



October 9, 2015

AMARILLO  
921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

Mrs. Heather Patterson  
**NMOCD District 2**  
811 S. 1<sup>st</sup> Street  
Artesia, NM 88210

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

Subject: **Remediation and Closure Report**  
Devon Energy  
Cotton Draw Unit No. 113H  
API # 30-015-39517 \* 2RP-2774

Dear Heather,

HOBBS  
318 East Taylor Street  
Hobbs, New Mexico 88240  
Phone 575.393.4261  
Fax 575.393.4658

Devon Energy has contracted Talon/LPE (Talon) to perform soil assessment and remediation services for the Cotton Draw Unit No. 113H release. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

MIDLAND  
2901 State Hwy 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

#### Incident Date

The release occurred on January 27, 2015.

OKLAHOMA CITY  
7700 North Hudson Avenue  
Suite 10  
Oklahoma City, Oklahoma 73116  
Phone 405.486.7030  
Fax 806.467.0622

#### Background Information

The Cotton Draw Unit No. 113H is located approximately fifty-five (55) 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 release are 32.1672814 North and -103.7379624 West. See site map attached in [Appendix I](#).

SAN ANTONIO  
11 Commercial Place  
Schertz, Texas 78154  
Phone 210.265.8025  
Fax 210.568.2191

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Services, 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 underlain with sandy clay loam and hard caliche. Drainage courses in this area are normally dry. Ground water in the project vicinity is greater than 300' 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 as following:

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

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

For this site’s ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg. The chloride standard is considered to be 1,000 mg/kg.

**Incident Description**

A poly line was run over and punctured causing a release of 4 barrels of oil into the pasture. A vac truck was called to the location and recovered 1.5 barrels of fluid. The line was repaired. The impacted area measured approximately 100-feet long by 45-feet wide. Talon mobilized personnel to conduct a site assessment and perform soil sampling at the location. Laboratory results from the soil sampling event are summarized in the table below. See Table 1.

**Laboratory Results**

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

June 1, 2015

Table 1

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	832	<50	4720
	1'	<0.300	48	<10	<10
	2'	<0.300	64	<10	<10
	3'	<0.300	800	<10	<10
S-2	0'	<0.300	<16	<50	12400
	1'	<0.300	<16	<10	53.7
	2'	<0.300	<16	<10	<10
	3'	<0.300	<16	<10	<10

**Remedial Actions Taken**

On July 7, 2015 Talon mobilized personnel and equipment to treat the impacted area with high nitrogen fertilizer and mircoblaze (a bioremediation agent) at the client’s request. The bioremediation agent was left on the impacted area for 90 days.

On October 5, 2015 Talon personnel returned to the site to obtain confirmation samples to determine the treatment's effectiveness. Laboratory results from the soil sampling event are summarized in the table below. See Table 2.

October 7, 2015

Table 2

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	<0.300	--	<10	<10
S-2	0'	<0.300	--	<10	569

As shown, the resulting analytical results are below the NMOCD Recommended Remedial Action Levels (RRAL's).

The impacted area was then seeded using the recommended BLM seed mixture for the area.

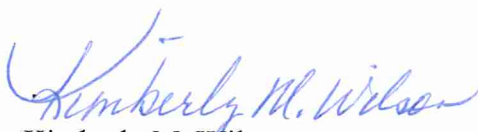
Closure


On behalf of Devon Energy we respectfully request that no further actions be required and that closure with respect to this release be granted. A Final C-141 is also attached. See Appendix IV.

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

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

## NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141  
Revised August 8, 2011

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

RECEIVED

## Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company 6137	Contact Joah Weidemann
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-513-1528
Facility Name Cotton Draw Unit 113	Facility Type Oil

Surface Owner State	Mineral Owner State	API No 30-015-39517
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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
M	36	24S	31E	220	South	660	West	Eddy

Latitude: N 32.1672814 Longitude: W 103.7379624

## NATURE OF RELEASE

Type of Release Spill Oil	Volume of Release 4 bbls	Volume Recovered 1.5 bbls
Source of Release Poly Flow Line	Date and Hour of Occurrence January 27, 2015 @ 2:30 am	Date and Hour of Discovery January 27, 2015 @ 2:30 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? BLM Jim Amos OCD Thomas	
By Whom? Hubert Perry	Date and Hour January 27, 2015 @ 4:25 am and 4:32	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	

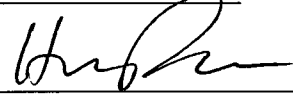
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Ploy line from the Cotton Draw Unit 113 to the Cotton Draw 153 H was ran over by unknown subject and rocks punctured the flow line causing it to spew oil on to the pasture South West of Cotton Draw Unit 113. Enviro Clean was called out to recover the spill. They were able to recover 1.5 bbls of oil.

Describe Area Affected and Cleanup Action Taken.\*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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: Corina Moya	OIL CONSERVATION DIVISION	
Printed Name: Corina Moya	Approved by Environmental Specialist: 	
Title: Field Admin Support	Approval Date: 1/30/15	Expiration Date: N/A
E-mail Address: corina.moya@dvn.com	Conditions of Approval:	
Date: 1-30-2015 Phone: 575.746.5559	Remediation per O.C.D. Rules & Guidelines SUBMIT REMEDIATION PROPOSAL NO	

\* Attach Additional Sheets If Necessary

LATER THAN: 2/28/15

ERP-2774

























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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nAB1503058380
District RP	2RP-2774
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Tom Bynum Title: EHS Consultant

Signature: Tom Bynum Date: 6/24/2020

email: tom.bynum@dvn.com Telephone: 575-748-0176



State of New Mexico  
Oil Conservation Division

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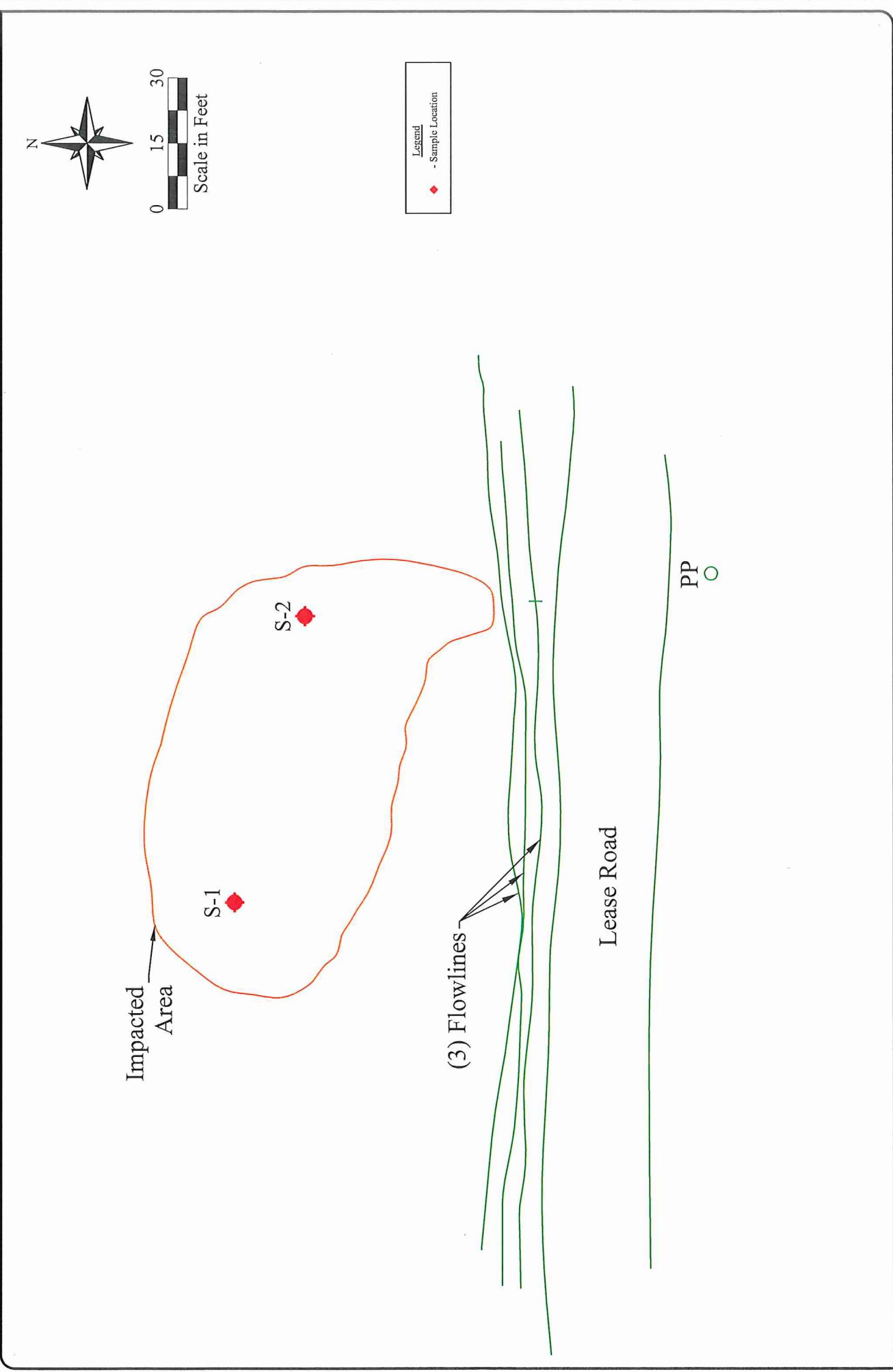
Incident ID	nAB1503058380
District RP	2RP-2774
Facility ID	
Application ID	

**OCD Only**Received by: OCDDate: 7/8/2020

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Ashley Maxwell Date: 12/15/2022Printed Name: Ashley Maxwell Title: Environmental Specialist

**APPENDIX I**  
**SITE MAP**



Date: 06/15/2015
Scale: 1" = 30'
Drawn By: TJS

Cotton Draw #113H  
Devon Energy Corporation  
Eddy County, New Mexico  
Figure 1 - Site Plan

**APPENDIX II**  
**GROUNDWATER DATA**





# 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 Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 02572</a>			ED	4	2	2	02	25S	31E	618695	3559294*	453	852		
<a href="#">C 02571</a>			ED	4	1	2	02	25S	31E	618292	3559294*	726	860		
<a href="#">C 02573</a>			ED	1	4	2	02	25S	31E	618499	3559091*	726			
<a href="#">C 02574</a>			ED	1	1	2	02	25S	31E	618092	3559494*	828			
<a href="#">C 02569</a>			ED	4	4	2	02	25S	31E	618699	3558891*	833	1016		
<a href="#">C 02568</a>			ED	4	3	1	01	25S	31E	619103	3558892*	835	1025		
<a href="#">C 02570</a>			ED	4	2	4	02	25S	31E	618704	3558489*	1226	895		
<a href="#">C 03830 POD1</a>		CUB	ED	4	2	4	02	25S	31E	618632	3558432	1294	450		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 8

UTMNAD83 Radius Search (in meters):

Easting (X): 618894

Northing (Y): 3559701

Radius: 4000

\*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.

6/15/15 10:21 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

**APPENDIX III**  
**LABORATORY RESULTS**



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

June 30, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #113 H

Enclosed are the results of analyses for samples received by the laboratory on 06/02/15 13:25.

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](http://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



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

**Analytical Results For:**

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

Received:	06/02/2015	Sampling Date:	06/01/2015
Reported:	06/30/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #113 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	M-36-24-31		

**Sample ID: S-1 0' (H501407-01)**

BTX 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	06/04/2015	ND	2.28	114	2.00	2.00	
Toluene*	<0.050	0.050	06/04/2015	ND	2.04	102	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/04/2015	ND	2.00	100	2.00	2.25	
Total Xylenes*	<0.150	0.150	06/04/2015	ND	5.85	97.5	6.00	2.69	
Total BTX	<0.300	0.300	06/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	06/08/2015	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/03/2015	ND	189	94.4	200	6.65	
DRO >C10-C28	4720	50.0	06/03/2015	ND	182	91.2	200	7.06	

Surrogate: 1-Chlorooctane 75.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 163 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





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**Analytical Results For:**

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

Received:	06/02/2015	Sampling Date:	06/01/2015
Reported:	06/30/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #113 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	M-36-24-31		

**Sample ID: S-1 1' (H501407-02)**

BTX 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	06/04/2015	ND	2.28	114	2.00	2.00	
Toluene*	<0.050	0.050	06/04/2015	ND	2.04	102	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/04/2015	ND	2.00	100	2.00	2.25	
Total Xylenes*	<0.150	0.150	06/04/2015	ND	5.85	97.5	6.00	2.69	
Total BTX	<0.300	0.300	06/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

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	06/08/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2015	ND	189	94.4	200	6.65	
DRO >C10-C28	<10.0	10.0	06/03/2015	ND	182	91.2	200	7.06	

Surrogate: 1-Chlorooctane 83.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.9 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/02/2015	Sampling Date:	06/01/2015
Reported:	06/30/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #113 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	M-36-24-31		

**Sample ID: S-1 2' (H501407-03)**

BTX 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	06/04/2015	ND	2.28	114	2.00	2.00	
Toluene*	<0.050	0.050	06/04/2015	ND	2.04	102	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/04/2015	ND	2.00	100	2.00	2.25	
Total Xylenes*	<0.150	0.150	06/04/2015	ND	5.85	97.5	6.00	2.69	
Total BTX	<0.300	0.300	06/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

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	06/08/2015	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2015	ND	189	94.4	200	6.65	
DRO >C10-C28	<10.0	10.0	06/03/2015	ND	182	91.2	200	7.06	

Surrogate: 1-Chlorooctane 82.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 86.2 % 52.1-176

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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 KIMBERLY WILSON  
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 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	06/02/2015	Sampling Date:	06/01/2015
Reported:	06/30/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #113 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	M-36-24-31		

**Sample ID: S-1 3' (H501407-04)**

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	06/04/2015	ND	2.28	114	2.00	2.00	
Toluene*	<0.050	0.050	06/04/2015	ND	2.04	102	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/04/2015	ND	2.00	100	2.00	2.25	
Total Xylenes*	<0.150	0.150	06/04/2015	ND	5.85	97.5	6.00	2.69	
Total BTEX	<0.300	0.300	06/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	06/08/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2015	ND	189	94.4	200	6.65	
DRO >C10-C28	<10.0	10.0	06/03/2015	ND	182	91.2	200	7.06	

Surrogate: 1-Chlorooctane 85.4 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.8 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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

Received:	06/02/2015	Sampling Date:	06/01/2015
Reported:	06/30/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #113 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	M-36-24-31		

**Sample ID: S-2 0' (H501407-06)**

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	06/04/2015	ND	2.28	114	2.00	2.00		
Toluene*	<0.050	0.050	06/04/2015	ND	2.04	102	2.00	2.19		
Ethylbenzene*	<0.050	0.050	06/04/2015	ND	2.00	100	2.00	2.25		
Total Xylenes*	<0.150	0.150	06/04/2015	ND	5.85	97.5	6.00	2.69		
Total BTEX	<0.300	0.300	06/04/2015	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 110 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/08/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/03/2015	ND	172	86.2	200	5.38	
DRO >C10-C28	12400	50.0	06/03/2015	ND	165	82.6	200	8.14	

Surrogate: 1-Chlorooctane 89.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 291 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received:	06/02/2015	Sampling Date:	06/01/2015
Reported:	06/30/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #113 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	M-36-24-31		

**Sample ID: S-2 1' (H501407-07)**

BTX 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	06/04/2015	ND	2.28	114	2.00	2.00	
Toluene*	<0.050	0.050	06/04/2015	ND	2.04	102	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/04/2015	ND	2.00	100	2.00	2.25	
Total Xylenes*	<0.150	0.150	06/04/2015	ND	5.85	97.5	6.00	2.69	
Total BTX	<0.300	0.300	06/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/08/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2015	ND	172	86.2	200	5.38	
DRO >C10-C28	53.7	10.0	06/03/2015	ND	165	82.6	200	8.14	

Surrogate: 1-Chlorooctane 98.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

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

Received: 06/02/2015  
Reported: 06/30/2015  
Project Name: COTTON DRAW #113 H  
Project Number: NONE GIVEN  
Project Location: M-36-24-31

Sampling Date: 06/01/2015  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-2 2' (H501407-08)**

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	06/04/2015	ND	2.28	114	2.00	2.00	
Toluene*	<0.050	0.050	06/04/2015	ND	2.04	102	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/04/2015	ND	2.00	100	2.00	2.25	
Total Xylenes*	<0.150	0.150	06/04/2015	ND	5.85	97.5	6.00	2.69	
Total BTEX	<0.300	0.300	06/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 61-154

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/08/2015	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2015	ND	172	86.2	200	5.38	
DRO >C10-C28	<10.0	10.0	06/03/2015	ND	165	82.6	200	8.14	

Surrogate: 1-Chlorooctane 87.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.8 % 52.1-176

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**Analytical Results For:**

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

Received:	06/02/2015	Sampling Date:	06/01/2015
Reported:	06/30/2015	Sampling Type:	Soil
Project Name:	COTTON DRAW #113 H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	M-36-24-31		

**Sample ID: S-2 3' (H501407-09)**

BTX 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	06/04/2015	ND	2.28	114	2.00	2.00	
Toluene*	<0.050	0.050	06/04/2015	ND	2.04	102	2.00	2.19	
Ethylbenzene*	<0.050	0.050	06/04/2015	ND	2.00	100	2.00	2.25	
Total Xylenes*	<0.150	0.150	06/04/2015	ND	5.85	97.5	6.00	2.69	
Total BTX	<0.300	0.300	06/04/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/08/2015	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2015	ND	172	86.2	200	5.38	
DRO >C10-C28	<10.0	10.0	06/03/2015	ND	165	82.6	200	8.14	

Surrogate: 1-Chlorooctane 79.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 84.1 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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### Notes and Definitions

- S-06      The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- ND        Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*        Samples not received at proper temperature of 6°C or below.
- \*\*\*      Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
- Samples reported on an as received basis (wet) unless otherwise noted on report

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

<b>Company Name:</b> Talamore		<b>P.O. #:</b>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>	
<b>Project Manager:</b> Kimberly M. Wilson		<b>Company:</b> Talamore					
<b>Address:</b> 408 W Texas		<b>Attn:</b>					
<b>City:</b> Artesia		<b>State:</b> NM Zip: 88210					
<b>Phone #:</b> 505-946-8968		<b>Fax #:</b>					
<b>Project #:</b>		<b>Project Owner:</b> DEXON					
<b>Project Name:</b> Cotton Drains #113 H		<b>City:</b>					
<b>Project Location:</b> M-36-24-31		<b>State:</b>		<b>Zip:</b>			
<b>Sampler Name:</b> K. Wilson		<b>Phone #:</b>					
<b>Fax #:</b>							

FOR LAB USE ONLY		(G)RAB OR (C)OMP.		# CONTAINERS	MATRIX						PRESERV.	SAMPLING			
Lab I.D.	Sample I.D.				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
H501407	1	G-1	0'	4	/		/							6/1/15	18:20
	2	G-1	1'	4	/		/							12:12	✓
	3	G-1	2'	4	/		/							12:24	✓
	4	G-1	3'	4	/		/							12:26	✓
	5	G-1	4'	4	/		/							12:28	✓
	6	G-2	0'	4	/		/							12:30	✓
	7	G-2	1'	4	/		/							12:32	✓
	8	G-2	2'	4	/		/							12:34	✓
	9	G-2	3'	4	/		/							12:36	✓
	10	G-2	4'	4	/		/							12:38	✓

*(Handwritten note: BTEX TPH CL)*

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<b>Relinquished By:</b>	<b>Date:</b> 6/1/15
<b>Received By:</b>	<b>Date:</b> 6/2-15
<b>Time:</b>	<b>Received By:</b>
<b>Time:</b> 13:25	<b>Time:</b>
<b>Delivered By:</b> (Circle One) <i>K. Wilson</i>	<b>Sample Condition</b> Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<b>Sampler - UPS - Bus - Other:</b>	<b>CHECKED BY:</b> (initials) <i>[Signature]</i>
<b>REMARKS:</b>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Phone #:</b>
	<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No <b>Add'l Fax #:</b>





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October 07, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: COTTON DRAW #113

Enclosed are the results of analyses for samples received by the laboratory on 10/06/15 9:54.

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](http://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



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**Analytical Results For:**

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

Received: 10/06/2015  
 Reported: 10/07/2015  
 Project Name: COTTON DRAW #113  
 Project Number: 700794.153.01  
 Project Location: LEA

Sampling Date: 10/05/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Judy Garcia

**Sample ID: S-1 1.0 (H502637-01)**

BTX 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	10/06/2015	ND	2.21	110	2.00	0.252	
Toluene*	<0.050	0.050	10/06/2015	ND	2.08	104	2.00	0.0576	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.76	87.9	2.00	0.776	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.96	99.3	6.00	1.07	
Total BTX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 85.6-137

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/07/2015	ND	190	95.1	200	0.614	
DRO >C10-C28	<10.0	10.0	10/07/2015	ND	207	104	200	0.380	

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 109 % 52.1-176

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**Analytical Results For:**

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

Received: 10/06/2015  
 Reported: 10/07/2015  
 Project Name: COTTON DRAW #113  
 Project Number: 700794.153.01  
 Project Location: LEA

Sampling Date: 10/05/2015  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Judy Garcia

**Sample ID: S-2 1.0 (H502637-02)**

BTX 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	10/06/2015	ND	2.21	110	2.00	0.252	
Toluene*	<0.050	0.050	10/06/2015	ND	2.08	104	2.00	0.0576	
Ethylbenzene*	<0.050	0.050	10/06/2015	ND	1.76	87.9	2.00	0.776	
Total Xylenes*	<0.150	0.150	10/06/2015	ND	5.96	99.3	6.00	1.07	
Total BTX	<0.300	0.300	10/06/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 85.6-137

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/07/2015	ND	190	95.1	200	0.614	
DRO >C10-C28	569	10.0	10/07/2015	ND	207	104	200	0.380	

Surrogate: 1-Chlorooctane 107 % 47.2-157

Surrogate: 1-Chlorooctadecane 113 % 52.1-176

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

[illegible]

**APPENDIX IV**

**FINAL C-141**



**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 9133

CONDITIONS

Operator: Pima Environmental Services, LLC 5614 N Lovington Hwy Hobbs, NM 88240	OGRID: 329999
	Action Number: 9133
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	12/15/2022