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Soil Assessment and Remediation Work Plan

Cotton Draw No. 292H * 30-015-43261

Talon Project No. 700794.187.01

Prepared For:

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

Prepared By:

Kimberly M. Wilson
Talon/LPE
408 West Texas
Artesia, New Mexico 88210

July 1, 2016

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

Subject: **Soil Assessment and Remediation Work Plan**
Devon Energy
Cotton Draw 292H * 30-015-43260

Dear Mr. Bratcher,

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Incident Date

January 20, 2016

Site Information

The Cotton Draw No. 292H is located approximately forty-five (45) miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 36, Township 24 South and Range 31 East in Eddy County, New Mexico. More specifically the latitude and longitude for the location are 32.171190 North and 103.733350 West. See site plan in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS), the soil in this area is made up of Berino complex with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the Chevron Texaco ground water trend map, the ground water in this area is between 390 and 400 feet below ground surface (BGS). 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. See [Appendix II](#).

Incident Description

A treated water transfer line going from the Trionyx water treatment pond to the Cotton Draw Unit #292H developed a leak on to the lease road and the adjacent pipeline easement. The water pumps were shut down immediately, the section of line was repaired and replaced. Fifteen (15) barrels of produced water were released and no fluids were recovered. The spill coordinates are N 32.17119 and W 103.73335. The release is located approximately 0.8 miles southwest of the Cotton Draw # 292H. A site plan is presented in [Appendix I](#) which illustrates the impacted area.

On April 21, 2016, Talon mobilized personnel to begin the preliminary site assessment and to collect initial soil samples from the impacted area with a hand auger to a depth of 4-feet deep, where refusal was encountered. Laboratory results are presented below in [Table 1](#).

Talon returned to the site with a backhoe for further vertical delineation of the impacted area at the most heavily impacted location (S-2), the pooling area. Vertical delineation sampling was carried out May 5, 2016. Laboratory results are presented below in [Table 2](#).

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

April 25, 2016

[Table 1](#)

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	--	17600	--	--
	1'	--	3720	--	--
	2'	--	1820	--	--
	3'	--	320	--	--
	4'	--	656	--	--
S-2	0'	--	6640	--	--
	1'	--	5280	--	--
	2'	--	4880	--	--
	3'	--	4720	--	--
	4'	--	3920	--	--
S-3	0'	--	3840	--	--
	1'	--	4560	--	--
	2'	--	4080	--	--
	3'	--	3760	--	--
	4'	--	3560	--	--

--Analyte Not Tested

May 11, 2016

Table 2

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-2	5'	--	3440	--	--
	6'	--	7840	--	--
	7'	--	2680	--	--
	8'	--	64	--	--
	9'	--	48	--	--

--Analyte Not Tested

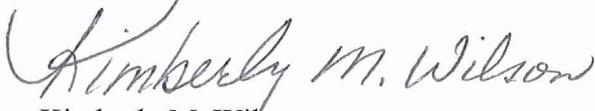
Conclusions and Proposed Remedial Actions

- Ground water in the project vicinity is greater than 390-feet deep below land surface according to the Chevron/Texaco water trend map.
- The impact areas will be excavated to a depth of 3-feet deep and the impacted soil over the high pressure lines will be hand-excavated to the best extent reasonable, feasible and as safely as possible.
- All contaminated soil will be transported to Lea Land, LLC, an NMOCD approved disposal facility.
- Once the backfill activities are complete the work area will be re-contoured to match the surrounding terrain.
- Per the New Mexico State Land Office (NMSLO) requirements, the area will be seeded with BLM seed mixture #2 for sandy sites utilizing a seed drill.
- A final closure report documenting all remedial actions 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



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

Cotton Draw 292

Legend

-  Cotton Draw #292 spill
-  Impacted Area
-  Sample

Cotton Draw #292 spill

S-3

S-1

S-2

Google earth

100 ft



APPENDIX II
GROUNDWATER DATA
INITIAL C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Devon Energy Production Co LP (6137)	Contact: Jeff Heath, Devon Completions Asst. Foreman
Address: PO Box 250 Artesia, NM 88211	Telephone No. 575-513-2274
Facility Name: Cotton Draw Unit #292H	Facility Type: Oil Well

Surface Owner: State	Mineral Owner: State	API No. 30-015-43261
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
K	36	24S	31E	1785	South	1882	West	Eddy

Latitude: **32.171190** Longitude: **-103.733350**

NATURE OF RELEASE

Type of Release: Treated Produced Water	Volume of Release: 15 barrels	Volume Recovered: 0 barrels
Source of Release: Water Transfer Line	Date and Hour of Occurrence 1/20/2016; 4:00 AM	Date and Hour of Discovery 1/20/2016; 4:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - OCD	
By Whom? Jeff Heath - Devon Completions Asst. Foreman	Date and Hour: 1/20/2016; 4:00 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.* **NA**

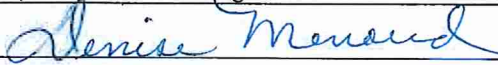
Describe Cause of Problem and Remedial Action Taken.*

A treated produced water transfer line going from the Trionyx Water Treatment Pond to the Cotton Draw Unit #292H developed a leak on to the lease road and the pipeline easement following the lease road. The water pumps were shut down immediately, line pinchers were applied to stop the release and isolate the damaged area, and the damaged section of line was replaced. The line had been split and the cause is under investigation at this time, but it appears to have been struck by a vehicle.

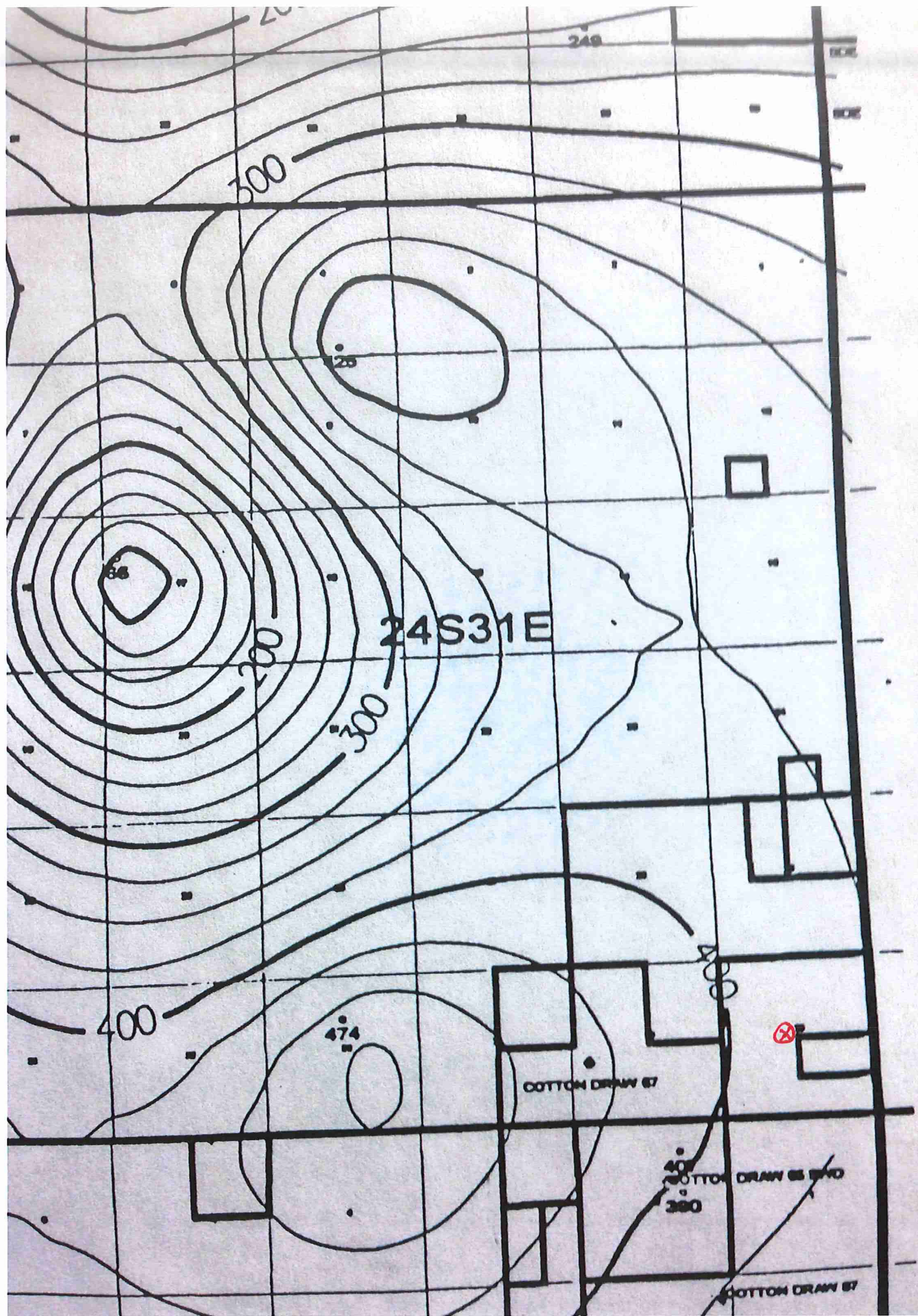
Describe Area Affected and Cleanup Action Taken.*

The spill area affected is approximately 50' x 200' on the pipeline easement following the lease road. A central location of the spill is: Lat - N 32.17119; Long - W -103.73335, running North and South, and is approximately 0.8 miles Southwest of the Cotton Draw Unit #292H. An estimated 15 barrels of treated produced water was spilled and none was recovered, all water soaked into the sand. An environmental company will be called to test and create a remediation plan for submittal.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Denise Menoud	Approved by Environmental Specialist:		
Title: Field Admin Support	Approval Date:	Expiration Date:	
E-mail Address: Denise.Menoud@dmv.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 1/21/2016	Phone: 575-746-5544		

* Attach Additional Sheets If Necessary



APPENDIX III
LABORATORY RESULTS

April 25, 2016

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #292

Enclosed are the results of analyses for samples received by the laboratory on 04/22/16 12:16.

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

Cardinal Laboratories is accredited 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.

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

Analytical Results For:

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

Received: 04/22/2016
Reported: 04/25/2016
Project Name: COTTON DRAW #292
Project Number: 700794.187.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/21/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-1 0' (H600878-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17600	16.0	04/22/2016	ND	416	104	400	0.00	

Sample ID: S-1 1' (H600878-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3720	16.0	04/22/2016	ND	416	104	400	0.00	

Sample ID: S-1 2' (H600878-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1820	16.0	04/22/2016	ND	416	104	400	0.00	

Sample ID: S-1 3' (H600878-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/22/2016	ND	416	104	400	0.00	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/22/2016
 Reported: 04/25/2016
 Project Name: COTTON DRAW #292
 Project Number: 700794.187.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/21/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S-1 4' (H600878-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	04/22/2016	ND	416	104	400	0.00		

Sample ID: S-2 0' (H600878-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6640	16.0	04/22/2016	ND	416	104	400	0.00		

Sample ID: S-2 1' (H600878-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5280	16.0	04/22/2016	ND	416	104	400	0.00		

Sample ID: S-2 2' (H600878-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4880	16.0	04/22/2016	ND	416	104	400	0.00		

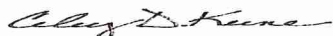
Sample ID: S-2 3' (H600878-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4720	16.0	04/22/2016	ND	400	100	400	0.00		

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/22/2016
Reported: 04/25/2016
Project Name: COTTON DRAW #292
Project Number: 700794.187.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/21/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson

Sample ID: S-2 4' (H600878-10)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	04/22/2016	ND	400	100	400	0.00	

Sample ID: S-3 0' (H600878-11)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	04/22/2016	ND	400	100	400	0.00	

Sample ID: S-3 1' (H600878-12)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	04/22/2016	ND	400	100	400	0.00	

Sample ID: S-3 2' (H600878-13)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4080	16.0	04/22/2016	ND	400	100	400	0.00	

Sample ID: S-3 3' (H600878-14)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	04/22/2016	ND	400	100	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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

Received:	04/22/2016	Sampling Date:	04/21/2016
Reported:	04/25/2016	Sampling Type:	Soil
Project Name:	COTTON DRAW #292	Sampling Condition:	** (See Notes)
Project Number:	700794.187.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-3 4' (H600878-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	04/22/2016	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

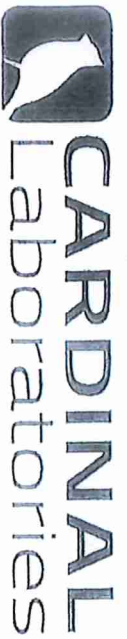
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

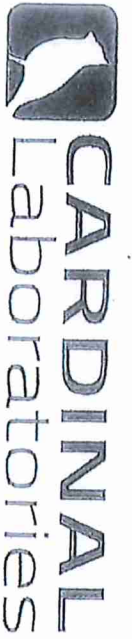


CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 2

Company Name: Talon/LPE		P.O. #:		ANALYSIS REQUEST											
Project Manager: David Adkins		Company: Talon/LPE													
Address: 408 W. Texas Ave.		Attn:													
City: Artesia		State: NM Zip: 88210													
Phone #: 575-746-8768		Fax #: 575-746-8905													
Project #: 700994.18907		Project Owner: Delon													
Project Location: Cotton Draw # 292		City:													
Project Location: Eddy Co		State:													
Project Location: Kim Wilson		Phone #:													
Project Location: Kim Wilson		Fax #:													
FOR LAB USE ONLY		PRESERV		SAMPLING											
Lab I.D.		Sample I.D.													
H000878		5-1 0'													
1		5-1 1'													
2		5-1 2'													
3		5-1 3'													
4		5-1 4'													
5		5-2 0'													
6		5-2 1'													
7		5-2 2'													
8		5-2 3'													
9		5-2 4'													
10		5-2 5'													
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15		5-2 10'													
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41		5-2 36'													
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43		5-2 38'													
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47		5-2 42'													
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51		5-2 46'													
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62		5-2 57'													
63		5-2 58'													
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65		5-2 60'													
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67		5-2 62'													
68		5-2 63'													
69		5-2 64'													
70		5-2 65'													
71		5-2 66'													
72		5-2 67'													
73		5-2 68'													
74		5-2 69'													
75		5-2 70'													
76		5-2 71'													
77		5-2 72'													
78		5-2 73'													
79		5-2 74'													
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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon/PE		P.O. #:		ANALYSIS REQUEST											
Project Manager: David Adkins		Company: Talon/PE													
Address: 408 W. Texas Ave.		Attn:													
City: Artesia		State: NM Zip: 88210													
Phone #: 575-746-8768		Fax #: 575-746-8905													
Project #: 70249.187.01		Project Owner: Dutton													
Project Name: Cotton Drive # 292		City:													
Project Location: Fiddy 134		State: Zip:													
Sampler Name: Kim Wilson		Phone #:													
Fax #:															
FOR LAB USE ONLY															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:			
H000678															
11	5-3 0'	G	1										DATE		
12	1'	G	1										TIME		
13	2'	G	1												
14	3'	G	1												
15	4'	G	1												
PLEASE NOTE: Liability and damages Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for this service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of data, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated causes or otherwise.															
Relinquished By: Kim Wilson	Date: 7/22/16	Time: 11:38	Received By: [Signature]												
Relinquished By: [Signature]	Date: 7/22/16	Time: 12:16	Received By: [Signature]												
Delivered By: (Circle One)	Sample Condition	Checked By: [Signature]													
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:															
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Fax #:															
REMARKS:															

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326
collected 05.12.16 #454

May 11, 2016

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #292

Enclosed are the results of analyses for samples received by the laboratory on 05/05/16 13:15.

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

Cardinal Laboratories is accredited 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.

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

Analytical Results For:

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

 Received: 05/05/2016
 Reported: 05/11/2016
 Project Name: COTTON DRAW #292
 Project Number: 700794.187.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 05/05/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: S-2 5' (H600985-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	05/06/2016	ND	432	108	400	3.77		

Sample ID: S-2 6' (H600985-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7840	16.0	05/06/2016	ND	432	108	400	3.77		

Sample ID: S-2 7' (H600985-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	05/06/2016	ND	432	108	400	3.77		

Sample ID: S-2 8' (H600985-04)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/06/2016	ND	432	108	400	3.77		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 05/05/2016
Reported: 05/11/2016
Project Name: COTTON DRAW #292
Project Number: 700794.187.01
Project Location: EDDY COUNTY, NM

Sampling Date: 05/05/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson


Sample ID: S-2 9' (H600985-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/06/2016	ND	432	108	400	3.77		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE

Project Manager: Kimberly Wilson

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 700794.87 DT

Project Owner: DeLeon

Project Name: Cottonwood 292

Project Location: Eddy Co

Sampler Name: Kim Wilson

P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H600985

3-2 5'

6'

7'

8'

9'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

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Chlorides

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Relinquished By:

Date: 3/5/16

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Relinquished By:

Date: 3/5/16

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Date: 3/1/16

Received By:

Phone Result: ☐ Yes ☐ No

Fax Result: ☐ Yes ☐ No

Add'l Phone #:

Add'l Fax #:

REMARKS:

Sample Condition

CHECKED BY:

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

corrected 3/1/16

#54