Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2302324687
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.***

[x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[x] 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)

[x] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

[x] 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: 5/23/2023

email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: Robert Hamlet Date: 10/17/2023

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: Robert Hamlet Date: 10/17/2023

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

Incident ID	nAPP2302324687
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2302324687
District RP	
Facility ID	
Application ID	

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Printed Name: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 5/23/2023

email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: Jocelyn Harimon Date: 05/24/2023

Incident ID	nAPP2302324687
District RP	
Facility ID	
Application ID	

Closure

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Printed Name: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 5/23/2023

email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: Jocelyn Harimon Date: 05/24/2023

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
5614 N. Lovington Highway
Hobbs, NM 88240
575-964-7740

May 22, 2023

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

Re: Site Assessment, Remediation, and Closure Report
Cotton Draw Unit 219 CTB
API No. N/A
GPS: Latitude 32.152444 Longitude -103.743712
UL -- P, 2, T25S, R31E
Eddy County, NM
NMOCD Ref. No. NAPP2302324687

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 Unit 219 CTB (Cotton). The initial C-141 was submitted on January 24, 2023 (Appendix C). This incident was assigned Incident ID NAPP2302324687 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Cotton is located approximately five (5) miles northeast of Carlsbad, NM. This spill site is in Unit P, Section 2, Township 25S, Range 31E, Latitude 32.152444 Longitude -103.743712, 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 135 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 406 feet BGS. The closest waterway is a Pecos River is located approximately 13.51 miles to the west 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’	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.

Release Information

NAPP2302324687: On January 20, 2023, a gasket on the manway developed a leak. The released fluids were calculated to be approximately 9 barrels (bbls) of crude oil. A vacuum truck was able to recover 8 bbls of standing fluid.

Remediation Activities, Site Assessment, and Soil Sampling Results

On March 7, 2023, Pima mobilized personnel to the site to begin collecting soil samples from 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.

3-7-23 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
DEVON ENERGY -COTTON DRAW 219 BATTERY								
Sample Date: 3/7/2023				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	305
	3'	ND	ND	ND	ND	ND	0	107
	4'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	ND	ND	0	1030
	3'	ND	ND	ND	ND	ND	0	106
	4'	ND	ND	ND	ND	ND	0	ND
S-3	1'	2.79	ND	74.9	1040	329	1446.69	689
	3'	ND	ND	ND	ND	ND	0	111
	4'	ND	ND	ND	ND	ND	0	ND
S-4	1'	13.3	ND	213	3920	1300	5446.3	2770
	2'	ND	ND	ND	ND	ND	0	104
	3'	ND	ND	ND	ND	ND	0	ND
SW 1	6"	ND	ND	ND	ND	ND	0	ND
SW 2	6"	ND	ND	ND	ND	ND	0	26.5
SW 3	6"	ND	ND	ND	ND	ND	0	ND
SW 4	6"	ND	ND	ND	ND	ND	0	ND
BG 1	6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

On May 2, 2023, the Devon Construction Department mobilized personnel and equipment to begin remediation activities. They began excavating the area to a depth of 2' BGS. Approximately 11 cubic yards of contaminated soil were hauled to an approved, lined disposal facility and clean backfill material was brought in.

On May 4, 2023, after sending a 48-hour notification (Appendix C), Pima returned to the site to collect confirmation samples of the excavation. The results of this sampling event can be found in the following table. A Confirmation Sample Map can be found in Figure 5.

5-4-23 Confirmation Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is >100')								
DEVON ENERGY -COTTON DRAW 219 BATTERY								
Sample Date: 5/4/2023				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
CS-1	2'	ND	ND	ND	ND	ND	0	ND
CSW-1	2'	ND	ND	ND	ND	ND	0	ND
CSW-2	2'	ND	ND	ND	ND	ND	0	ND
CSW-3	2'	ND	ND	ND	ND	ND	0	ND
CSW-4	2'	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. The contaminated material was removed then transported to an NMOCD approved disposal site. The excavation was then backfilled with clean like material, machine compacted and returned to its previous state. See Appendix D for Photographic Documentation.

Closure Request

After careful review, Pima requests that this incident, NAPP2302324687, 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.

Respectfully,

Gio Gomez

Gio Gomez
Project Manager
Pima Environmental Services, LLC

Attachments

Figures:
1- Location Map
2- Topographic Map
3- Karst Map
4- Site Map
5- Confirmation Sample Map

Appendices:
Appendix A – Referenced Water Surveys
Appendix B – Soil Survey and Geological Data
Appendix C – C-141 Form and 48 Hour Notification
Appendix D – Photographic Documentation
Appendix E – Laboratory Reports

Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

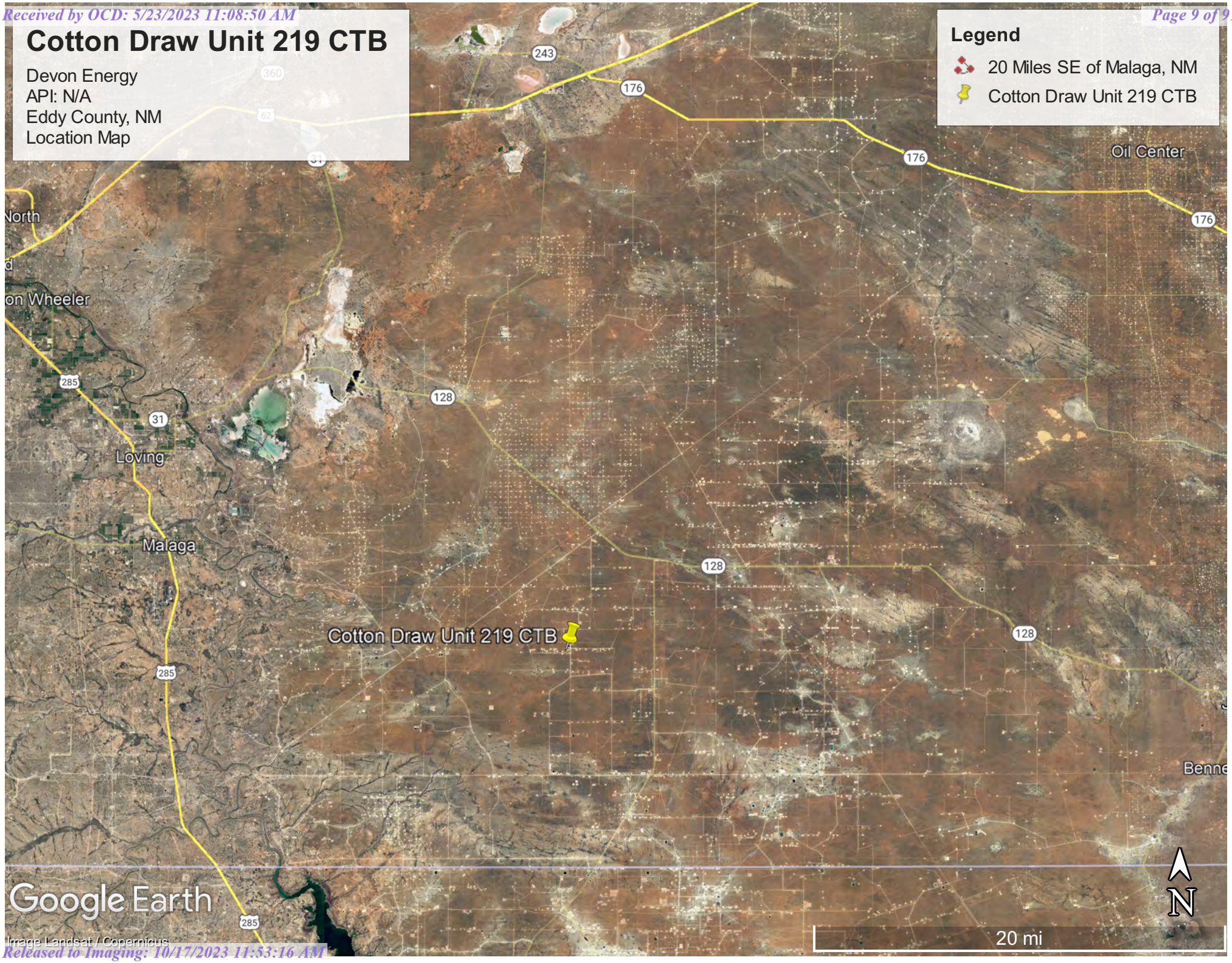
3-Karst Map

4-Site Map

5-Confirmation Sample Map

Cotton Draw Unit 219 CTB

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

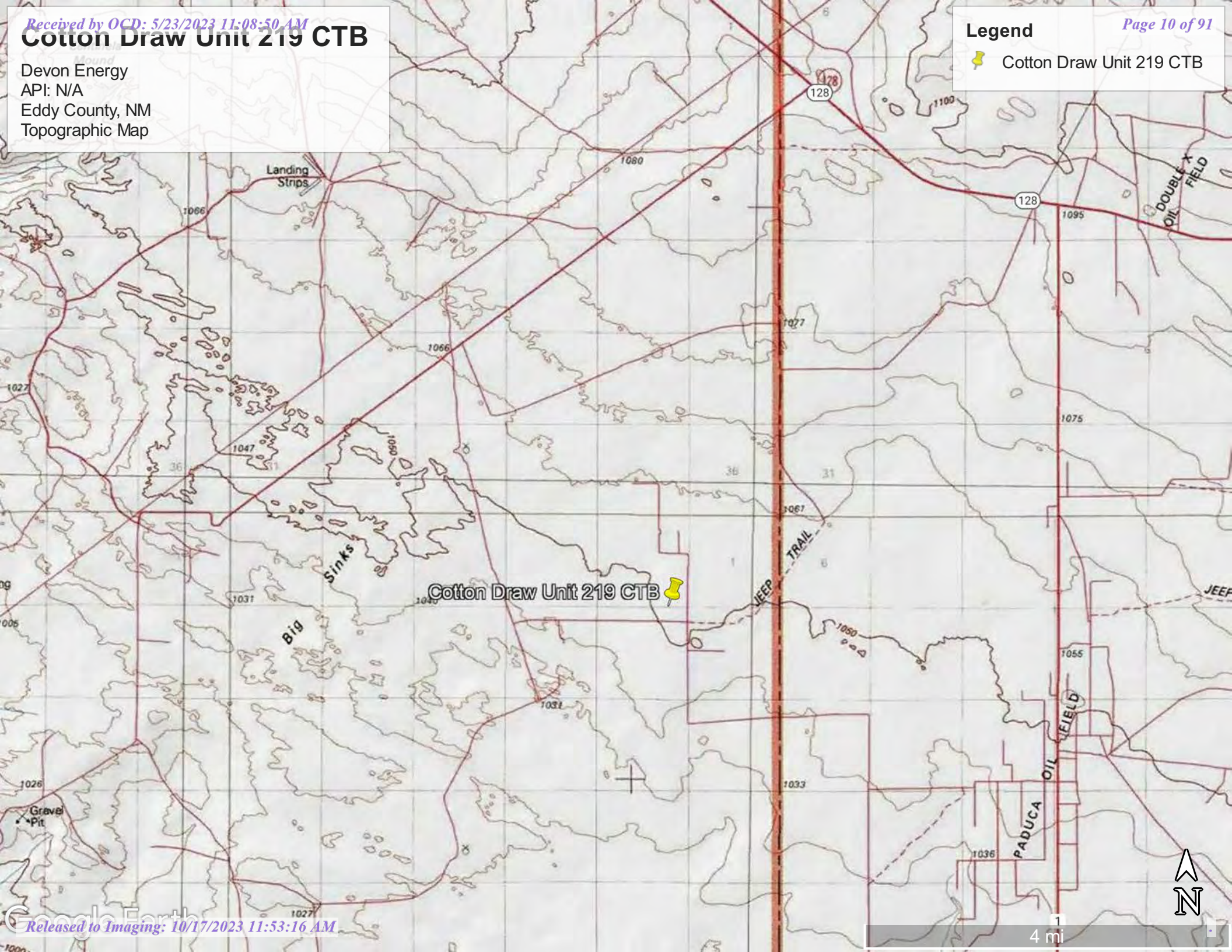


Cotton Draw Unit 219 CTB

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

Legend

Cotton Draw Unit 219 CTB

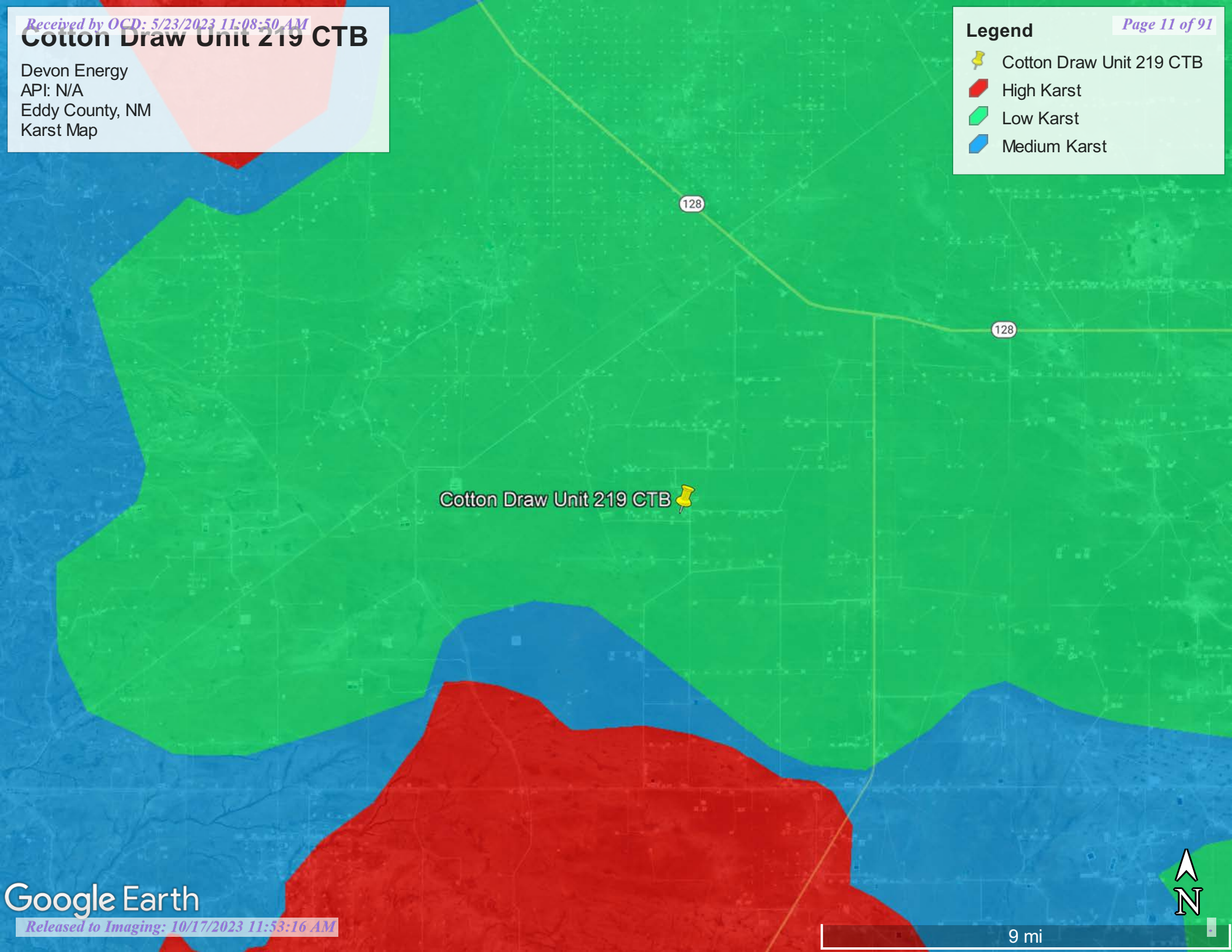


Cotton Draw Unit 219 CTB

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

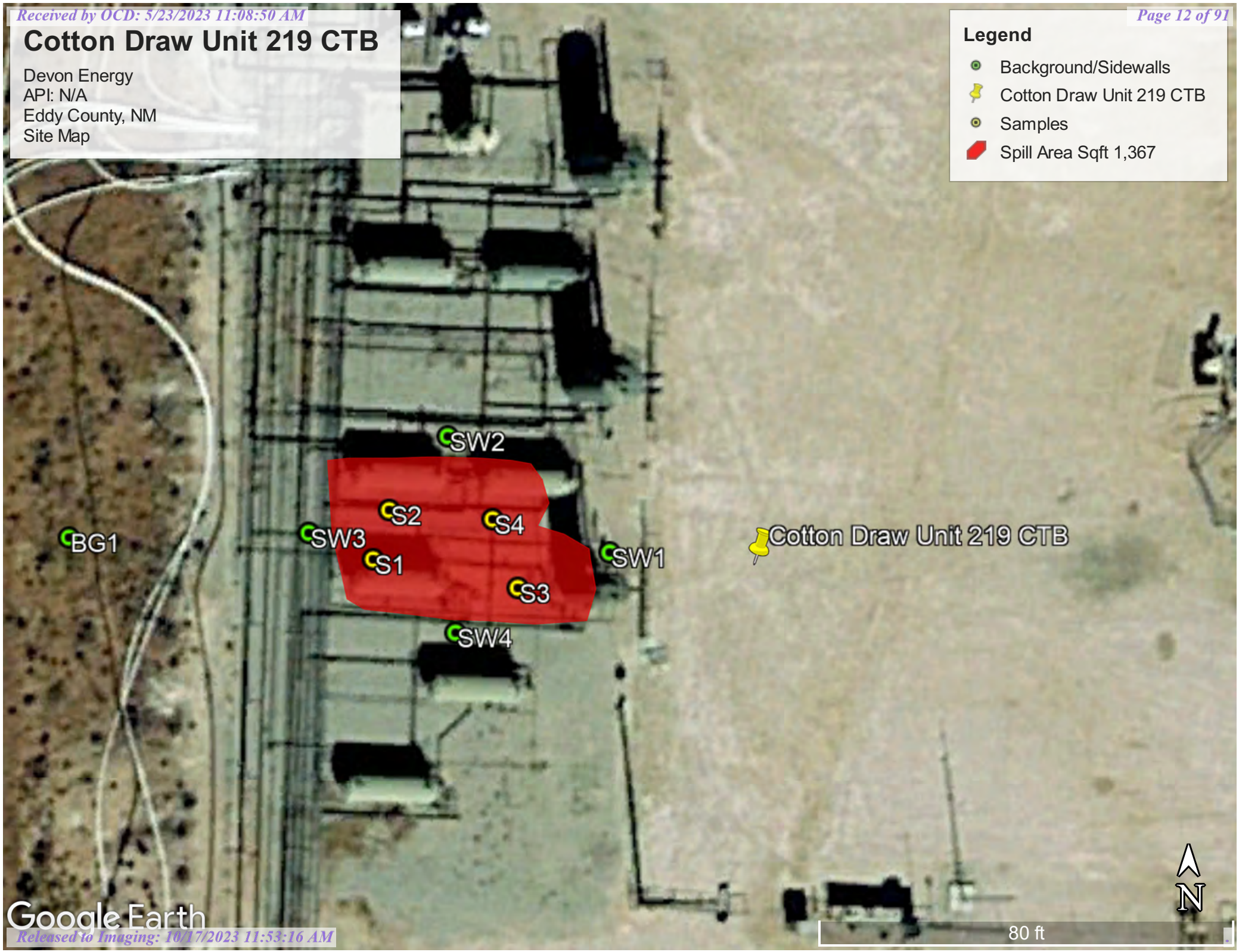
Legend

- Cotton Draw Unit 219 CTB
- High Karst
- Low Karst
- Medium Karst



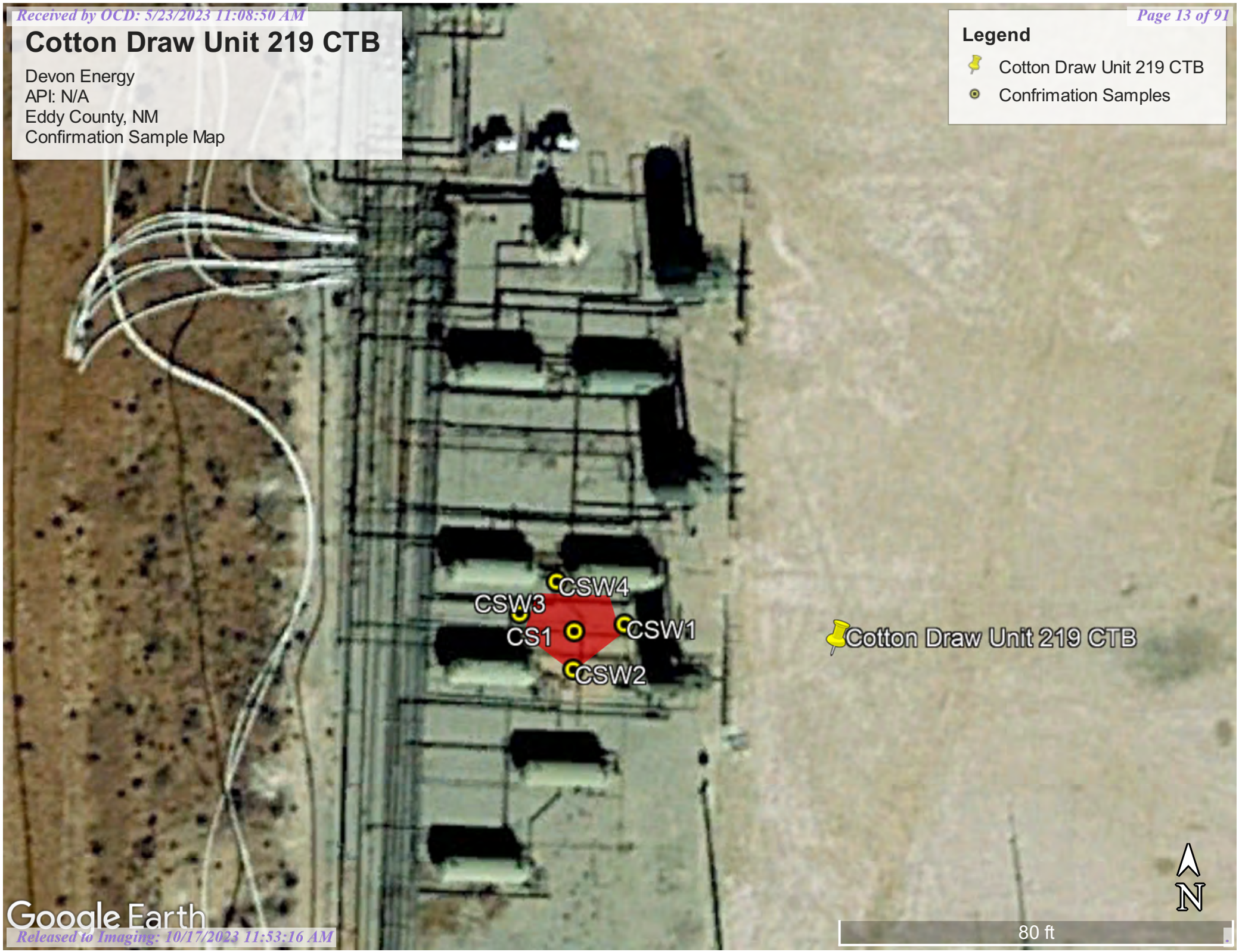
Cotton Draw Unit 219 CTB

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



Cotton Draw Unit 219 CTB

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



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	Depth Well	Depth Water	Water Column
C 03830 POD1		CUB	ED	4	2	4	02	25S	31E	618632	3558432	439	450		
C 02570		CUB	ED	4	2	4	02	25S	31E	618704	3558489*	520	895		
C 02569		CUB	ED	4	4	2	02	25S	31E	618699	3558891*	896	1016		
C 02573		CUB	ED	1	4	2	02	25S	31E	618499	3559091*	1067			
C 02568		CUB	ED	4	3	1	01	25S	31E	619103	3558892*	1073	1025		
C 02571		CUB	ED	4	1	2	02	25S	31E	618292	3559294*	1282	860		
C 02572		CUB	ED	4	2	2	02	25S	31E	618695	3559294*	1289	852		
C 04635 POD1		CUB	ED	4	3	4	01	25S	31E	619958	3558078	1487	55		
C 02574		CUB	ED	1	1	2	02	25S	31E	618092	3559494*	1518			
C 04632 POD1		CUB	ED	1	2	2	10	25S	31E	616802	3557964	1670	55		
C 04593 POD1		CUB	ED	3	4	4	34	24S	31E	616903	3559674	2277	55		
C 04620 POD1		CUB	LE	4	3	4	06	25S	32E	621445	3558018	2973	55		
C 04633 POD1		CUB	ED	2	1	1	35	24S	31E	617394	3561170	3325			
C 04636 POD1		CUB	ED	3	4	3	25	24S	31E	619200	3561279	3336			
C 04643 POD1		C	ED	4	2	2	05	23S	27E	619200	3561279	3336	305	135	170
C 04654 POD1		CUB	ED	3	3	4	25	24S	31E	619764	3561226	3454	55		
C 04618 POD1		CUB	LE	3	4	3	18	25S	32E	621041	3554886	4054	55		
C 04479 POD1		CUB	ED	2	1	1	04	25S	31E	614182	3559400	4504	0	0	0

Average Depth to Water:	**67 feet**
Minimum Depth:	**0 feet**
Maximum Depth:	**135 feet**

Record Count: 18

UTMNAD83 Radius Search (in meters):

Easting (X): 618471.38 **Northing (Y):** 3558023.84 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

2/23/23 9:31 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 03830 POD1	4	2	4	02	25S	31E	618632	3558432

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)
(NAD83 UTM in meters)

Driller License:	1607	**Driller Company:**	DURAN DRILLING		
Driller Name:	DURAN, LUIS A.				
Drill Start Date:	01/28/2015	**Drill Finish Date:**	02/02/2015	**Plug Date:**	
Log File Date:	02/23/2015	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	15 GPM
Casing Size:	7.00	**Depth Well:**	450 feet	**Depth Water:**	

Water Bearing Stratifications:	Top	Bottom	Description
	348	378	Sandstone/Gravel/Conglomerate
	384	448	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	220	450

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

Click to hideNews 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 =

- 320952103444401

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

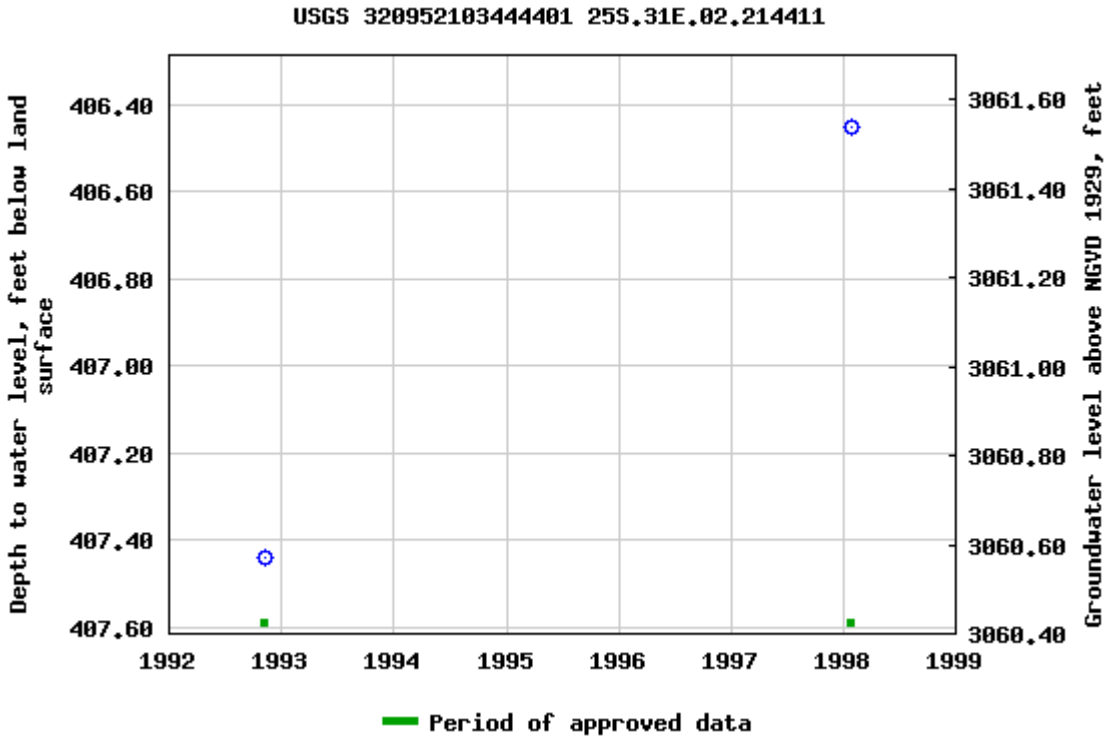
USGS 320952103444401 25S.31E.02.214411

Available data for this site | Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13070001
Latitude 32°09'50.0", Longitude 103°44'41.2" NAD83
Land-surface elevation 3,468.0 feet above NGVD29
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Azotea Tongue of Seven Rivers Formation (313AZOT) 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 about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms

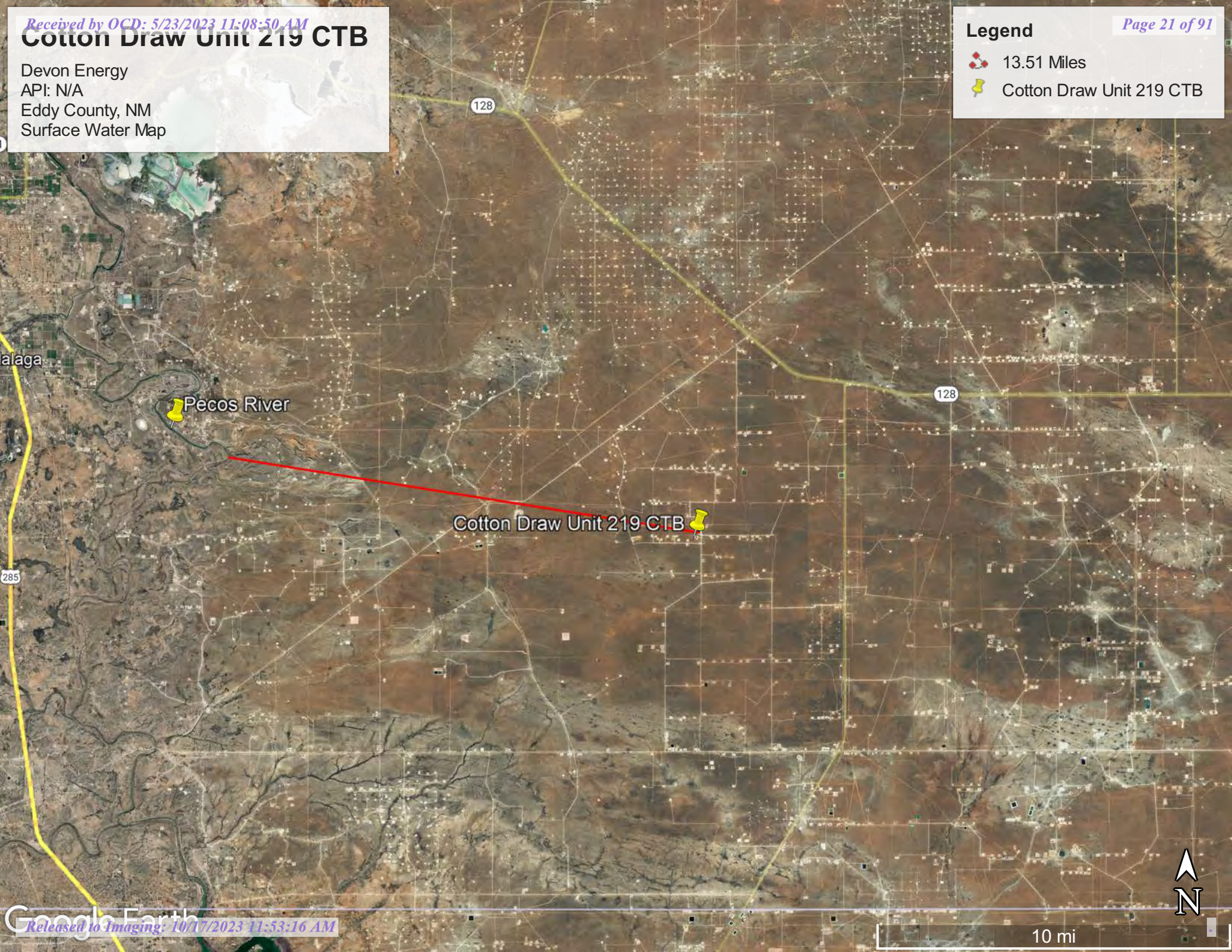
Subscribe for system changes
News

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: 2023-02-23 11:28:06 EST
0.56 0.5 nadww01

Cotton Draw Unit 219 CTB

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



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

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

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

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

FEMA

103°44'56"W 32°9'24"N

103°44'19"W 32°8'54"N

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

1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

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
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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

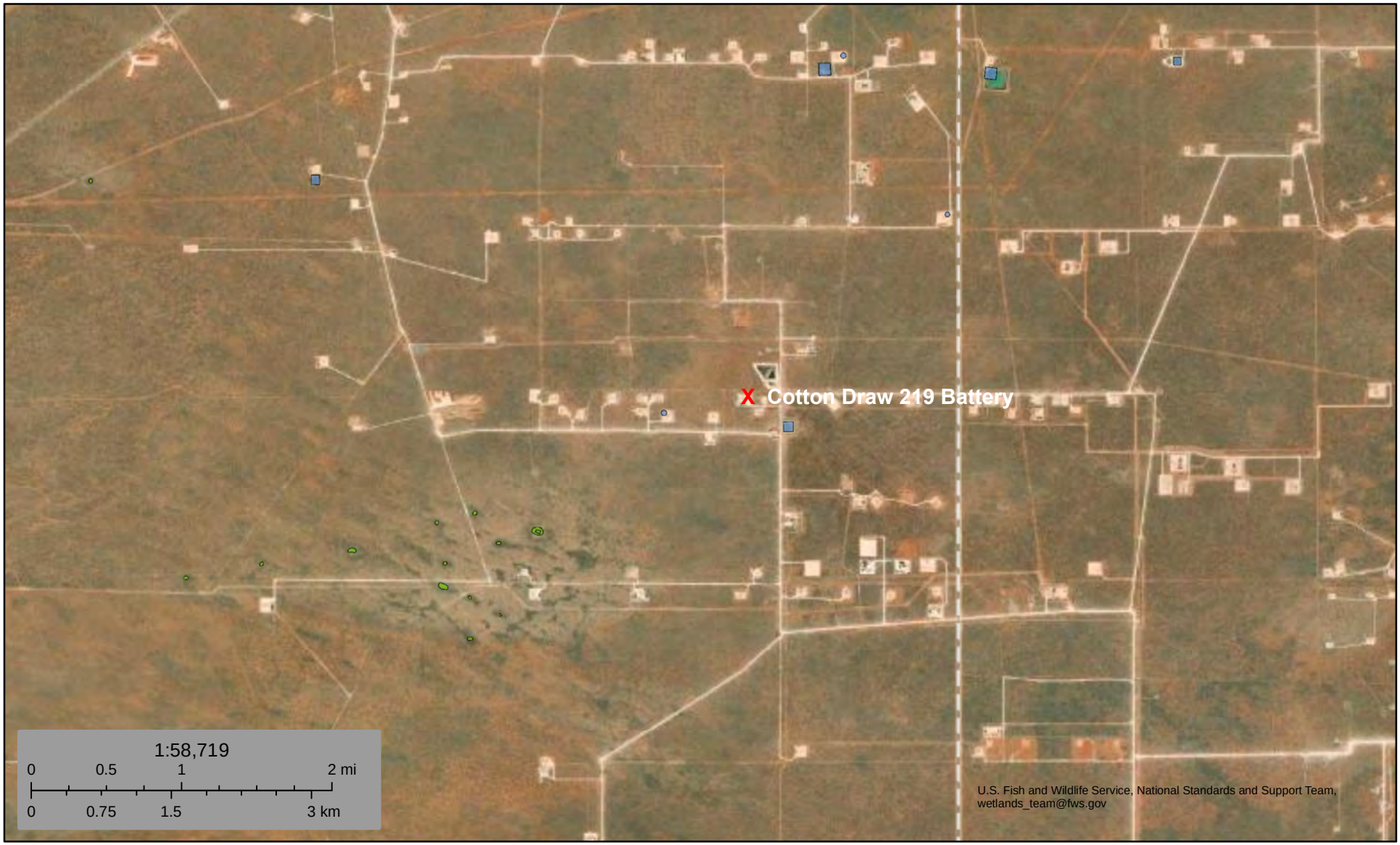
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/23/2023 at 11:29 AM 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.

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands Map



February 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

48-Hour Notification

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	nAPP2302324687
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.152444 Longitude -103.743712
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Cotton Draw Unit 219 CTB	Site Type Oil
Date Release Discovered 1/20/2023	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
P	2	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)

☒ Crude Oil	Volume Released (bbls) 9 BBLS	Volume Recovered (bbls) 8 BBLS
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release Gasket on manway developed a leak.		

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2302324687
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ 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

- ■ The source of the release has been stopped.
- ■ The impacted area has been secured to protect human health and the environment.
- ■ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Kendra Ruiz Title: EHS Associate

Signature: Kendra Ruiz Date: 1/24/2023

email: Kendra.Ruiz@dvn.com Telephone: 575-748-0167

OCD Only

Received by: Jocelyn Harimon Date: 01/25/2023

Spill Volume(Bbls) Calculator	
Inputs in blue, Outputs in red	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
2762.509	0.063
Cubic Feet of Soil Impacted	14.388
Barrels of Soil Impacted	2.56
Soil Type	Sand
Barrels of Oil Assuming 100% Saturation	0.51
Saturation	Damp no fluid when squeezed
Estimated Barrels of Oil Released	0.05
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
1034.941	0.500
Standing fluid	7.687
Total fluids spilled	8.200

Spill Volume(Bbls) Calculator	
Inputs in blue, Outputs in red	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
5699.268	0.063
Cubic Feet of Soil Impacted	29.921
Barrels of Soil Impacted	5.33
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	0.80
Saturation	Damp no fluid when squeezed
Estimated Barrels of Oil Released	0.08
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
Standing fluid	0.000
Total fluids spilled	0.800

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

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 179356
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	1/25/2023

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2302324687
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2302324687
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 Professional

Signature: Dale Woodall Date: 5/23/2023

email: dale.woodall@dvn.com Telephone: 575-748-1839

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2302324687
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.***

[x] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[x] 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)

[x] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

[x] 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: 5/23/2023

email: dale.woodall@dvn.com Telephone: 575-748-1839

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: _____

Gmail

Gio PimaOil <gio@pimaoil.com>

Cotton Draw 219 Confirmation Samples

1 message

Gio PimaOil <gio@pimaoil.com> Mon, May 1, 2023 at 2:22 PM
To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com>

Good Afternoon,
Pima Environmental would like to notify you that we will begin collecting confirmation samples at the Cotton Draw 219 Battery for incident NAPP2302324687. Pima personnel are scheduled to be on site for this sampling event at approximately 4:00 p.m. on Thursday, May 4, 2023. If you have any questions or concerns, please let me know. Thank you.

--
Gio Gomez
Project Manager
cell-806-782-1151
Office- 575-964-7740
Pima Environmental Services, LLC.

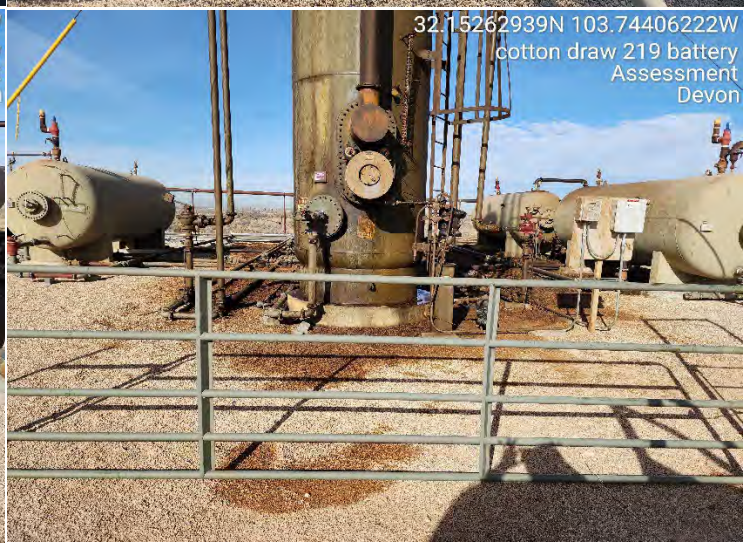
Pima Environmental Services

Appendix D

Photographic Documentation

SITE PHOTOGRAPHS
DEVON ENERGY
COTTON DRAW 219 BATTERY

Site Assessment

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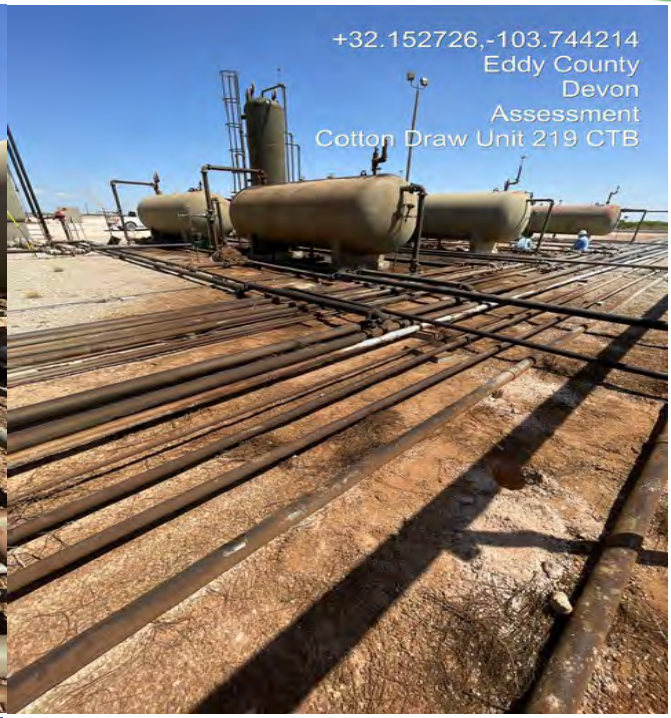
Eddy County
Devon
Assessment
Cotton Draw Unit 219 CTB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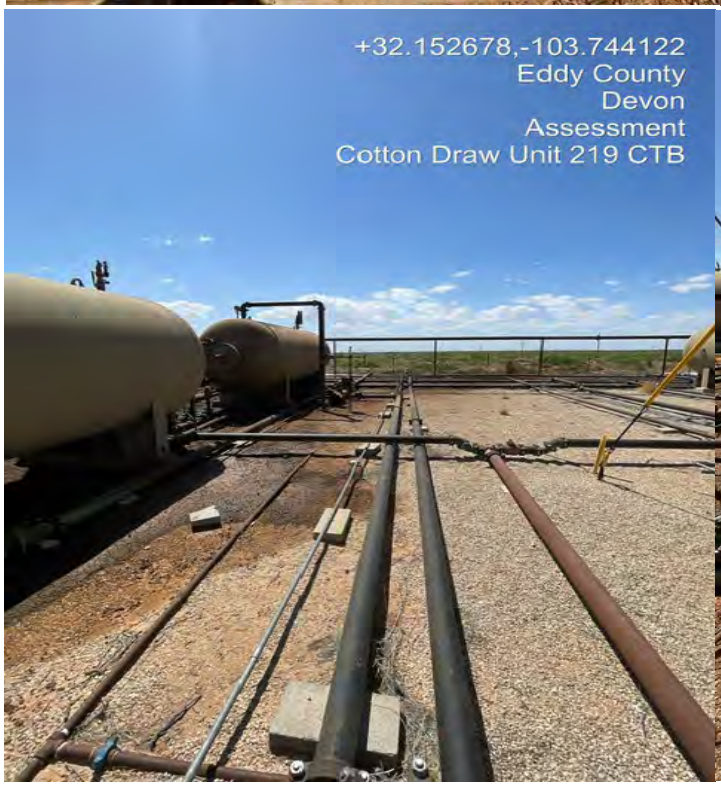
Assessment
Cotton Draw Unit 219 CTB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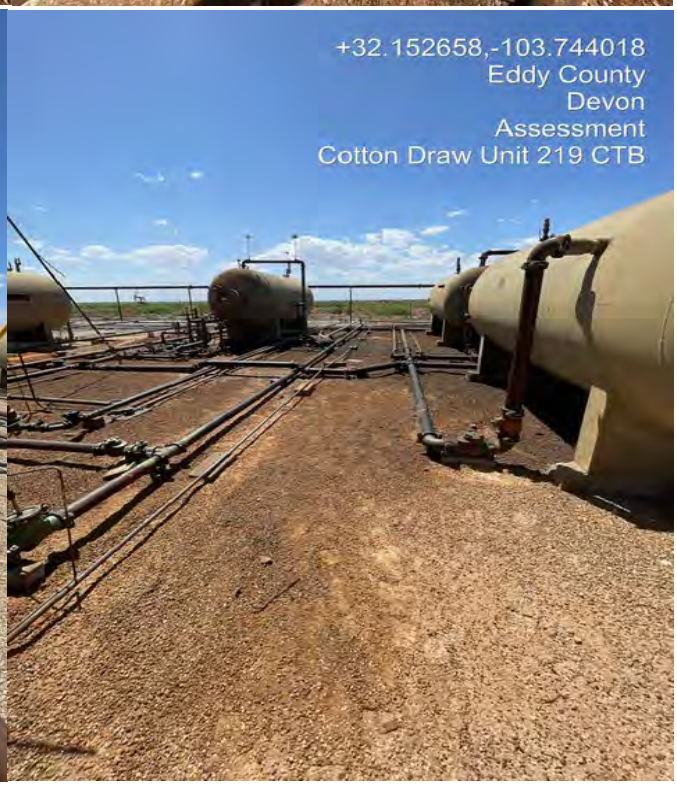
Cotton Draw Unit 219 CTB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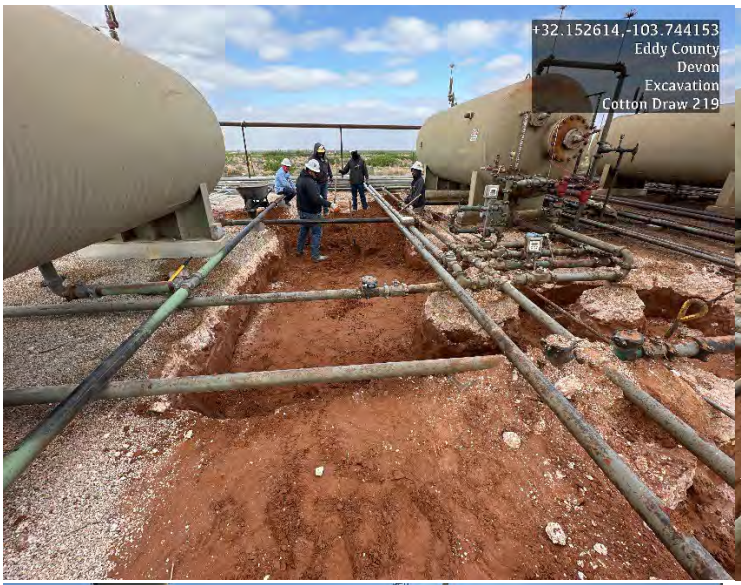
Eddy County
Devon
Assessment
Cotton Draw Unit 219 CTB

Excavation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Devon
Excavation
Cotton Draw 219


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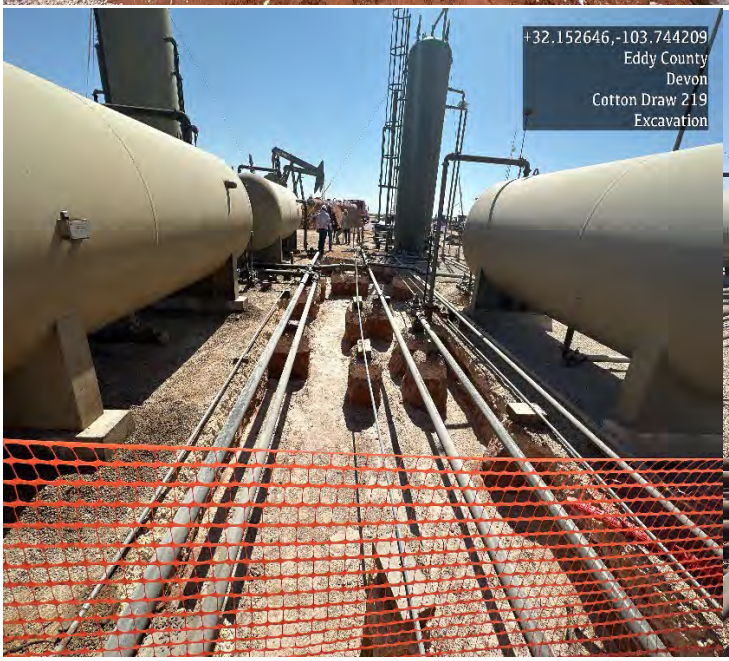
Eddy County
Devon
Excavation
Cotton Draw 219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Devon
Cotton Draw 219
Excavation


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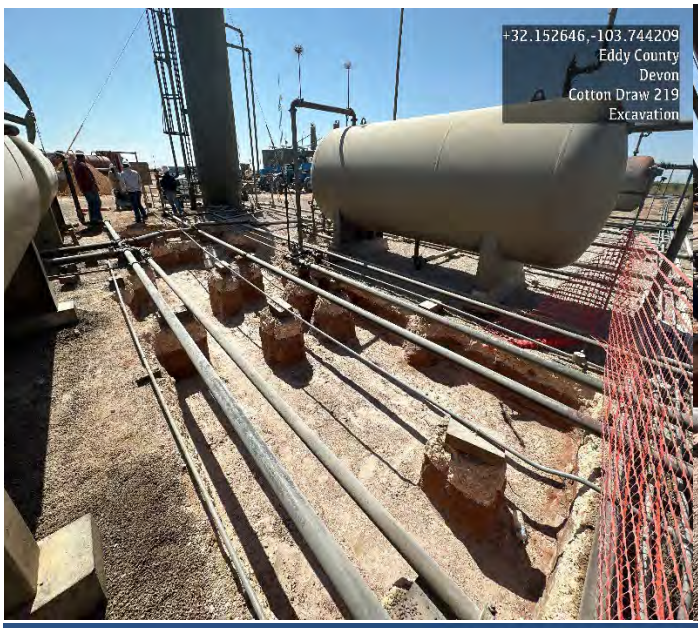
Excavation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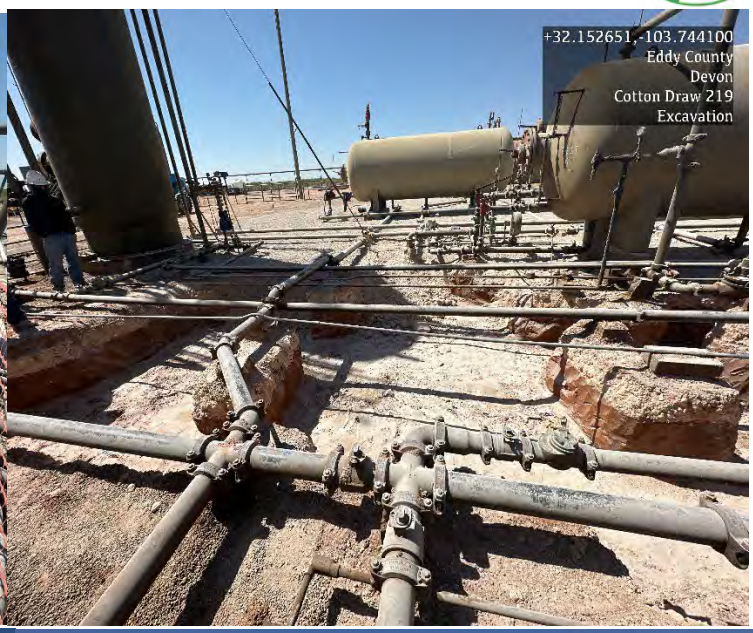
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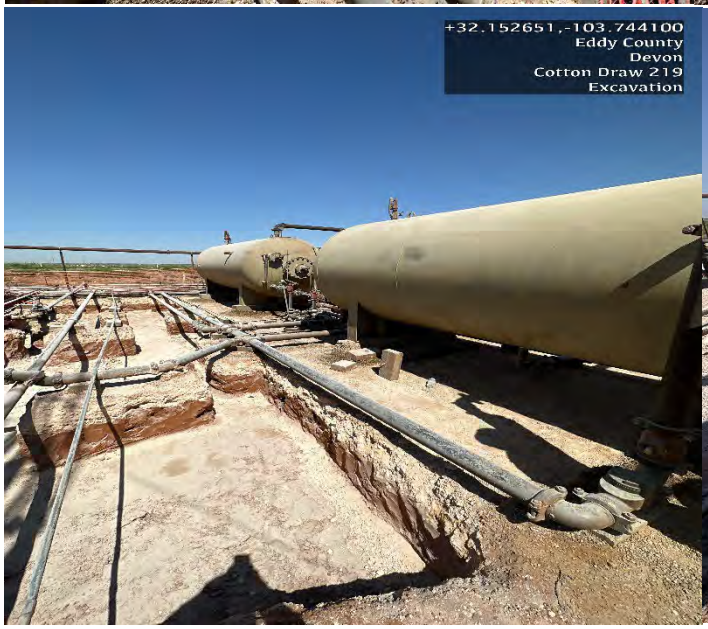
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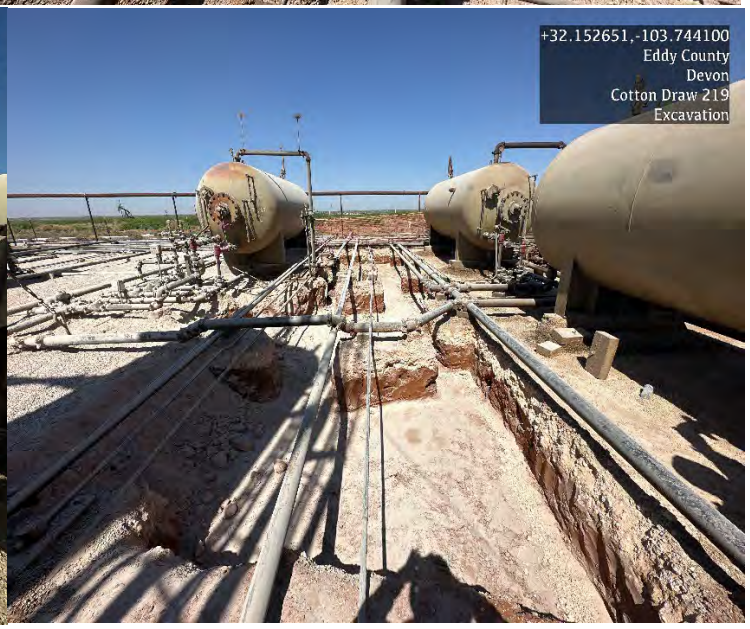
Cotton Draw 219
Excavation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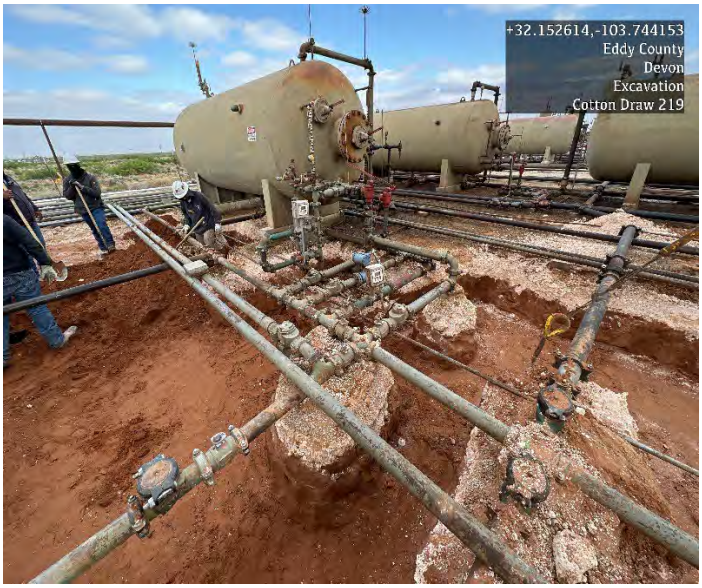
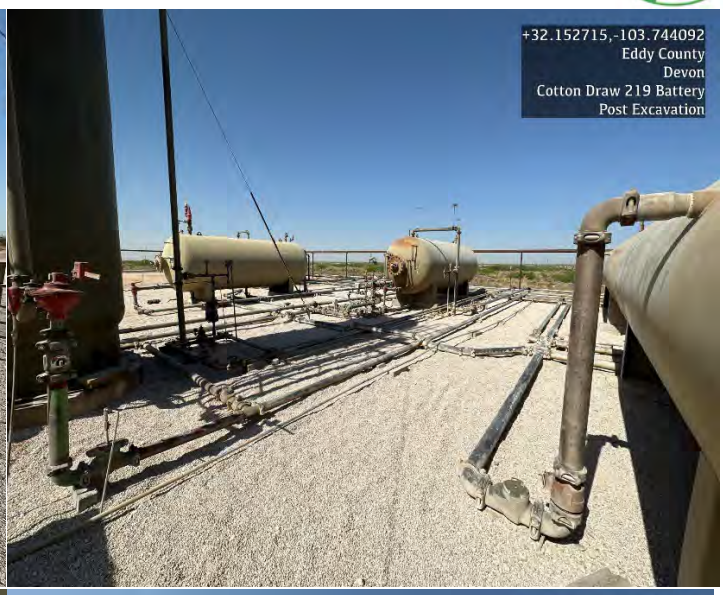
Devon
Cotton Draw 219
Excavation



Post Excavation


+32.152607,-103.744128
Eddy County
Devon
Cotton Draw 219 Battery
Post Excavation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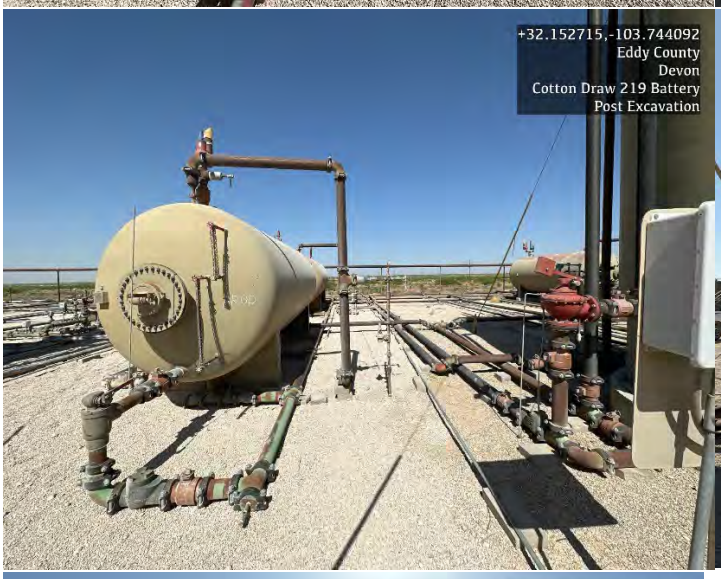
Eddy County
Devon
Cotton Draw 219 Battery
Post Excavation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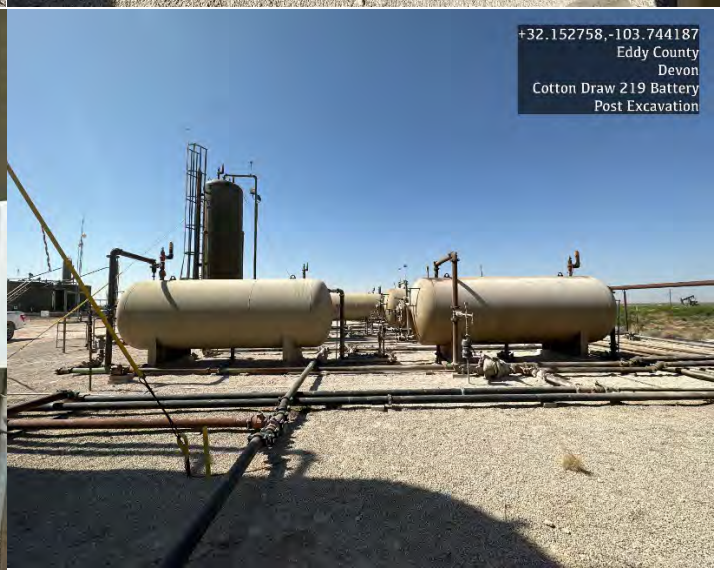
Devon
Cotton Draw 219 Battery
Post Excavation


+32.152758,-103.744187
Eddy County
Devon
Cotton Draw 219 Battery
Post Excavation


+32.152700,-103.744290
Eddy County
Devon
Cotton Draw 219 Battery
Post Excavation

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 219 Battery
Work Order:	E303034
Job Number:	01058-0007
Received:	3/10/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/17/23

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.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.
Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/17/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Cotton Draw 219 Battery
Workorder: E303034
Date Received: 3/10/2023 8:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/10/2023 8:15:00AM, under the Project Name: Cotton Draw 219 Battery.

The analytical test results summarized in this report with the Project Name: Cotton Draw 219 Battery 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 reguarding 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
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
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/17/23 11:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1	E303034-01A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
S1 - 3	E303034-02A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
S1 - 4	E303034-03A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
S2 - 1	E303034-04A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
S2 - 3	E303034-05A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
S2 - 4	E303034-06A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
S3 - 1	E303034-07A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
S3 - 3	E303034-08A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
S3 - 4	E303034-09A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
S4 - 1	E303034-10A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
S4 - 2	E303034-11A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
S4 - 3	E303034-12A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
SW1	E303034-13A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
SW2	E303034-14A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
SW3	E303034-15A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
SW4	E303034-16A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.
BG-1	E303034-17A	Soil	03/07/23	03/10/23	Glass Jar, 2 oz.

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/16/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/16/23	
Toluene	ND	0.0250	1	03/09/23	03/16/23	
o-Xylene	ND	0.0250	1	03/09/23	03/16/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/16/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/13/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/13/23	
Surrogate: n-Nonane		*74.1 %*	*50-200*	*03/13/23*	*03/13/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	**305**	20.0	1	03/13/23	03/13/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/16/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/16/23	
Toluene	ND	0.0250	1	03/09/23	03/16/23	
o-Xylene	ND	0.0250	1	03/09/23	03/16/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/16/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*75.2 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	**107**	20.0	1	03/13/23	03/13/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/16/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/16/23	
Toluene	ND	0.0250	1	03/09/23	03/16/23	
o-Xylene	ND	0.0250	1	03/09/23	03/16/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/16/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*120 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*99.4 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*120 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*99.4 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*80.3 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	ND	20.0	1	03/13/23	03/13/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/16/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/16/23	
Toluene	ND	0.0250	1	03/09/23	03/16/23	
o-Xylene	ND	0.0250	1	03/09/23	03/16/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/16/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*98.6 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*98.6 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*76.3 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	**1030**	20.0	1	03/13/23	03/13/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/16/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/16/23	
Toluene	ND	0.0250	1	03/09/23	03/16/23	
o-Xylene	ND	0.0250	1	03/09/23	03/16/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/16/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*83.2 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	**106**	20.0	1	03/13/23	03/13/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/16/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/16/23	
Toluene	ND	0.0250	1	03/09/23	03/16/23	
o-Xylene	ND	0.0250	1	03/09/23	03/16/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/16/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*112 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*98.3 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*81.9 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	ND	20.0	1	03/13/23	03/13/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/16/23	
Ethylbenzene	**0.316**	0.0250	1	03/09/23	03/16/23	
Toluene	**0.319**	0.0250	1	03/09/23	03/16/23	
o-Xylene	**0.812**	0.0250	1	03/09/23	03/16/23	
p,m-Xylene	**1.98**	0.0500	1	03/09/23	03/16/23	
Total Xylenes	**2.79**	0.0250	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	**74.9**	20.0	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*108 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*102 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	**1040**	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	**329**	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*91.1 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	**689**	20.0	1	03/13/23	03/14/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/16/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/16/23	
Toluene	ND	0.0250	1	03/09/23	03/16/23	
o-Xylene	ND	0.0250	1	03/09/23	03/16/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/16/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*79.6 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	**111**	20.0	1	03/13/23	03/14/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/16/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/16/23	
Toluene	ND	0.0250	1	03/09/23	03/16/23	
o-Xylene	ND	0.0250	1	03/09/23	03/16/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/16/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*97.6 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*114 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*97.6 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*79.6 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	ND	20.0	1	03/13/23	03/14/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	**0.0880**	0.0250	1	03/09/23	03/16/23	
Ethylbenzene	**1.59**	0.0250	1	03/09/23	03/16/23	
Toluene	**2.98**	0.0250	1	03/09/23	03/16/23	
o-Xylene	**3.74**	0.0250	1	03/09/23	03/16/23	
p,m-Xylene	**9.53**	0.0500	1	03/09/23	03/16/23	
Total Xylenes	**13.3**	0.0250	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*114 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	**213**	20.0	1	03/09/23	03/16/23	
Surrogate: Bromofluorobenzene		*114 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*70-130*	*03/09/23*	*03/16/23*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*03/09/23*	*03/16/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	**3920**	250	10	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	**1300**	500	10	03/13/23	03/14/23	
Surrogate: n-Nonane		*112 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	**2770**	40.0	2	03/13/23	03/14/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/17/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/17/23	
Toluene	ND	0.0250	1	03/09/23	03/17/23	
o-Xylene	ND	0.0250	1	03/09/23	03/17/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/17/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*98.8 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*115 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*98.8 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*69.9 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	**104**	20.0	1	03/13/23	03/14/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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E303034-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/17/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/17/23	
Toluene	ND	0.0250	1	03/09/23	03/17/23	
o-Xylene	ND	0.0250	1	03/09/23	03/17/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/17/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*103 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*99.2 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*81.2 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	ND	20.0	1	03/13/23	03/14/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

SW1

E303034-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/17/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/17/23	
Toluene	ND	0.0250	1	03/09/23	03/17/23	
o-Xylene	ND	0.0250	1	03/09/23	03/17/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/17/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*100 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*82.0 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	ND	20.0	1	03/13/23	03/14/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

SW2

E303034-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/17/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/17/23	
Toluene	ND	0.0250	1	03/09/23	03/17/23	
o-Xylene	ND	0.0250	1	03/09/23	03/17/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/17/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*98.7 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*118 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*98.7 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*81.0 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	**26.5**	20.0	1	03/13/23	03/14/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

SW3

E303034-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/17/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/17/23	
Toluene	ND	0.0250	1	03/09/23	03/17/23	
o-Xylene	ND	0.0250	1	03/09/23	03/17/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/17/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*98.9 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*101 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*116 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*98.9 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*83.5 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	ND	20.0	1	03/13/23	03/14/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

SW4

E303034-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/17/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/17/23	
Toluene	ND	0.0250	1	03/09/23	03/17/23	
o-Xylene	ND	0.0250	1	03/09/23	03/17/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/17/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*99.7 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*102 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*99.7 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*81.6 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	ND	20.0	1	03/13/23	03/14/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

BG-1

E303034-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Benzene	ND	0.0250	1	03/09/23	03/17/23	
Ethylbenzene	ND	0.0250	1	03/09/23	03/17/23	
Toluene	ND	0.0250	1	03/09/23	03/17/23	
o-Xylene	ND	0.0250	1	03/09/23	03/17/23	
p,m-Xylene	ND	0.0500	1	03/09/23	03/17/23	
Total Xylenes	ND	0.0250	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*98.6 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2310054
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/09/23	03/17/23	
Surrogate: Bromofluorobenzene		*99.1 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: 1,2-Dichloroethane-d4		*117 %*	*70-130*	*03/09/23*	*03/17/23*	
Surrogate: Toluene-d8		*98.6 %*	*70-130*	*03/09/23*	*03/17/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2311010
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/23	03/14/23	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/23	03/14/23	
Surrogate: n-Nonane		*83.8 %*	*50-200*	*03/13/23*	*03/14/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2310057
Chloride	ND	20.0	1	03/13/23	03/14/23	

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2310054-BLK1)									Prepared: 03/09/23 Analyzed: 03/16/23
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	*0.518*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.604*		*0.500*		*121*	*70-130*			
Surrogate: Toluene-d8	*0.500*		*0.500*		*99.9*	*70-130*			
LCS (2310054-BS1)									Prepared: 03/09/23 Analyzed: 03/16/23
Benzene	2.86	0.0250	2.50		114	70-130			
Ethylbenzene	2.76	0.0250	2.50		110	70-130			
Toluene	2.87	0.0250	2.50		115	70-130			
o-Xylene	2.82	0.0250	2.50		113	70-130			
p,m-Xylene	5.66	0.0500	5.00		113	70-130			
Total Xylenes	8.48	0.0250	7.50		113	70-130			
Surrogate: Bromofluorobenzene	*0.507*		*0.500*		*101*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.584*		*0.500*		*117*	*70-130*			
Surrogate: Toluene-d8	*0.508*		*0.500*		*102*	*70-130*			
Matrix Spike (2310054-MS1)				**Source: E303034-01**					Prepared: 03/09/23 Analyzed: 03/16/23
Benzene	2.45	0.0250	2.50	ND	98.0	48-131			
Ethylbenzene	2.40	0.0250	2.50	ND	96.0	45-135			
Toluene	2.49	0.0250	2.50	ND	99.6	48-130			
o-Xylene	2.50	0.0250	2.50	ND	99.8	43-135			
p,m-Xylene	4.95	0.0500	5.00	ND	98.9	43-135			
Total Xylenes	7.44	0.0250	7.50	ND	99.2	43-135			
Surrogate: Bromofluorobenzene	*0.526*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.579*		*0.500*		*116*	*70-130*			
Surrogate: Toluene-d8	*0.513*		*0.500*		*103*	*70-130*			
Matrix Spike Dup (2310054-MSD1)				**Source: E303034-01**					Prepared: 03/09/23 Analyzed: 03/16/23
Benzene	2.46	0.0250	2.50	ND	98.4	48-131	0.407	23	
Ethylbenzene	2.42	0.0250	2.50	ND	96.7	45-135	0.726	27	
Toluene	2.51	0.0250	2.50	ND	100	48-130	0.840	24	
o-Xylene	2.50	0.0250	2.50	ND	100	43-135	0.320	27	
p,m-Xylene	4.99	0.0500	5.00	ND	99.9	43-135	0.966	27	
Total Xylenes	7.50	0.0250	7.50	ND	100	43-135	0.750	27	
Surrogate: Bromofluorobenzene	*0.531*		*0.500*		*106*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.593*		*0.500*		*119*	*70-130*			
Surrogate: Toluene-d8	*0.507*		*0.500*		*101*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2310054-BLK1)									Prepared: 03/09/23 Analyzed: 03/16/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	*0.518*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.604*		*0.500*		*121*	*70-130*			
Surrogate: Toluene-d8	*0.500*		*0.500*		*99.9*	*70-130*			
LCS (2310054-BS2)									Prepared: 03/09/23 Analyzed: 03/16/23
Gasoline Range Organics (C6-C10)	52.4	20.0	50.0		105	70-130			
Surrogate: Bromofluorobenzene	*0.517*		*0.500*		*103*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.579*		*0.500*		*116*	*70-130*			
Surrogate: Toluene-d8	*0.511*		*0.500*		*102*	*70-130*			
Matrix Spike (2310054-MS2)				**Source: E303034-01**					Prepared: 03/09/23 Analyzed: 03/16/23
Gasoline Range Organics (C6-C10)	49.1	20.0	50.0	ND	98.2	70-130			
Surrogate: Bromofluorobenzene	*0.519*		*0.500*		*104*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.592*		*0.500*		*118*	*70-130*			
Surrogate: Toluene-d8	*0.516*		*0.500*		*103*	*70-130*			
Matrix Spike Dup (2310054-MSD2)				**Source: E303034-01**					Prepared: 03/09/23 Analyzed: 03/16/23
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.1	70-130	4.23	20	
Surrogate: Bromofluorobenzene	*0.526*		*0.500*		*105*	*70-130*			
Surrogate: 1,2-Dichloroethane-d4	*0.572*		*0.500*		*114*	*70-130*			
Surrogate: Toluene-d8	*0.513*		*0.500*		*103*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2311010-BLK1)									Prepared: 03/13/23 Analyzed: 03/13/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*38.8*		*50.0*		*77.5*	*50-200*			
LCS (2311010-BS1)									Prepared: 03/13/23 Analyzed: 03/13/23
Diesel Range Organics (C10-C28)	222	25.0	250		88.9	38-132			
Surrogate: n-Nonane	*43.0*		*50.0*		*85.9*	*50-200*			
Matrix Spike (2311010-MS1)				**Source: E303034-16**					Prepared: 03/13/23 Analyzed: 03/13/23
Diesel Range Organics (C10-C28)	219	25.0	250	ND	87.5	38-132			
Surrogate: n-Nonane	*41.0*		*50.0*		*82.0*	*50-200*			
Matrix Spike Dup (2311010-MSD1)				**Source: E303034-16**					Prepared: 03/13/23 Analyzed: 03/13/23
Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.1	38-132	4.10	20	
Surrogate: n-Nonane	*43.0*		*50.0*		*85.9*	*50-200*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 219 Battery	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	3/17/2023 11:27:20AM

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 (2310057-BLK1)									Prepared: 03/13/23 Analyzed: 03/13/23
Chloride	ND	20.0							
LCS (2310057-BS1)									Prepared: 03/13/23 Analyzed: 03/13/23
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2310057-MS1)				**Source: E303034-01**					Prepared: 03/13/23 Analyzed: 03/13/23
Chloride	560	20.0	250	305	102	80-120			
Matrix Spike Dup (2310057-MSD1)				**Source: E303034-01**					Prepared: 03/13/23 Analyzed: 03/13/23
Chloride	558	20.0	250	305	101	80-120	0.322	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 219 Battery	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	03/17/23 11:27

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

Client: Pima Environmental Services	Bill To
Project: Cotton Draw 219 Battery	Attention:
Project Manager: Tom Bynum	Address:
Address: 5614 N. Lovington Hwy.	City, State, Zip
City, State, Zip Hobbs, NM, 88240	Phone:
Phone: 580-748-1613	Email:
Email: tom@pimaoil.com	Pima Project # 1-265
Report due by:	

Lab Use Only: Lab WO# E303034 | Job Number 01058-0007

TAT: 1D | 2D | 3D | Standard X

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | BGDOC NM X | BGDOC TX

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks
	3/7/23	Soil	1-4oz	S1-1	1	
				S1-3	2	
				S1-4	3	
				S2-1	4	
				S2-3	5	
				S2-4	6	
				S3-1	7	
				S3-3	8	
				S3-4	9	
				S4-1	10	

Additional Instructions: Billing #: 21118879

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. Sampled by:

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 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	3/9/23	14:43	Michelle Gaytan	3-9-23	1443
Michelle Gaytan	3-9-23	1715	Lorenzo Lei	3-9-23	1810
Lorenzo Lei	3-9-23	2345	Cathe Chat	3/10/23	8:15

Lab Use Only: Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

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

Project Information

Chain of Custody

Client: Pima Environmental Services	
Project: Cotton Draw 219 Battery	
Project Manager: Tom Bynum	
Address: 5614 N. Lovington Hwy.	
City, State, Zip Hobbs, NM, 88240	
Phone: 580-748-1613	
Email: tom@pimaoil.com	
Report due by:	

Bill To

Attention:	
Address:	
City, State, Zip	
Phone:	
Email:	
Pima Project #	1-265

Lab Use Only

Lab WO#	Job Number
E303034	0058-0007

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

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
	3/9/23	Soil	1-4oz	~~S4-3~~ SO S4-2	11							X		
				S4-3	12									
				SW1	13									
				SW2	14									
				SW3	15									
				SW4	16									
				BG-1	17									

Analysis and Method

Additional Instructions:

Billing #: 21118879

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. Sampled by:

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 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	3/9/23	14:43	[signature]	3-9-23	1443
[signature]	3-9-23	1715	[signature]	3-9-23	1800
[signature]	3-9-23	2345	[signature]	3/10/23	8:15

Lab Use Only

Received on ice: (Y) N

T1 T2 T3

AVG Temp °C 4

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: 3/10/2023 9:08:52AM

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:	03/10/23 08:15	Work Order ID:	E303034
Phone:	(575) 631-6977	Date Logged In:	03/09/23 15:30	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	03/16/23 07:00 (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	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

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

Comments/Resolution

Time sampled not provided on COC per client.

Client Instruction

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

Date

envirotech Inc.

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 219 CTB1
Work Order:	E305045
Job Number:	01058-0007
Received:	5/9/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/10/23

Date Reported: 5/10/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Cotton Draw Unit 219 CTB1
Workorder: E305045
Date Received: 5/9/2023 7:15:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/9/2023 7:15:00AM, under the Project Name: Cotton Draw Unit 219 CTB1.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 219 CTB1 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 reguarding 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

Raina Schwanz
Laboratory Administrator
Office: 505-632-1881
rainaschwanz@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
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
ljarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 219 CTB1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/10/23 11:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS-1	E305045-01A	Soil	05/04/23	05/09/23	Glass Jar, 2 oz.
CSW-1	E305045-02A	Soil	05/04/23	05/09/23	Glass Jar, 2 oz.
CSW-2	E305045-03A	Soil	05/04/23	05/09/23	Glass Jar, 2 oz.
CSW-3	E305045-04A	Soil	05/04/23	05/09/23	Glass Jar, 2 oz.
CSW-4	E305045-05A	Soil	05/04/23	05/09/23	Glass Jar, 2 oz.

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 219 CTB1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/10/2023 11:27:51AM

CS-1

E305045-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Benzene	ND	0.0250	1	05/09/23	05/09/23	
Ethylbenzene	ND	0.0250	1	05/09/23	05/09/23	
Toluene	ND	0.0250	1	05/09/23	05/09/23	
o-Xylene	ND	0.0250	1	05/09/23	05/09/23	
p,m-Xylene	ND	0.0500	1	05/09/23	05/09/23	
Total Xylenes	ND	0.0250	1	05/09/23	05/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*90.4 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/23	05/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.7 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2319019
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
Surrogate: n-Nonane		*103 %*	*50-200*	*05/09/23*	*05/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2319022
Chloride	ND	20.0	1	05/09/23	05/09/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 219 CTB1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/10/2023 11:27:51AM

CSW-1

E305045-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Benzene	ND	0.0250	1	05/09/23	05/09/23	
Ethylbenzene	ND	0.0250	1	05/09/23	05/09/23	
Toluene	ND	0.0250	1	05/09/23	05/09/23	
o-Xylene	ND	0.0250	1	05/09/23	05/09/23	
p,m-Xylene	ND	0.0500	1	05/09/23	05/09/23	
Total Xylenes	ND	0.0250	1	05/09/23	05/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.3 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/23	05/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*93.5 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2319019
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
Surrogate: n-Nonane		*103 %*	*50-200*	*05/09/23*	*05/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2319022
Chloride	ND	20.0	1	05/09/23	05/09/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 219 CTB1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/10/2023 11:27:51AM

CSW-2

E305045-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Benzene	ND	0.0250	1	05/09/23	05/09/23	
Ethylbenzene	ND	0.0250	1	05/09/23	05/09/23	
Toluene	ND	0.0250	1	05/09/23	05/09/23	
o-Xylene	ND	0.0250	1	05/09/23	05/09/23	
p,m-Xylene	ND	0.0500	1	05/09/23	05/09/23	
Total Xylenes	ND	0.0250	1	05/09/23	05/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*92.4 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/23	05/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*90.3 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2319019
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
Surrogate: n-Nonane		*102 %*	*50-200*	*05/09/23*	*05/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2319022
Chloride	ND	20.0	1	05/09/23	05/09/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 219 CTB1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/10/2023 11:27:51AM

CSW-3

E305045-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Benzene	ND	0.0250	1	05/09/23	05/09/23	
Ethylbenzene	ND	0.0250	1	05/09/23	05/09/23	
Toluene	ND	0.0250	1	05/09/23	05/09/23	
o-Xylene	ND	0.0250	1	05/09/23	05/09/23	
p,m-Xylene	ND	0.0500	1	05/09/23	05/09/23	
Total Xylenes	ND	0.0250	1	05/09/23	05/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.9 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/23	05/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.2 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2319019
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
Surrogate: n-Nonane		*87.2 %*	*50-200*	*05/09/23*	*05/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2319022
Chloride	ND	20.0	1	05/09/23	05/09/23	

Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 219 CTB1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/10/2023 11:27:51AM

CSW-4

E305045-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Benzene	ND	0.0250	1	05/09/23	05/09/23	
Ethylbenzene	ND	0.0250	1	05/09/23	05/09/23	
Toluene	ND	0.0250	1	05/09/23	05/09/23	
o-Xylene	ND	0.0250	1	05/09/23	05/09/23	
p,m-Xylene	ND	0.0500	1	05/09/23	05/09/23	
Total Xylenes	ND	0.0250	1	05/09/23	05/09/23	
Surrogate: 4-Bromochlorobenzene-PID		*93.5 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL			Batch: 2319023
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/09/23	05/09/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*91.5 %*	*70-130*	*05/09/23*	*05/09/23*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM			Batch: 2319019
Diesel Range Organics (C10-C28)	ND	25.0	1	05/09/23	05/09/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/09/23	05/09/23	
Surrogate: n-Nonane		*90.7 %*	*50-200*	*05/09/23*	*05/09/23*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA			Batch: 2319022
Chloride	ND	20.0	1	05/09/23	05/09/23	

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 219 CTB1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/10/2023 11:27:51AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2319023-BLK1)									Prepared: 05/09/23 Analyzed: 05/09/23
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: 4-Bromochlorobenzene-PID	*7.58*		*8.00*		*94.7*	*70-130*			
LCS (2319023-BS1)									Prepared: 05/09/23 Analyzed: 05/09/23
Benzene	4.67	0.0250	5.00		93.4	70-130			
Ethylbenzene	4.87	0.0250	5.00		97.5	70-130			
Toluene	4.94	0.0250	5.00		98.8	70-130			
o-Xylene	5.01	0.0250	5.00		100	70-130			
p,m-Xylene	9.93	0.0500	10.0		99.3	70-130			
Total Xylenes	14.9	0.0250	15.0		99.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*7.57*		*8.00*		*94.6*	*70-130*			
Matrix Spike (2319023-MS1)				**Source: E305046-02**					Prepared: 05/09/23 Analyzed: 05/09/23
Benzene	4.49	0.0250	5.00	ND	89.7	54-133			
Ethylbenzene	4.69	0.0250	5.00	ND	93.9	61-133			
Toluene	4.77	0.0250	5.00	ND	95.3	61-130			
o-Xylene	4.82	0.0250	5.00	ND	96.5	63-131			
p,m-Xylene	9.55	0.0500	10.0	ND	95.5	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	95.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*7.64*		*8.00*		*95.4*	*70-130*			
Matrix Spike Dup (2319023-MSD1)				**Source: E305046-02**					Prepared: 05/09/23 Analyzed: 05/09/23
Benzene	4.52	0.0250	5.00	ND	90.5	54-133	0.833	20	
Ethylbenzene	4.73	0.0250	5.00	ND	94.6	61-133	0.806	20	
Toluene	4.80	0.0250	5.00	ND	95.9	61-130	0.638	20	
o-Xylene	4.86	0.0250	5.00	ND	97.2	63-131	0.687	20	
p,m-Xylene	9.63	0.0500	10.0	ND	96.3	63-131	0.865	20	
Total Xylenes	14.5	0.0250	15.0	ND	96.6	63-131	0.806	20	
Surrogate: 4-Bromochlorobenzene-PID	*7.63*		*8.00*		*95.4*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 219 CTB1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/10/2023 11:27:51AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2319023-BLK1)									Prepared: 05/09/23 Analyzed: 05/09/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.44*		*8.00*		*93.0*	*70-130*			
LCS (2319023-BS2)									Prepared: 05/09/23 Analyzed: 05/09/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.70*		*8.00*		*96.3*	*70-130*			
Matrix Spike (2319023-MS2)				**Source: E305046-02**					Prepared: 05/09/23 Analyzed: 05/09/23
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.72*		*8.00*		*96.4*	*70-130*			
Matrix Spike Dup (2319023-MSD2)				**Source: E305046-02**					Prepared: 05/09/23 Analyzed: 05/09/23
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0	ND	88.6	70-130	6.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.58*		*8.00*		*94.8*	*70-130*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 219 CTB1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/10/2023 11:27:51AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2319019-BLK1)									Prepared: 05/09/23 Analyzed: 05/09/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	*52.1*		*50.0*		*104*	*50-200*			
LCS (2319019-BS1)									Prepared: 05/09/23 Analyzed: 05/09/23
Diesel Range Organics (C10-C28)	268	25.0	250		107	38-132			
Surrogate: n-Nonane	*51.8*		*50.0*		*104*	*50-200*			
Matrix Spike (2319019-MS1)				**Source: E305046-08**					Prepared: 05/09/23 Analyzed: 05/09/23
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132			
Surrogate: n-Nonane	*50.5*		*50.0*		*101*	*50-200*			
Matrix Spike Dup (2319019-MSD1)				**Source: E305046-08**					Prepared: 05/09/23 Analyzed: 05/09/23
Diesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	1.99	20	
Surrogate: n-Nonane	*50.0*		*50.0*		*100*	*50-200*			

QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit 219 CTB1	**Reported:**
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/10/2023 11:27:51AM

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 (2319022-BLK1)									Prepared: 05/09/23 Analyzed: 05/09/23
Chloride	ND	20.0							
LCS (2319022-BS1)									Prepared: 05/09/23 Analyzed: 05/09/23
Chloride	246	20.0	250		98.6	90-110			
Matrix Spike (2319022-MS1)				**Source: E305045-01**					Prepared: 05/09/23 Analyzed: 05/09/23
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2319022-MSD1)				**Source: E305045-01**					Prepared: 05/09/23 Analyzed: 05/09/23
Chloride	254	20.0	250	ND	102	80-120	0.436	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 219 CTB1	
PO Box 247	Project Number:	01058-0007	**Reported:**
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/10/23 11:27

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 1

Client: Pima Environmental Services	
Project: Cotton Draw Unit 219 CTB1	
Project Manager: Tom Bynum	
Address: 5614 N. Lovington Hwy.	
City, State, Zip Hobbs, NM, 88240	
Phone: 580-748-1613	
Email: tom@pimaoil.com	
Report due by:	

Bill To

Attention:	Devon
Address:	
City, State, Zip	
Phone:	
Email:	
Pima Project #	265

Lab Use Only

Lab WO#	Job Number
E305045	01958-0007

TAT

1D	2D	3D	Standard
X			

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

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
10805	5/4/23	S	1	CS-1	1									X				
10:10	5/4/23			CSW-1	2													
10:15	5/4/23			CSW-2	3													
10:20	5/4/23			CSW-3	4													
10:25 AM	5/4/23			CSW-4	5													

Additional Instructions: Billing # 21118579

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. Sampled by: Audrina

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 6 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Audrina Adame	5/8/23	200	Michelle Campos	5-8-23	1400
Michelle Campos	5-8-23	1630	ATHENA MUSSO	5-9-23	1700
ATHENA MUSSO	5-9-23	2300	[illegible]	05/09/23	7:15

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4.0

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: 5/9/2023 10:57:34AM

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:	05/09/23 07:15	Work Order ID:	E305045
Phone:	(575) 631-6977	Date Logged In:	05/08/23 16:03	Logged In By:	Caitlin Mars
Email:	tom@pimaoil.com	Due Date:	05/09/23 17:00 (0 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	Carrier: Courier
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Comments/Resolution

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

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 219758

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	6137
	Action Number: 219758
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2302324687 COTTON DRAW UNIT 219 CTB, thank you. This closure is approved.	10/17/2023