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Soil Assessment and Remediation Work Plan

Cotton Draw #181 SWD Battery 30-015-41649 * 2RP-3990

Prepared For:

Devon Energy Production 6488 Seven Rivers Hwy Artesia, New Mexico 88210

Prepared By:

Kimberly M. Wilson TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

February 7, 2017

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

Subject:

Soil Assessment and Remediation Work Plan

Cotton Draw #181 SWD Battery * 30-015-41649 * 2RP-3990

Dear Mr. Bratcher,

Devon Corporation 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.

Site Information

The Cotton Draw #181 SWD Transfer Line is located approximately fifty-eight (58) miles east of Carlsbad, New Mexico. The legal location for this release is Unit Letter H, Section 36, Township 24 South and Range 31 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.176734 North and -103.726852 West. A 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 Berino complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Quaternary in age and is comprised of eolian sands and piedmont deposits which include silty soils under lain with a sandy clay loam and hard caliche. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates that there is no known ground water in the area. See Appendix II for the referenced groundwater data.

Therefore the ranking for this site is a 0 based on the following:

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

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

Incident Description and Initial Remedial Actions

On November 3, 2016 the Cotton Draw #181 SWD Battery was struck by lightning resulting in a release of 2450 barrels of fluid. A vac truck was immediately called to the location and recovered 960 barrels of fluid. The battery was immediately shut-in. A site plan is presented in Appendix I which illustrates the impacted area. See initial C-141 in Appendix II. See photos Appendix IV

On November 4, 2016 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected in the ROW and in the pasture behind the battery utilizing a hand auger to a depth of 4-foot deep.

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	1440	<10	11.9
	1'	< 0.300	2160	<10	<10
	2'	< 0.300	2960	<10	<10
	3'	< 0.300	5360	<10	<10
	4'	< 0.300	7330	<10	<10
S-2	0,	< 0.300	2560	13	675
	1'	< 0.300	3480	<10	14.6
	2'	< 0.300	4880	<10	15.2
	3'		8930		
	4'		320		
S-3	0,	< 0.300	32	<10	<10
	1,		48		
	2'		32		
	3'		32		
	4'		32		
S-4	0'	< 0.300	3280	<10	<10
	1,		48		
	2'		160	-	
	3'		48		122
	4'		64		
S-5	0'	< 0.300	4000	<10	73.6
	1'	< 0.300	6000		
	2'		7200		
	3'		6930		
	4'		3280	# =	(HH)

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-6	0'	< 0.300	1840	<10	<10
	1'	< 0.300	5460	<10	<10
	2'	***	8800		
	3'		7330		inceré:
	4'	27.2	1870		
S-7	0,	< 0.300	48	<10	<10
	1,	< 0.300	48	<10	<10

⁻⁻Analyte Not Tested

On January 26, 2017 Talon personnel returned to the location to obtain additional samples at greater depths utilizing an air rotary drill rig as directed by the NMOCD.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
B-1	1'		3600	-	-
	2'		560		
	3'		144		
	4'		160		
	6'		208		
	10'		224		
B-2	1'		560		
	2'		48		
	3'		48		
	4'		48		
	5'		48	2442	
B-3	5'		2560		
- L	10'		4400		
	15'		1680		
	20'		448	/##	EE.

⁻⁻Analyte Not Tested

Proposed Remedial Actions of:

ROW

- The impacted areas in the vicinity of sample locations **B-3**/S-1, S-5 and S-6 will be excavated to a depth of 4-feet deep. A 20 mil liner will be installed within the excavated areas at these locations.
- Additional vertical delineation samples will be collected from sample location S-5 per OCD stipulations. This will be accomplished during excavation activities.
- If we are unable to safety achieve these depths due to the pipelines in this right-of-way, the NMOCD will be consulted.
- Due to site accessibility limitations, the drill rig was unable to set up at sample location S-6. Therefore further delineation samples could not be obtained.
- The impacted area in the vicinity of S-2 will be excavated to a depth of 3-feet deep and the impacted area in the vicinity of S-4 will be excavated to a depth of 0.5-feet deep.

PAD

- The impacted area on the pad in the vicinity of **B-1** will be excavated to a depth of 1.5-feet deep on the location.
- The area in the vicinity of **B-2** (the old tank battery) will be excavated 0.5-feet.
- All of the excavated material will be hauled to Lea Land LLC, a NMOCD approved disposal facility.
- The excavated area will be backfilled with new caliche, machine compacted and contoured to match the surrounding location.
- A final closure report documenting the remedial actions, a final C-141 and seeding labels will be provided to the NMOCD District II Artesia Office.

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

Simberly Wilson
Kimberly M. Wilson
Project Man

Project Manager

David J. Adkins

District Manager

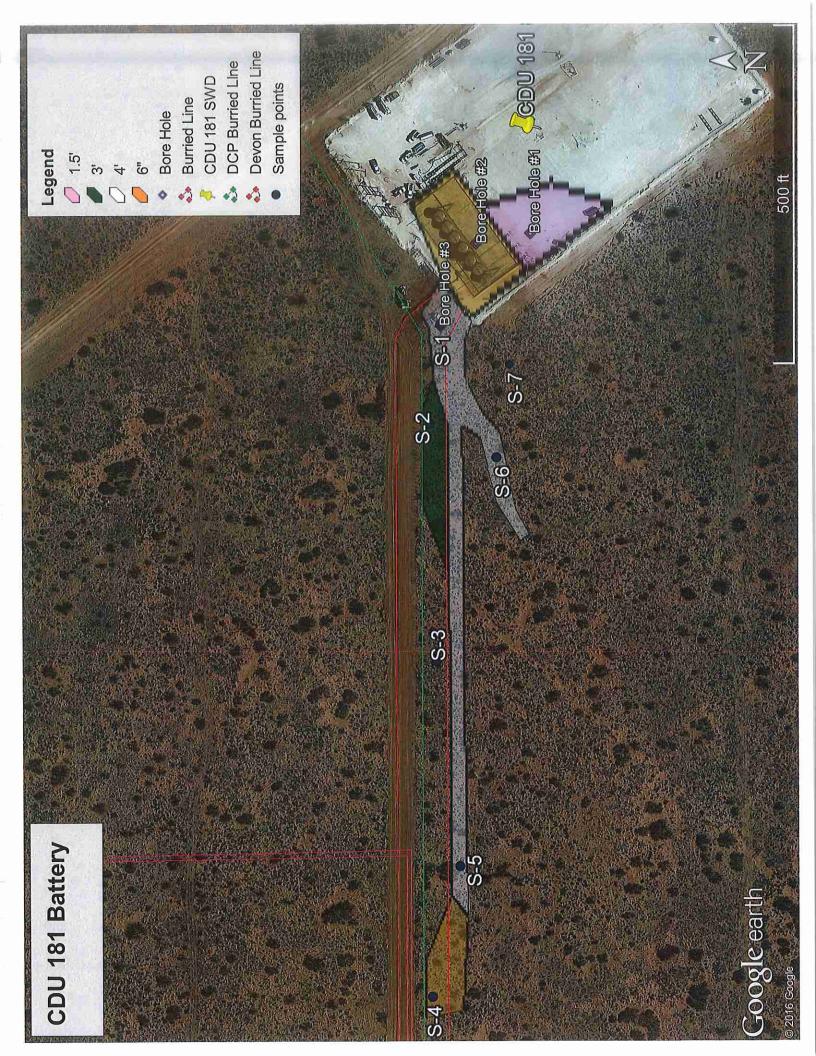
Attachments:

Appendix I Site Plan

Appendix II Groundwater Data & Initial C-141

Appendix III Laboratory Results

APPENDIX I SITE MAP



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)

		POD											
		Sub-	Q	Q	Q							W	ater
POD Number	Code	basin County	64	16	4 9	Sec	Tws	Rng	Х	Υ	DistanceDe	othWellDepthWaterCo	lumn
C 02572		ED	4	2	2	02	25S	31E	618695	3559294*	2009	852	
C 02568		ED	4	3	ì	01	25S	31E	619103	3558892*	2009	1025	
C 02569		ED	4	4	2	02	258	31E	618699	3558891*	2273	1016	
C 02573		ED	1	4	2	02	25S	31E	618499	3559091*	2288		
C 02571		ED	4	1	2	02	25S	31E	618292	3559294*	2343	860	
C 02574		ED	1	1	2	02	25S	31E	618092	3559494*	2425		
C 02570		ED	4	2	4	02	25S	31E	618704	3558489*	2572	895	
C 03830 POD1		CUB ED	4	2	4	02	25S	31E	618632	3558432 🦱	2660	450	

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count:8

UTMNAD83 Radius Search (in meters):

Easting (X): 620295

Northing (Y): 3560510

Radius: 5000

*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.

2/7/17 8:42 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

NM OIL CONSERVATION ARTESIA DISTRICT

State of New Mexico **Energy Minerals and Natural Resources**

Form C-141 Revised August 8, 2011

NOV 1 0 2016 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC. **RECEIVED**

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

Oil Conservation Division 1220 South St. Francis Dr.

1220 S. St. Francis	o Dr., Ganta	10,140,07505	'	Sa	ınta Fe	, NM 875	05					
	et glangt memilikan permanen personan dan		Rele	ease Notific	ation	and Co	rrective A	ction		terajunitari komoneratopuli irkat kinji kulora	olimitary and an artifacture of	despolantische ist der den myterder und einer danzeite
DAB163	314511	125				OPERA'	ror			l Report		Final Report
			Product	ion Company /	137	Contact Ja	ke Harrington,	Produc	tion Foren	nan		
Address 648							No. 432-214-51					
Facility Nam	ne Cotton	Draw Unit	SWD 181]	Facility Ty	oe Salt Water D	isposal	······································	·····		
Surface Own	ner State			Mineral (Owner (State			API No	30-015-4	1649	турот по
				LOCA	ATION	OF REI	LEASE					
Unit Letter H	Section 36	Township 24S	Range 31E	Feet from the 1568	North/	South Line North	Feet from the 1189	i	West Line East	County Eddy		
			Lat	titude: 32.1767	349	Lon	gitude: -103.726	8524				ن
						OF RELI	-	.0227				
Type of Relea	se			IVAI	URL	Volume of			Volume I	Recovered		
Produced wate						2450 BBL	S Produced Water			S Produced		
Source of Rele Produced Water						1	Hour of Occurre @ 11:45pm	nce		Hour of Di @ 11:45pr		y
Was Immedia			*,	1		If YES, To	Whom?					
By Whom?			Yes _	No Not Re	equirea ———	Mike Brate Date and I				···		
Jake Harringto	n, Product	ion Foreman				November	3, 2016 @ 9:50 A					
Was a Watero	course Rea	ached?	Yes 🗵	No		If YES, Vo N/A	olume Impacting	the W	atercourse			
If a Watercou	ırse was Iı	npacted, Des	cribe Ful	ly.*		l						
N/A Describe Caus	se of Prob	lem and Ren	nedial Ac	tion Taken *								
The SWD was	struck by	lightning resu	ılting in a	release of 2450 B	BLS pro	duced water	and a fire. The po	wer lin	es to the fac	ility were i	mmedi	ately turned
off to prevent i	further rele	ease. The loca	ıl Fire Der	partment was calle	ed to ensi	ure safety an	d to extinguish the	e fire. T	he facility of	lid have ligi	itning	orotection on
Describe Area									•			
				en lighting struck Vacuum trucks r								
remediation.							L		•	•		
				e is true and comp nd/or file certain r								
public health o	operators or the envir	onment. The	acceptan	ce of a C-141 repo	ort by the	NMOCD m	arked as "Final R	teport"	does not rel	ieve the ope	rator o	f liability
				investigate and r								
or the environi federal, state, o				stance of a C-141	report de	oes not reliev	e the operator of	respons	sibility for c	ompliance v	vith an	y other
				A. 1 4			OIL CON	SERV	ATION	DIVISIO	<u> </u>	
Signature: Sa	rah Go	illegos-T	rouble	field				,	. P.	,		
Printed Name:	Sarah Ga	legos-Troubl	efield			Approved by	Environ Sizza d	Becialis	11/4 /	KARTULE	<u>e_</u>	•
Title: Field Ac	dmin Supj	port					te: 1111416		Expiration	Date: N	<u>م</u>	
E-mail Addres	s; Sarah.	Gallegos-Tro	ublefield(@dvn.com		Conditions o	f Approval:			Attached	. IV	

* Attach Additional Sheets If Necessary

Phone: 575.748.1864

Date: 11/10/2016

APPENDIX III LABORATORY RESULTS



November 08, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #181 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/07/16 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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:

11/07/2016

Reported: 11/08/2016

Project Name:

COTTON DRAW #181 BATTERY

Project Number: Project Location: 700794.205.01

EDDY COUNTY, NM

Sampling Date:

Sample Received By:

Sampling Type: Soil

Sampling Condition:

Cool & Intact

11/03/2016

Jodi Henson

Sample ID: S-1 0 (H602507-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/07/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	11.9	10.0	11/07/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	104 !	% 35-147	7						
Surrogate: 1-Chlorooctadecane	99.4	% 28-17.	1						

Cardinal Laboratories

*=Accredited Analyte

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Celeg Di Keene



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

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: S-1 1 (H602507-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0,050	11/07/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2,18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	99.5	% 35-147	7						
Surrogate: 1-Chlorooctadecane	97.2	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: S-1 2 (H602507-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/07/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 9	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	88.3	% 35-147	7						
Surrogate: 1-Chlorooctadecane	90.9	% 28-171	ļ						

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*=Accredited Analyte

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Celeg & Keine



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

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

700794.205.01

Sample Received By:

Jodi Henson

Project Number:

EDDY COUNTY, NM

Project Location:

Sample ID: S-1 3 (H602507-04)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/07/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/07/2016	ND	2.28	114	2.00	1,03	
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 %	5 73.6-140)						
Chloride, SM4500CI-B	mg/l	кg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5360	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg/l	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	11/07/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	89.5 %	6 35-147	W						
Surrogate: 1-Chlorooctadecane	89.3 9	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey Ditiene



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

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Sample Received By:

Jodi Henson

Project Location: EDDY COUNTY, NM

Sample ID: S-1 4 (H602507-05)

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	11/07/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/07/2016	ND	2.28	114	2,00	1.03	
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 73.6-14	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	98.0	% 35-147	K						
Surrogate: 1-Chlorooctadecane	102 9	6 28-171							

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Celey Theene



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

Fax To:

(575) 745-8905

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: S-2 0 (H602507-06)

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	11/07/2016	ND	2,25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/07/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/07/2016	ND	2,18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/07/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/07/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 %	% 73.6-140)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.0	10.0	11/07/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	675	10.0	11/07/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	88.7	% 35-147							
Surrogate: 1-Chlorooctadecane	100 9	% 28-171							

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Celeg & Keine



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

16

Received: 11/07/2016 Reported: 11/08/2016

Project Name: COTTON DRAW #181 BATTERY

Project Number: 700794.205.01

Project Location: EDDY COUNTY, NM

Sampling Date: Sampling Type: 11/03/2016

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-2 1 (H602507-07)

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	11/08/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/08/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0,300	0.300	11/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 73.6-14	0						_
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3480	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	14.6	10.0	11/07/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	85.4	% 35-147							
Surrogate: 1-Chlorooctadecane	96.8	% 28-171							

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Celeg D. Keine



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Fax To:

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Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: S-2 2 (H602507-08)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/08/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	73.6-14	0						
Chloride, SM4500CI-B	mg/l	кg	Analyzed By: AC						

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	15.2	10.0	11/07/2016	ND	190	95.2	200	2.96	

Surrogate: 1-Chlorooctane

91.4%

35-147

Surrogate: 1-Chlorooctadecane

105 %

28-171

Sample ID: S-2 3 (H602507-09)

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8930	16.0	11/08/2016	ND	400	100	400	0.00	QM-07

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Fax To:

(575) 745-8905

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: S-2 4 (H602507-10)

Sample ID: S-3 0 (H602507-11)

Chloride,	SM4500	CI-B
-----------	--------	------

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit Analyzed

Method Blank

BS

% Recovery 100

True Value QC

Qualifier

RPD

0.00

Chloride

320

11/08/2016 16.0

ND

400

400

BTEX 8021B	mg,	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/08/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/08/2016	ND					

Surrogate.	4-Rramo	fluorobenzene	(PIL.

110%

73.6-140

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/07/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	<10.0	10.0	11/07/2016	ND	190	95.2	200	2.96	

Surrogate: 1-Chlorooctane

95.0 %

35-147 28-171

Surrogate: 1-Chlorooctadecane

87.6%

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Celley D. Keene



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Fax To:

(575) 745-8905

Received: Reported: 11/07/2016

11/08/2016

COTTON DRAW #181 BATTERY

Project Number: Project Location:

Project Name:

700794.205.01

EDDY COUNTY, NM

Sampling Date:

Sample Received By:

Soil

Sampling Type: Sampling Condition:

Cool & Intact

11/03/2016

Jodi Henson

Sample ID: S-3 1' (H602507-12)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Result 48.0

Reporting Limit

16.0

Reporting Limit

Reporting Limit

Analyzed 11/08/2016 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD 0.00 Qualifier

Sample ID: S-3 2 (H602507-13)

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Chloride

Chloride

32.0

Result

11/08/2016 16.0

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD Qualifier

0.00

Sample ID: S-3 3 (H602507-14)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

Analyzed

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

32.0

Result

16.0 11/08/2016 ND

BS 400

100

400

0.00

Sample ID: S-3 4 (H602507-15)

mg/kg

Analyzed By: AC

Chloride, SM4500CI-B Analyte Chloride

Result

32.0

Reporting Limit

16.0

Analyzed 11/08/2016 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD

0.00

Qualifier

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Fax To:

(575) 745-8905

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: S-4 0 (H602507-16)

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	11/08/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0,050	11/08/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0,300	11/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/08/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	83.2	% 35-147							
Surrogate: 1-Chlorooctadecane	90.9	% 28-171							

Sample ID: S-4 1 (H602507-17)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/08/2016	ND	400	100	400	0.00	

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Fax To:

(575) 745-8905

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: S-4 2 (H602507-18)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Result

Reporting Limit

Analyzed Method Blank

BS

400

400

% Recovery

True Value QC

Qualifier

RPD

0.00

0.00

RPD

0.00

Chloride

160

16.0

11/08/2016

ND

100

400

Sample ID: S-4 3 (H602507-19)

mg/kg

Analyzed By: AC

Analyzed

Method Blank BS % Recovery

% Recovery

100

Qualifier

Qualifier

Chloride

Chlor

Result 48.0

Reporting Limit 16.0

11/08/2016

ND

100

True Value QC 400

True Value QC

400

RPD

Sample ID: S-4 4 (H602507-20)

Chloride, SM4500CI-B

Chloride, SM4500Cl-B

Analyte

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	method Blank	BS	
ride	64.0	16.0	11/08/2016	ND	400	

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Celey D. Keens -

Celey D. Keene, Lab Director/Quality Manager

Page 13 of 26



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

Received:

11/07/2016

Reported:

11/08/2016

Project Name:

COTTON DRAW #181 BATTERY

Project Number:

Project Location:

700794.205.01

EDDY COUNTY, NM

Sampling Date:

11/03/2016

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-5 0 (H602507-21)

BTEX 8021B	mg/	kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/08/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIE	111 %	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10,0	10.0	11/08/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	73.6	10.0	11/08/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	105 5	% 35-147	,						
Surrogate: 1-Chlorooctadecane	113 9	% 28-171							

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Celeg & Kreene-



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Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Name:

700794.205.01

Project Number: Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: S-5 1 (H602507-22)

Sample 10: 3-3 1 (11002307-22	.)								
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	11/08/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/08/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.63	110	6.00	0,532	
Total BTEX	<0.300	0.300	11/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/08/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	190	95.2	200	2.96	

Surrogate: 1-Chlorooctane

99.4%

35-147

Surrogate: 1-Chlorooctadecane

105 %

28-171

Sample ID: S-5 2 (H602507-23)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16,0	11/08/2016	ND	400	100	400	0.00	

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Celleg D. Keine



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

(575) 745-8905

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: S-5 3 (H602507-24)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed

Method Blank

BS 400 True Value QC

RPD 0.00 Qualifier

Chloride

6930

16.0

11/08/2016

ND

100

% Recovery

400

Qualifier

Sample ID: S-5 4 (H602507-25)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Reporting Limit Analyzed Method Blank True Value QC RPD Analyte Result BS % Recovery 3280 400 0.00 Chloride 16.0 11/08/2016 ND 400 100

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Celeg & treene

Celey D. Keene, Lab Director/Quality Manager

Page 16 of 26



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

Fax To:

(575) 745-8905

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Project Location:

Sample Received By:

EDDY COUNTY, NM

Jodi Henson

Sample ID: S-6 0 (H602507-26)

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	11/08/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/08/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.63	110	6.00	0,532	
Total BTEX	<0.300	0.300	11/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	6 73.6-140	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/08/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	97.4	% 35-147							
Surrogate: 1-Chlorooctadecane	91.3	% 28-171							

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Celley D. Keine



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

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Project Location:

EDDY COUNTY, NM

Sample Received By:

Jodi Henson

Sample ID: S-6 1 (H602507-27)

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	11/08/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/08/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIE	112 9	6 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5460	16.0	11/08/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10,0	10.0	11/08/2016	ND	196	98.1	200	2,83	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	97.4% 35-147		7						
Surrogate: 1-Chlorooctadecane	85.5	% 28-17.	1						

Sample ID: S-6 2 (H602507-28)

Chloride, SM4500CI-B	hloride, SM4500Cl-B mg		kg Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8800	16.0	11/08/2016	ND	400	100	400	0.00	

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

Fax To:

(575) 745-8905

Received:

11/07/2016

Sampling Date:

11/03/2016

Reported:

11/08/2016

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

700794.205.01

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample ID: S-6 3 (H602507-29)

Chloride, SM4500Cl-B

Chloride

Chloride

mg/kg

7330

1870

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed 11/08/2016 Method Blank ND

BS % Recovery

432

108

108

True Value QC

400

RPD 0.00 Qualifier QM-07

Sample ID: S-6 4 (H602507-30)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte Result

Reporting Limit

16.0

16.0

Analyzed 11/08/2016 Method Blank ND

BS % Recovery 432

True Value QC

400

RPD 0.00

Qualifier

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Celeg D. Keine



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

Received: Reported: 11/07/2016

11/08/2016

11/08/20

Project Name: COTTON DRAW #181 BATTERY
Project Number: 700794.205.01

Project Location:

700794.205.01 EDDY COUNTY, NM Sampling Date:

i. -

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

11/03/2016

Jodi Henson

Sample ID: S-7 0' (H602507-31)

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	11/08/2016	ND	2.25	113	2.00	0.355	
Toluene*	<0.050	0.050	11/08/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	<0.150	0.150	11/08/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIC	111 %	6 73.6-14	0						
Chloride, SM4500CI-B	oride, SM4500CI-B mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/08/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/08/2016	ND	196	98.1	200	2.83	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	91.8	% 35-147							
Surrogate: 1-Chlorooctadecane	94.8	% 28-171							

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Celeg D. Keine



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

Fax To:

(575) 745-8905

Received: Reported: 11/07/2016

11/08/2016

COTTON DRAW #181 BATTERY

Project Name: Project Number:

700794.205.01

Project Location:

EDDY COUNTY, NM

Sampling Date:

11/03/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-7 1' (H602507-32)

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	11/08/2016	ND	2.25	113	2.00	0.355	
Toluene*	< 0.050	0.050	11/08/2016	ND	2.28	114	2.00	1.03	
Ethylbenzene*	<0.050	0.050	11/08/2016	ND	2.18	109	2.00	1.00	
Total Xylenes*	< 0.150	0.150	11/08/2016	ND	6.63	110	6.00	0.532	
Total BTEX	<0.300	0.300	11/08/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	6 73.6-14	0						
hloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/08/2016	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/08/2016	ND	196	98.1	200	2,83	
DRO >C10-C28	<10.0	10.0	11/08/2016	ND	190	95.2	200	2.96	
Surrogate: 1-Chlorooctane	98.2	% 35-147							
Surrogate: 1-Chlorooctadecane	1069	6 28-171							

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Celeg & Keine -



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NIM 88240 (575) 393-2326 FAX (575) 393-2476		3.8%		
Company Name: Talon/LPE		8/1/17/0	ANALYSIS REQUEST	1
Hims	15.	P.O. 些		-
<u>></u>	Ω	Company: Talon/LPE		nonpo _s tern
State: NM	Zip: 88210 At	Attn:		MINISTER OF
-746-8768 Fax#: 575-7		Address:		Page 184
10 500 persun	Devon	City:		<u> </u>
Cotto Otroios	111	State: Zip:		essekte
roject location:	Pi	Phone #:	22	
injury Name:	75	Fax #:	sle	
EGRI MALUSE ONLY	MATRIX	PRESERV. SAMPLING		-
	OR (C)OMP. INERS OWATER WATER	OI.	Alos EX	usta Askara
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10 52 4		/ •		
Cardina's liability a agligance and any sia for incidental or	ny daim arising whether based in contract or keemed walved unless made in writing and re- without limitation, business interruptions, loss	tert, shall be limited to the amount paid by techned by Cardinal within 30 days after our techned by Cardinal within an analysis after our techness of tuse, or less of profits incurred by calent,	in ellent per pro	
Relinquished By: Time: Time:	Received By:	- RE	Phone Result: ☐ Yes ☐ No Add'I Phone #: Fax Result: ☐ Yes ☐ No Add'I Fax #: REMARKS:	
Relinquished By: Park 1/16	Received By:	MOON	Rush	
(Circle One) #75 u	Sample Condition Cool infact Pres Pres	Thinks of the same		-
T.		H		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393.2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(010) 000-0000 100 (010)	. ANALYSIS REQUEST
Company Name: Talon/LPE	
CHILLIAN OF	7.0.非
Ġ.	Company: 181001/LPE
State: NM Zip: 88210	Attn:
-746-8768 Fax #: 575-746-8905	Address:
70/ Project Owner: Devom	City:
me: Potto Drain 181 Rattain	State: Zip:
Committee Min	Phone 中:
Sampler Name:	Fax#
TON OF THE	PRESERV SAMPLING
IDGE	HER: DIBASE: /COOL HER: TPH BIEX
W Si	A
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PLEASE NOTE: Lability and Borrague. Coldinate Schilly and clients activate tensors of the spilosoble construction of the applicable construction of the app	en de version de la company de
analyses. All calms including those for negligenes and any other cause whatenever shall be deemed waived unless made in wildig and	a pro-tree of years and the profession of the pr

Sampler - UPS - Bus - Other: #15

Delivered By: (Circle One)

Received By:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other: # 75 4,12 Cool Tight	Date: Regeived	inalgers. All claims including those for negligence and any other durant winaccurs in an appear. All claims including those for negligence and any other durant winaccurs in an appear, in no event that it countries in label for includental or contequential disruption, hashing without finithfort, business of whether such than is based upon any of the above stated tensor or otherwise. Phone Result: Received by: Received by: Received by:	The species with the species of the	2000	76 5-6 0	24 5-5 3		.0	GR	RAB OR (C)OMI ONTAINERS OUNDWATER STEWATER	Sampler Name: Kim Willson Sampler Name: Kim Willson MATRIX	Project Name: (Biffigs Strain) 101 Outlean	0/ Project	1	Address: 408 W. Texas Ave.	Project Manager: Kindher Wiksen	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Cool Tatast	Condition CHECKERBY: Much	uch delm's based uson say of the above stated resonance of otherwise. Uch delm's based uson say of the above stated resonance of otherwise. Phone Result: Yes I No Add'I Fax #: Fax Result: Yes I No Add'I Fax #:	n contrast of text, shall be limited to the autour paid by the close for the complete of the c	3:03	22.56	2:30	7:25		SIL OT AC	UDGE THER: CID/BASE: E/COOL THER:	PRESERVI SAMPLING	Phone #:	State: Zip:	Address:	Attn:	Company: Talon/LPE	ANALYSIS REQUEST

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



THE TUBY Y

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Topical Manager: #2001LPE darbass: 406 W. Texas Ave. Status: Note: 575-746-8905 Fex st 575-746-8905 Mattheway: 575-74	(575) 393-2326 FAX (575) 393-2476 BULLEO ANALYSIS REQUEST
--	---



February 02, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #181 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 02/01/17 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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:

02/01/2017

Sampling Date:

01/26/2017

Reported:

02/02/2017

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

** (See Notes)

Project Number:

700794.205.01

Project Location:

EDDY COUNTY, NM

Sample Received By:

Angela Cabrera

Sample ID: B-1 1' (H700244-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	02/02/2017	ND	432	108	400	0.00	

Sample ID: B-1 2' (H700244-02)

Chloride, SM4500CI-B	mg/kg		Anaiyze	а ву: АС					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	02/02/2017	ND	432	108	400	0.00	

Sample ID: B-1 3' (H700244-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	02/02/2017	ND	432	108	400	0.00	

Sample ID: B-1 4' (H700244-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	02/02/2017	ND	432	108	400	0.00	

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*=Accredited Analyte

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01/26/2017

Reported:

02/02/2017

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

16.0

Reporting Limit

Reporting Limit

Reporting Limit

Sampling Condition:

** (See Notes)

Project Number:

700794.205.01

Sample Received By:

Angela Cabrera

Project Location:

EDDY COUNTY, NM

Sample ID: B-1 6' (H700244-05)

Chioride, 5M45UUCI-E	Chloride	, SM4500CI-E
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mg/kg

Analyzed By: AC

Analyte

Reporting Limit Result

208

Analyzed 02/02/2017

Analyzed

Analyzed

Analyzed

02/02/2017

Method Blank ND

BS 432

% Recovery True Value QC RPD 0.00 Qualifier

Sample ID: B-1 10' (H700244-06)

Chloride	SM4500CI-B	

Analyte

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

RPD

0.00

Chloride

Chloride

Result 224

Result

560

Result

48.0

Result 48.0

16.0 02/02/2017 Method Blank ND

BS 432 % Recovery 108

108

True Value QC 400

400

Qualifier

Sample ID: B-2 1' (H700244-07)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

16.0 02/02/2017 ND

BS 432

108

400

0.00

Sample ID: B-2 2' (H700244-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Method Blank

ND

% Recovery

True Value QC

400

Qualifier

Chloride

16.0 02/02/2017

432

BS

108

108

400

RPD

Chloride

Sample ID: B-2 3' (H700244-09)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

16.0

Reporting Limit Analyzed

Method Blank ND

BS 432 % Recovery True Value QC

RPD 0.00

0.00

Qualifier

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Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

** (See Notes)

700794.205.01

Sample Received By:

Angela Cabrera

Project Number:

Project Location: EDDY COUNTY, NM

Sample ID: B-2 4' (H700244-10)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

0.00

Chloride

48.0

16.0

02/02/2017

Analyzed

02/02/2017

ND

432

108

% Recovery

400

Qualifier

Qualifier

Sample ID: B-2 5' (H700244-11)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

True Value QC

400

Chloride

Chloride

Chloride

Chloride

Result 48.0

Reporting Limit 16.0

16.0

16.0

16.0

Method Blank ND

BS 432

108

RPD

0.00

Sample ID: B-3 5' (H700244-12)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Reporting Limit Result Analyte

2560

4400

1680

Analyzed

02/02/2017

Method Blank

ND

% Recovery

108

True Value QC

400

400

RPD 0.00

RPD

0.00

Qualifier

Sample ID: B-3 10' (H700244-13)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

Analyzed By: AC

Result

Reporting Limit Analyzed 02/02/2017 Method Blank

ND

BS 432

BS

432

% Recovery 108

True Value QC

Oualifier

Sample ID: B-3 15' (H700244-14)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Result

Reporting Limit

Analyzed 02/02/2017 Method Blank ND

BS % Recovery 432 108

True Value QC 400

RPD Qualifier 0.00

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01/27/2017

Reported:

02/02/2017

Sampling Type:

Soil

Project Name:

COTTON DRAW #181 BATTERY

Sampling Condition:

** (See Notes)

Project Number:

700794.205.01

Project Location:

EDDY COUNTY, NM

Sample Received By:

Angela Cabrera

Sample ID: B-3 20' (H700244-15)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	02/02/2017	ND	432	108	400	0.00	

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Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

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Interior of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		
company Name: Talon/LPE		ANALYSIS REQUEST
· .	P.O. 崇	
N. Texas Ave.	company: Talon/LPE	
state: NM	Zip: 88210 Attn:	
-746-8768 F	-8905 Address:	
700794.205.51 Project Owner:	levon city:	
COHO DANGER	tery State: Zip:	
Eddu Cty	Phone #:	
4	Fax#:	
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3 B-1 3°		2:54
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:/ Date:	Secenced by:	- t/sh /
Sampler-UPS - Bus - Other: #15 17.42	yes yes	



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 FAX (575) 393-2476	ANALYSIS REQUEST
company Name: Talon/LPE	
roject Manager: Kimberly Wilson	
e.	Company: IdiCIVLTE
	Attn:
-746-8768	Address:
13	City:
Project Name: 10ton Draw #/81 Battery	State: Zip:
on: Eddy	*
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Delivered By: (Circle One) Sample Condition Cool Infact Cycs Press	res (miss)
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