

Incident ID	nAPP2221026056
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51'-100'</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2221026056
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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: EHS ProfessionalSignature: Dale Woodall Date: 2/6/2023email: dale.woodall@dvni.com Telephone: 405-318-4697**OCD Only**Received by: Jocelyn Harimon Date: 02/06/2023

Incident ID	nAPP2221026056
District RP	
Facility ID	
Application ID	

Closure

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Dale Woodall Title: EHS Professional
Signature: Dale Woodall Date: 2/6/2023
email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: Jocelyn Harimon Date: 02/06/2023

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

February 2, 2023

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

Re: Site Assessment, Remediation, and Closure Report
Fighting Okra 18 CTB 4
API No. N/A
GPS: Latitude 32.048234 Longitude -103.509606
UL -- C, 18, T23S, R34E
Lea County, NM
NMOCD Ref. No. NAPP2221026056

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 Produced Water release that occurred at the Fighting Okra 18 CTB 4 (Fighting Okra). The initial C-141 was submitted on August 11, 2022 (Appendix C). This incident was assigned Incident ID NAPP2221026056 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Fighting Okra is located approximately nineteen (19) miles southwest of Jal, NM. This spill site is in Unit C, Section 18, Township 23S, Range 34E, Latitude 32.048234 Longitude -103.509606, Lea 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 Pyote and Maljamar fine sands, 0 to 3 percent slopes 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 Fighting Okra (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 200 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 123 feet BGS. The closest waterway is a Red Bluff Reservoir located approximately 24.64 miles to the southwest 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.

Fighting Okra 18 CTB 4|Devon Energy

Release Information

NAPP2221026056: On July 28, 2022, Equipment failure caused a fluid release. The released fluids were calculated to be approximately 11.3 barrels (bbls) of produced water. Vacuum truck was able to recover approximately 1 bbls of standing fluid.

Remediation Activities, Site Assessment, and Soil Sampling Results

On September 6, 2022, 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.

9-6-22 Soil Sample Results								
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51'-100')								
DEVON ENERGY - FIGHTING OKRA 18 CTB 4								
9/6/2022		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	3545
	3'	ND	ND	ND	ND	ND	0	1773
	4'	ND	ND	ND	ND	ND	0	1270
	5'	ND	ND	ND	ND	ND	0	75.9
	6'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	ND	ND	0	3545
	3'	ND	ND	ND	ND	ND	0	2482
	4'	ND	ND	ND	ND	ND	0	1220
	5'	ND	ND	ND	ND	ND	0	242
	6'	ND	ND	ND	ND	ND	0	ND
S-3	1'	ND	ND	ND	ND	ND	0	3900
	3'	ND	ND	ND	ND	ND	0	3254
	4'	ND	ND	ND	ND	ND	0	3750
	5'	ND	ND	ND	ND	ND	0	1850
	6'	ND	ND	ND	ND	ND	0	ND
SW 1	0-6"	ND	ND	ND	ND	ND	0	ND
SW 2	0-6"	ND	ND	ND	ND	ND	0	ND
SW 3	0-6"	ND	ND	ND	ND	ND	0	ND
SW 4	0-6"	ND	ND	ND	ND	ND	0	ND
BG 1	0-6"	ND	ND	ND	ND	ND	0	ND
BG 2	0-6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

On January 5, 2023, Devon Construction Department personnel and equipment scraped surface staining. While conducting remediation activities for another incident on this location

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

Closure Request

After careful review, Pima requests that this incident, NAPP2221026056 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

Fighting Okra 18 CTB 4|Devon Energy

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

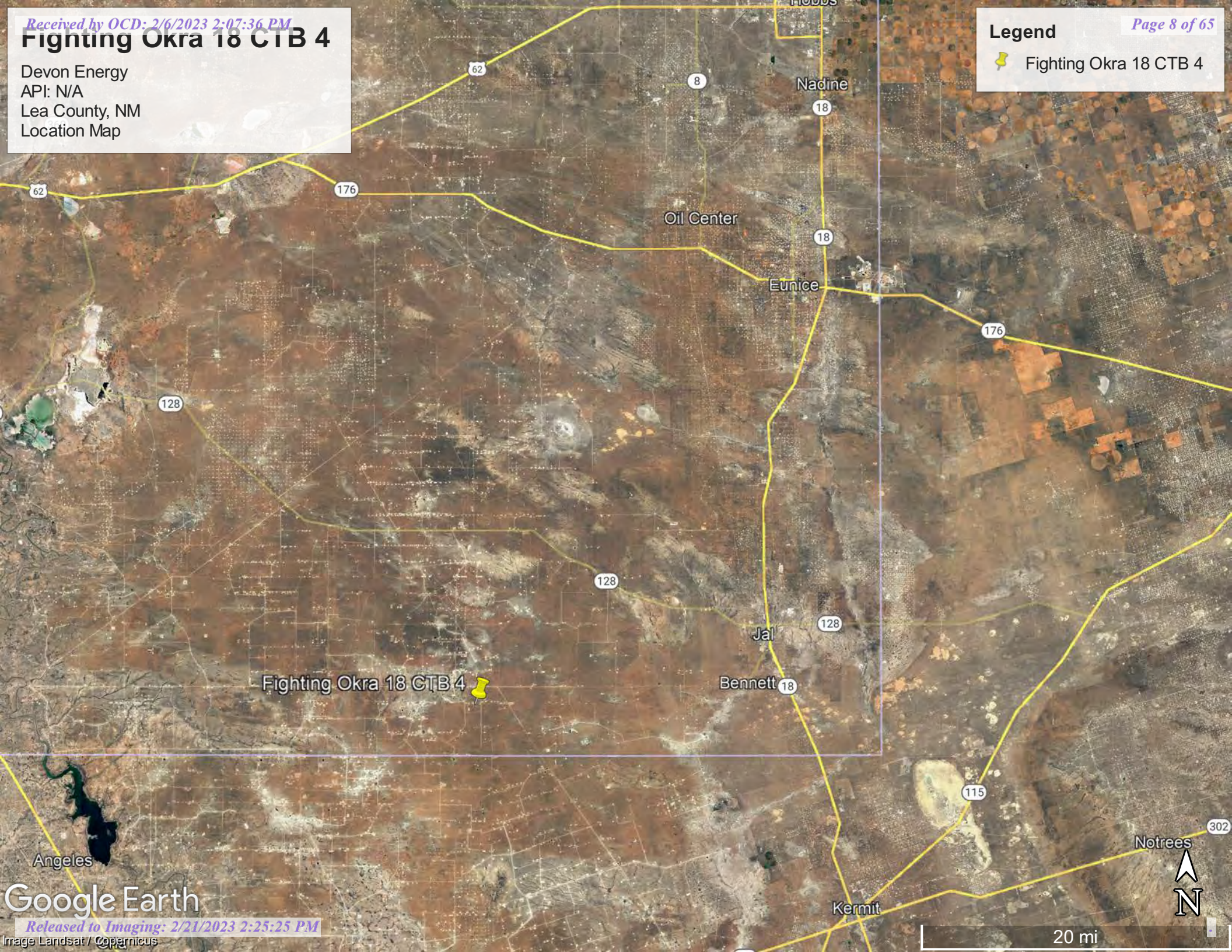
4-Site Map

Fighting Okra 18 CTB 4

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

Legend

 Fighting Okra 18 CTB 4



Google Earth




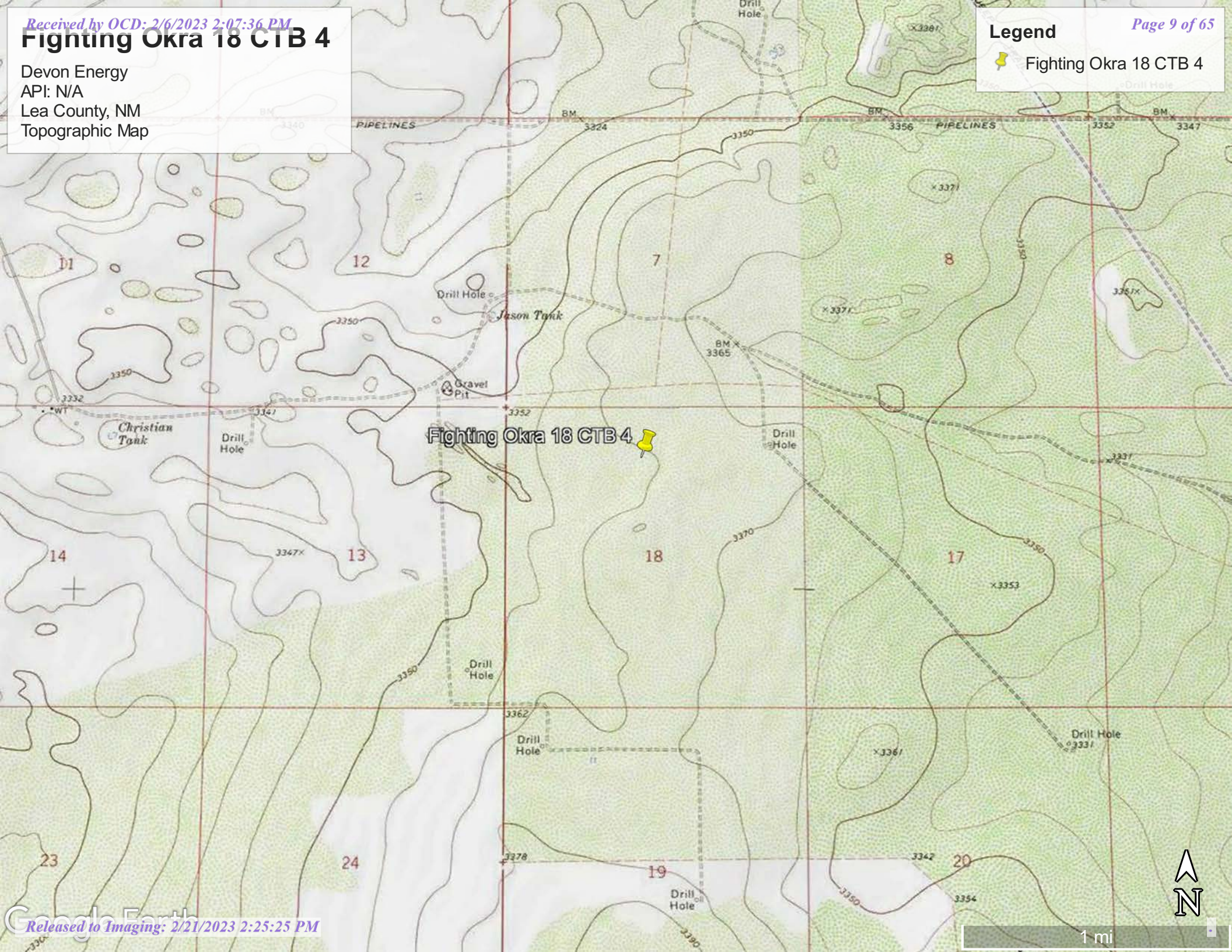
20 mi

Fighting Okra 18 CTB 4

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

Legend





 Fighting Okra 18 CTB 4

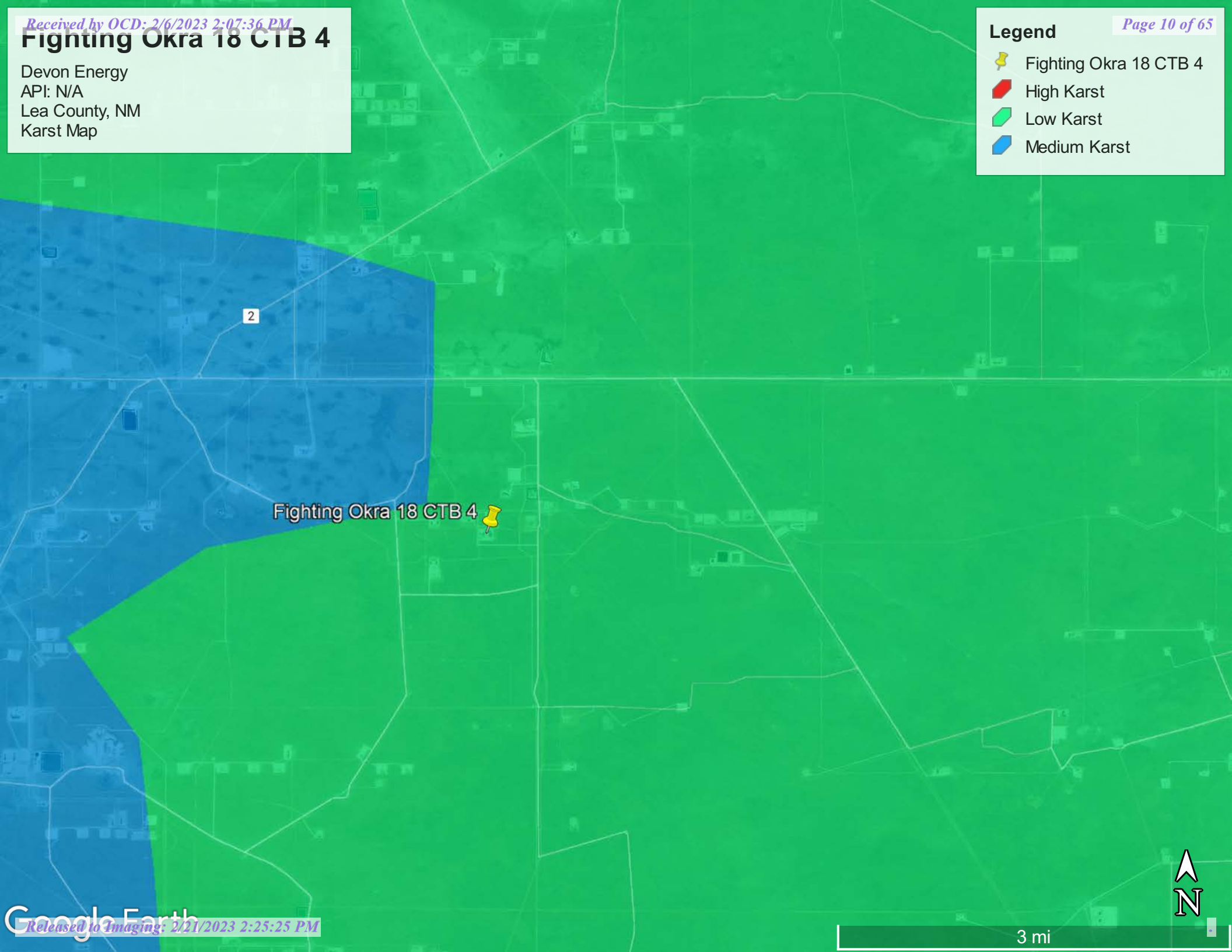



Fighting Okra 18 CTB 4

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

Legend

-  Fighting Okra 18 CTB 4
-  High Karst
-  Low Karst
-  Medium Karst



Fighting Okra 18 CTB 4 



Fighting Okra 18 CTB 4

Devon Energy
API# N/A
Lea County, NM
Site Map

Legend

- Background/Sidewalls
- Fighting Okra 18 CTB 4
- Sample
- Spill Area



Google Earth



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_04626 POD1		CUB	LE	4	2	1	18	26S	34E	640644	3546672	91			
C_02295		CUB	LE	2	2	4	12	26S	33E	639865	3547624	1214	250	200	50
C_02293		CUB	LE	2	2	1	14	26S	33E	637501	3546975	3209	200	135	65
C_02294		CUB	LE	4	4	3	11	26S	33E	637465	3547003	3246	200	145	55
C_02292 POD1		CUB	LE	4	1	2	06	26S	34E	640992	3549987	3256	200	140	60
C_03442 POD1		C	LE	4	1	2	06	26S	34E	641056	3550028	3303	251		
C_03441 POD1		C	LE	4	1	2	06	26S	34E	640971	3550039	3307	250		
C_02291		CUB	LE	1	1	2	06	26S	34E	640825	3550140*	3398	220	160	60
C_04628 POD1		CUB	LE	1	1	2	01	26S	33E	639121	3550219	3818			
C_04583 POD1		CUB	LE	3	3	3	15	26S	34E	644920	3545643	4359	55		
C_02289		CUB	LE	4	4	4	03	26S	33E	636612	3548675*	4522	200	160	40
C_02288		CUB	LE	4	4	4	03	26S	33E	636646	3548758	4528	220	180	40
C_02285 POD1		CUB	LE	1	4	4	03	26S	33E	636613	3548855	4601	220	220	0
C_02290		CUB	LE	4	4	4	03	26S	33E	636538	3548770	4630	200	160	40
C_02286		CUB	LE	3	4	4	03	26S	33E	636470	3548714	4668	220	175	45
C_02287		C	LE	3	4	4	03	26S	33E	636427	3548708	4703	220		

Average Depth to Water: **167 feet**

Minimum Depth: **135 feet**

Maximum Depth: **220 feet**

Record Count: 16

UTMNAD83 Radius Search (in meters):

Easting (X): 640701.51

Northing (Y): 3546743.53

Radius: 5000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.


11/22/22 10:31 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04626 POD1	4	2	1	18	26S	34E	640644	3546672 
x									
Driller License: 1249		Driller Company:				ATKINS ENGINEERING ASSOC. INC.			
Driller Name: JACKIE ATKINS									
Drill Start Date: 06/09/2022		Drill Finish Date:				06/09/2022		Plug Date:	
Log File Date: 06/16/2022		PCW Rcv Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:				Depth Water:			
x									
Casing Perforations:					Top	Bottom			
					0	55			
x									

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

2/2/23 8:44 AM

POINT OF DIVERSION SUMMARY



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

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 321734103290001

Minimum number of levels = 1

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

USGS 321734103290001 23S.34E.16.333312

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°17'53", Longitude 103°28'59" NAD27

Land-surface elevation 3,478.00 feet above NGVD29

The depth of the well is 400 feet below land surface.

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

This well is completed in the Chinle Formation (231CHNL) local aquifer.

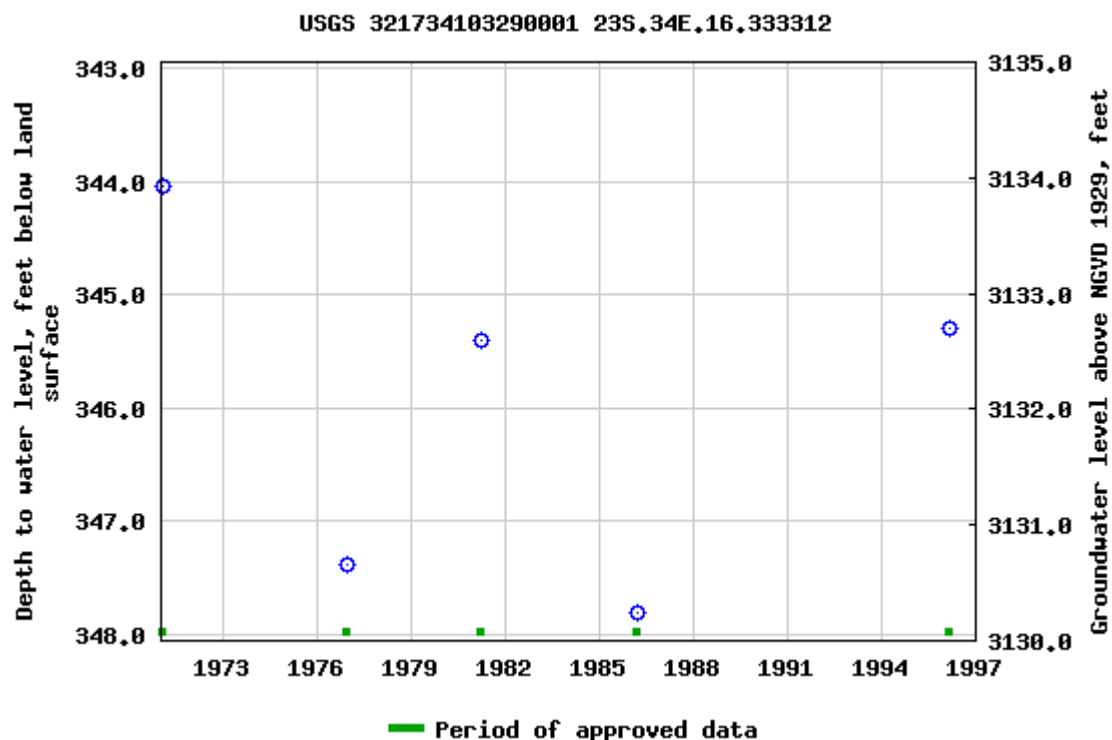
Output formats

[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.

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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: 2022-08-03 14:00:04 EDT



0.59 0.52 nadww02

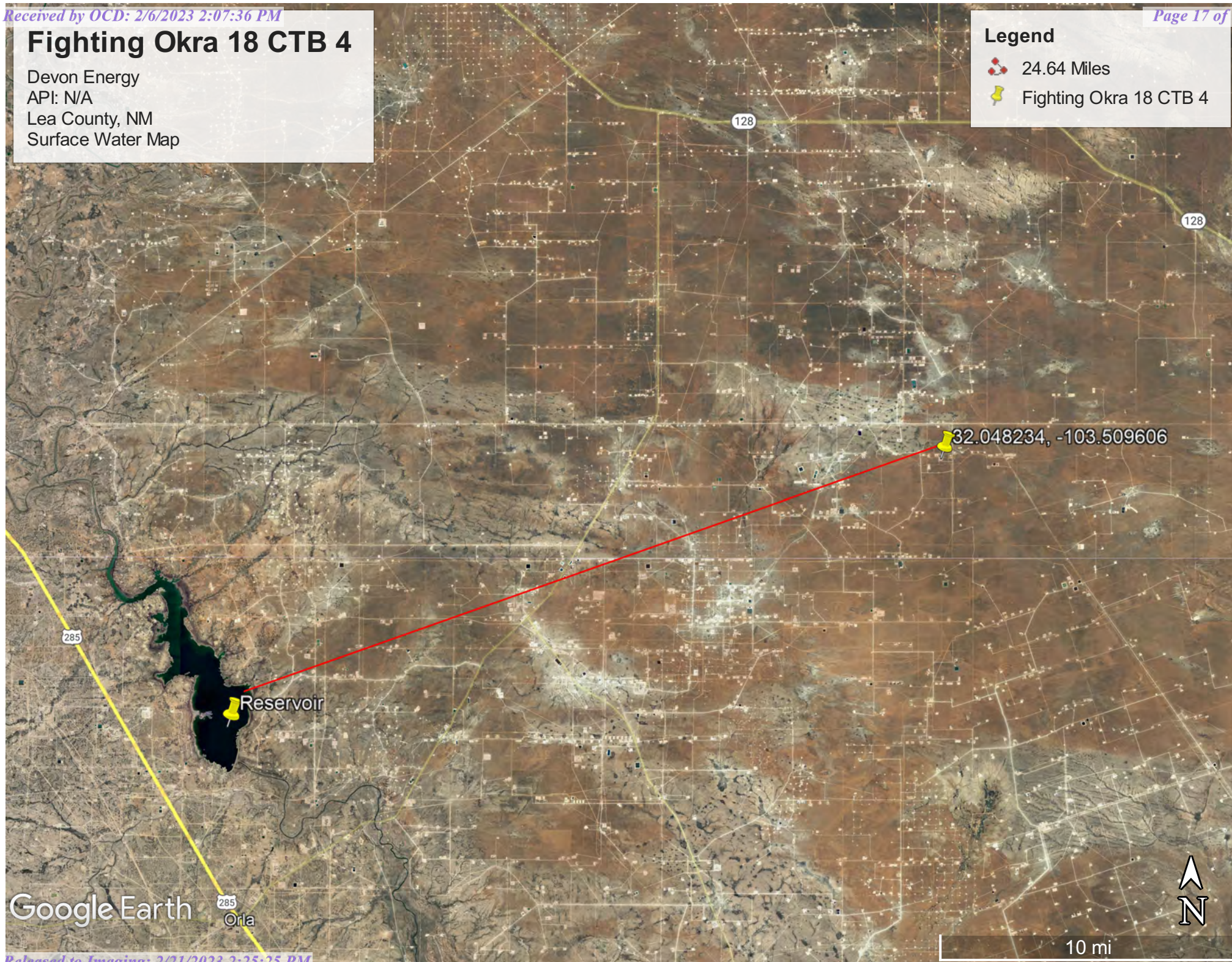


Fighting Okra 18 CTB 4

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

Legend

-  24.64 Miles
-  Fighting Okra 18 CTB 4



Google Earth

285
Orla

10 mi



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Simona fine sandy loam, 0 to 3 percent slopes---Lea County, New Mexico

Lea County, New Mexico

SE—Simona fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmr2

Elevation: 3,000 to 4,200 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 58 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 85 percent

Minor components: 15 percent

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

Description of Simona

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sandy loam

Bk - 8 to 16 inches: gravelly fine sandy loam

Bkm - 16 to 26 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 7 to 20 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very high

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 35 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): 6s

Map Unit Description: Simona fine sandy loam, 0 to 3 percent slopes---Lea County, New Mexico

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: R042XC002NM - Shallow Sandy
Hydric soil rating: No

Minor Components

Kimbrough

Percent of map unit: 8 percent
Ecological site: R077CY037TX - Very Shallow 16-21" PZ
Hydric soil rating: No

Lea

Percent of map unit: 7 percent
Ecological site: R077CY028TX - Limy Upland 16-21" PZ
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 18, Sep 10, 2021

National Flood Hazard Layer FIRMette



103°30'53"W 32°18'48"N



0 250 500 1,000 1,500 2,000 Feet 1:6,000 103°30'16"W 32°18'18"N

Released to Imaging: 2/21/2023 2:25:25 PM

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 Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/3/2022 at 7:50 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



Wetlands Map



February 2, 2023

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Pima Environmental Services

Appendix C

C-141 Form

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	nAPP2221026056
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude 32.048234 Longitude -103.509606
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Fighting Okra 18 CTB 4	Site Type Oil
Date Release Discovered 07/28/2022	API# (if applicable)

Unit Letter	Section	Township	Range	County
C	18	2 S	34E	Lea

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

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 11.3 BBLS	Volume Recovered (bbls) 1 BBLS
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release Equipment failure causing fluid release.

Incident ID	nAPP2221026056
District RP	
Facility ID	
Application ID	

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

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped.	
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Kendra Ruiz</u>	Title: <u>EHS Associate</u>
Signature: <u>Kendra Ruiz</u>	Date: <u>08/11/2022</u>
email: <u>Kendra.Ruiz@dvn.com</u>	Telephone: <u>575-748-0167</u>
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>08/11/2022</u>

NAPP2221026056

Spill Volume(Bbls) Calculator	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>589.894</u>	<u>1.000</u>
Cubic Feet of Soil Impacted	<u>49.158</u>
Barrels of Soil Impacted	<u>8.76</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>1.31</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	<u>1.31</u>
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>589.894</u>	<u>0.750</u>
Standing fluid	<u>6.572</u>
Total fluids spilled	7.886

Spill Volume(Bbls) Calculator	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>357.89</u>	<u>1.000</u>
Cubic Feet of Soil Impacted	<u>29.824</u>
Barrels of Soil Impacted	<u>5.32</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>0.80</u>
Saturation	Fluid present with shovel/backhoe
Estimated Barrels of Oil Released	<u>0.80</u>
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>357.89</u>	<u>0.500</u>
Standing fluid	<u>2.658</u>
Total fluids spilled	3.456

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 133110

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 133110
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	8/11/2022

Incident ID	nAPP2221026056
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51'-100'</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2221026056
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: EHS ProfessionalSignature: Dale Woodall Date: 2/6/2023email: dale.woodall@dn.com Telephone: 405-318-4697**OCD Only**

Received by: _____ Date: _____

Incident ID	nAPP2221026056
District RP	
Facility ID	
Application ID	

Closure

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Dale Woodall Title: EHS Professional
Signature: Dale Woodall Date: 2/6/2023
email: dale.woodall@dvn.com Telephone: 405-318-4697

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: Jennifer Nobui Date: 02/21/2023
Printed Name: Jennifer Nobui Title: Environmental Specialist A



Pima Environmental Services

Appendix D

Photographic Documentation



**SITE PHOTOGRAPHS
DEVON ENERGY
FIGHTING OKRA 18 CTB 4**

Site Assessment





Post scrape





Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Fighting Okra 18 CTB4 -
nAPP221026056

Work Order: E209027

Job Number: 01058-0007

Received: 9/8/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
9/13/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 9/13/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Workorder: E209027
Date Received: 9/8/2022 10:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/8/2022 10:30:00AM, under the Project Name: Fighting Okra 18 CTB4 - nAPP221026056.

The analytical test results summarized in this report with the Project Name: Fighting Okra 18 CTB4 - nAPP221026056 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

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
ljjarboe@envirotech-inc.com

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Fighting Okra 18 CTB4 - nAPP221026056	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/13/22 12:39

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S.1 4'	E209027-01A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
S.1 5'	E209027-02A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
S.1 6'	E209027-03A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
S.2 4'	E209027-04A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
S.2 5'	E209027-05A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
S.2 6'	E209027-06A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
S.3 4'	E209027-07A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
S.3 5'	E209027-08A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
S.3 6'	E209027-09A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
SW1	E209027-10A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
SW2	E209027-11A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
SW3	E209027-12A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
SW4	E209027-13A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
BG1	E209027-14A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.
BG2	E209027-15A	Soil	09/06/22	09/08/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

S.1 4'
E209027-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	100 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	100 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.5 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	100 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	1270	20.0	1	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

S.1 5'

E209027-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	90.9 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	102 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	75.9	20.0	1	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

S.1 6'

E209027-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.6 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	90.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.6 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	90.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	105 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	ND	20.0	1	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

S.2 4'

E209027-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	09/08/22	09/09/22	
Surrogate: Toluene-d8		106 %	70-130	09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130	09/08/22	09/09/22	
Surrogate: Toluene-d8		106 %	70-130	09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane		103 %	50-200	09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	1220	20.0	1	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

S.2 5'

E209027-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	99.6 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	99.6 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	97.4 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	98.0 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	242	20.0	1	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

S.2 6'

E209027-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.5 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	102 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.5 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.9 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	102 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	103 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	ND	20.0	1	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

S.3 4'

E209027-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.3 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.3 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	92.4 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	98.0 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	3750	40.0	2	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

S.3 5'

E209027-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.1 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	100 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	1850	40.0	2	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

S.3 6'

E209027-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	99.1 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	99.1 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	102 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	ND	20.0	1	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

SW1

E209027-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.8 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	98.8 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	96.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	98.0 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	ND	20.0	1	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

SW2

E209027-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	90.3 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	105 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	ND	20.0	1	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

SW3

E209027-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	94.0 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	94.0 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	106 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/09/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/09/22	
Surrogate: n-Nonane	100 %	50-200		09/08/22	09/09/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	ND	20.0	1	09/12/22	09/12/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

SW4

E209027-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/09/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/09/22	
Toluene	ND	0.0250	1	09/08/22	09/09/22	
o-Xylene	ND	0.0250	1	09/08/22	09/09/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/09/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/09/22	
Surrogate: Bromofluorobenzene	97.7 %	70-130		09/08/22	09/09/22	
Surrogate: 1,2-Dichloroethane-d4	91.2 %	70-130		09/08/22	09/09/22	
Surrogate: Toluene-d8	105 %	70-130		09/08/22	09/09/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/10/22	
Surrogate: n-Nonane	105 %	50-200		09/08/22	09/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	ND	20.0	1	09/12/22	09/13/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

BG1

E209027-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/10/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/10/22	
Toluene	ND	0.0250	1	09/08/22	09/10/22	
o-Xylene	ND	0.0250	1	09/08/22	09/10/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/10/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/10/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		09/08/22	09/10/22	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/08/22	09/10/22	
Surrogate: Toluene-d8	107 %	70-130		09/08/22	09/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/10/22	
Surrogate: Bromofluorobenzene	99.0 %	70-130		09/08/22	09/10/22	
Surrogate: 1,2-Dichloroethane-d4	94.4 %	70-130		09/08/22	09/10/22	
Surrogate: Toluene-d8	107 %	70-130		09/08/22	09/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/10/22	
Surrogate: n-Nonane	101 %	50-200		09/08/22	09/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	ND	20.0	1	09/12/22	09/13/22	



Sample Data

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

Project Name: Fighting Okra 18 CTB4 - nAPP221026056
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
9/13/2022 12:39:28PM

BG2

E209027-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Benzene	ND	0.0250	1	09/08/22	09/10/22	
Ethylbenzene	ND	0.0250	1	09/08/22	09/10/22	
Toluene	ND	0.0250	1	09/08/22	09/10/22	
o-Xylene	ND	0.0250	1	09/08/22	09/10/22	
p,m-Xylene	ND	0.0500	1	09/08/22	09/10/22	
Total Xylenes	ND	0.0250	1	09/08/22	09/10/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/08/22	09/10/22	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	09/08/22	09/10/22	
Surrogate: Toluene-d8		108 %	70-130	09/08/22	09/10/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2237048
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/08/22	09/10/22	
Surrogate: Bromofluorobenzene		101 %	70-130	09/08/22	09/10/22	
Surrogate: 1,2-Dichloroethane-d4		95.5 %	70-130	09/08/22	09/10/22	
Surrogate: Toluene-d8		108 %	70-130	09/08/22	09/10/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2237045
Diesel Range Organics (C10-C28)	ND	25.0	1	09/08/22	09/10/22	
Oil Range Organics (C28-C36)	ND	50.0	1	09/08/22	09/10/22	
Surrogate: n-Nonane		105 %	50-200	09/08/22	09/10/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2238018
Chloride	ND	20.0	1	09/12/22	09/13/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Fighting Okra 18 CTB4 - nAPP221026056	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 12:39:28PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2237048-BLK1)

Prepared: 09/08/22 Analyzed: 09/09/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

LCS (2237048-BS1)

Prepared: 09/08/22 Analyzed: 09/09/22

Benzene	2.16	0.0250	2.50		86.3	70-130			
Ethylbenzene	2.33	0.0250	2.50		93.4	70-130			
Toluene	2.26	0.0250	2.50		90.3	70-130			
o-Xylene	2.16	0.0250	2.50		86.6	70-130			
p,m-Xylene	4.31	0.0500	5.00		86.2	70-130			
Total Xylenes	6.47	0.0250	7.50		86.3	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

LCS Dup (2237048-BSD1)

Prepared: 09/08/22 Analyzed: 09/09/22

Benzene	2.14	0.0250	2.50		85.7	70-130	0.767	23	
Ethylbenzene	2.28	0.0250	2.50		91.1	70-130	2.52	27	
Toluene	2.20	0.0250	2.50		87.9	70-130	2.72	24	
o-Xylene	2.11	0.0250	2.50		84.5	70-130	2.43	27	
p,m-Xylene	4.22	0.0500	5.00		84.3	70-130	2.17	27	
Total Xylenes	6.33	0.0250	7.50		84.4	70-130	2.26	27	
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Fighting Okra 18 CTB4 - nAPP221026056	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 12:39:28PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2237048-BLK1)

Prepared: 09/08/22 Analyzed: 09/09/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.541		0.500		108	70-130			

LCS (2237048-BS2)

Prepared: 09/08/22 Analyzed: 09/09/22

Gasoline Range Organics (C6-C10)	54.1	20.0	50.0		108	70-130			
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.4	70-130			
Surrogate: Toluene-d8	0.535		0.500		107	70-130			

LCS Dup (2237048-BSD2)

Prepared: 09/08/22 Analyzed: 09/09/22

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0		107	70-130	1.55	20	
Surrogate: Bromofluorobenzene	0.497		0.500		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.6	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Fighting Okra 18 CTB4 - nAPP221026056	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 12:39:28PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2237045-BLK1) Prepared: 09/08/22 Analyzed: 09/09/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.9		50.0		95.8	50-200			

LCS (2237045-BS1) Prepared: 09/08/22 Analyzed: 09/09/22

Diesel Range Organics (C10-C28)	249	25.0	250		99.7	38-132			
Surrogate: n-Nonane	47.3		50.0		94.5	50-200			

Matrix Spike (2237045-MS1) Source: E209027-07 Prepared: 09/08/22 Analyzed: 09/09/22

Diesel Range Organics (C10-C28)	269	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	47.4		50.0		94.7	50-200			

Matrix Spike Dup (2237045-MSD1) Source: E209027-07 Prepared: 09/08/22 Analyzed: 09/09/22

Diesel Range Organics (C10-C28)	272	25.0	250	ND	109	38-132	1.26	20	
Surrogate: n-Nonane	48.1		50.0		96.2	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Fighting Okra 18 CTB4 - nAPP221026056	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	9/13/2022 12:39:28PM

Anions by EPA 300.0/9056A

Analyst: KL

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

Blank (2238018-BLK1)					Prepared: 09/12/22 Analyzed: 09/12/22				
Chloride	ND	20.0							
LCS (2238018-BS1)					Prepared: 09/12/22 Analyzed: 09/12/22				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2238018-MS1)					Source: E209024-01		Prepared: 09/12/22 Analyzed: 09/12/22		
Chloride	2760	20.0	250	2570	76.6	80-120			M2
Matrix Spike Dup (2238018-MSD1)					Source: E209024-01		Prepared: 09/12/22 Analyzed: 09/12/22		
Chloride	2690	20.0	250	2570	50.2	80-120	2.42	20	M2

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:	Fighting Okra 18 CTB4 - nAPP221026056	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	09/13/22 12:39

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- 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: <u>Pima Environmental Services</u>					Bill To					Lab Use Only					TAT				EPA Program					
Project: <u>Fighting Dkrea 1BCTB 4/844</u>					Attention: <u>Devon Energy</u>					Lab WO# <u>E209027</u>					Job Number <u>01058-0051</u>				1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Tom Bynum</u>					Address:																			
Address: <u>5614 N. Lovington Hwy.</u>					City, State, Zip																			
City, State, Zip <u>Hobbs, NM. 88240</u>					Phone:																			
Phone: <u>580-748-1613</u>					Email:																			
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>186</u>																			
Report due by:																								

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	Remarks
8:00	9/6/22	S	1	S.1 4'	1									
8:05				S.1 5'	2									
8:10				S.1 6'	3									
8:15				S.2 4'	4									
8:20				S.2 5'	5									
8:25				S.2 6'	6									
8:30				S.3 4'	7									
8:35				S.3 5'	8									
8:40				S.3 6'	9									
8:45				SW 1	10									

Additional Instructions: Billing # 21057228

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.

Relinquished by: (Signature) Alfonso Hernandez Date 9/6/22 Time 2:15

Received by: (Signature) Alfonso Hernandez Date 9-7-22 Time 2:15

Relinquished by: (Signature) Alfonso Hernandez Date 9-7-22 Time 4:5

Received by: (Signature) Alfonso Hernandez Date 9/8/22 Time 10:30

Relinquished by: (Signature) _____ Date _____ Time _____

Received by: (Signature) _____ Date _____ Time _____

Lab Use Only

Received on ice: (Y) N

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 Analytical Laboratory

Printed: 9/8/2022 12:00:40PM

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:	09/08/22 10:30	Work Order ID:	E209027
Phone:	(575) 631-6977	Date Logged In:	09/08/22 11:24	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	09/14/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Project Information

Chain of Custody

Page 1 of 2

Fighting Okra 18 CTB4-NAPP22102L0D5L6

9/9/22 CC

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program	
Project: <u>Fighting Okra 18 CTB4</u>					Attention: <u>Devon Energy</u>		Lab WO# <u>E209027</u>		Job Number <u>01058-007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: <u>Tom Bynum</u>					Address:		Analysis and Method								RCRA	
Address: <u>5614 N. Lovington Hwy.</u>					City, State, Zip											
City, State, Zip <u>Hobbs, NM, 88240</u>					Phone:											
Phone: <u>580-748-1613</u>					Email:											
Email: <u>tom@pimaoil.com</u>					Pima Project # <u>186</u>											
Report due by:																
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		
8:00	9/6/22	S	1	S.1 4'	1							X				
8:05				S.1 5'	2											
8:10				S.1 6'	3											
8:15				S.2 4'	4											
8:20				S.2 5'	5											
8:25				S.2 6'	6											
8:30				S.3 4'	7											
8:35				S.3 5'	8											
8:40				S.3 6'	9											
8:45				SW 1	10											
Additional Instructions: <u>Billing # 2105722B</u> <u>Client requested Project name change</u>																
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																
Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.																
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only								
<u>Alfonso Benavides</u>		<u>9/7/22</u>	<u>2:15</u>	<u>Alfonso Benavides</u>		<u>9-7-22</u>	<u>2:15</u>	Received on ice: <u>Y</u> N								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time									
<u>Alfonso Benavides</u>		<u>9-7-22</u>	<u>4:5</u>	<u>Alfonso Benavides</u>		<u>9/8/22</u>	<u>10:30</u>									
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time									
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.																



Chain of Custody

Page 2 of 2

CC

Client requested Project name Change.

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 183172

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 183172
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	2/21/2023