

October 9, 2015

AMARILLO 921 North Bivins Amarillo. Texas 79107 Phone 806.467.0607 Fax 806.467.0622 Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

ARTESIA

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

Soil Assessment and Remediation Work Plan

Devon Energy

Cotton Draw Unit #153 30-015-38535 2RP-3241

AMENDED

HOBBS

318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658 Dear Mr. Nettles,

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.

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

Incident Date

The date of release was July 19, 2015

OKLAHOMA CITY 7700 North Hudson Avenue Suite IO

Oklahoma City, Oklahoma 73II6 Phone 405.486.7030 Fax 806.467.0622

> SAN ANTONIO II Commercial Place Schertz, Texas 78154 Phone 210.265.8025

> > Fax 210.568.2191

Background Information

The Cotton Draw Unit #153 is located approximately forty-five (45) miles southeast of Carlsbad, New Mexico. The legal location for this site is Unit Letter B, Section 3, Township 25 South, and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.166176° North and -103.763611° West. See the site plan 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 greater than 100' according to the Chevron Texaco Water Trend map. No groundwater data is provided by the New Mexico Office of the State Engineers office. See Appendix II.

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

ENVIRONMENTAL CONSULTING

ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Depth to ground water

Wellhead Protection Area
Distance to surface water body

>1000° >1000°

>100'

Page 1 of 4

Toll Free: 866.742.0742 www.talonlpe.com

Incident Description

On July 19, 2015 the suction lines in the circulation pumps were not closed which caused a release of 40 barrels of oil on the Cotton Draw #153 location. A vac truck was immediately called to the location and recovered 35 barrels of oil. All the oil stayed on location. See site plan in Appendix I.

Actions Taken

On July 21, 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 a depth from 0.5-feet to 4-feet below ground surface. Laboratory results from the soil sampling event are summarized in the table below. See Table 1.

On September 15, 2015 Talon personnel returned to the site to obtain deeper vertical delineation samples utilizing a backhoe to a total depth of 9-feet below ground surface. The complete laboratory results are presented in Table 2.

On September 24, 2015 Talon personnel returned to the site to obtain deeper vertical delineation samples with a drill rig to a total depth of 20-feet below ground surface. After consultation with the NMOCD, the boring was located where shown on the site plan to avoid underground utilities. The complete laboratory results are presented in Table 3.

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.

July 29, 2015					Table 1
Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	2700	928	40700	131000
	0.5'	654	1580	9120	17700
S-2	0'	840	5520	11500	28800
	1'	< 0.300	2520	10.4	157
	2'	< 0.300	3840	<10	42.4
	3'	< 0.300	3120	<10	64.6
	4'	< 0.300	5920	<10	26.6
S-3	0'	105	432	2220	48900
	1'	0.510	128	<10	96.7
	2'	< 0.300	464	<10	21.4
	3'	< 0.300	1060	<10	<10
	4'	< 0.300	2920	<10	<10
S-4	0'	253	32	4280	18500
	1'	< 0.300	16	<10	<10
	2'	< 0.300	32	<10	81.8
	3'	< 0.300	64	<10	<10
	۵٬	<0.300	224	<10	<10

September 22, 2015

Table 2

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-2	5'		7300	The little of the second	
	6'		8100		
Maria	7'		5300		10.11.25
	8'		4080		
Inhibe of the Lie	9'		2920	الأوراد والمعاطية المسا	
S-3	5'		5600		
	6'		4960		
	7'		2400		
	8'		1500	<u></u>	
	9'		704		

⁻⁻ Analyte Not Tested

September 22, 2015

Table 3

Sample ID	Depth (feet)	BTEX (mg/kg)	BTEX Chlorides (mg/kg) (mg/kg)		TPH (mg/kg) DRO
DS-1	5'	(mg/kg)	2640	GRO	DRO
	7'		240		
	10'	-	128		15
	15'		176		
	20'		304		h

DS – Delineation Sample

-- 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, and 5,000 mg/kg for TPH. The chloride standard is considered to be 1,000 mg/kg.

Proposed Remedial Actions

- The hydrocarbon impacted areas will be excavated to a depth of 1-feet deep and treated with both high nitrogen fertilizer and mircoblaze as bioremediation agents. The remainder of contaminants will be remediated at the close of facility.
- All contaminated soil will be transported to Lea Land, LLC disposal facility.
- After the delineation procedures preformed, it is apparent that the chlorides on location are historical. Therefore on behalf of Devon Energy we respectfully request that the chloride impact on the location be remediated upon the closure of the facility.

- The excavated areas will be backfilled with new caliche. Once the backfill activities are complete the work areas will be machine compacted and re-contoured to match the surrounding location.
- A final closure report documenting all remedial actions and analytical results will be provided to the 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,

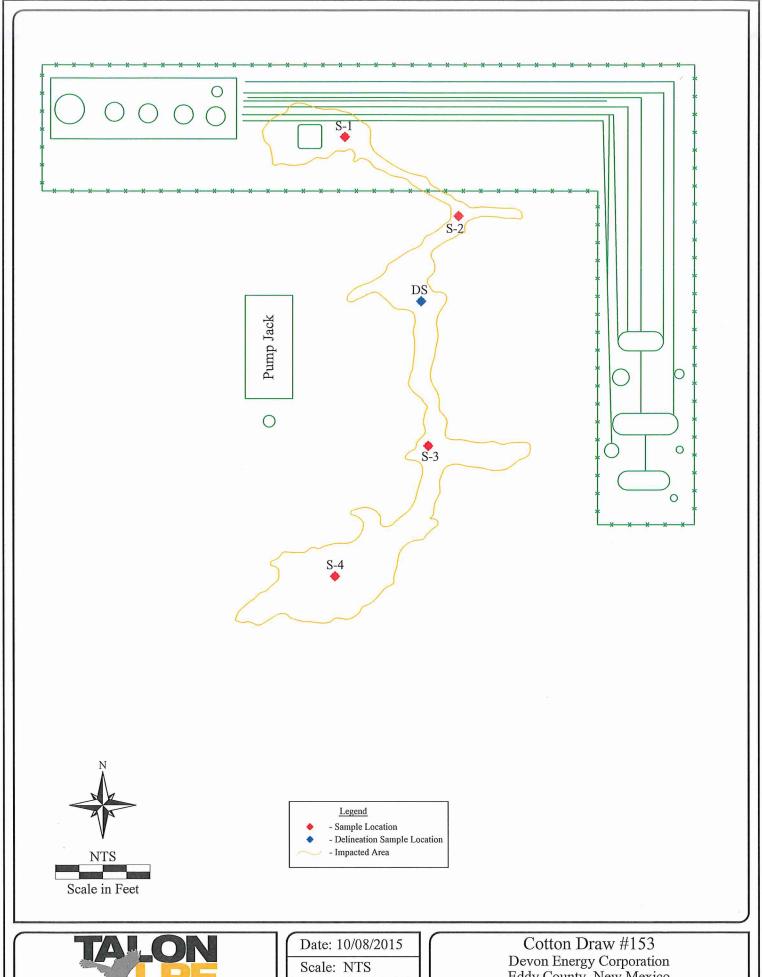
TALON/LPE

Kimberly M. Wilson Project Manager

imberly M. Wilson

David J. Adkins District Manager

APPENDIX I SITE MAP REGULATOR'S STIPULATIONS





Drawn By: TJS

Devon Energy Corporation Eddy County, New Mexico Figure 1 - Site Plan

Kimberly M. Wilson

From:

Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]

Sent:

Thursday, September 10, 2015 7:42 AM

To:

Kimberly M. Wilson; Tucker, Shelly

Cc:

Patterson, Heather, EMNRD; Fulks, Brett; David Adkins

Subject:

RE: Cotton Draw #153 * 30-015-38535 * DOR: 7/19/2015

RE: Devon Energy * Cotton Draw Unit 153H * 30-015-38535 * B-3-25s-31e NMOCD Tracking: 2RP-3241 * Date of release: 7/19/15

Greetings,

OCD concurs with BLM. A site delineation for chloride and hydrocarbon impact will be required prior to review of a remediation proposal.

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108 C: 575-626-0857

C: 575-626-0857 F: 575-748-9720

From: Tucker, Shelly [mailto:stucker@blm.gov]
Sent: Wednesday, September 09, 2015 11:22 AM

To: Kimberly M. Wilson

Cc: Patterson, Heather, EMNRD; Fulks, Brett; Bratcher, Mike, EMNRD; David Adkins

Subject: Re: Cotton Draw #153 * 30-015-38535 * DOR: 7/19/2015

Kimberly,

In regards to the Cotton Draw #153 * 30-015-38535 * DOR: 7/19/2015

The BLM has reviewed your proposal and requires the additional information prior to approval being given:

1. Further delineation will be required on S-1, S-2 and S-3

The BLM approval/acceptance does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that may pose a threat to groundwater, surface water, human health or the environment or if the location fails to reclaim properly. In such an event that the location does not revegetate, or future issues with contaminants are encountered, the operator will be asked to address the issues until the contaminant issues are fully mitigated and the location is successfully reclaimed. In addition, BLM approval does not relieve the operator of responsibility for compliance with any other federal, state or local laws/regulations.

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,

(quarters are 1=NW 2=NE 3=SW 4=SE) C=the file is closed)

(quarters are smallest to largest)

(NAD83 UTM in meters) (In feet)

	POD												
	Sub-		Q	Q	Q							Depth	Depth Water
POD Number	Code basin (County	64	16	4	Sec	Tws	Rng	Х	Υ	Distance	Well	Water Column
C 02572		ED	4	2	2	02	25S	31E	618695	3559294*	282	852	
C 02571		ED	4	1	2	02	25S	31E	618292	3559294* 🌑	284	860	
C 02574		ED	1	1	2	02	258	31E	618092	3559494* 🌑	403		
C 02573		ED	1	4	2	02	25S	31E	618499	3559091*	403		
C 02569		ED	4	4	2	02	25S	31E	618699	3558891* 🌑	636	1016	
C 02568		ED	4	3	1	01	25S	31E	619103	3558892*	855	1025	
C 02570		ED	4	2	4	02	25S	31E	618704	3558489* 🌑	1026	895	
C 03830 POD1	CUB	ED	4	2	4	02	25S	31E	618632	3558432 🌑	1069	450	

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 618495 Northing (Y): 3559494 Radius: 5000

^{*}UTM location was derived from PLSS - see Help

<u>District I</u> 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

			Rele	ase Notific	cation	and Co	orrective A	ction					
						OPERA	ГOR		al Report		Final Repor		
Name of Co	ompany D	evon Energy	Product	ion		Contact G	arry Michael		•				
Address 64	88 Seven	Rivers Hwy	Artesia, N	VM 88220			No. 575-513-4	1895					
		Draw Unit				Facility Ty							
Surface Ov	vner Fed	eral		Mineral (Owner	Federal		API No	API No. 30-015-38535				
				LOCA	TIOI	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/West Line	County				
В	3	25 S	31 E	200	1	North	1980	East	Eddy				
		I	atitude:	N 32'16'62.16'	,	Loi	ngitude: W 103	3'76'35.73"					
				NAT	URE	OF RELI	EASE						
Type of Rele	ase Spill					Volume of 40 bbls	Release	Volume I 35 bbls	Recovered				
Source of Re	lease					2000 0000 0000	Hour of Occurre		Hour of Di	scover	*v		
Suction Line	Suction Lines in the circulating pump where not closed						@ 4:00 AM	The same of the sa	@ 4:00 AN		J		
Was Immed	iate Notice				5 H	If YES, To							
		×	Yes	No 🗌 Not Re	equired	Jim Amos Mike Brate							
By Whom?						Data and I	Y						
Eduardo Enri	quez					Date and I	@ 4:56 AM						
						7.19.2015	@ 4:58 AM						
Was a Water	rcourse Re		Yes 🛚	No		If YES, Volume Impacting the Watercourse							
If a Waterco	urse was Iı	npacted, Des	cribe Full	y.*									
Describe Car	use of Prob	lem and Rem	nedial Act	ion Taken.*									
coming from	the suction	lines in the ci	rculating p	oump, Lease Oper	Cotton I	Draw Unit 15 ceeded to clo	3 H at 4:00 AM wase the valves to st	when he noticed flu op the spill.	id on locatio	n. The	; fluid was		
	ring was cal	led to recover	35 bbls. F	further documents							-		
regulations al public health should their o	l operators or the enviruperations had not be a continuous for the con	are required to conment. The ave failed to a ddition, NMO	report an acceptance dequately CD accept	d/or file certain re e of a C-141 repo investigate and re	elease no rt by the emediate	otifications and NMOCD made contamination	nd perform correct arked as "Final Re on that pose a thre	nderstand that purs tive actions for rele eport" does not reli- cat to ground water esponsibility for co	eases which never the operation of the contract of the contrac	may er ator of ter. hu	ndanger f liability man health		
Signature: Co	orina M	loya					OIL CONS	SERVATION	DIVISIO	N			
Printed Name	: Corina M	loya			I	Approved by	Environmental Sp	pecialist:					
Title: Field A	dmin Supp	ort			A	Approval Date	e:	Expiration I	Date:				
E-mail Addre	ss: corina. r	noya@dvn.co	om			Conditions of	Approval:		Attached				
Date: 7.20.2	2015		Phone: 5	575.746.5559									

^{*} Attach Additional Sheets If Necessary

APPENDIX III LABORATORY RESULTS



July 29, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #153

Enclosed are the results of analyses for samples received by the laboratory on 07/22/15 14:04.

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

Fax To:

(575) 745-8905

Received:

07/22/2015

Sampling Date:

07/21/2015

Reported:

07/29/2015

Sampling Type:

Soil

Project Name:

COTTON DRAW #153

Sampling Condition:

Cool & Intact

Project Number:

Project Location:

70079416201 SEC 3, T25S, R31E Sample Received By:

Judy Garcia

Sample ID: S-1 0' (H501910-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	242	20.0	07/27/2015	ND	2.03	102	2.00	8.11	
Toluene*	1200	20.0	07/27/2015	ND	2.06	103	2.00	6.56	
Ethylbenzene*	224	20.0	07/27/2015	ND	2.17	108	2.00	7.81	
Total Xylenes*	1040	60.0	07/27/2015	ND	5.74	95.6	6.00	7.18	
Total BTEX	2700	120	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	121	% 85.6-13	7						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	07/28/2015	ND	432	108	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	40700	200	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	131000	200	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	1260	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	4380	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene-



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

Received:

07/22/2015

07/29/2015

Reported: Project Name:

COTTON DRAW #153

Project Number:

70079416201

Project Location:

SEC 3, T25S , R31E

Sampling Date:

07/21/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Judy Garcia

Sample ID: S-1 .5' (H501910-02)

BTEX 8021B	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	50.0	5.00	07/27/2015	ND	2.03	102	2.00	8.11	
Toluene*	283	5.00	07/27/2015	ND	2.06	103	2.00	6.56	
Ethylbenzene*	56.6	5.00	07/27/2015	ND	2.17	108	2.00	7.81	
Total Xylenes*	265	15.0	07/27/2015	ND	5.74	95.6	6.00	7.18	
Total BTEX	654	30.0	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	125	% 85.6-13	7						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	07/28/2015	ND	432	108	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	9120	100	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	17700	100	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	263	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	325	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

Received:

07/22/2015

Sampling Date:

07/21/2015

Reported:

07/29/2015

Sampling Type:

Soil

Project Name:

COTTON DRAW #153

Sampling Condition:

Cool & Intact

Project Number:

70079416201

Project Location:

SEC 3, T25S, R31E

Sample Received By:

Judy Garcia

Sample ID: S-2 0' (H501910-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	15.6	5.00	07/27/2015	ND	2.03	102	2.00	8.11		
Toluene*	257	5.00	07/27/2015	ND	2.06	103	2.00	6.56		
Ethylbenzene*	88.6	5.00	07/27/2015	ND	2.17	108	2.00	7.81		
Total Xylenes*	478	15.0	07/27/2015	ND	5.74	95.6	6.00	7.18		
Total BTEX	840	30.0	07/27/2015	ND						
Surrogate: 4-Bromofluorobenzene (PIL	150 9	% 85.6-13	7							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5520	16.0	07/28/2015	ND	432	108	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	11500	100	07/24/2015	ND	182	90.9	200	0.943		
DRO >C10-C28	28800	100	07/24/2015	ND	186	93.0	200	0.951		
Surrogate: 1-Chlorooctane	492 9	6 47.2-15	7							
Surrogate: 1-Chlorooctadecane	282 9	% 52.1-17	6							

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keine



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

Received:

07/22/2015

Reported:

07/29/2015

Project Name: Project Number: COTTON DRAW #153

70079416201

Project Location:

SEC 3, T25S, R31E

Sampling Date:

07/21/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Judy Garcia

Sample ID: S-2 1' (H501910-04)

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	07/27/2015	ND	2.03	102	2.00	8.11	
Toluene*	0.070	0.050	07/27/2015	ND	2.06	103	2.00	6.56	
Ethylbenzene*	<0.050	0.050	07/27/2015	ND	2.17	108	2.00	7.81	
Total Xylenes*	<0.150	0.150	07/27/2015	ND	5.74	95.6	6.00	7.18	
Total BTEX	<0.300	0.300	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	120 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	07/28/2015	ND	432	108	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	10.4	10.0	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	157	10.0	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	101 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	122 9	% 52.1-17	6						

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Fax To: (575) 745-8905

Received:

07/22/2015

Reported:

07/29/2015

Project Name:

COTTON DRAW #153

Project Number:

70079416201

Project Location:

SEC 3, T25S , R31E

Sampling Date:

07/21/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Judy Garcia

Sample ID: S-2 2' (H501910-05)

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	07/27/2015	ND	2.03	102	2.00	8.11	
Toluene*	<0.050	0.050	07/27/2015	ND	2.06	103	2.00	6.56	
Ethylbenzene*	<0.050	0.050	07/27/2015	ND	2.17	108	2.00	7.81	
Total Xylenes*	<0.150	0.150	07/27/2015	ND	5.74	95.6	6.00	7.18	
Total BTEX	<0.300	0.300	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	120 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	07/28/2015	ND	432	108	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	<10.0	10.0	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	42.4	10.0	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	97.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	111 %	6 52.1-17	6						

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Received:

07/22/2015

Sampling Date:

07/21/2015

Reported:

07/29/2015

Sampling Type:

Soil

Project Name:

COTTON DRAW #153

Sampling Condition:

Cool & Intact

Project Number:

70079416201

Project Location:

SEC 3, T25S, R31E

Sample Received By:

Judy Garcia

Sample ID: S-2 3' (H501910-06)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2015	ND	2.03	102	2.00	8.11	
Toluene*	<0.050	0.050	07/27/2015	ND	2.06	103	2.00	6.56	
Ethylbenzene*	<0.050	0.050	07/27/2015	ND	2.17	108	2.00	7.81	
Total Xylenes*	<0.150	0.150	07/27/2015	ND	5.74	95.6	6.00	7.18	
Total BTEX	<0.300	0.300	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 %	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	07/28/2015	ND	432	108	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	<10.0	10.0	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	64.6	10.0	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	90.69	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	104 9	6 52.1-17	6						

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Received:

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Sampling Date:

07/21/2015

Reported:

07/29/2015

Sampling Type:

Soil

Project Name:

COTTON DRAW #153

Sampling Condition:

Cool & Intact

Project Number: Project Location: 70079416201

SEC 3, T25S, R31E

Sample Received By:

Judy Garcia

Sample ID: S-2 4' (H501910-07)

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	07/27/2015	ND	2.03	102	2.00	8.11	
Toluene*	<0.050	0.050	07/27/2015	ND	2.06	103	2.00	6.56	
Ethylbenzene*	<0.050	0.050	07/27/2015	ND	2.17	108	2.00	7.81	
Total Xylenes*	<0.150	0.150	07/27/2015	ND	5.74	95.6	6.00	7.18	
Total BTEX	<0.300	0.300	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	119 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5920	16.0	07/28/2015	ND	432	108	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	<10.0	10.0	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	26.6	10.0	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	96.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	109 9	% 52.1-17	6						

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Sampling Date:

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Reported:

07/29/2015

Sampling Type:

Soil

Project Name:

COTTON DRAW #153

Sampling Condition:

Cool & Intact

Project Number:

70079416201

Sample Received By:

Judy Garcia

Project Location:

SEC 3, T25S , R31E

Sample ID: S-3 0' (H501910-08)

BTEX 8021B	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.51	1.00	07/27/2015	ND	2.03	102	2.00	8.11	
Toluene*	28.4	1.00	07/27/2015	ND	2.06	103	2.00	6.56	
Ethylbenzene*	12.0	1.00	07/27/2015	ND	2.17	108	2.00	7.81	
Total Xylenes*	63.4	3.00	07/27/2015	ND	5.74	95.6	6.00	7.18	
Total BTEX	105	6.00	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	142	% 85.6-13	7						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/28/2015	ND	432	108	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	2220	200	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	48900	200	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	188	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	394	% 52.1-17	6						

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Sampling Date:

07/21/2015

Reported:

07/29/2015

Sampling Type:

Soil

Project Name:

COTTON DRAW #153

Sampling Condition:

Cool & Intact

Project Number:

70079416201

108 %

52.1-176

Sample Received By:

Judy Garcia

Project Location:

Sample ID: S-3 1' (H501910-09)

SEC 3, T25S , R31E

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	07/27/2015	ND	2.03	102	2.00	8.11	
Toluene*	<0.050	0.050	07/27/2015	ND	2.06	103	2.00	6.56	
Ethylbenzene*	0.081	0.050	07/27/2015	ND	2.17	108	2.00	7.81	
Total Xylenes*	0.429	0.150	07/27/2015	ND	5.74	95.6	6.00	7.18	
Total BTEX	0.510	0.300	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	127	% 85.6-13	7						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/28/2015	ND	432	108	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	<10.0	10.0	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	96.7	10.0	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	93.5	% 47.2-15	7						

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Surrogate: 1-Chlorooctadecane

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Sampling Date:

07/21/2015

Reported:

Soil

07/29/2015

Sampling Type:

Project Name:

COTTON DRAW #153

Sampling Condition:

Cool & Intact

Project Number:

70079416201

Sample Received By:

Judy Garcia

Project Location:

SEC 3, T25S, R31E

Sample ID: S-3 2' (H501910-10)

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	07/27/2015	ND	2.25	113	2.00	3.58	
Toluene*	<0.050	0.050	07/27/2015	ND	2.26	113	2.00	4.24	
Ethylbenzene*	<0.050	0.050	07/27/2015	ND	2.43	121	2.00	5.59	
Total Xylenes*	<0.150	0.150	07/27/2015	ND	6.38	106	6.00	6.15	
Total BTEX	<0.300	0.300	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 %	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	07/28/2015	ND	432	108	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	<10.0	10.0	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	21.4	10.0	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	104 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	115 9	6 52.1-17	6						

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Reported:

07/29/2015

Project Name:

COTTON DRAW #153

Project Number: Project Location: 70079416201

SEC 3, T25S, R31E

Sampling Date:

07/21/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Judy Garcia

Sample ID: S-3 3' (H501910-11)

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	07/27/2015	ND	2.25	113	2.00	3.58	
Toluene*	<0.050	0.050	07/27/2015	ND	2.26	113	2.00	4.24	
Ethylbenzene*	<0.050	0.050	07/27/2015	ND	2.43	121	2.00	5.59	
Total Xylenes*	<0.150	0.150	07/27/2015	ND	6.38	106	6.00	6.15	
Total BTEX	<0.300	0.300	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	07/28/2015	ND	432	108	400	3.77	
Chloride TPH 8015M	1060 mg/			ND d By: MS	432	108	400	3.77	
					432 BS	108 % Recovery	400 True Value QC	3.77 RPD	Qualifier
TPH 8015M	mg/	/kg	Analyze	d By: MS		*		123144	Qualifier
TPH 8015M Analyte	mg, Result	Reporting Limit	Analyzed Analyzed	d By: MS Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte GRO C6-C10	Result	Reporting Limit 10.0 10.0	Analyzed Analyzed 07/24/2015 07/24/2015	Method Blank	BS 182	% Recovery	True Value QC 200	RPD 0.943	Qualifier

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07/22/2015

Reported: Project Name: 07/29/2015 COTTON DRAW #153

Project Number:

70079416201

Project Location:

SEC 3, T25S , R31E

Sampling Date:

07/21/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

eceived By:

Judy Garcia

Sample ID: S-3 4' (H501910-12)

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	07/27/2015	ND	2.25	113	2.00	3.58	
Toluene*	<0.050	0.050	07/27/2015	ND	2.26	113	2.00	4.24	
Ethylbenzene*	<0.050	0.050	07/27/2015	ND	2.43	121	2.00	5.59	
Total Xylenes*	<0.150	0.150	07/27/2015	ND	6.38	106	6.00	6.15	
Total BTEX	<0.300	0.300	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 9	% 85.6-13	7	2 2 2					
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	07/28/2015	ND	432	108	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	<10.0	10.0	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	<10.0	10.0	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	85.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.4	% 52.1-17	6						

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Received:

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Sampling Date:

07/21/2015

Reported:

07/29/2015

Sampling Type:

Soil

COTTON DRAW #153

Sampling Condition:

Cool & Intact

Project Name:

Project Number:

70079416201

Sample Received By:

Judy Garcia

Project Location:

SEC 3, T25S, R31E

Sample ID: S-4 0' (H501910-13)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	07/29/2015	ND	2.04	102	2.00	1.20	
Toluene*	27.1	2.00	07/29/2015	ND	2.10	105	2.00	1.21	
Ethylbenzene*	30.9	2.00	07/29/2015	ND	2.24	112	2.00	0.960	
Total Xylenes*	195	6.00	07/29/2015	ND	5.93	98.8	6.00	2.60	
Total BTEX	253	12.0	07/29/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 5	% 85.6-13	7						
Chloride, SM4500Cl-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	07/28/2015	ND	432	108	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	4280	50.0	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	18500	50.0	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	248 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	212 9	% 52.1-17	6						

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*=Accredited Analyte

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Celeg & Kreene



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

Received:

07/22/2015

Sampling Date:

07/21/2015

Reported:

07/29/2015

Sampling Type:

Soil

Project Name:

COTTON DRAW #153

Sampling Condition:

Cool & Intact

Project Number:

70079416201

Sample Received By:

Judy Garcia

Project Location:

SEC 3, T25S, R31E

Sample ID: S-4 1' (H501910-14)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/27/2015	ND	2.25	113	2.00	3.58	
Toluene*	<0.050	0.050	07/27/2015	ND	2.26	113	2.00	4.24	
Ethylbenzene*	<0.050	0.050	07/27/2015	ND	2.43	121	2.00	5.59	
Total Xylenes*	<0.150	0.150	07/27/2015	ND	6.38	106	6.00	6.15	
Total BTEX	<0.300	0.300	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 9	% 85.6-13	7						
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	07/28/2015	ND	432	108	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	<10.0	10.0	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	<10.0	10.0	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	97.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	107 9	% 52.1-17	6						

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

Fax To:

(575) 745-8905

Received:

07/22/2015 07/29/2015

Reported:

Project Name: Project Number: COTTON DRAW #153

Project Location:

70079416201 SEC 3, T25S, R31E Sampling Date:

07/21/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Judy Garcia

Sample ID: S-4 2' (H501910-15)

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	07/27/2015	ND	2.25	113	2.00	3.58	
Toluene*	<0.050	0.050	07/27/2015	ND	2.26	113	2.00	4.24	
Ethylbenzene*	<0.050	0.050	07/27/2015	ND	2.43	121	2.00	5.59	
Total Xylenes*	<0.150	0.150	07/27/2015	ND	6.38	106	6.00	6.15	
Total BTEX	<0.300	0.300	07/27/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116%	6 85.6-13	7						
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	07/28/2015	ND	432	108	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	<10.0	10.0	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	81.8	10.0	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	91.9 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	106 %	6 52.1-17	6						

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

Received:

07/22/2015

Sampling Date:

07/21/2015

Reported:

DTEV 0021D

07/29/2015

Sampling Type:

Soil

Project Name:

COTTON DRAW #153

Sampling Condition:

Cool & Intact

Project Number: Project Location:

70079416201 SEC 3, T25S, R31E Sample Received By:

Judy Garcia

Sample ID: S-4 3' (H501910-16)

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	07/28/2015	ND	2.25	113	2.00	3.58	
Toluene*	<0.050	0.050	07/28/2015	ND	2.26	113	2.00	4.24	
Ethylbenzene*	<0.050	0.050	07/28/2015	ND	2.43	121	2.00	5.59	
Total Xylenes*	<0.150	0.150	07/28/2015	ND	6.38	106	6.00	6.15	
Total BTEX	<0.300	0.300	07/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 9	% 85.6-13	7						
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	07/28/2015	ND	432	108	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	<10.0	10.0	07/24/2015	ND	182	90.9	200	0.943	
DRO >C10-C28	<10.0	10.0	07/24/2015	ND	186	93.0	200	0.951	
Surrogate: 1-Chlorooctane	99.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	110 9	% 52.1-17	6						

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Celey Ditrene



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

Fax To:

(575) 745-8905

Received:

07/22/2015

Reported:

07/29/2015

Project Name:

COTTON DRAW #153

Project Number: Project Location: 70079416201 SEC 3, T25S , R31E Sampling Date:

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

07/21/2015

Judy Garcia

Sample ID: S-4 4' (H501910-17)

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	07/28/2015	ND	2.25	113	2.00	3.58	
Toluene*	<0.050	0.050	07/28/2015	ND	2.26	113	2.00	4.24	
Ethylbenzene*	<0.050	0.050	07/28/2015	ND	2.43	121	2.00	5.59	
Total Xylenes*	<0.150	0.150	07/28/2015	ND	6.38	106	6.00	6.15	
Total BTEX	<0.300	0.300	07/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	117 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/28/2015	ND	432	108	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	<10.0	10.0	07/27/2015	ND	191	95.6	200	2.17	
DRO >C10-C28	<10.0	10.0	07/27/2015	ND	171	85.5	200	3.18	
Surrogate: 1-Chlorooctane	93.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	115 %	6 52.1-17	6						

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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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		VA JUG		ANALYSIS REQUEST
Company Name: Talon/LPE		6)[4][6]		
Project Manager: R. W. JSon		P.O. #:		
Address: 408 W. Texas Ave.		company: Talon/LPE		
city: Artesia state: NM	zip: 88210	Attn:		
-746-8768 Fax #: 575-	46-8905	Address:		
Project #: 700 744/626/ Project Owner:	OSUM?	City:		
Project Name: Cotton Usw=1	53	State: Zip:		
Project Location: Sec. 3 7255	R 3/6	Phone #:		5
Sampler Name: (3. Bueza		1		le
FOR LAB USE ONLY	MATRIX	PRESERV, SAMPLING	×	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTE)	(1/05)
- C-10.	×	7.2113 12:60	X	\
2.5.	×	2 12,06	*	×
28.20	×) 12:15	X	×
48-21	78	12:15	×	~
15-22 15-22	X E	12:22	X	*
6.3-20	8) 12:15	×	X
75.24	61. x	\$ 17:28	X	N
S.S. 3 C	× (1)	12:3:	*	
9.5-31	× 5	12:3	V	*
10 S - 3 2	Z ×	12:36	X	

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remely for any stalm autiting whether based in centrate or lost, shall be limited to the amount paid by the ellent for the ellent fo Relinquished By: Time: Received By ☐ Yes ☐ No Add'l Phone #:

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 398/2326

9

Sample Condition
Cool Intact
Yes Yes

CHECKED BY: Unitals)

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

Page 20 of 21



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

		TOT
Company Name: Talon/LPE	BILL 10	
Project Manager:	P.O.#:	
Address: 408 W. Texas Ave.	company: Talon/LPE	
city: Artesia state: NM zip: 88210	Attn:	
Phone #: 575-746-8768 Fax #: 575-746-8905	Address:	
Project #: Project Owner:	City:	
ame: Catter Ora	State: Zip:	
4	Phone #:	
Sampler Name:		
	PRESERVI SAMPLING	
Sample I.D. Sample I.D. Sample I.D. Siroundwater Wastewater Oil. Siludge	DATE A CYICO C	
15-3 3		
2.5-3 4	12:53 X	
13.S. 4 0	->	
14S-4 (G	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
58-42	X 21.16.12-1	
16. S. V. 3	x X h1:18:18:2	
78.44	7.21.A1:18 X X X	
-	7.21.13	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim scialing whether based in contract or tort, shall be limited to the amount paid by the client for the	tract or tort, shall be limited to the amount paid by the client for the	

PLEASE NOTE: Libility and Damages. Cardinate analysis and services and the deemed walked unless made in writing and treathed by Cardinat within our sign and treathed by cardinates are substituted. In no event shall Cardinat be lable for indicated any other causequental damages, including without limitation, business interruptions, loss of use, or loss of profits horrised by client, its substituted. In a substituted by cardinate, business interruptions, loss of use, or loss of profits horrised by client, its substituted and in a substituted by cardinate for cardinate for cardinate for Cardinate walked unless made in writing and treathed by cardinate within a substitute for substituted by cardinate for cardinate Relinquished By: Timer Daller 33 Time: Received By: ☐ Yes ☐ No Add'l Phone#:
☐ Yes ☐ No Add'l Fax#:

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

井だナ

Sample Condition
Cool Intact
Yes Yes
No No

ECKED BY:

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

PG 2017



September 22, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #153

Enclosed are the results of analyses for samples received by the laboratory on 09/16/15 14:52.

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 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. Keene

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: Reported: 09/16/2015

09/22/2015

Project Name:

COTTON DRAW #153

Project Number: Project Location: 70079416401 **EDDY CTY**

Sampling Date:

09/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Judy Garcia

Sample ID: S-2 6' (H502434-01)

Chloride, SM4500CI-B

mg/kg

8100

5300

4080

Analyzed By: HM

Analyte

Result Reporting Limit

1.00

Analyzed

09/21/2015

Analyzed

09/21/2015

Method Blank

ND

BS 416 % Recovery 104

True Value QC 400

RPD 3.77 Qualifier

Sample ID: S-2 7' (H502434-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Chloride

Chloride

Chloride

Chloride

Reporting Limit Result

1.00 09/21/2015 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD

Qualifier 3.77

Sample ID: S-2 8' (H502434-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte

Analyte

Reporting Limit Analyzed Result 1.00

Method Blank

ND

ND

BS 416

416

% Recovery

104

104

True Value QC

400

400

RPD

3.77

Qualifier

Sample ID: S-2 9' (H502434-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte Result Reporting Limit Analyzed 2920 1.00 09/21/2015

Method Blank BS

% Recovery

True Value QC

RPD

3.77

Qualifier

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

Received:

09/16/2015

Reported:

09/22/2015

Project Name:

COTTON DRAW #153

Project Number: Project Location: 70079416401 **EDDY CTY**

Sampling Date:

09/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Judy Garcia

Sample ID: S-3 5' (H502434-05)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

5600

Result

4960

Analyzed By: HM

Analyte

Result

mg/kg

Reporting Limit

1.00

Analyzed 09/21/2015 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD

3.77

Sample ID: S-3 6' (H502434-06)

Chloride, SM4500CI-B

Analyte

Reporting Limit

1.00

Reporting Limit

Reporting Limit

1.00

Analyzed By: HM

Analyzed

09/21/2015

09/21/2015

Method Blank ND

BS 416 % Recovery

104

% Recovery

104

True Value QC

400

Qualifier

Qualifier

RPD 3.77

Sample ID: S-3 7' (H502434-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Analyte

Analyte

Result Reporting Limit 2400 1.00

Analyzed

Method Blank ND

BS 416 True Value QC

400

RPD 3.77 Qualifier

Sample ID: S-3 8' (H502434-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyzed

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

1500

Result

704

Result

1.00 09/21/2015 ND

Method Blank

ND

BS 416

BS

416

104

% Recovery

104

400

True Value QC

400

RPD

3.77

Chloride

Sample ID: S-3 9' (H502434-09)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyzed

09/21/2015

3.77

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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

Received:

09/16/2015

Reported:

09/22/2015

Project Name:

COTTON DRAW #153

Project Number: Project Location: 70079416401 **EDDY CTY**

Sampling Date:

09/15/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Judy Garcia

Sample ID: S-2 5' (H502434-10)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte

Result

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

7300

1.00

Reporting Limit

09/21/2015

ND

416

104

400

3.77

Cardinal Laboratories

*=Accredited Analyte

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Celeg & treens



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

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Celeg & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-24/6		ANALYSIS REQUEST
company Name: 70 Mon 12PE		ANALIGI
roject Manager: Himberty Wilson	P.O. #:	
8 W. Nexas	Company: Mill	3
Clasia State: N	7 Zip: 882/0 Attn:	
e#: 746-8768 Fax#:	Address:	
101 491 464 (101	r: Devon city:	
Cotton Diale	State: Zip:	>
Fold of	Phone #:	7
Poject Location. Ship Hitch		les
Sampler Name: J. C. M. C.	SERV.	SAMPLING
TOR LINE USE CARE.	ERS ATER TER	Pori
Lab I.D. Sample I.D.	G)RAB OR # CONTAINE GROUNDW. WASTEWAT SOIL OIL SLUDGE OTHER: ACID/BASE ICE / COOL OTHER:	DATE TIME
19 8-5 1	9	5/15
2. 5-2 7'	6	
18, 65 %	5	
4529	6	
5. 8-3 5	6	
6. 5-3 6'	6	
7.8-37	6	
8. 5-3 5'	6	
7. 5-3 9'	6	
10 5-25	or any Asim prising whether based in contract or tort, shall be limited to the s	mount paid by the client for the
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive terries uniform and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatboover shall be deemed which unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatboover shall be deemed which deviated unless made in writing and received by Cardinal within 30 days after completion of the applicable.	or any zena manay be deemed waived unless made in writing and received by Cerdinal within 3 ding without limitation, business interruptions, loss of use, or loss of profits in) days after completion of the applicance united by defending the state of the applicance control of the state of the applicance control of the applicance o
affiliate or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of use soon services. Phone Resident Services hereunder by Cardinal, regardless of whether such daim is based upon any of use soon services. Phone Resident Services hereunder by Cardinal, regardless of whether such daim is based upon any of use soon services. Phone Resident Services hereunder by Cardinal, regardless of whether such daim is based upon any of use soon services. Phone Resident Services hereunder by Cardinal, regardless of whether such daim is based upon any of use soon services. Phone Resident Services hereunder by Cardinal, regardless of whether such daim is based upon any of use soon services.	y Cardinal, regardless of whether such claim is based upon any or use seen Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #:
Siew by.		
Refinalished By:	Received By:	
	2 / Yider Gircer	
Delivered By: (Circle One)	Sample Condition Checker Si.	
Sampler - UPS - Bus - Other:	TX D Yes TY Yes	



September 28, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #153

Enclosed are the results of analyses for samples received by the laboratory on 09/25/15 11:38.

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 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.

Celes D. Keene

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:

09/25/2015

Reported:

09/28/2015

Project Name:

COTTON DRAW #153

Project Number:

70079416201

Sampling Date:

09/24/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By:

** (See Notes) Judy Garcia

Project Location:

EDDY CTY

Sample ID: DS-1 5' (H502554-01)

Chloride, SM4500CI-B

mg/kg

Analyzed By: CK

Analyte

Result

Reporting Limit

Analyzed

Analyzed

Method Blank

% Recovery

116

True Value QC

RPD

Qualifier

Chloride

2640

16.0

09/26/2015

ND

464

400

0.00

Sample ID: DS-1 7' (H502554-02)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: CK

Method Blank

ND

BS

BS

% Recovery True Value QC RPD Qualifier

Chloride

Chl

Result 240

16.0 09/26/2015

Reporting Limit

464

116

400

0.00

Sample ID: DS-1 10' (H502554-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed
loride	128	16.0	09/26/2015

Method Blank BS ND

464

% Recovery 116

True Value QC 400

RPD 0.00 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celley D. Keene



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Celeg D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	Rélinquished By: Time: Time: Sample Complete Co	The control of the control of the performance of services hereunder by Cardinal regardless of whether such assumptions of the performance of services hereunder by Cardinal regardless of whether such assumptions of the performance of services hereunder by Cardinal regardless of whether such assumptions of the performance of services hereunder by Cardinal regardless of whether such assumptions of the performance of services hereunder by Cardinal regardless of whether such assumptions of the performance of services hereunder by Cardinal regardless of whether such assumptions of the performance of services hereunder by Cardinal regardless of whether such assumptions of the performance of services hereunder by Cardinal regardless of whether such assumptions of the performance of services hereunder by Cardinal regardless of whether such as the performance of services hereunder by Cardinal regardless of whether such as the performance of services hereunder by Cardinal regardless of whether such as the performance of services hereunder by Cardinal regardless of whether such as the performance of services hereunder by Cardinal regardless of whether such as the performance of services hereunder by Cardinal regardless of whether such as the performance of services hereunder by Cardinal regardless of whether such as the performance of services here as	PLEASE NOTE: Liability and Damages. Cantinuit's liability and client's exclusive namedy for any daim areing whether based in contract or tort, shall be limited to the amount paid by the client for the pleable please. Route: Liability and client's exclusive namedy for any daim areing whether based in contract by Cautinal within 30 days after completion of the applicable please. But all the please is a substitution of the source of the source by Cautinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other causes whatsoever shall be deemed valved unless made in writing and received by Cautinal within 50 days after completion of the above stated reasons or otherwise.		2 DS-1/0.	108-15-1	(G)RAB OR (C)OI # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL		FMM Maa	1	-	Address: 408 W. 16X85 AVE. State: NM Zip: 88210	Project Manager: Kimberty Wilson	Company Name: Talon/LPE	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
mtact D Yes No	ENVUA Condition CHECKED BY:	Phone Result:				7/27/10	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	X PRESERV. SAMPLING	#	State: Zip:	Address:	Attn:	company: Talon/LPE	PO.#:	ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 395-2326



September 28, 2015

KIMBERLY WILSON

TALON LPE

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ARTESIA, NM 88210

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Method EPA 524.2

Total Trihalomethanes (TTHM)

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Lab Director/Quality Manager



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

(575) 745-8905

Received:

09/25/2015

Reported:

Project Name:

COTTON DRAW #153

Project Number: Project Location:

09/28/2015

70079416201

EDDY CTY

Sampling Date:

09/24/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Judy Garcia

Sample ID: DS-1 15' (H502555-01)

Chloride, SM4500CI-B	mg/kg		Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	09/26/2015	ND	464	116	400	0.00	

Sample ID: DS-1 20' (H502555-02)

Chloride, SM4500Cl-B	CI-B mg/kg			Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	09/26/2015	ND	464	116	400	0.00	

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Celley D. Keene



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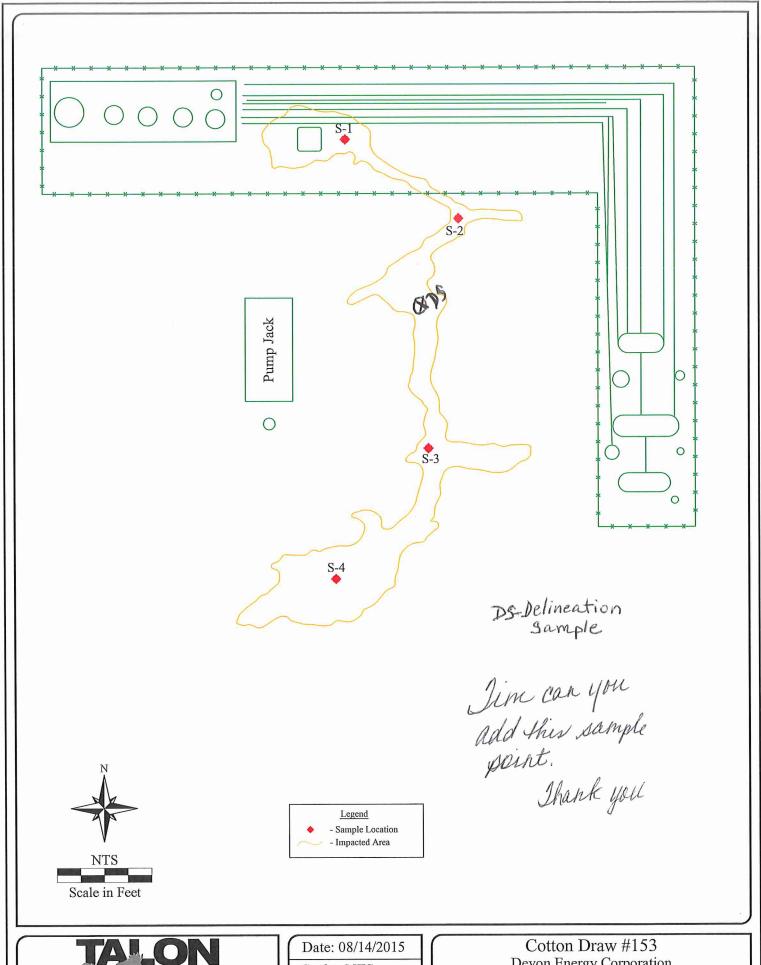
Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon/LPE Project Manager: Kimberly Phone #: 575-746-8768 city: Artesia Address: 408 W. Texas Ave. Project Location: Project Name: ('offon Project #: 700 794/6201 Sampler Name: PLEASE NOTE: Liability and Damagea. Cardinal's liability and client's exclusive remedy for any daim arising whether based in contract or for, thalf be limited to the amount paid by the client for the public analyses. All daims including those for repligence and any other cause whatsoever shall be deemed waived unless made in writing and reserved by Cardinal within 30 days after completion of the spice of FOR LAB USE ONLY Relinquished By: Lab I.D. Sampler - UPS - Bus - Other: Delivered By: (Circle One) (575) 393-2326 FAX (575) 393-2476 101 East Marland, Hobbs, NM 88240 75-1 Sample I.D. Draw 20' 3 Project Owner: Devon Fax #: 575-746-8905 "ounty State: NM Zip: 88210 Time: toos/ (G)RAB OR (C)OMP. 00 Received By: # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL. SLUDGE P.O. #: State: Attn: company: Talon/LPE City: Address: Fax #: Phone #: OTHER: PRESERV. ACID/BASE: ICE / COOL 8/45/6 OTHER: Zip: DATE SAMPLING TIME Kush! olicable ☐ Yes ☐ No Add'I Phone☐ Yes ☐ No Add'I Fax#: ANALYSIS REQUEST

Cardinal cannot accept verbal changes. Please fax written changes to (575) 396-2326





Scale: NTS

Drawn By: TJS

Cotton Draw #153 Devon Energy Corporation Eddy County, New Mexico Figure 1 - Site Plan