	200	6.35	
DRO >C10-C28	<10.0	10.0	04/30/2015	ND	195	97.6	200	8.88	
Surrogate: 1-Chlorooctane	97.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.3	% 52.1-17	6						

### Sample ID: S-2 1' (H501121-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	05/05/2015	ND	432	108	400	0.00	

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\*=Accredited Analyte

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Fax To:

(575) 745-8905

Received:

04/29/2015

Reported:

05/06/2015

Project Name:

PARKWAY ST. COM 4H

Project Number: Project Location:

701167.066.01

NOT GIVEN

Sampling Date:

BS

432

04/29/2015 Soil

Sampling Type: Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

### Sample ID: S-2 2' (H501121-04)

Cl-I I -	CMAPOOCI D
Chioride	. SM4500CI-B

Chloride

Chloride

mg/kg

16.0

Reporting Limit

16.0

Analyzed By: AP

Analyte

Reporting Limit Result

64.0

Result

<16.0

05/05/2015

Analyzed Method Blank

% Recovery

108

108

True Value QC

400

**RPD** 

0.00

0.00

Qualifier

Sample ID: S-2 3' (H501121-05)

Chloride,	SM4500CI-B

Analyte

mg/kg

Analyzed By: AP

Analyzed

05/05/2015

Method Blank ND

ND

BS % Recovery 432

True Value QC 400

**RPD** 

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg Ditreme



### **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

Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(212) 222 - 222 (212) 222 - 212		
Company Name: Talon/LPE	BILL TO	ANALYSIS REQUEST
Project Manager: S, Hitch, Coch	P.O. #:	
Address: 408 W. Texas Ave.	Company: Talon/LPE	
city: Artesia state: NM zip: 88210	zip: 88210 Attn:	
Phone #: 575-746-8768 Fax #: 575-746-8905	46-8905 Address:	
10,5	Project Owner: () (A MA City:	
e: Parilimay St.	State: Zip:	
Project Location:	Phone #:	
sampler Name: 5, Hit Chack	Fax #:	
FOR LAB USE ONLY	MATRIX PRESERV. SAMPLING	
	ERS ATER ER	ride
Lab I.D. Sample I.D.	G)RAB OF CONTAIN GROUNDY VASTEWA GOIL DIL GLUDGE DTHER: ACID/BASI OE / COO DTHER: DATE	TP
5-12		
200	G 1 / / / / 4:23	
36-7.1	Q17 / 19	
4 2 2 2	6 1 / / ) 4:32	
55-23	6 1 ( 4:34	
PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arraing whether based in contract or too, shall be limited to the amount paid by the client for the 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 30 days size completion of the applicable	ry claim arrang whether based in contract or tort, shall be limited to the amount paid by the clie reemed waived unless made in writing and received by Cardinal within 30 days after completion the completion of the completion of the completion of the completion of the client is said.	nt for the on the policible of the polic
surrice. It is great stress of the above stated reasons or otherwise.	and the provided of whether each claim is based aron any of the above stated reasons or oth	Acidea

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

Sample Condition
Cool Intact
Pres Pres
No No

CHECKED BY:

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

Relinquished By:

Time: 39

Received By:

Received By:

Phone Result:
Fax Result:
REMARKS:

☐ Yes ☐ No Add'I Phone #:

Time: