

February 10, 2016

Mr. Mike Bratcher **NMOCD District 2** 811 S. 1st Street Artesia, NM 88210

Subject:

Soil Assessment and Remediation Work Plan

Devon Energy Corporation Cotton Draw Unit #135 30-015-38533 2RP-3437

Dear Mr. Bratcher,

Devon Energy 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.

Incident Date

The date of release was November 30, 2015

Background Information

The Cotton Draw Unit #135 is located approximately forty-five (45) miles southeast of Carlsbad, New Mexico. The legal location for this site is Unit Letter N, Section 2, Township 25 South and Range 31 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.15270 North and - 103.75207 West. The site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Berino complex with 0 to 3 percent slopes, eroded. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 860-feet below ground surface (bgs) according to the New Mexico Office of the State Engineer. See Appendix II for the referenced groundwater data.

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'

Incident Description

On November 30, 2015 the pump housing on the LACT unit malfunctioned causing 110 barrels of oil to be released from the tanks. All fluids remained on location north of the LACT unit. The valves on the oil tanks were shut in to prevent further oil to be released. A vac truck was immediately called to the location and recovered 100 barrels of oil. The pump was repaired on the LACT unit and put back into service.

Actions Taken

On February 3, 2015 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to depths from surface to 4-feet below ground surface. Laboratory results from the soil sampling event are summarized in the table below and the sample locations are shown on the attached site plan.

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.

Laboratory Results, See Appendix III for complete report of laboratory results.

February 5, 2016

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	321	80	4580	13600
	1'	1.55	32	42.2	257
	2'	36.8	48	459	2220
-12	3'	< 0.300	192	13.4	149
	4'	0.545	176	35.3	259
S-2	0,	211	48	3050	5820
	1'	< 0.300	48	<10	68.7
	2'	0.578	112	<10	44.3
S-3	0'	2.82	96	23.5	1440
	1'	< 0.300	48	<10	<10
	2'	< 0.300	48	<10	12.1
S-4	0'	298	<16	4170	15200
	1'	2.54	<16	56.8	313
	2'	3.69	<16	76.1	321
	3'	1.23	<16	<10	38.5

Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, and 5,000 mg/kg for TPH. The chloride standard is considered to be 1,000 mg/kg.

Proposed Remedial Actions

- The impacted areas will be treated with high nitrogen fertilizer and mircoblaze (a bioremediation agent). Confirmation samples will be collected after 60 to 90 days to verify effectiveness of treatment. Multiple applications may be needed depending on the analytical results.
- Upon NMOCD and BLM approval of the confirmation samples, the impacted area will be seeded with the recommended seed mix for the area.
- A final closure report documenting all remedial actions and analytical results will be provided to the BLM and NMOCD Artesia Office along with a Final C-141 Form.

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

Respectfully submitted,

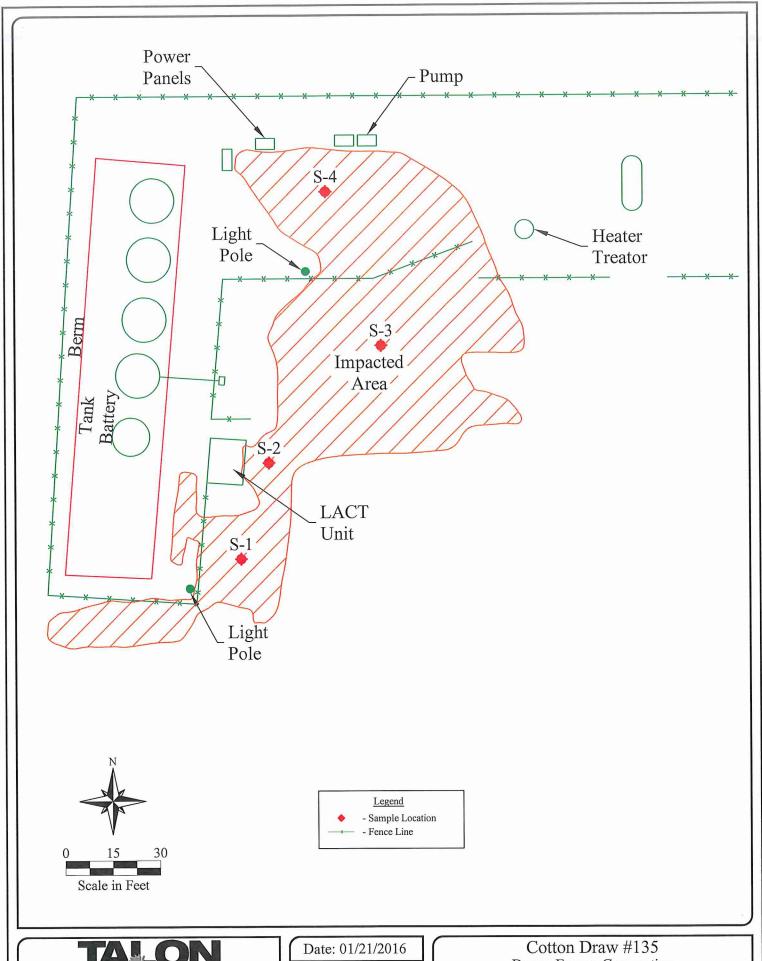
TALON/LPE

Kimberly M. Wilson
Kimberly M. Wilson

Project Manager

David J. Adkins District Manager

APPENDIX I SITE MAP





Scale: 1" = 30'

Drawn By: TJS

Cotton Draw #135 Devon Energy Corporation Eddy County, New Mexico Figure 1 - Site Plan

APPENDIX II 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 are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

Water right mory	0.000,								200 20				
	POD Sub-		Q	Q	Q							Depth	Depth Water
POD Number	Code basin	County				Sec 1	Tws	Rng	X	Y	Distance	Well	Water Column
C 02574		ED						31E	618092	3559494* 🌑	853		
C 02571		ED	4	1	2	02	25S	31E	618292	3559294* 🌑	898	860	
C 02573		ED	1	4	2	02	25S	31E	618499	3559091* 🌑	1029		
C 02569		ED	4	4	2	02	25S	31E	618699	3558891* 🌑	1210	1016	
C 03830 POD1	CUB	ED	4	2	4	02	25S	31E	618632	3558432 🌑	1231	450	
C 02572		ED	4	2	2	02	25S	31E	618695	3559294* 🌑	1271	852	
C 02570		ED	4	2	4	02	25S	31E	618704	3558489*	1279	895	
C 02568		ED	4	3	1	01	25S	31E	619103	3558892* 🌑	1614	1025	

Average Depth to Water:

Minimum Depth:

Maximum Depth: --

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 617489

Northing (Y): 3558890

Radius: 3000

*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.

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico Energy Minerals and Natural Resources

> Oil Conservation Division 1220 South St. Francis Dr.

DEC 0 8 2015

Form C-141 Revised August 8, 2011

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

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

Santa Fe, NM 87505

Release Notification and Corrective Action

NABLE	5344!	51906		 		OPERATOR Initial Report Final Repo							
				ion Company L					on Forema	n			
		Rivers Hwy		NM 88210			No. 575-513-489	95					
Facility Na	me Cotton	Draw Unit	135H			Facility Typ	pe OII						
Surface Ow	ner Fede	ral		Mineral ()wner	State			API No	30-015-3	8533		
				LOCA	TION	OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/\	Vest Line	County			
N	2	25S	31E	200	S	outh	1600	\	Vest	Eddy			
		L	atitude:	N 32°15°27.67°		Lon	gitude: W -103	3175120),49"				
				NAT	URE (OF RELI	EASE						
Type of Rele	ase Spill					Volume of			Volume I	Recovered			
Oil						110bbls			100bbls	·			
Source of Re							Hour of Occurrer 30, 2015 10:17 A			Hour of Di r 30, 2015 1			
Was Immedi		unit split in to	wo			If YES, To		IVI	Novembe	1 30, 2013 1	U:17 A	IVI	
TYMS IIIIICU	1101100		Yes [No 🔲 Not Re	quired	Kellie Jone							
						Jim Amos,							
By Whom?	Analatana D					Date and I		- 1 201	15 10.15 A7				
Mail Netties,	Assistant P	roduction For	eman				es, OCD December BLM December			VL			
Was a Water	rcourse Re	ached?					olume Impacting	·					
			Yes 🗵	No		N/A							
If a Waterco N/A	urse was I	mpacted, Des	cribe Ful	ly.*									
Pump housin	g on the LA		split in two	tion Taken.* o causing the oil frump was repaired.		anks to spill	over. This caused	la 110b	bl oil relea	se. The valv	e on the	e oil tank	
110bbls of oi All released t	l was releas Iuid remain	ed on location	th, North n. Environ	West side of the fa mental agency to	be conta	cted for remo	ediation.						
regulations at public health should their of or the environ	II operators or the envi operations h nment. In a	are required to ronment. The lave failed to	o report and acceptant accuately OCD accep	is true and complete is true and complete certain rece of a C-141 report investigate and restance of a C-141	clease no rt by the emediate	otifications a NMOCD m contaminati	nd perform correct arked as "Final R ion that pose a three the operator of	tive act eport" of eat to grespons	ions for rel- loes not rel- round water ibility for c	eases which ieve the oper r, surface wa ompliance w	may er rator of iter, hu vith any	ndanger f liability man health	
Signature: C	orina h	loya					OIL CON		ATION P./	DIVISIO	<u>N</u>		
Printed Name	e: Corina N	1oya				Approved by	Signed By Environmental S	pecialis	1/4 <i>£</i>),c t:	SHOULEN			
Title: Field A	Admin Sup	port				Approval Date: 12/10/15 Expiration Date: N/A							
E-mail Addre	ess: corina.	moya@dvn.c	com			Conditions of Approval:							
				746 5505		Remediation per O.C.D. Rules & Guidelinesched							
	12.3.2015	ets If Necess	hone: 575		SUBMIT REMEDIATION PROPOSAL NO								
Anach Addi	nonai 2ue	ers if inecess	sary	59		LATER TH	IAN:IAN				100	2.3437	

APPENDIX III LABORATORY RESULTS



February 05, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #135

Enclosed are the results of analyses for samples received by the laboratory on 02/04/16 10:40.

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

Cardinal Laboratories is 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. 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
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

02/04/2016

Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number: Project Location:

700794.177.01

EDDY COUNTY, NM

Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-1 0' (H600250-01)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	18.5	2.00	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	117	2.00	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	28.7	2.00	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	157	6.00	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	321	12.0	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 73.6-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/05/2016	ND	416	104	400	3.77	
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	4580	100	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	13600	100	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	191	% 35-147	7						
Surrogate: 1-Chlorooctadecane	287	% 28-17.	!						

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*=Accredited Analyte

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Celey D. Keene



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

Received:

02/04/2016

Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number:

Project Location:

700794.177.01 EDDY COUNTY, NM Sampling Date:

sampling bate.

02/03/2016

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact

Jodi Henson

Sample ID: S-1 1' (H600250-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.108	0.050	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	0.437	0.050	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	0.175	0.050	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	0.827	0.150	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	1,55	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	% 73.6-14	10						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/05/2016	ND	416	104	400	3.77	
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	42.2	10.0	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	257	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	87.6	% 35-14	7						
Surrogate: 1-Chlorooctadecane	92.8	% 28-17.	1						

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Celey D. Keine



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

02/04/2016

Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number:

Project Location:

700794.177.01 EDDY COUNTY, NM

105 %

28-171

Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 2' (H600250-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.678	0.200	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	9.37	0.200	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	4.23	0.200	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	22.5	0.600	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	36.8	1.20	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	123	% 73.6-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/05/2016	ND	416	104	400	3.77	
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	459	10.0	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	2220	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	108	% 35-147	7						

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Surrogate: 1-Chlorooctadecane

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

Received:

02/04/2016

Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number:

700794.177.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 3' (H600250-04)

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	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	0.065	0.050	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	<0.050	0.050	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	<0.150	0.150	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	<0.300	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/05/2016	ND	416	104	400	3.77	
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	13.4	10.0	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	149	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	77.2	% 35-147	7						
Surrogate: 1-Chlorooctadecane	79.9	% 28-171	1						

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TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

02/04/2016

Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number: Project Location: 700794.177.01

EDDY COUNTY, NM

Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 4' (H600250-05)

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	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	0.092	0.050	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	0.065	0.050	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	0.388	0.150	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	0.545	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	02/05/2016	ND	416	104	400	3.77	
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	35.3	10.0	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	259	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	78.3	% 35-147	7						
Surrogate: 1-Chlorooctadecane	83.2	% 28-171							

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*=Accredited Analyte

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Celey D. Keens



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

Received:

02/04/2016

Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number:

700794.177.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

ampling Date.

02/03/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-2 0' (H600250-06)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	7.95	2.00	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	66.0	2.00	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	21.4	2.00	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	116	6.00	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	211	12.0	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 73.6-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/05/2016	ND	416	104	400	3.77	
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	3050	10.0	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	5820	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	132	% 35-147	7						
Surrogate: 1-Chlorooctadecane	128	% 28-17.	1						

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Received:

02/04/2016

Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number: Project Location:

700794.177.01

EDDY COUNTY, NM

Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-2 1' (H600250-07)

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	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	0.110	0.050	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	<0.050	0.050	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	<0.150	0.150	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	<0.300	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/05/2016	ND	448	112	400	7.41	
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	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	68.7	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	72.6	% 35-147	7						
Surrogate: 1-Chlorooctadecane	78.2	% 28-17.	1						

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Received:

02/04/2016

Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number:

700794.177.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-2 2' (H600250-08)

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	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	0.165	0.050	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	0.091	0.050	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	0.323	0.150	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	0.578	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 73.6-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride									
Chloride	112	16.0	02/05/2016	ND	448	112	400	7.41	
TPH 8015M	112 mg,		* *	ND d By: MS	448	112	400	7.41	
			* *		448 BS	112 % Recovery	400 True Value QC	7.41 RPD	Qualifier
TPH 8015M	mg	/kg	Analyze	d By: MS				3 50 500	Qualifier
TPH 8015M Analyte	mg, Result	/kg Reporting Limit	Analyze Analyzed	d By: MS Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 8015M Analyte GRO C6-C10	Result	Reporting Limit 10.0 10.0	Analyzed 02/04/2016 02/04/2016	Method Blank	BS 195	% Recovery 97.5	True Value QC	RPD 3.79	Qualifier

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Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number:

700794.177.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 0' (H600250-09)

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	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	0.881	0.050	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	0.282	0.050	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	1.65	0.150	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	2.82	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/05/2016	ND	448	112	400	7.41	
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	23.5	10.0	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	1440	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	79.7	% 35-14	7						
Surrogate: 1-Chlorooctadecane	98.7	% 28-17.	l						

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Project Name:

COTTON DRAW #135

Project Number:

700794.177.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-3 1' (H600250-10)

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	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	0.076	0.050	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	<0.050	0.050	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	<0.150	0.150	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	<0.300	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/05/2016	ND	448	112	400	7.41	
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	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	<10.0	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	69.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	74.9	% 28-171							

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Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number: Project Location:

700794.177.01 EDDY COUNTY, NM Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-3 2' (H600250-11)

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	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	<0.050	0.050	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	<0.050	0.050	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	<0.150	0.150	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	<0.300	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/05/2016	ND	448	112	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS				6.13 6.19 6.05 5.65	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	12.1	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	71.1 9	% 35-147	7						
Surrogate: 1-Chlorooctadecane	72.2	% 28-171	1						

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02/04/2016

700794.177.01

02/05/2016 Reported:

COTTON DRAW #135 Project Name:

Project Number:

Received:

EDDY COUNTY, NM Project Location:

Sampling Date:

02/03/2016

Sampling Type:

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Soil

Sample ID: S-4 0' (H600250-12)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	19.2	2.00	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	114	2.00	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	25.8	2.00	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	140	6.00	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	298	12.0	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/05/2016	ND	448	112	400	7.41	
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	4170	100	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	15200	100	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	161	% 35-147	7						
Surrogate: 1-Chlorooctadecane	356	% 28-17.	1						

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Project Name:

COTTON DRAW #135

Project Number:

700794.177.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-4 1' (H600250-13)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.140	0.050	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	0.659	0.050	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	0.269	0.050	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	1.47	0.150	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	2.54	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/05/2016	ND	448	112	400	7.41	
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	56.8	10.0	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	313	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	80.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	86.0	% 28-17.							

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Fax To:

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Received:

02/04/2016

Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number: Project Location:

700794.177.01 EDDY COUNTY, NM Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Sample ID: S-4 2' (H600250-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.122	0.050	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	0.935	0.050	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	0.397	0.050	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	2.24	0.150	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	3.69	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 73.6-14	0						
Chloride, SM4500Cl-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	02/05/2016	ND	448	112	400	7.41	
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	76.1	10.0	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	321	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	75.8	% 35-147	7						
Surrogate: 1-Chlorooctadecane	74.2	% 28-17.	1						

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Reported:

02/05/2016

Project Name:

COTTON DRAW #135

Project Number: Project Location: 700794.177.01 EDDY COUNTY, NM Sampling Date:

02/03/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

By:

Sample ID: S-4 3' (H600250-15)

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	02/05/2016	ND	2.05	102	2.00	6.13	
Toluene*	0.238	0.050	02/05/2016	ND	2.01	100	2.00	6.19	
Ethylbenzene*	0.160	0.050	02/05/2016	ND	1.83	91.6	2.00	6.05	
Total Xylenes*	0.827	0.150	02/05/2016	ND	5.54	92.3	6.00	5.65	
Total BTEX	1.23	0.300	02/05/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIE 109 % 73.6-1		% 73.6-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/05/2016	ND	448	112	400	7.41	
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	02/04/2016	ND	195	97.5	200	3.79	
DRO >C10-C28	38.5	10.0	02/04/2016	ND	199	99.3	200	2.63	
Surrogate: 1-Chlorooctane	70.1	% 35-147	7						
Surrogate: 1-Chlorooctadecane	68.8	% 28-17	1						

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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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature,

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	iast Marland, Ho 393-2326 FAX (Jon/LPE Innberty Will Texas Ave. Texas Ave. 400 Day	BIL 10	ANALYSIS REQUEST
ampler Name:	Wils	Fax#:	
FOR I'VB USE ONLY		ER ER	
Lab I.D.	Sample I.D.	E)RAB OR (C)O CONTAINERS BROUNDWATE WASTEWATER SOIL DIL SLUDGE DTHER: ACID/BASE: ICE / COOL OTHER: TP// BIEX	
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LEASE NOTE: Liability an malyses, All claims includin service, in no event shall Ca	d Damages. Cardinal's liability and client's exclusive groups of regilipence and any other cause whats sufficial be liable for incidental or consequential dark or any other cause who early the liable for incidental or consequential dark or any of or related to the performance of services.	a context you any want waters much in writing and received by Cardinal within 30 days after completion or the apparatus rever shall be denined valued unless made in writing and received by Cardinal by client's establishates, gard, including without limitation, business interruptions, loss of use, or base of profits incurred by client's establishates, sectorishates, ages, including without limitation, business interruptions, loss of use, or based upon any of the above stated reasons, to substitutions. Phone Result: Yes No No No Phone Result: Yes No No Yes No No Phone Result: Yes No Yes No Yes Yes No Yes Y	Add'l Phone #:
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Sampler - UPS -	- Bus - Other:		

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Phys 2047

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5.60 Intact Initials	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	ber guich chim is based upon any of the above stated points.		6 / / //:45	# CONTAINI GROUNDW WASTEWA SOIL OIL SLUDGE OTHER: ACID/BASI ICE / COO OTHER: 13 // 16 // 17 // 18 // 18 // 18 // 18 // 18 // 18 // 18 // 19 // 19 // 10 // 10 // 11 // 11 // 11 // 12 // 13 // 14 // 15 // 16 // 17 // 18 // 18 // 18 // 19 // 19 // 19 // 10 // 10 // 10 // 11 // 11 // 12 // 13 // 14 // 15 // 16 // 17 // 17 // 18 // 18 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 19 // 10 //	ERS ATER ITER INATRIX PRE	Address: City: State: Zip: Phone #:	0	ANALYSIS REQUEST

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