

<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>15156.945</u>	<u>0.016</u>
Cubic Feet of Soil Impacted	<u>20.209</u>
Barrels of Soil Impacted	<u>3.60</u>
Soil Type	Clay
Barrels of Oil Assuming 100% Saturation	<u>0.36</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	0.36
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
Standing fluid	<u>0.000</u>
<b>Total fluids spilled</b>	<b>0.360</b>



Devon Energy Production Company, LP  
6488 Seven Rivers Hwy  
Artesia, NM 88210  
575-748-0167

June 5, 2024

Bureau of Land Management  
620 East Green Street  
Carlsbad, NM 88220

NMOCD District 2  
811 S. First Street  
Artesia, NM 88210

**Re: Remediation Closure Report**  
**Cotton Draw Unit 153 CTB Facility ID fAPP2128034967**  
**GPS: Latitude 32.166344 Longitude -103.763914**  
**ULSTR – B – 3 – 25S – 31E 149 FNL 564 FWL Eddy County, NM**  
**NMOCD Incident ID nAPP2316355602**

This crude oil release was initially discovered on June 12, 2023. An initial Notification of Release was submitted on June 12, 2023, and approved by the NMOCD (OCD Online: Permitting – Application ID 226599). An initial C-141 form was submitted on June 22, 2023, and approved by the NMOCD (OCD Online: Permitting – Application ID 231157). This incident was assigned Incident ID nAPP2316355602, by the New Mexico Oil Conservation Division (NMOCD).

#### Site Information and Site Characterization

Site information and characterization documents can be found in the previously denied Remediation Closure Report located in OCD Online: Permitting – Application ID: 257218.

#### Release Information

**nAPP2316355602:** On June 23, 2023, overspray from 2 phase separator in pasture. Approximately 0.36 barrels (bbls) were released onto the pad and into the pasture. No fluids were able to be recovered due to being an overspray.

#### Countermeasures due to Remediation Closure Report Denied

On January 22, 2024, the NMOCD denied the remediation closure report citing:

“The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2316355602, for the following reasons:

- **The Closure Report is Denied.** Surface samples need to be taken at sample point S-1 and S-2. All sidewall samples should be taken from the sidewall of the excavation. The “step-out” samples on pad to verify the edge of the release should only be a maximum of 1-2 feet from the observed edge of the release. Stepping out away from the release area to conduct horizontal delineation samples may tell us whether or not the release left the active well pad, but it does not tell us where the actual edge of the release is located. Please make sure that the edge of the release extent is accurately defined. Additionally, when equipment is located in and around the release area, samples must come from the sidewalls of the release area excavation. The OCD needs to know if the release went in, around, or under equipment/tanks/pipelines. Not having sidewall samples from the actual excavation won’t give us those sampling data points that we need. “Step-out” samples should never be conducted if equipment is in the vicinity of the release area.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 257218. Please review and make the required correction(s) prior to resubmitting. If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.” (Appendix A)



On May 21, 2024, Pima personnel mobilized personnel to the site to assess the area and collect surface samples as directed by the denial comments. These were discreet samples collected from S1 and S2, each from the surface and from 1' below grade surface (bgs). Samples were also collected from what were believed to be the horizontal edges of the release in question. These were composite samples consisting of 0-1' samples from each location (SW1 – SW5). A total of 9 samples were put on ice, jarred, and delivered to the lab for official testing. All samples were tested for all constituents. The Lab Sample Results Data Table can be found in Figure 1. A corresponding Site Map can be found in Figure 2.

A complete Laboratory Report can be found in Appendix C. Photographic Documentation can be found in Appendix B.

### **Approval Request**

On behalf of Devon, Pima requests that this Remediation Closure Report for incident ID nAPP2316355602 be approved. The lab results for all samples are under the regulatory limits for the <50' depth to ground water column of Table 1 19.15.29 NMAC. Devon has complied with the applicable closure requirements outlined in rule 19.15.29.12 NMAC.

Should you have any questions or need additional information, please feel free to contact:

Devon Energy Production – Dale Woodall at 575-748-0167 or [dale.woodall@devon.com](mailto:dale.woodall@devon.com).

Pima Environmental – Tom Bynum at 580-748-1613 or [tom@pimaoil.com](mailto:tom@pimaoil.com).

### **Attachments**

Figures:

- 1- Lab Sample Results Data Table
- 2- Site Map
- 3- Excavation Map

Appendices:

Appendix A – NMOCD Correspondence

Appendix B – Photographic Documentation

Appendix C – Laboratory Report





**Figures:**

1. Lab Sample Results Data Table
2. Site Map



NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')							
DEVON ENERGY - COTTON DRAW UNIT 153 CTB - nAPP2316355602							
Date: 5/21/24	NM Approved Laboratory Results						
Sample ID	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1 - Surface	ND	ND	ND	ND	ND	0	ND
S1 - 1'	ND	ND	ND	ND	ND	0	ND
S2 - Surface	ND	ND	ND	ND	ND	0	ND
S2 - 1'	ND	ND	ND	ND	ND	0	ND
SW1 (0-1')	ND	ND	ND	ND	ND	0	ND
SW2 (0-1')	ND	ND	ND	ND	ND	0	ND
SW3 (0-1')	ND	ND	ND	ND	ND	0	ND
SW4 (0-1')	ND	ND	ND	ND	ND	0	ND
SW5 (0-1')	ND	ND	ND	ND	ND	0	ND



# Cotton Draw Unit 153 CTB

Devon Energy  
Facility ID fAPP2128034967  
Eddy County, NM  
nAPP2316355602  
Site Map

## Legend

- Horizontal delineation samples
- Release area - 181 sqft
- Vertical delineation samples

SW3  
S2  
SW4  
SW2  
SW5  
S1  
SW1

32.166344, -103.763726



Google Earth

Cotton Draw Unit 153 CTB

100 ft





## **Appendix A**

NMOCD Correspondence



OCD Permitting

Home    Operator Data    Action Status    Action Search Results    Action Status Item Details

[C-141] Release Corrective Action (C-141) Application

Submission Information

Submission ID:	257218	Districts:	Artesia
Operator:	[6137] DEVON ENERGY PRODUCTION COMPANY, LP	Counties:	Eddy
Description:	DEVON ENERGY PRODUCTION COMPANY, LP [6137] , COTTON DRAW UNIT 153 CTB , nAPP2316355602		
Status:	REJECTED		
Status Date:	01/22/2024		
References (2):	fAPP2128034967, nAPP2316355602		

Forms

Attachments:	<a href="#">C-141</a>
	<a href="#">Scaled Site Map</a>

Questions

This submission type does not have questions, at this time.



Comments

No comments found for this submission.

Conditions

No conditions found for this submission.

Reasons

Summary:

*rhamlet (1/22/2024)*, The Closure Report is Denied. Surface samples need to be taken at sample point S-1 and S-2.

*rhamlet (1/22/2024)*, All sidewall samples should be taken from the sidewall of the excavation. The “step-out” samples on pad to verify the edge of the release should only be a maximum of 1-2 feet from the observed edge of the release. Stepping out away from the release area to conduct horizontal delineation samples may tell us whether or not the release left the active well pad, but it does not tell us where the actual edge of the release is located. Please make sure that the edge of the release extent is accurately defined. Additionally, when equipment is located in and around the release area, samples must come from the sidewalls of the release area excavation. The OCD needs to know if the release went in, around, or under equipment/tanks/pipelines. Not having sidewall samples from the actual excavation won't give us those sampling data points that we need. “Step-out” samples should never be conducted if equipment is in the vicinity of the release area.

Go Back

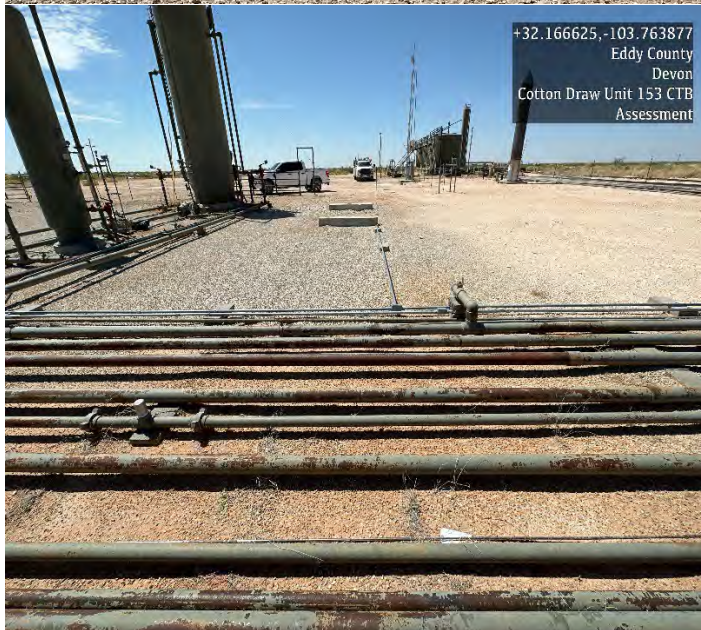




## **Appendix B**

### Photographic Documentation











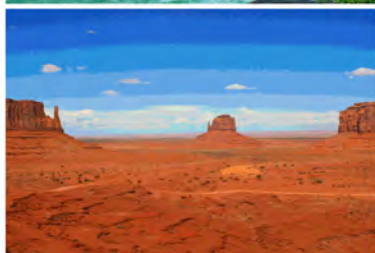


## **Appendix C**

### Laboratory Report



Report to:  
Gio Gomez



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit 153 CTB

Work Order: E405332

Job Number: 01058-0007

Received: 5/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
6/4/24

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 6/4/24

Gio Gomez  
PO Box 247  
Plains, TX 79355-0247



Project Name: Cotton Draw Unit 153 CTB  
Workorder: E405332  
Date Received: 5/23/2024 6:00:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/23/2024 6:00:00AM, under the Project Name: Cotton Draw Unit 153 CTB.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 153 CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
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[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	06/04/24 14:22

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - Surface	E405332-01A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
S1 - 1'	E405332-02A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
S2 - Surface	E405332-03A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
S2 - 1'	E405332-04A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
SW1 (0-1')	E405332-05A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
SW2 (0-1')	E405332-06A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
SW3 (0-1')	E405332-07A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
SW4 (0-1')	E405332-08A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.
SW5 (0-1')	E405332-09A	Soil	05/21/24	05/23/24	Glass Jar, 2 oz.





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/4/2024 2:22:11PM

## S1 - Surface

## E405332-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2422007	
Benzene	ND	0.0250	1	05/28/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/01/24	
Toluene	ND	0.0250	1	05/28/24	06/01/24	
o-Xylene	ND	0.0250	1	05/28/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/01/24	
Surrogate: 4-Bromochlorobenzene-PID	93.9 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2422007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2422121	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/04/24	
Surrogate: n-Nonane	115 %	50-200		06/01/24	06/04/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2422049	
Chloride	ND	20.0	1	05/29/24	05/30/24	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/4/2024 2:22:11PM

S1 - 1'

E405332-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422007	
Benzene	ND	0.0250	1	05/28/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/01/24	
Toluene	ND	0.0250	1	05/28/24	06/01/24	
o-Xylene	ND	0.0250	1	05/28/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.3 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	109 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422121	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/04/24	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		06/01/24	06/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422049	
Chloride	ND	20.0	1	05/29/24	05/30/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	<b>Reported:</b> 6/4/2024 2:22:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S2 - Surface  
E405332-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2422007	
Benzene	ND	0.0250	1	05/28/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/01/24	
Toluene	ND	0.0250	1	05/28/24	06/01/24	
o-Xylene	ND	0.0250	1	05/28/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/01/24	
Surrogate: 4-Bromochlorobenzene-PID	94.5 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2422007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/01/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	108 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KM		Batch: 2422121	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/04/24	
Surrogate: n-Nonane	112 %	50-200		06/01/24	06/04/24	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2422049	
Chloride	ND	20.0	1	05/29/24	05/30/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	<b>Reported:</b> 6/4/2024 2:22:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S2 - 1'

E405332-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422007	
Benzene	ND	0.0250	1	05/28/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/01/24	
Toluene	ND	0.0250	1	05/28/24	06/01/24	
o-Xylene	ND	0.0250	1	05/28/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422121	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/04/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		06/01/24	06/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422049	
Chloride	ND	20.0	1	05/29/24	05/30/24	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/4/2024 2:22:11PM

SW1 (0-1')

E405332-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422007
Benzene	ND	0.0250	1	05/28/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/01/24	
Toluene	ND	0.0250	1	05/28/24	06/01/24	
o-Xylene	ND	0.0250	1	05/28/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.6 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422121
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/04/24	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		06/01/24	06/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2422049
Chloride	ND	20.0	1	05/29/24	05/30/24	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/4/2024 2:22:11PM

## SW2 (0-1')

## E405332-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422007
Benzene	ND	0.0250	1	05/28/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/01/24	
Toluene	ND	0.0250	1	05/28/24	06/01/24	
o-Xylene	ND	0.0250	1	05/28/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	110 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422121
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/04/24	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		06/01/24	06/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2422049
Chloride	ND	20.0	1	05/29/24	05/30/24	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Gio Gomez

**Reported:**  
6/4/2024 2:22:11PM

## SW3 (0-1')

## E405332-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422007
Benzene	ND	0.0250	1	05/28/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/01/24	
Toluene	ND	0.0250	1	05/28/24	06/01/24	
o-Xylene	ND	0.0250	1	05/28/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422121
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/04/24	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		06/01/24	06/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2422049
Chloride	ND	20.0	1	05/29/24	05/30/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	<b>Reported:</b> 6/4/2024 2:22:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW4 (0-1')  
E405332-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422007
Benzene	ND	0.0250	1	05/28/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/01/24	
Toluene	ND	0.0250	1	05/28/24	06/01/24	
o-Xylene	ND	0.0250	1	05/28/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.4 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2422007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KM		Batch: 2422121
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/04/24	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		06/01/24	06/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2422049
Chloride	ND	20.0	1	05/29/24	05/30/24	





Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	<b>Reported:</b> 6/4/2024 2:22:11PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW5 (0-1')  
E405332-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422007	
Benzene	ND	0.0250	1	05/28/24	06/01/24	
Ethylbenzene	ND	0.0250	1	05/28/24	06/01/24	
Toluene	ND	0.0250	1	05/28/24	06/01/24	
o-Xylene	ND	0.0250	1	05/28/24	06/01/24	
p,m-Xylene	ND	0.0500	1	05/28/24	06/01/24	
Total Xylenes	ND	0.0250	1	05/28/24	06/01/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.9 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2422007	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/28/24	06/01/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	108 %	70-130		05/28/24	06/01/24	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KM		Batch: 2422121	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/01/24	06/04/24	
Oil Range Organics (C28-C36)	ND	50.0	1	06/01/24	06/04/24	
<i>Surrogate: n-Nonane</i>						
	115 %	50-200		06/01/24	06/04/24	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2422049	
Chloride	ND	20.0	1	05/29/24	05/30/24	





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/4/2024 2:22:11PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2422007-BLK1)

Prepared: 05/28/24 Analyzed: 05/31/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.38		8.00		92.3	70-130			

LCS (2422007-BS1)

Prepared: 05/28/24 Analyzed: 06/01/24

Benzene	5.26	0.0250	5.00		105	70-130			
Ethylbenzene	4.96	0.0250	5.00		99.1	70-130			
Toluene	5.18	0.0250	5.00		104	70-130			
o-Xylene	5.06	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.2	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.45		8.00		93.1	70-130			

LCS Dup (2422007-BSD1)

Prepared: 05/28/24 Analyzed: 06/01/24

Benzene	5.41	0.0250	5.00		108	70-130	2.79	20	
Ethylbenzene	5.14	0.0250	5.00		103	70-130	3.68	20	
Toluene	5.35	0.0250	5.00		107	70-130	3.15	20	
o-Xylene	5.25	0.0250	5.00		105	70-130	3.78	20	
p,m-Xylene	10.6	0.0500	10.0		106	70-130	3.80	20	
Total Xylenes	15.8	0.0250	15.0		106	70-130	3.79	20	
Surrogate: 4-Bromochlorobenzene-PID	7.47		8.00		93.4	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/4/2024 2:22:11PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422007-BLK1) Prepared: 05/28/24 Analyzed: 05/31/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.66		8.00		108	70-130			

LCS (2422007-BS2) Prepared: 05/28/24 Analyzed: 06/01/24

Gasoline Range Organics (C6-C10)	50.7	20.0	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.86		8.00		111	70-130			

LCS Dup (2422007-BSD2) Prepared: 05/28/24 Analyzed: 06/01/24

Gasoline Range Organics (C6-C10)	52.1	20.0	50.0		104	70-130	2.85	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.87		8.00		111	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/4/2024 2:22:11PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2422121-BLK1) Prepared: 06/01/24 Analyzed: 06/04/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.6		50.0		117	50-200			

LCS (2422121-BS1) Prepared: 06/01/24 Analyzed: 06/04/24

Diesel Range Organics (C10-C28)	299	25.0	250		120	38-132			
Surrogate: n-Nonane	59.6		50.0		119	50-200			

LCS Dup (2422121-BSD1) Prepared: 06/01/24 Analyzed: 06/04/24

Diesel Range Organics (C10-C28)	298	25.0	250		119	38-132	0.257	20	
Surrogate: n-Nonane	58.0		50.0		116	50-200			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	6/4/2024 2:22:11PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2422049-BLK1)					Prepared: 05/29/24 Analyzed: 05/30/24				
Chloride	ND	20.0							
LCS (2422049-BS1)					Prepared: 05/29/24 Analyzed: 05/30/24				
Chloride	258	20.0	250		103	90-110			
LCS Dup (2422049-BSD1)					Prepared: 05/29/24 Analyzed: 05/30/24				
Chloride	257	20.0	250		103	90-110	0.256	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.





Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	06/04/24 14:22

- ND            Analyte NOT DETECTED at or above the reporting limit
- NR            Not Reported
- RPD          Relative Percent Difference
- DNI          Did Not Ignite
- DNR          Did not react with the addition of acid or base.
- Note (1): Methods marked with \*\* are non-accredited methods.
- Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





## Project Information

## Chain of Custody

<b>Client:</b> Pima Environmental Services <b>Project:</b> Cotton Dams Unit 153 CTB <b>Project Manager:</b> Gio Gomez <b>Address:</b> 5614 N. Lovington Hwy. <b>City, State, Zip:</b> Hobbs, NM, 88240 <b>Phone:</b> 806-782-1151 <b>Email:</b> gio@pimaoil.com <b>Report due by:</b>					<b>Attention:</b> <u>Devon</u> <b>Address:</b> <b>City, State, Zip:</b> <b>Phone:</b> <b>Email:</b> <b>Pima Project #</b> <u>1-302-4</u>					<b>Lab Use Only</b> <b>Lab WO#</b> <u>E 405332</u> <b>Job Number</b> <u>01058-0057</u>					<b>TAT</b> <b>1D</b> <input type="checkbox"/> <b>2D</b> <input type="checkbox"/> <b>3D</b> <input type="checkbox"/> <b>Standard</b> <input checked="" type="checkbox"/>				<b>EPA Program</b> <b>CWA</b> <input type="checkbox"/> <b>SDWA</b> <input type="checkbox"/>			
										<b>Analysis and Method</b> <b>DRO/ORO by 8015</b> <input type="checkbox"/> <b>GRO/DRO by 8015</b> <input type="checkbox"/> <b>BTEX by 8021</b> <input type="checkbox"/> <b>VOC by 8260</b> <input type="checkbox"/> <b>Metals 6010</b> <input type="checkbox"/> <b>Chloride 300.0</b> <input type="checkbox"/> <b>BGDOC NM</b> <input checked="" type="checkbox"/> <b>BGDOC TX</b> <input type="checkbox"/>											<b>RCRA</b> <input type="checkbox"/>	
																					<b>State</b> <b>NM</b> <input checked="" type="checkbox"/> <b>CO</b> <input type="checkbox"/> <b>UT</b> <input type="checkbox"/> <b>AZ</b> <input type="checkbox"/> <b>TX</b> <input type="checkbox"/>	
										<b>Remarks</b>												
<b>Time Sampled</b>	<b>Date Sampled</b>	<b>Matrix</b>	<b>No. of Containers</b>	<b>Sample ID</b>	<b>Lab Number</b>	<b>DRO/ORO by 8015</b>	<b>GRO/DRO by 8015</b>	<b>BTEX by 8021</b>	<b>VOC by 8260</b>	<b>Metals 6010</b>	<b>Chloride 300.0</b>	<b>BGDOC NM</b>	<b>BGDOC TX</b>									
8:30	5/21	S		S1-Surface	1							<input checked="" type="checkbox"/>										
8:39				S1-1'	2																	
8:46				S2-Surface	3																	
8:53				S2-1'	4																	
9:03				SW1 (0-1')	5																	
9:11				SW2 (0-1')	6																	
9:17				SW3 (0-1')	7																	
9:22				SW4 (0-1')	8																	
9:30				SW5 (0-1')	9																	
<b>Additional Instructions:</b> <u>B# 21181002</u>																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																						
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.																						
<b>Relinquished by: (Signature)</b> <u>Veronica Horne</u> <b>Date</b> <u>5/22/24</u> <b>Time</b> <u>12:56</u> <b>Received by: (Signature)</b> <u>Michelle Gonzales</u> <b>Date</b> <u>5-22-24</u> <b>Time</b> <u>1256</u>																						
<b>Relinquished by: (Signature)</b> <u>Michelle Gonzales</u> <b>Date</b> <u>5-22-24</u> <b>Time</b> <u>1545</u> <b>Received by: (Signature)</b> <u>[Signature]</u> <b>Date</b> <u>5-22-24</u> <b>Time</b> <u>1745</u>																						
<b>Relinquished by: (Signature)</b> <u>[Signature]</u> <b>Date</b> <u>5-22-24</u> <b>Time</b> <u>2400</u> <b>Received by: (Signature)</b> <u>[Signature]</u> <b>Date</b> <u>5/23/24</u> <b>Time</b> <u>0600</u>																						
<b>Sample Matrix:</b> S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____																						
<b>Container Type:</b> g - glass, p - poly/plastic, ag - amber glass, v - VOA																						
<b>AVG Temp °C</b> <u>4</u>																						
<b>Note:</b> Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																						



## Envirotech Analytical Laboratory

Printed: 5/28/2024 9:04:10AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	05/23/24 06:00	Work Order ID:	E405332
Phone:	(575) 631-6977	Date Logged In:	05/23/24 10:56	Logged In By:	Angelina Pineda
Email:	gio@pimaoil.com	Due Date:	05/31/24 17:00 (5 day TAT)		

**Chain of Custody (COC)**

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: Courier**Comments/Resolution**

No. of containers not documented on COC by client

**Sample Turn Around Time (TAT)**

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

**Sample Cooler**

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

**Sample Container**

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

**Field Label**

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? Yes

**Sample Preservation**

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

**Multiphase Sample Matrix**

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

**Subcontract Laboratory**

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

**Client Instruction**

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.





**Pima Environmental Services**  
**5614 N. Lovington Highway**  
**Hobbs, NM 88240**  
**575-964-7740**

August 23, 2023

NMOCD District 2  
 811 S. First Street  
 Artesia, NM 88210

**Re: Site Assessment, and Closure Report**  
**Cotton Draw 153 CTB**  
**API No. N/A**  
**GPS: Latitude 32.166318 Longitude -103.763825**  
**UL -- B, Section 3, T25S, R31E**  
**Eddy County, NM**  
**NMOCD Ref. No. NAPP2316355602**

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a Crude Oil release that occurred at the Cotton Draw 153 CTB (Cotton). The initial C-141 was submitted on June 21, 2023 (Appendix C). This incident was assigned Incident ID NAPP2316355602 by the New Mexico Oil Conservation Division (NMOCD).

#### Site Characterization

The Cotton is located approximately nineteen (19) miles southeast of Malaga, NM. This spill site is in Unit B, Section 3, Township 25S, Range 31E, Latitude 32.166318 Longitude -103.763825, Eddy County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is made up of Interlayered eolian sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad. Typically capped by thin eolian deposits. The soil in this area is made up of Berino complex, 0 to 3 percent slopes, eroded according to the United States Department of Agriculture Natural Resources Conservation Service soil survey (Appendix B). The drainage class in this area is well drained. There is a low potential for karst geology to be present around the Cotton (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 58 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 78 feet BGS. The closest waterway is a Salt Lake located approximately 15.19 miles to the northwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' Lack of GW	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100'	10,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
>100'	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg

Reference Figure 2 for a Topographic Map.

Cotton Draw 153 CTB | [Devon Energy](#)



**Release Information**

**NAPP2316355602:** On June 12, 2023, Overspray from the 2-phase separator in pasture. The released fluids were calculated to be approximately .36 of a barrel (bbls) of crude oil. No fluid was recovered.

**Remediation Activities, Site Assessment, and Soil Sampling Results**

On August 13, 2023, Pima mobilized personnel to the site to begin collecting soil samples from the spill area. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

8-13-23 Soil Sample Results								
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY -COTTON DRAW UNIT 153 CTB								
Sample Date: 8/13/23		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	ND	ND	0	ND
	2'	ND	ND	ND	ND	ND	0	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
SW 1	3'	ND	ND	ND	ND	ND	0	ND
SW 2	3'	ND	ND	ND	ND	ND	0	ND
SW 3	3'	ND	ND	ND	ND	ND	0	ND
SW 4	3'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Based on the sample results, the bottoms and sidewalls were below NMOCD Closure Criteria 19.15.29 NMAC. See Appendix D for Photographic Documentation.

**Closure Request**

After careful review, Pima requests that this incident, NAPP2316355602, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 806-782-1151 or [gio@pimaoil.com](mailto:gio@pimaoil.com).

Respectfully,



Gio Gomez  
Project Manager  
Pima Environmental Services, LLC



**Attachments**

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – C-141 Form
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports





Pima Environmental Services

**Figures:**

1-Location Map

2-Topographic Map

3-Karst Map



4-Site Map

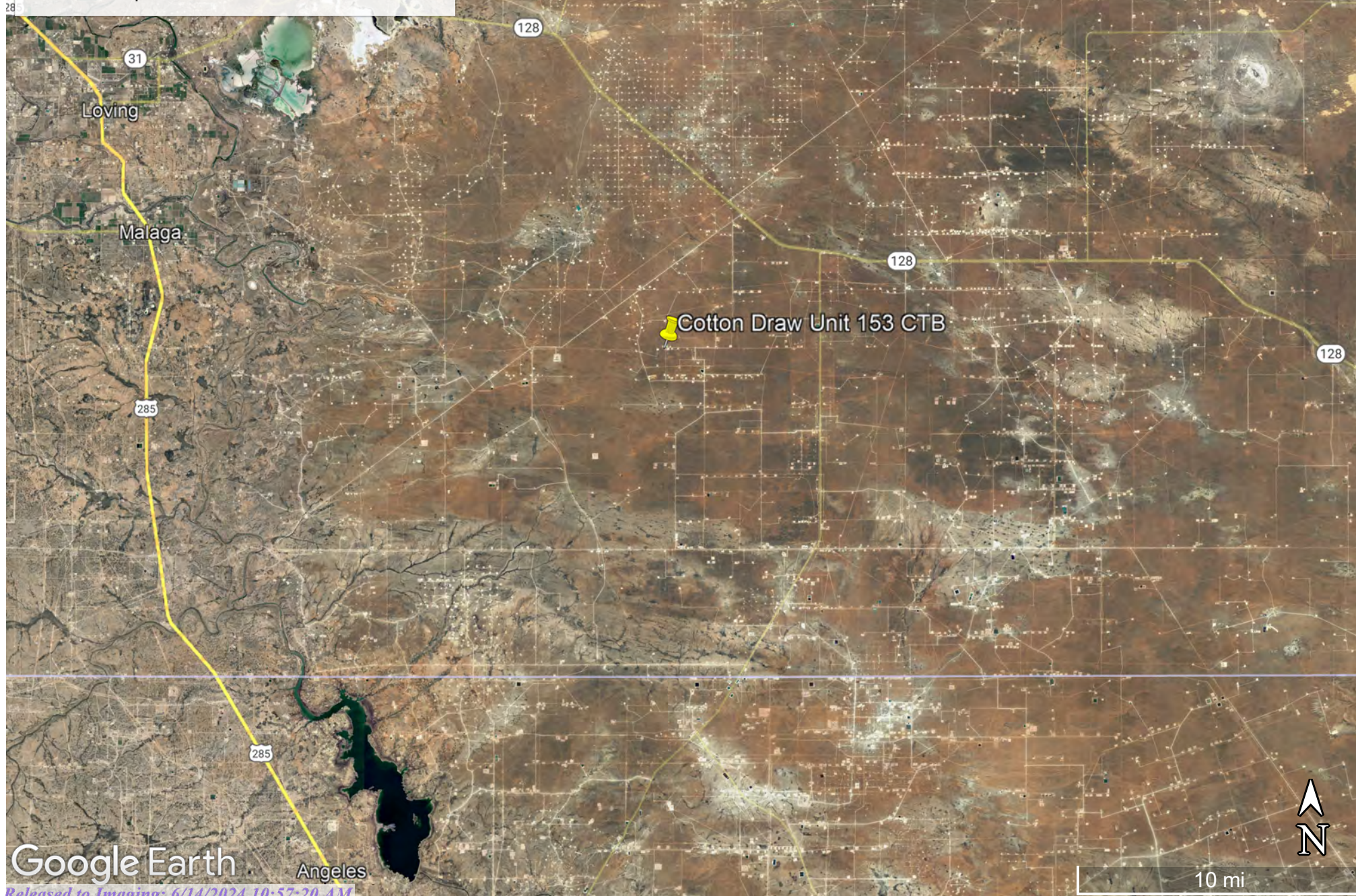


# Cotton Draw Unit 153 CTB

Devon Energy  
API: N/A  
Eddy County, NM  
Location Map

## Legend

-  19 Miles SE of Malaga, NM
-  Cotton Draw Unit 153 CTB



Google Earth


Angeles

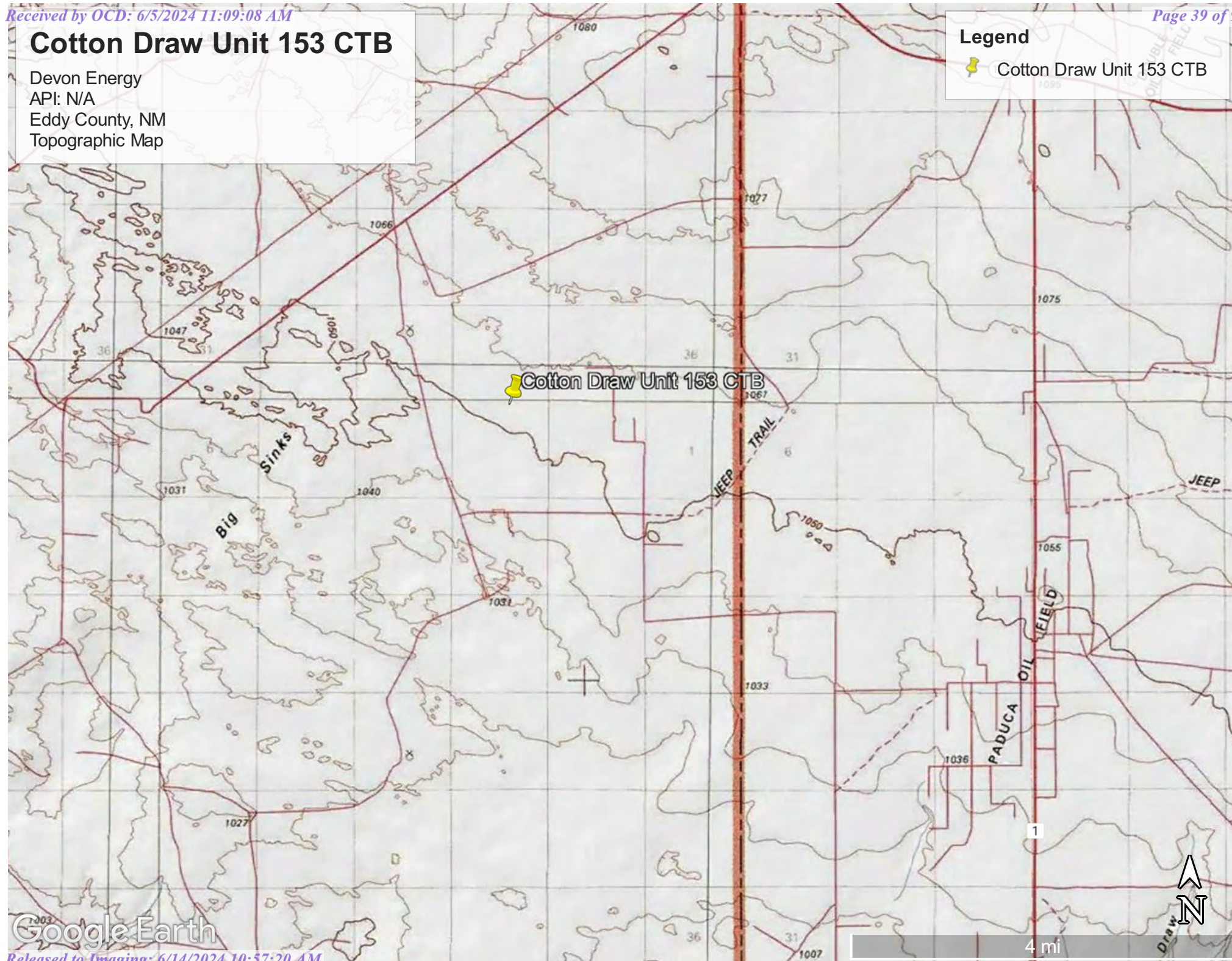


# Cotton Draw Unit 153 CTB

Devon Energy  
API: N/A  
Eddy County, NM  
Topographic Map

## Legend

 Cotton Draw Unit 153 CTB










# Cotton Draw Unit 153 CTB

Devon Energy  
API: N/A  
Eddy County, NM  
Karst Map

## Legend

-  Cotton Draw Unit 153 CTB
-  High Karst
-  Low Karst
-  Medium Karst

 Cotton Draw Unit 153 CTB

Google Earth





# Cotton Draw Unit 153 CTB

Devon Energy  
API: N/A  
Eddy County, NM  
Site Map

## Legend

- Sidewalls/ Background
- Samples
- Spill Area 181 Sqft

BG1  
SW3  
S2  
SW2  
SW1  
S1  
SW4

Cotton Draw Unit 153 CTB



80 ft





Pima Environmental Services

**Appendix A**

Water Surveys:

OSE

USGS

Surface Water Map





# 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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">RA 12307 POD1</a>		RA	ED	4	2	2	14	17S	28E	580495	3633981	2653	140	58	82
<a href="#">RA 11857 POD1</a>		RA	ED	1	1	2	05	18S	26E	577784	3625988	5941	235	95	140
<a href="#">RA 12456 POD1</a>		RA	ED	1	4	4	24	17S	27E	572348	3630969	6674	220	92	128

Average Depth to Water: **81 feet**

Minimum Depth: **58 feet**

Maximum Depth: **95 feet**

**Record Count:** 3

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 578968.78

**Northing (Y):** 3631811

**Radius:** 7000

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.

6/16/23 9:54 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER





[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

## Search Results -- 1 sites found

site\_no list =

- 324855104093101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

## USGS 324855104093101 17S.28E.22.34242

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°48'55", Longitude 104°09'31" NAD27

Land-surface elevation 3,578 feet above NGVD29

The depth of the well is 95.00 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

### Output formats

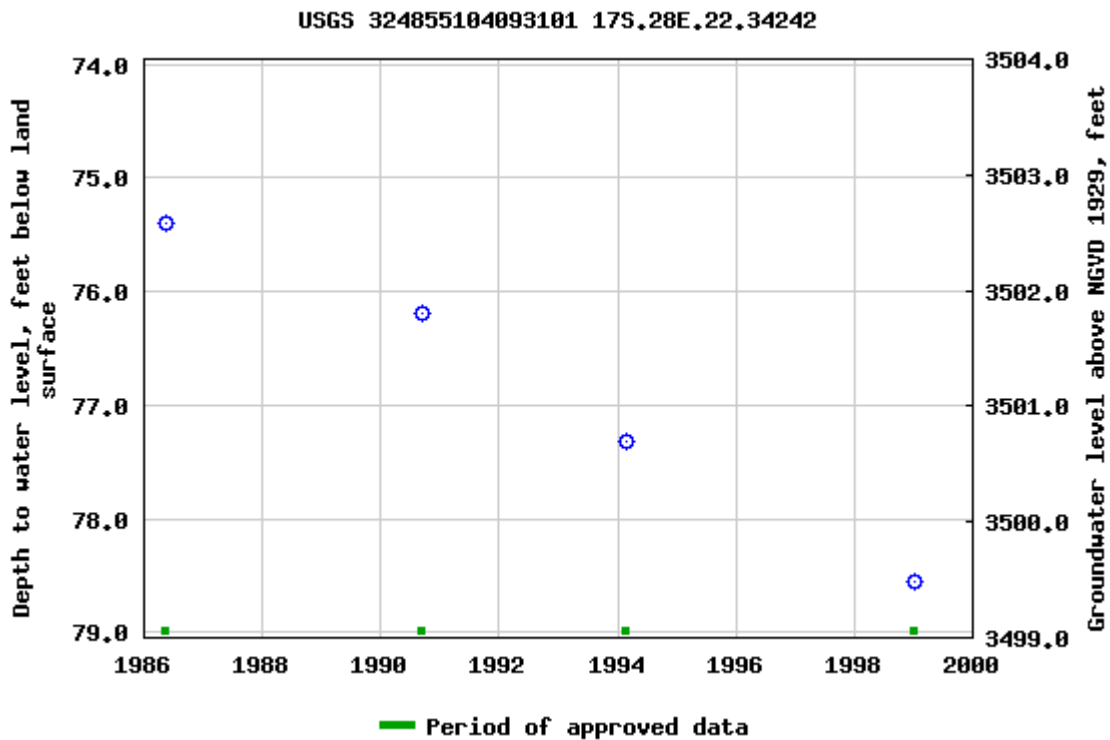
[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)





Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions or Comments](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2023-06-16 11:52:10 EDT



0.61 0.52 nadww02

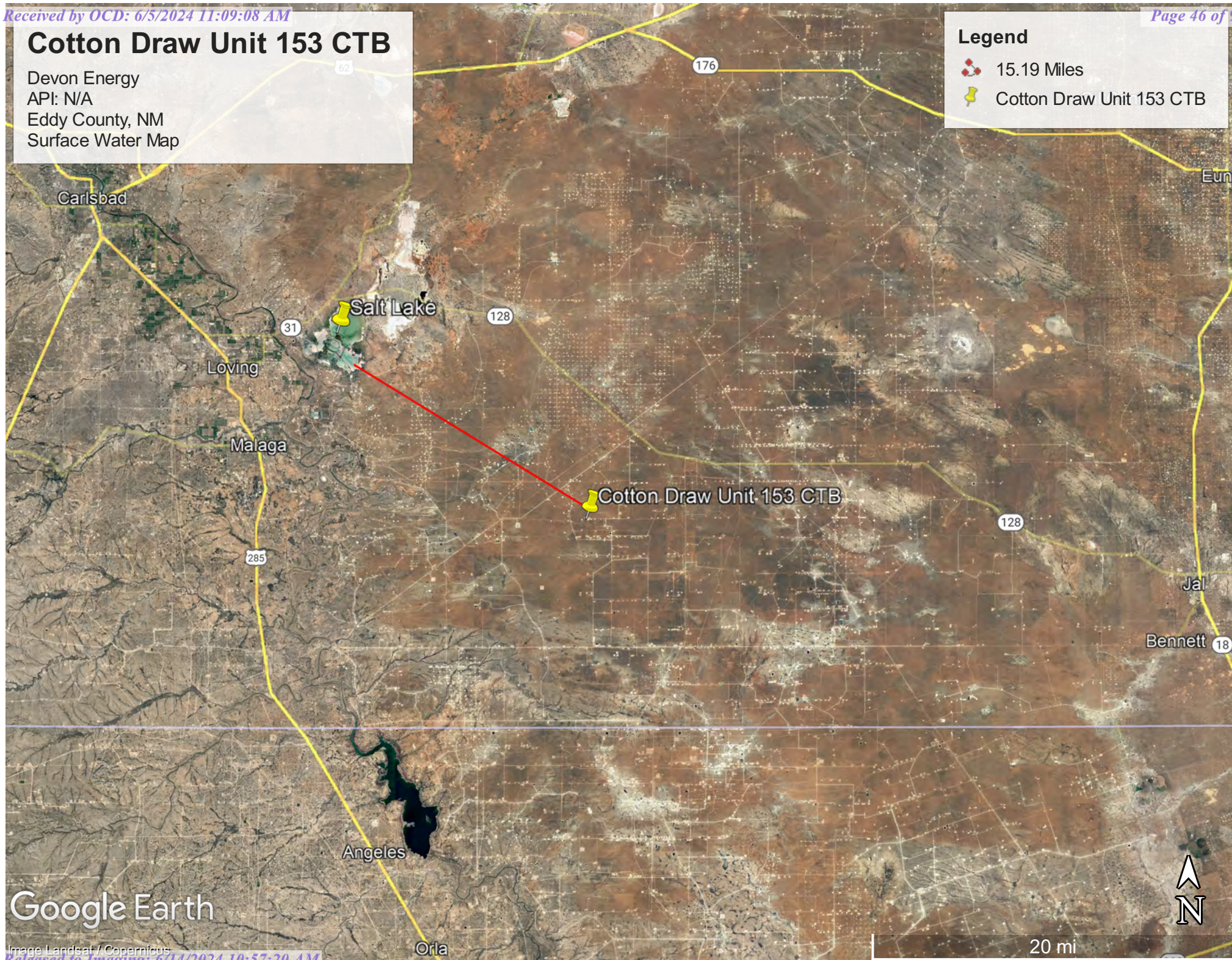


# Cotton Draw Unit 153 CTB

Devon Energy  
API: N/A  
Eddy County, NM  
Surface Water Map

## Legend

-  15.19 Miles
-  Cotton Draw Unit 153 CTB



Google Earth

Image Landsat / Copernicus





Pima Environmental Services

**Appendix B**

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map



Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

---

## Eddy Area, New Mexico

### BB—Berino complex, 0 to 3 percent slopes, eroded

#### Map Unit Setting

*National map unit symbol:* 1w43

*Elevation:* 2,000 to 5,700 feet

*Mean annual precipitation:* 5 to 15 inches

*Mean annual air temperature:* 57 to 70 degrees F

*Frost-free period:* 180 to 260 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Berino and similar soils:* 60 percent

*Pajarito and similar soils:* 25 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Berino

##### Setting

*Landform:* Plains, fan piedmonts

*Landform position (three-dimensional):* Riser

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Mixed alluvium and/or eolian sands

##### Typical profile

*H1 - 0 to 17 inches:* fine sand

*H2 - 17 to 58 inches:* sandy clay loam

*H3 - 58 to 60 inches:* loamy sand

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water*

*(Ksat):* Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 40 percent

*Maximum salinity:* Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 1.0

*Available water supply, 0 to 60 inches:* Moderate (about 8.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified



Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

---

*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: B*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

### Description of Pajarito

#### Setting

*Landform: Dunes, plains, interdunes*  
*Landform position (three-dimensional): Side slope*  
*Down-slope shape: Convex, linear*  
*Across-slope shape: Convex, linear*  
*Parent material: Mixed alluvium and/or eolian sands*

#### Typical profile

*H1 - 0 to 9 inches: loamy fine sand*  
*H2 - 9 to 72 inches: fine sandy loam*

#### Properties and qualities

*Slope: 0 to 3 percent*  
*Depth to restrictive feature: More than 80 inches*  
*Drainage class: Well drained*  
*Runoff class: Very low*  
*Capacity of the most limiting layer to transmit water (Ksat): High*  
*(2.00 to 6.00 in/hr)*  
*Depth to water table: More than 80 inches*  
*Frequency of flooding: None*  
*Frequency of ponding: None*  
*Calcium carbonate, maximum content: 40 percent*  
*Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)*  
*Sodium adsorption ratio, maximum: 1.0*  
*Available water supply, 0 to 60 inches: Moderate (about 8.0 inches)*

#### Interpretive groups

*Land capability classification (irrigated): 2e*  
*Land capability classification (nonirrigated): 7e*  
*Hydrologic Soil Group: A*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

### Minor Components

#### Pajarito

*Percent of map unit: 4 percent*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

#### Wink

*Percent of map unit: 4 percent*  
*Ecological site: R070BD003NM - Loamy Sand*  
*Hydric soil rating: No*

#### Cacique

*Percent of map unit: 4 percent*



Map Unit Description: Berino complex, 0 to 3 percent slopes, eroded---Eddy Area, New Mexico

---

*Ecological site:* R070BD004NM - Sandy

*Hydric soil rating:* No

**Kermit**

*Percent of map unit:* 3 percent

*Ecological site:* R070BD005NM - Deep Sand

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 18, Sep 8, 2022



# National Flood Hazard Layer FIRMette



103°46'9"W 32°10'14"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°45'31"W 32°9'44"N

Released to Imaging: 6/14/2024 10:57:20 AM

Basemap Imagery Source: USGS National Map 2023

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



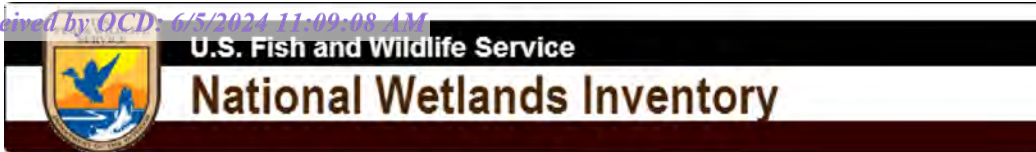
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/24/2023 at 12:46 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.










# Wetlands Map




August 23, 2023

## Wetlands

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland

-  Freshwater Emergent Wetland
-  Freshwater Forested/Shrub Wetland
-  Freshwater Pond

-  Lake
-  Other
-  Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





Pima Environmental Services

**Appendix C**

C-141 Form



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	nAPP2316355602
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Dale Woodall	Contact Telephone
Contact email Dale.Woodall@dvn.com	Incident # (assigned by OCD)
Contact mailing address 6488 Seven Rivers Hwy Artesia, NM 88210	

Location of Release Source

Latitude 32.166318 Longitude -103.763825  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Cotton Draw 153 CTB	Site Type Oil
Date Release Discovered 6/12/2023	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	3	25S	31E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: )

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) .36 BBLS	Volume Recovered (bbls) 0 BBLS
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Overspray from 2 phase separator in pasture.



Incident ID	nAPP2316355602
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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.	
Printed Name: <u>Kendra Ruiz</u>	Title: <u>EHS Associate</u>
Signature: <u>Kendra Ruiz</u>	Date: <u>6/21/2023</u>
email: <u>Kendra.Ruiz@dvn.com</u>	Telephone: <u>575-748-0167</u>
<b><u>OCD Only</u></b>	
Received by: <u>Shelly Wells</u>	Date: <u>6/22/2023</u>



<b>Spill Volume(Bbls) Calculator</b>	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>15156.945</u>	<u>0.016</u>
Cubic Feet of Soil Impacted	<u>20.209</u>
Barrels of Soil Impacted	<u>3.60</u>
Soil Type	Clay
Barrels of Oil Assuming 100% Saturation	<u>0.36</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	0.36
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
Standing fluid	<u>0.000</u>
<b>Total fluids spilled</b>	<b><u>0.360</u></b>



**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 231157

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 231157
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/22/2023



Incident ID	nAPP2316355602
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&lt;50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

### **Characterization Report Checklist:** *Each of the following items must be included in the report.*

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2316355602
District RP	
Facility ID	
Application ID	

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.

Printed Name: Dale Woodall Title: Environmental ProfessionalSignature: *Dale Woodall* Date: 8/24/2023email: dale.woodall@dn.com Telephone: 575-748-1838**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



Incident ID	nAPP2316355602
District RP	
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: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 8/24/2023

email: dale.woodall@dvn.com Telephone: 575-748-1838

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_





Pima Environmental Services

## **Appendix D**

Photographic Documentation



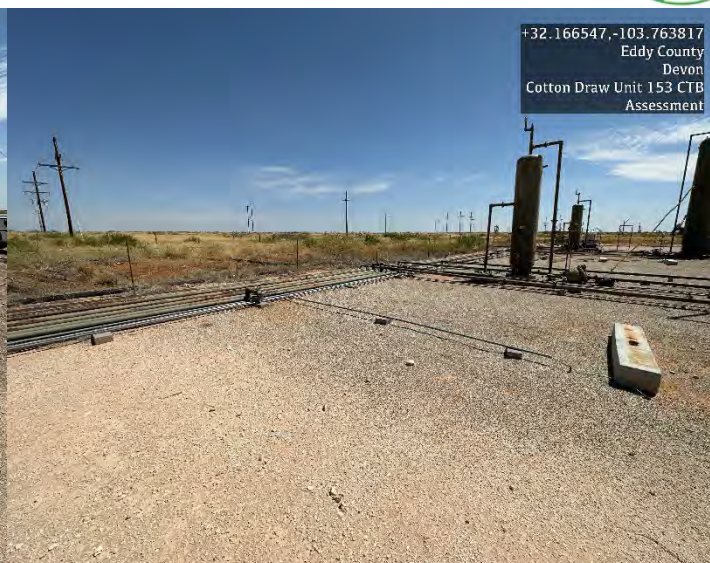
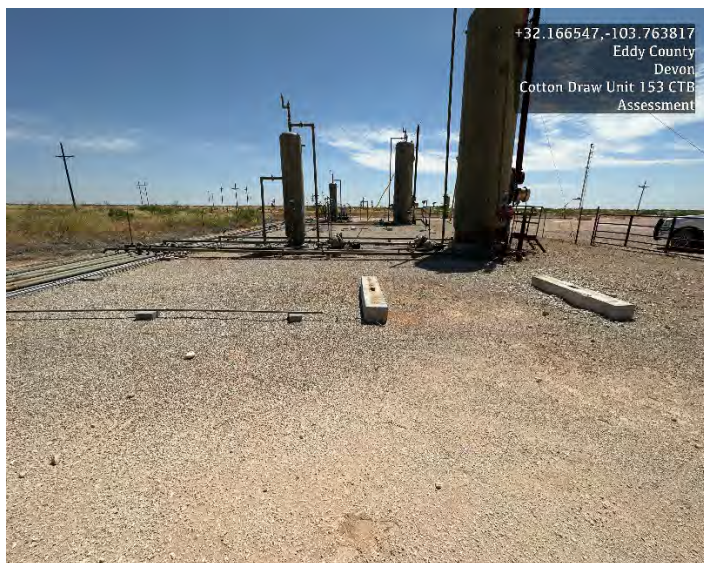


**SITE PHOTOGRAPHS  
DEVON ENERGY  
COTTON DRAW UNIT 153 CTB**

**Site Assessment**











Pima Environmental Services

## **Appendix E**

Laboratory Reports



Report to:  
Tom Bynum



5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit 153 CTB

Work Order: E308111

Job Number: 01058-0007

Received: 8/16/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
8/22/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 8/22/23



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Workorder: E308111  
Date Received: 8/16/2023 8:05:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/16/2023 8:05:00AM, under the Project Name: Cotton Draw Unit 153 CTB.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 153 CTB apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto:labadmin@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**  
**Lynn Jarboe**  
Technical Representative/Client Services  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**West Texas Midland/Odessa Area**  
**Rayny Hagan**  
Technical Representative  
Office: 505-421-LABS(5227)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/22/23 15:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E308111-01A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.
S1 - 2'	E308111-02A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.
S1 - 3'	E308111-03A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.
S1 - 4'	E308111-04A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.
S2 - 1'	E308111-05A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.
S2 - 2'	E308111-06A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.
S2 - 3'	E308111-07A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.
S2 - 4'	E308111-08A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.
SW1	E308111-09A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.
SW2	E308111-10A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.
SW3	E308111-11A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.
SW4	E308111-12A	Soil	08/13/23	08/16/23	Glass Jar, 2 oz.





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

S1 - 1'

E308111-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene	101 %	70-130		08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		08/16/23	08/18/23	
Surrogate: Toluene-d8	101 %	70-130		08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene	101 %	70-130		08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	98.6 %	70-130		08/16/23	08/18/23	
Surrogate: Toluene-d8	101 %	70-130		08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane	102 %	50-200		08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

S1 - 2'

E308111-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		103 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.9 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		103 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		103 %	50-200	08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

S1 - 3'

E308111-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		101 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		101 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		102 %	50-200	08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

S1 - 4'

E308111-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		100 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		103 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		100 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		95.3 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		103 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		101 %	50-200	08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

S2 - 1'

E308111-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		100 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		101 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		100 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		101 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		104 %	50-200	08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

S2 - 2'

E308111-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene	99.8 %	70-130		08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		08/16/23	08/18/23	
Surrogate: Toluene-d8	102 %	70-130		08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene	99.8 %	70-130		08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		08/16/23	08/18/23	
Surrogate: Toluene-d8	102 %	70-130		08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane	103 %	50-200		08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

S2 - 3'

E308111-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		100 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		101 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		100 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		101 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		102 %	50-200	08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

S2 - 4'

E308111-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		102 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		103 %	50-200	08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

## SW1

## E308111-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/16/23	08/18/23	
Surrogate: Toluene-d8	102 %	70-130		08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene	98.4 %	70-130		08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4	97.0 %	70-130		08/16/23	08/18/23	
Surrogate: Toluene-d8	102 %	70-130		08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane	103 %	50-200		08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

## SW2

## E308111-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		102 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		102 %	50-200	08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

## SW3

## E308111-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		99.5 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		99.5 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		105 %	50-200	08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





## Sample Data

Pima Environmental Services-Carlsbad  
PO Box 247  
Plains TX, 79355-0247

Project Name: Cotton Draw Unit 153 CTB  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
8/22/2023 3:03:31PM

## SW4

## E308111-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Benzene	ND	0.0250	1	08/16/23	08/18/23	
Ethylbenzene	ND	0.0250	1	08/16/23	08/18/23	
Toluene	ND	0.0250	1	08/16/23	08/18/23	
o-Xylene	ND	0.0250	1	08/16/23	08/18/23	
p,m-Xylene	ND	0.0500	1	08/16/23	08/18/23	
Total Xylenes	ND	0.0250	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		103 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2333040
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/16/23	08/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	08/16/23	08/18/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130	08/16/23	08/18/23	
Surrogate: Toluene-d8		103 %	70-130	08/16/23	08/18/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2333059
Diesel Range Organics (C10-C28)	ND	25.0	1	08/17/23	08/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	08/17/23	08/19/23	
Surrogate: n-Nonane		104 %	50-200	08/17/23	08/19/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2333062
Chloride	ND	20.0	1	08/17/23	08/21/23	





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	Reported:  8/22/2023 3:03:31PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2333040-BLK1) Prepared: 08/16/23 Analyzed: 08/18/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

LCS (2333040-BS1) Prepared: 08/16/23 Analyzed: 08/18/23

Benzene	2.58	0.0250	2.50		103	70-130			
Ethylbenzene	2.42	0.0250	2.50		96.9	70-130			
Toluene	2.51	0.0250	2.50		101	70-130			
o-Xylene	2.56	0.0250	2.50		102	70-130			
p,m-Xylene	5.04	0.0500	5.00		101	70-130			
Total Xylenes	7.60	0.0250	7.50		101	70-130			
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.503		0.500		101	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

Matrix Spike (2333040-MS1) Source: E308111-05 Prepared: 08/16/23 Analyzed: 08/18/23

Benzene	2.69	0.0250	2.50	ND	108	48-131			
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.70	0.0250	2.50	ND	108	43-135			
p,m-Xylene	5.30	0.0500	5.00	ND	106	43-135			
Total Xylenes	8.00	0.0250	7.50	ND	107	43-135			
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

Matrix Spike Dup (2333040-MSD1) Source: E308111-05 Prepared: 08/16/23 Analyzed: 08/18/23

Benzene	2.59	0.0250	2.50	ND	104	48-131	3.77	23	
Ethylbenzene	2.44	0.0250	2.50	ND	97.5	45-135	4.61	27	
Toluene	2.52	0.0250	2.50	ND	101	48-130	3.74	24	
o-Xylene	2.65	0.0250	2.50	ND	106	43-135	1.66	27	
p,m-Xylene	5.18	0.0500	5.00	ND	104	43-135	2.23	27	
Total Xylenes	7.84	0.0250	7.50	ND	104	43-135	2.04	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	Reported:  8/22/2023 3:03:31PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2333040-BLK1) Prepared: 08/16/23 Analyzed: 08/18/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

LCS (2333040-BS2) Prepared: 08/16/23 Analyzed: 08/18/23

Gasoline Range Organics (C6-C10)	53.8	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.499		0.500		99.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

Matrix Spike (2333040-MS2) Source: E308111-05 Prepared: 08/16/23 Analyzed: 08/18/23

Gasoline Range Organics (C6-C10)	55.7	20.0	50.0	ND	111	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

Matrix Spike Dup (2333040-MSD2) Source: E308111-05 Prepared: 08/16/23 Analyzed: 08/18/23

Gasoline Range Organics (C6-C10)	56.9	20.0	50.0	ND	114	70-130	2.20	20	
Surrogate: Bromofluorobenzene	0.512		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/22/2023 3:03:31PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2333059-BLK1)					Prepared: 08/17/23 Analyzed: 08/18/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.7		50.0		101	50-200			

LCS (2333059-BS1)					Prepared: 08/17/23 Analyzed: 08/18/23				
Diesel Range Organics (C10-C28)	248	25.0	250		99.1	38-132			
Surrogate: n-Nonane	50.4		50.0		101	50-200			

Matrix Spike (2333059-MS1)					Source: E308111-08		Prepared: 08/17/23 Analyzed: 08/18/23		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	51.1		50.0		102	50-200			

Matrix Spike Dup (2333059-MSD1)					Source: E308111-08		Prepared: 08/17/23 Analyzed: 08/18/23		
Diesel Range Organics (C10-C28)	257	25.0	250	ND	103	38-132	1.91	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/22/2023 3:03:31PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2333062-BLK1)					Prepared: 08/17/23 Analyzed: 08/21/23				
Chloride	ND	20.0							
LCS (2333062-BS1)					Prepared: 08/17/23 Analyzed: 08/21/23				
Chloride	248	20.0	250		99.4	90-110			
Matrix Spike (2333062-MS1)					Source: E308111-01		Prepared: 08/17/23 Analyzed: 08/21/23		
Chloride	256	20.0	250	ND	102	80-120			
Matrix Spike Dup (2333062-MSD1)					Source: E308111-01		Prepared: 08/17/23 Analyzed: 08/21/23		
Chloride	252	20.0	250	ND	101	80-120	1.68	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.





Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 153 CTB	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/22/23 15:03

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.





## Project Information

## Chain of Custody

Page 1 of 2

<b>Client:</b> Pima Environmental Services <b>Project:</b> Cotton Draw Unit 1530TB <b>Project Manager:</b> Tom Bynum <b>Address:</b> 5614 N. Lovington Hwy. <b>City, State, Zip:</b> Hobbs, NM, 88240 <b>Phone:</b> 580-748-1613 <b>Email:</b> tom@pimaoil.com <b>Report due by:</b>					<b>Bill To</b> <b>Attention:</b> Devon <b>Address:</b> <b>City, State, Zip:</b> <b>Phone:</b> <b>Email:</b> <b>Pima Project #</b> 302-4					<b>Lab Use Only</b> <b>Lab WO#</b> E 308 111 <b>Job Number</b> 01058-0007					<b>TAT</b> 1D 2D 3D Standard				<b>EPA Program</b> CWA SDWA RCRA	
<b>Analysis and Method</b> DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX										<b>State</b> NM CO UT AZ TX NM				<b>Remarks</b>						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks						
9:40	8/13/23	S	1	S1-1'	1							X								
9:45				S1-2'	2															
9:50				S1-3'	3															
9:55				S1-4'	4															
10:00				S2-1'	5															
10:05				S2-2'	6															
10:10				S2-3'	7															
10:15				S2-4'	8															
10:20				SW1	9															
10:25				SW2	10															
<b>Additional Instructions:</b> Billing #: 21181002																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Relinquished by: (Signature) <u>Verime Adame</u> Date <u>8-14-23</u> Time <u>3:00</u>																				
Relinquished by: (Signature) <u>Carrollm Tanker</u> Date <u>8-15-23</u> Time <u>1645</u>																				
Relinquished by: (Signature) <u>Carrollm Tanker</u> Date <u>8-16-23</u> Time <u>0130</u>																				
Received by: (Signature) <u>Carrollm Tanker</u> Date <u>8-15-23</u> Time <u>1145</u>																				
Received by: (Signature) <u>Carrollm Tanker</u> Date <u>8-15-23</u> Time <u>1830</u>																				
Received by: (Signature) <u>Carrollm Tanker</u> Date <u>8-16-23</u> Time <u>8:05</u>																				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																				
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				


**envirotech**







## Envirotech Analytical Laboratory

Printed: 8/16/2023 11:45:51AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Pima Environmental Services-Carlsbad	Date Received:	08/16/23 08:05	Work Order ID:	E308111
Phone:	(575) 631-6977	Date Logged In:	08/15/23 15:44	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	08/22/23 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



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

QUESTIONS

Action 351012

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 351012
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2316355602
Incident Name	NAPP2316355602 COTTON DRAW UNIT 153 CTB @ 0
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2128034967] COTTON DRAW UNIT 153 CTB

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COTTON DRAW UNIT 153 CTB
Date Release Discovered	06/12/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure   Separator   Crude Oil   Released: 0 BBL   Recovered: 0 BBL   Lost: 0 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	2 phase separator popped off, causing overspray spill in the pasture, the E-pilot battery was dead in the ESD valve.



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Action 351012

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	351012
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	<b>More info needed to determine if this will be treated as a "gas only" report.</b>
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

**Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 06/05/2024
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QUESTIONS, Page 3

Action 351012

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	351012
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

**Remediation Plan**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	

Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

**Soil Contamination Sampling:** (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	0
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	05/21/2024
On what date will (or did) the final sampling or liner inspection occur	05/21/2024
On what date will (or was) the remediation complete(d)	05/21/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.



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Action 351012

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	351012
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS****Remediation Plan (continued)**

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

**This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:**

(Select all answers below that apply.)

(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Yes
Other Non-listed Remedial Process. Please specify	analytical results were below OCD action levels.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/05/2024
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.



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Action 351012

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 351012
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No



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Action 351012

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	351012
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Sampling Event Information</b>	
Last sampling notification (C-141N) recorded	350916
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/21/2024
What was the (estimated) number of samples that were to be gathered	9
What was the sampling surface area in square feet	181

**Remediation Closure Request**

*Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.*

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	see reports

*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 (in .pdf format) 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.*

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.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/05/2024
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QUESTIONS, Page 7  
  
Action 351012

QUESTIONS (continued)

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	Action Number: 351012
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No



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CONDITIONS  
  
Action 351012

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
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CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2316355602 COTTON DRAW UNIT 153 CTB, thank you. This Remediation Closure Report is approved.	6/14/2024