

Secondary Containment Calculation				
Secondary Containment				
Length (feet)	70			
Width (feet)	20			
Height (inches)	12			
Total Capacity without tank displacements (ft³)	1400			
Total Capacity without tank displacements (bbls)	249			
No. of 210 bbl tanks (10' O.D.) in dike		No. of 210 tanks (10' O.D.) displacing fluid in dike	0	
No. of 300 or 400 bbl tanks (12' O.D.) in dike		No. of 300 or 400 bbl tanks (12' O.D.) displacing fluid in dike	0	
No. of Gun Barrel or other vessel in dike		No. of gun barrels displacing fluid in dike	6	
Largest tank, gun barrel or vessel in dike (bbls)		O.D. of Gun Barrel or other vessel (feet)	16	
Required Secondary Containment Capacity (%)	0%			
210 bbl Tanks (10 ft O.D.)		Required Capacity for Secondary Containment in bbls 0		
Total 210 bbl tank fluid displacement (bbl.)	0	Total Containment Capacity (bbls) 181		
300 bbl or 400 bbl Tanks (12 ft O.D.)				
Total 300 or 400 bbl tank fluid displacement (bbl.)	0			
Gun Barrels				
Total Gun Barrel Fluid Displacement (bbls)	68.3931	180.96		
<p>Note: 40 CFR 112.9C(2) requires secondary containment for the entire capacity of the largest single container and sufficient freeboard to contain precipitation. Therefore, subtract the volume of the largest tank from the secondary containment capacity. The rule of thumb is 110% of the largest tank volume or the largest tank volume plus a 24 hour / 25 year rain event is sufficient freeboard. You should discuss the volume that your P.E. is comfortable with and adjust the percentage accordingly.</p>				
<p>Instructions for spreadsheet: Enter the data in the spreadsheet. Be sure to use correct units (feet, inches etc.) It is assumed that the largest single tank has a hole in the bottom and all tanks but the tank with the hole in it displaces fluid and reduces the dike capacity. Consequently the number of tanks displacing fluid for the largest size of tank in the dike will be the total number of this size tank minus 1.</p>				
<p>FACILITY SPECIFIC INFO FACILITY SKETCH SECONDARY CONTAINMENT CALC PICTURES MAP P.E.</p>				



PREPARED BY SAPEC-ECO, LLC.
PREPARED FOR DEVON ENERGY PRODUCTION, LP.

Remediation Closure Report

Nathalie Abela

COTTON DRAW 32 STATE SWD #002

nOY1803741279 -- Devon Energy

August 26, 2024

August 26, 2024

Attn: NMOCD District 1
1625 N French Dr.
Hobbs, NM 88240

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

Re: Remediation Closure Report
NMOCD Incident Number: **nOY1803741279**
Cotton Draw 32 State SWD #002 API No. 30-025-41524
Unit P, Section 32, Township 24S, Range 32E 1180 FSL 1000 FEL Lea County, NM
GPS Coordinates: Latitude 32.1699175 Longitude -103.6913616

Sapec-Eco, LLC. (Sapec) was contracted by Devon Energy Production Company, LP (Devon) on August 14, 2024, to conduct a detailed assessment of this historical incident, review previous files and submissions, then compile data into this remediation closure report for a produced water release that occurred at the Cotton Draw 32 State SWD #002 (Cotton). This incident was assigned Incident ID nOY1803741279 by the New Mexico Oil Conservation Division (NMOCD).

Release Information - nOY1803741279

The initial Form C-141 was submitted on February 1, 2018 (Appendix A) and stated that on January 21, 2018, suction pressure caused build up which triggered the PSV to release water into the H-pump containment. The facility was shut down and locked out and a vacuum truck was dispatched to remove fluids. Approximately 519 barrels (bbls) produced water was released. A vacuum truck was dispatched and recovered approximately 512 bbls of produced water (510 bbls from the concrete lined H pump containment, 1 from the facility pad surface, and 1 from the adjacent pasture). An environmental contractor will be contacted to assist with delineation and remediation efforts. This initial Form C-141 was approved by the NMOCD on February 6, 2018.

Site Characterization

The Cotton is located in Lea County, NM, approximately twenty-two (22) miles southeast of Malaga, NM. The release area is located in Unit P, Section 32, Township 24S, Range 32E, 32.169736 degrees latitude and -103.691780 degrees longitude. A Location Map is included for reference in Figure 4.

The New Mexico Bureau of Geology and Mineral Resources shows the geology in the Cotton area is comprised of Eolian and piedmont deposits: 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. A Geologic Unit Map can be found in Appendix C.

There are two different soil types that are equally present at the Cotton. The first is found on the north half of the pad area and is Pyote loamy fine sand. The slopes for this type are 0 to 3 percent and the drainage class is well drained. The second is found on the south half of the pad area and is Maljamar and Palomas fine sands, 0 to 3 percent slopes. The drainage class for this soil type is also well drained. Soil type information is according to the United States Department of Agriculture Natural Resources Conservation Service soil survey. The Soil Surveys for each type and a Soil Map can be referenced in Appendix C. Reference Figure 3 for a Topographic Map.

The Cotton resides in a low karst zone and is approximately 6 miles away from the nearest medium karst zone. Figure 2 refers to the Karst Map.

According to a Water Column/Average Depth to Water search within the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is greater than 55 feet below grade surface (bgs). This information is recorded by C-04858-POD1 which is situated approximately 0.35 miles southwest of this release area and was drilled on August 8, 2024. The United States Geological Survey (USGS) offers the site USGS 321005103402301 24S.32E.33.42241 which shows depth to the nearest

groundwater is 290 feet bgs. The latest gauge of this site was conducted in 2013, and it is located approximately 1.15 miles to the east of this release area. The nearest surface water body is the Pecos River and is located approximately 16.2 miles to the west of the release area. The U.S. Fish and Wildlife Service National Wetlands Inventory shows the nearest wetland to be a Freshwater Emergent Wetland approximately 1.64 miles to the north of this area. According to Fema's National Flood Hazard Layer search, the Cotton is situated in Zone D – Area of Undetermined Flood Hazard. See Appendix B for referenced Water Surveys and Water-Related Maps.

Initial Assessment and Delineation

On January 25, 2023, an initial assessment was performed by Pima Environmental Services to find full vertical and horizontal delineation of the release area. An area on the west side of the concrete H-Pump containment was affected by fluid spraying out of the containment, measured to be approximately 1,826 square feet, and assessed for contamination. Twenty-four samples were collected from 8 different sample points within the release area for vertical delineation. These samples were collected from depths of 1', 3', and 5' bgs. Ten samples were collected from 10 different sample points around the edges of the release area for horizontal delineation. These samples were collected from a depth of 3' bgs. Background samples were collected from 2 different sample points in the pasture west of the pad area. These samples were collected from a depth of 1' bgs. All samples were analyzed for all constituents listed in Table 1 19.15.29.12 NMAC by Envirotech Analytical Laboratories. The official laboratory results of this sampling event can be found in the following data table. A corresponding Site Map can be found in Figure 1.

January 25, 2023 – Soil Sample Results

NMOCD Closure Criteria per Table 1 19.15.29.12 NMAC - Depth to Groundwater is 50-100'								
DEVON ENERGY - COTTON DRAW 32 State SWD #002 - nOY1803741279								
Date: 1/25/2023		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	CI mg/kg
S1-1'	1'	ND	ND	ND	ND	ND	0	838
S1-3'	3'	ND	ND	ND	ND	ND	0	651
S1-5'	5'	ND	ND	ND	ND	ND	0	ND
S2-1'	1'	ND	ND	ND	ND	ND	0	309
S2-3'	3'	ND	ND	ND	ND	ND	0	428
S2-5'	5'	ND	ND	ND	ND	ND	0	ND
S3-1'	1'	ND	ND	ND	ND	ND	0	327
S3-3'	3'	ND	ND	ND	ND	ND	0	133
S3-5'	5'	ND	ND	ND	ND	ND	0	ND
S4-1'	1'	ND	ND	ND	ND	ND	0	400
S4-3'	3'	ND	ND	ND	ND	ND	0	811
S4-5'	5'	ND	ND	ND	ND	ND	0	ND
S5-1'	1'	ND	ND	ND	ND	ND	0	680
S5-3'	3'	ND	ND	ND	ND	ND	0	485
S5-5'	5'	ND	ND	ND	ND	ND	0	ND
S6-1'	1'	ND	ND	ND	ND	ND	0	691
S6-3'	3'	ND	ND	ND	ND	ND	0	1030
S6-5'	5'	ND	ND	ND	ND	ND	0	ND
S7-1'	1'	ND	ND	ND	ND	ND	0	601
S7-3'	3'	ND	ND	ND	ND	ND	0	903
S7-5'	5'	ND	ND	ND	ND	ND	0	ND
S8-1'	1'	ND	ND	ND	ND	ND	0	1290
S8-3'	3'	ND	ND	ND	ND	ND	0	ND
S8-5'	5'	ND	ND	ND	ND	ND	0	394
SW 1	3'	ND	ND	ND	ND	ND	0	ND
SW 2	3'	ND	ND	ND	ND	ND	0	ND

SW 3	3'	ND	ND	ND	ND	ND	0	ND
SW 4	3'	ND	ND	ND	ND	ND	0	ND
SW 5	3'	ND	ND	ND	ND	ND	0	ND
SW 6	3'	ND	ND	ND	ND	ND	0	ND
SW 7	3'	ND	ND	ND	ND	ND	0	ND
SW 8	3'	ND	ND	ND	ND	ND	0	ND
SW 9	3'	ND	ND	ND	ND	ND	0	ND
SW 10	3'	ND	ND	ND	ND	ND	0	ND
BG 1	1'	ND	ND	ND	ND	ND	0	ND
BG 2	1'	ND	ND	ND	ND	ND	0	ND

Complete Laboratory Reports can be found in Appendix E.

Remediation Activities

On August 8, 2024, Devon contracted H&R Enterprises, LLC. (H&R), an approved, licensed New Mexico well driller, to install a borehole on the Chincoteague 32 State Com #3H pad approximately 0.35 miles to the southwest of this release area. This borehole was drilled to 55' bgs and was left open for approximately 120 hours protected by a PVC casing.

On August 14, 2024, H&R returned to the site to gauge the borehole for the presence of water. No water was encountered during the gauging process. The casing was then removed, and the well was plugged in accordance with the approved plugging plan of operations. The depth to ground water for the area within a ½-mile of this site is now classified as 51-100' as per Table 1 19.15.29.12 NMAC.

Based on this new information, the sample results from the previous delineation event are under the regulatory limits of the 51-100' depth to ground water section of Table 1 19.15.29.12 NMAC. No further action is required currently. Devon understands and acknowledges that reclamation of this pad area once it is no longer needed for production or subsequent drilling operations will require an approved reclamation plan addressing a minimum of four feet of non-waste containing earthen material.

Liner Inspection

On August 23, 2024, after Devon submitted a 48-hour notification for a liner inspection (Appendix A), Sapec personnel mobilized to the site to inspect the concrete-lined H-pump secondary containment. This secondary containment measures approximately 51' x 75' and has an approximate 8" curb wall surrounding the perimeter. The capacity for this containment at a perfectly level state is approximately 606 bbls. After a thorough inspection, it was found that this containment has the integrity to hold the volume of released fluids associated with this release. It was also concluded that the only effect to the surrounding areas was from the fluids that sprayed out of the containment area. Photographic Documentation and the Liner Inspection Field Report can be referenced in Appendix D.

Closure Request

Based on the above information, Devon requests that this historical incident, nOY1803741279, be closed. All rules and regulations set forth in 19.15.29.12 NMAC have been complied with.

For questions or additional information, please reach out to:

Dale Woodall with Devon Energy, at 575-748-1838 or email him at Dale.Woodall@devon.com.

Simon Abela with Sapec-Eco, at 641-821-9018 or email him at s.abela@sapec-eco.com.

Attachments

Figures:

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

Appendices:

- Appendix A – Initial Form C-141 & 48-Hour Notification
- Appendix B – Water Surveys & Water-Related Maps
- Appendix C – Soil Survey, Soil Map, & Geologic Unit Map
- Appendix D – Liner Inspection Field Report & Photographic Documentation
- Appendix E – Laboratory Reports

Figures:

Site Map

Karst Map

Topographic Map

Location Map

Cotton Draw 32 State SWD #2

Devon Energy
API #30-025-41524
Lea County, NM
nOY1803741279
Site Map

Legend

- Background samples
- Concrete H-Pump containment - 3,829 sqft
- Horizontal delineation samples
- Release area - 1,826 sqft
- Vertical delineation samples






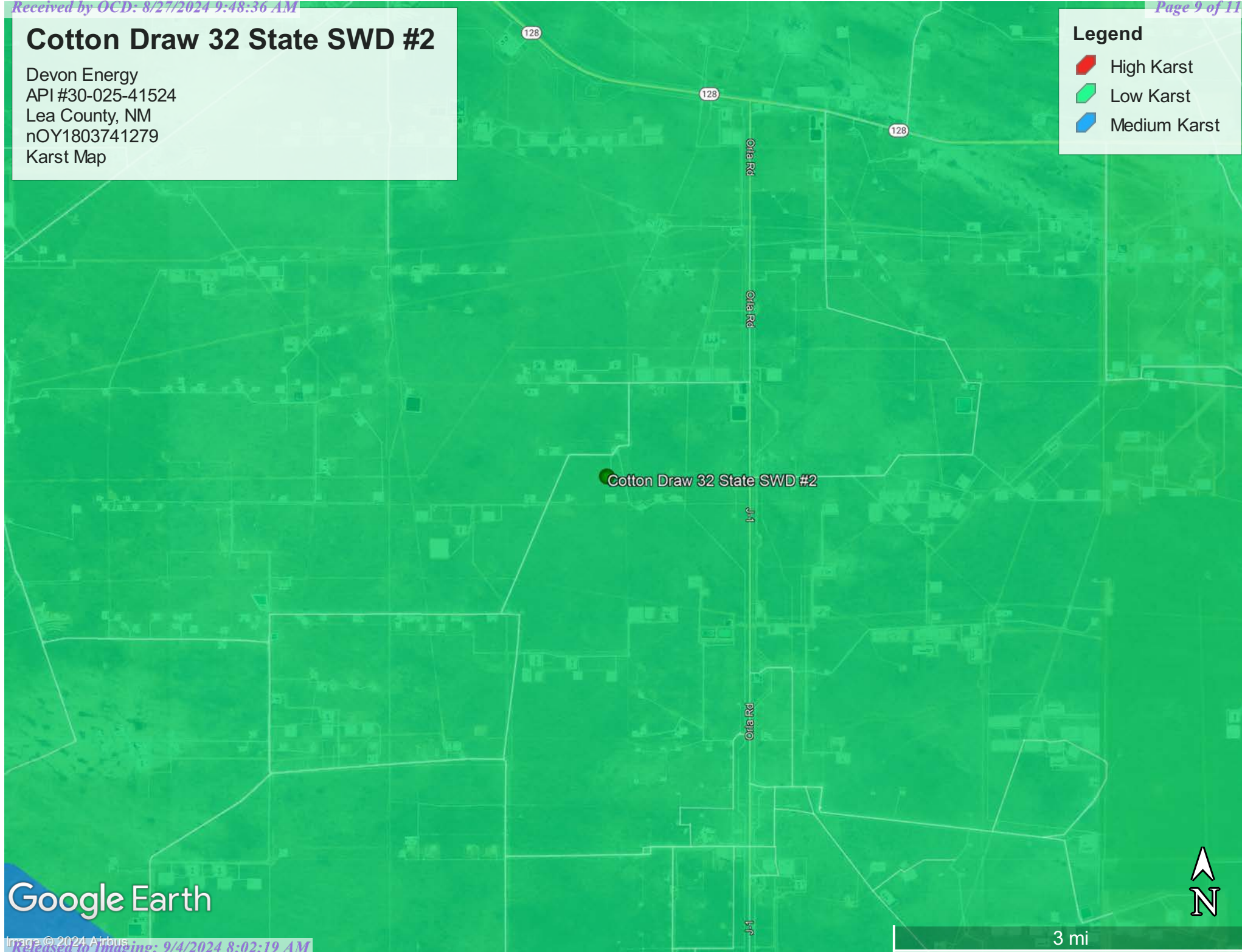
Google Earth

Cotton Draw 32 State SWD #2

Devon Energy
API #30-025-41524
Lea County, NM
nOY1803741279
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst



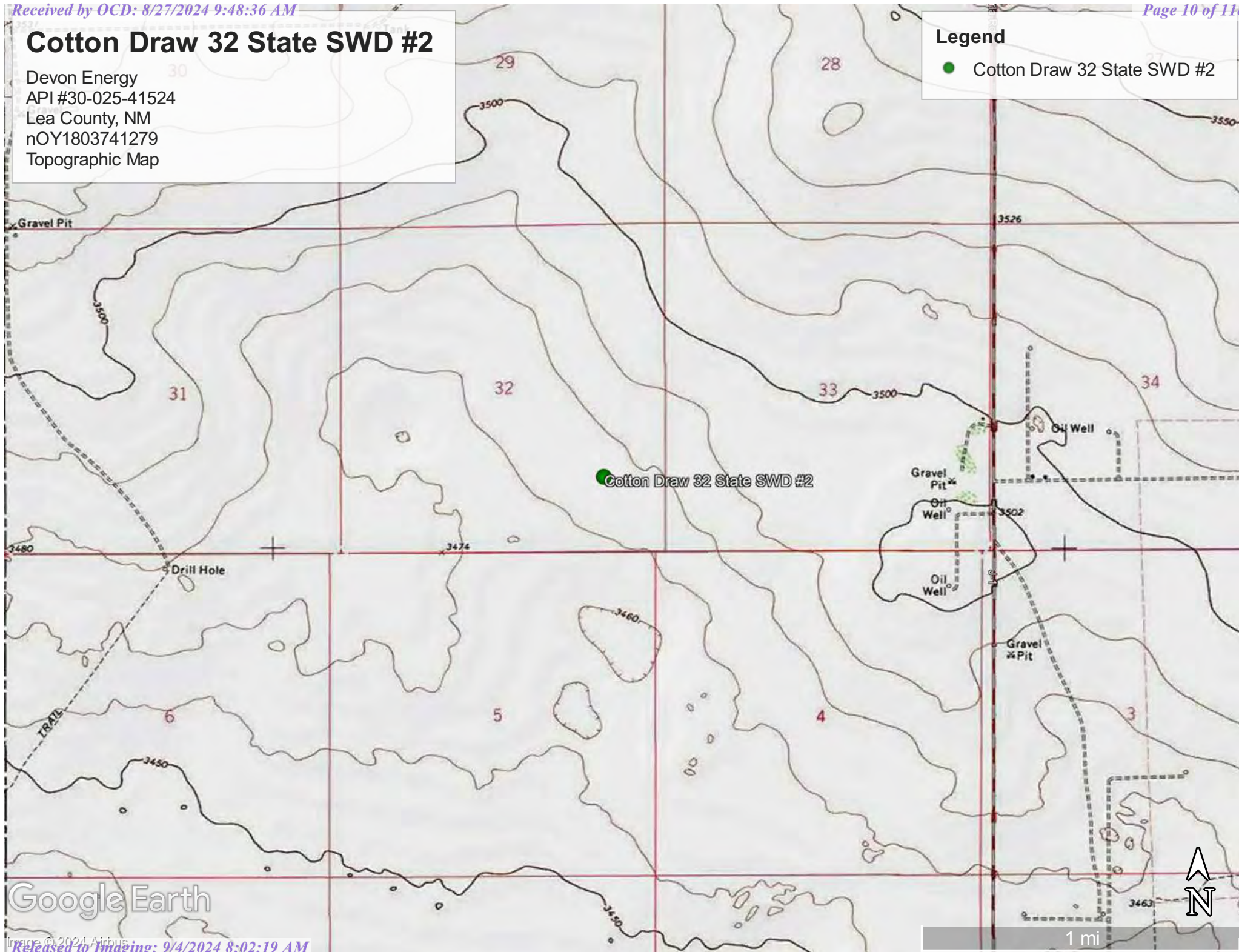
Google Earth

Cotton Draw 32 State SWD #2

Devon Energy
API #30-025-41524
Lea County, NM
nOY1803741279
Topographic Map

Legend

- Cotton Draw 32 State SWD #2



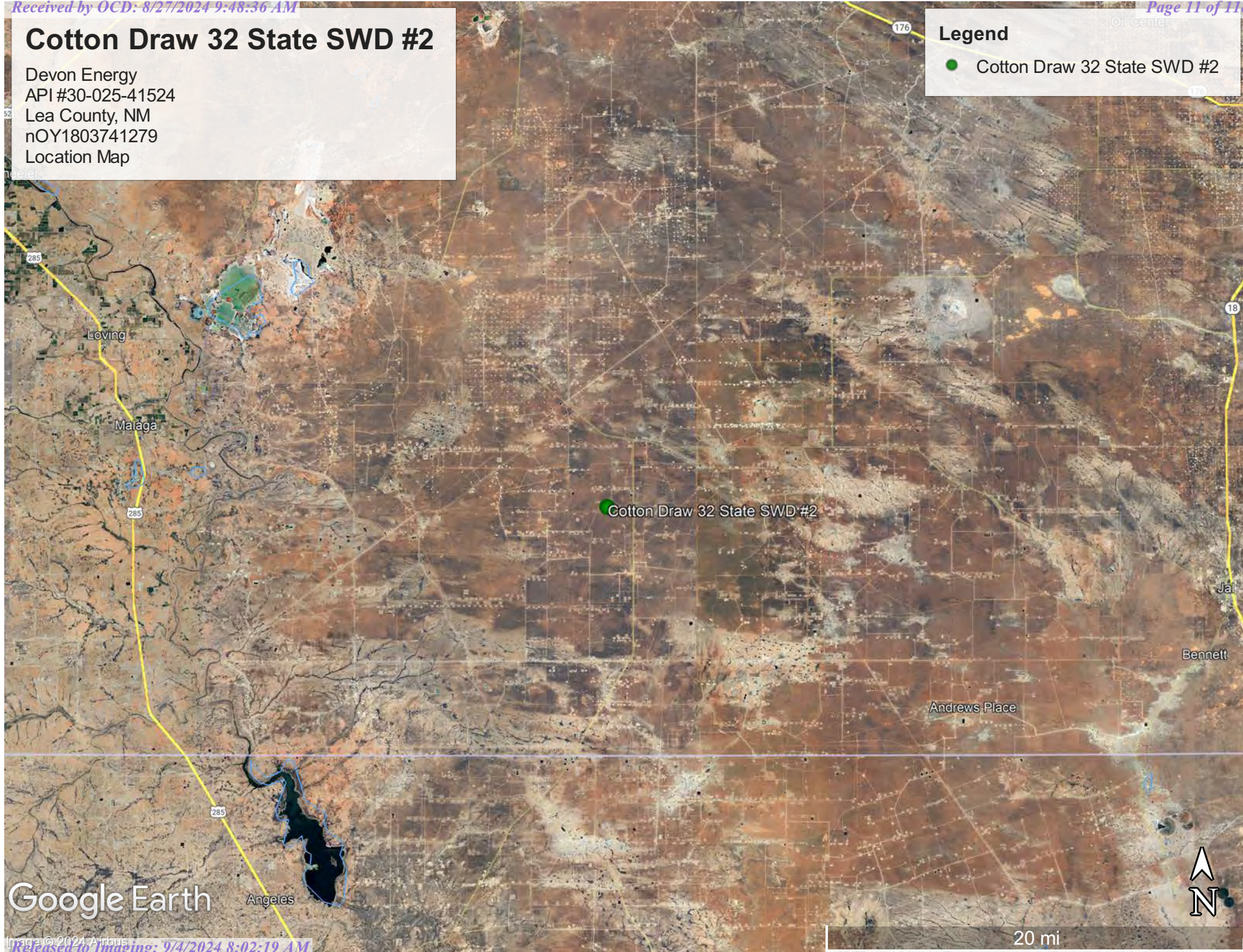
Google Earth

Cotton Draw 32 State SWD #2

Devon Energy
API #30-025-41524
Lea County, NM
nOY1803741279
Location Map

Legend

- Cotton Draw 32 State SWD #2



Google Earth

Appendix A

Initial Form C-141

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

Form C-141
Revised April 3, 2017

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company	Contact Kelly Miller, Construction Assistant Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-748-9935
Facility Name Cotton Draw 32 State SWD 002	Facility Type Salt Water Disposal
Surface Owner Federal	Mineral Owner State
API No. 30-025-41524	

LOCATION OF RELEASE

Unit Letter P	Section 32	Township 24S	Range 32E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
------------------	---------------	-----------------	--------------	---------------	------------------	---------------	----------------	---------------

Latitude_32.169736 N_ Longitude_103.691780 W_ NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 519bbls	Volume Recovered 512bbls
Source of Release PSV valve released into H-pump containment	Date and Hour of Occurrence January 21, 2018 @ 7:30 AM MST	Date and Hour of Discovery January 21, 2018 @ 7:30 AM MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Olivia Yu, OCD Tammy Honea, SLO Shelly Tucker, BLM	
By Whom? Mike Shoemaker, EHS Representative	Date and Hour January 22, 2018 @ 7:29 AM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

RECEIVED

By Olivia Yu at 11:21 am, Feb 06, 2018


If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
Suction pressure caused build up which triggered the PSV to release water into the H-pump containment. The facility was shut down and locked out and a vacuum truck was dispatched to remove fluids.

Describe Area Affected and Cleanup Action Taken.*
Approximately 519bbls produced water was released. A vacuum truck was dispatched and recovered approximately 512 bbls of produced water (510 bbls from the concrete lined H pump containment, 1 from the facility pad surface, and 1 from the adjacent pasture). An environmental contractor will be contacted to assist with delineation and remediation efforts.

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

OIL CONSERVATION DIVISION

Signature: <i>Tamala Robison</i>	Approved by Environmental Specialist: 	
Printed Name: Tamala Robison	Approval Date: 2/6/2018	Expiration Date:
Title: Field Admin Support	Conditions of Approval: see attached directive	Attached <input checked="" type="checkbox"/>
E-mail Address: Tamala.Robison@dmv.com		
Date: 2/1/2018 Phone: 575.748.0174		

* Attach Additional Sheets If Necessary

1RP-4954

nOY1803741279

pOY1803741547

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/2/2018 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 1RP-4954 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 1 office in Hobbs on or before 3/6/2018. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Cotton Draw 32 State SWD 2**519bbls produced water**

This map is for illustrative purposes only and is neither a legally recorded map nor survey and is not intended to be used as one. Devon makes no warranty, representation, or guarantee of any kind regarding this map.

WGS_1984_Web_Mercator_Auxiliary_Sphere

Prepared by: Tamala Robison

Map is current as of: 02-Feb-2018



Miles

0 0.01 0.02 0.04 1:1,779

T24S - R32E - 32
SWSE**519bbls produced water****T24S R32E Sec 32**

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

QUESTIONS

Action 376294

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 376294
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	nOY1803741279
Incident Name	NOY1803741279 COTTON DRAW 32 STATE SWD #002 @ 30-025-41524
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-41524] COTTON DRAW 32 STATE SWD #002

Location of Release Source	
Site Name	COTTON DRAW 32 STATE SWD #002
Date Release Discovered	01/21/2018
Surface Owner	Federal

Liner Inspection Event Information	
Please answer all the questions in this group.	
What is the liner inspection surface area in square feet	3,829
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	08/23/2024
Time liner inspection will commence	04:30 PM
Please provide any information necessary for observers to liner inspection	Simon Abela (641) 821-9018
Please provide any information necessary for navigation to liner inspection site	From the intersection of NM128 and Orla Road (C-1), travel south on Orla Rd for 2.35 miles, turn west on lease road for 1 mile, turn south on lease road for 0.52 miles, curve west for 460 feet, curve southwest for 630 feet, curve south for 590 feet, cross cattle guard into location.

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 376294

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 376294
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	8/21/2024

Appendix B

Water Surveys

Water-Related Maps



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 smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 04536 POD1		C	LE	NW	NE	NE	33	24S	32E	625019.4	3561244.5		2042	500	314	186
C 04722 POD2		CUB	LE	NE	NW	NW	06	25S	32E	620808.2	3559499.5		2628	55		
C 04795 POD1		CUB	LE	SE	SE	NW	08	25S	32E	622864.7	3557423.8		2647			
C 04620 POD1		CUB	LE	SE	SW	SE	06	25S	32E	621445.0	3558018.4		2787	55		

Average Depth to Water: 314 feet

Minimum Depth: 314 feet

Maximum Depth: 314 feet

Record Count: 4

Basin/County Search:

County: LE

UTM Filters (in meters):

Easting: 623384.94

Northing: 3560019.74

Radius: 03000

* 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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) Pod-1		WELL TAG ID NO.		OSE FILE NO(S) C-4858		
	WELL OWNER NAME(S) Devon Energy Production				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 6488 Seven Rivers Hwy.				CITY Artesia	STATE NM	
					ZIP 88210		
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 10	SECONDS 03.28	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE -103	41	50.02	W	* DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SE SE SW S-32 T-24S R-32E							
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1862		NAME OF LICENSED DRILLER James Hawley		NAME OF WELL DRILLING COMPANY H&R Enterprises, LLC.		
	DRILLING STARTED 8/8/24	DRILLING ENDED 8/8/24	DEPTH OF COMPLETED WELL (FT) 55	BORE HOLE DEPTH (FT) 55	DEPTH WATER FIRST ENCOUNTERED (FT) Dry Hole		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 8/14/24	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:				CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
				No Casing left in hole			
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				N/A			

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FOR OSE INTERNAL USE

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

L. HYDROGEOLOGIC LOG OF WELL

TEST, DIC SUPERVISION

POINT-A-TIME

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	POD NO.	TRN NO.	
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2	



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: C-4858 Pod-1
 Well owner: Devon Energy Production Phone No.: _____
 Mailing address: 6488 Seven Rivers Hwy
 City: Artesia State: NM Zip code: 88210

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: H&R Enterprises, LLC.
- 2) New Mexico Well Driller License No.: WD-1862 Expiration Date: 6/25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
James Hawley
- 4) Date well plugging began: 8/14/24 Date well plugging concluded: 8/14/24
- 5) GPS Well Location: Latitude: 32 deg, 10 min, 03.28 sec
 Longitude: -103 deg, 41 min, 50.02 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
 by the following manner: well sounder
- 7) Static water level measured at initiation of plugging: Dry ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 7/1/24
- 9) Were all plugging activities consistent with an approved plugging plan? no If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

GPS on plugging plan did not match the GPS on the permit, something got mixed up, also the theoretical volume on the plugging plan was for 2 inch casing, not the actual 6 inch borehole that was plugged, the correct volumes are listed on the log.

- For each interval plugged, describe within the following columns:**

MULTIPLY		BY	AND OBTAIN	
cubic feet	x	7 4805	=	gallons
cubic yards	x	201 97	=	gallons

I, James Hawley, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Signature of Well Driller

Date _____

OSE POD Location Map



8/21/2024, 8:30:25 AM

GIS WATERS PODs

 Pending

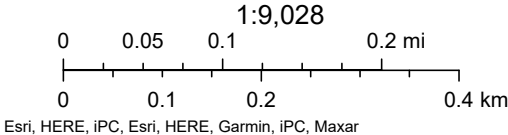
 OSE District Boundary  Artesian Planning Area

Water Right Regulations

 Closure Area

New Mexico State Trust Lands

 Subsurface Estate





[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.

Groundwater levels for the Nation



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

Search Results -- 1 sites found

site_no list =

- 321005103402301

Minimum number of levels = 1

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

USGS 321005103402301 24S.32E.33.42241

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°10'21.6", Longitude 103°40'18.9" NAD83

Land-surface elevation 3,499.00 feet above NGVD29

The depth of the well is 367 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.

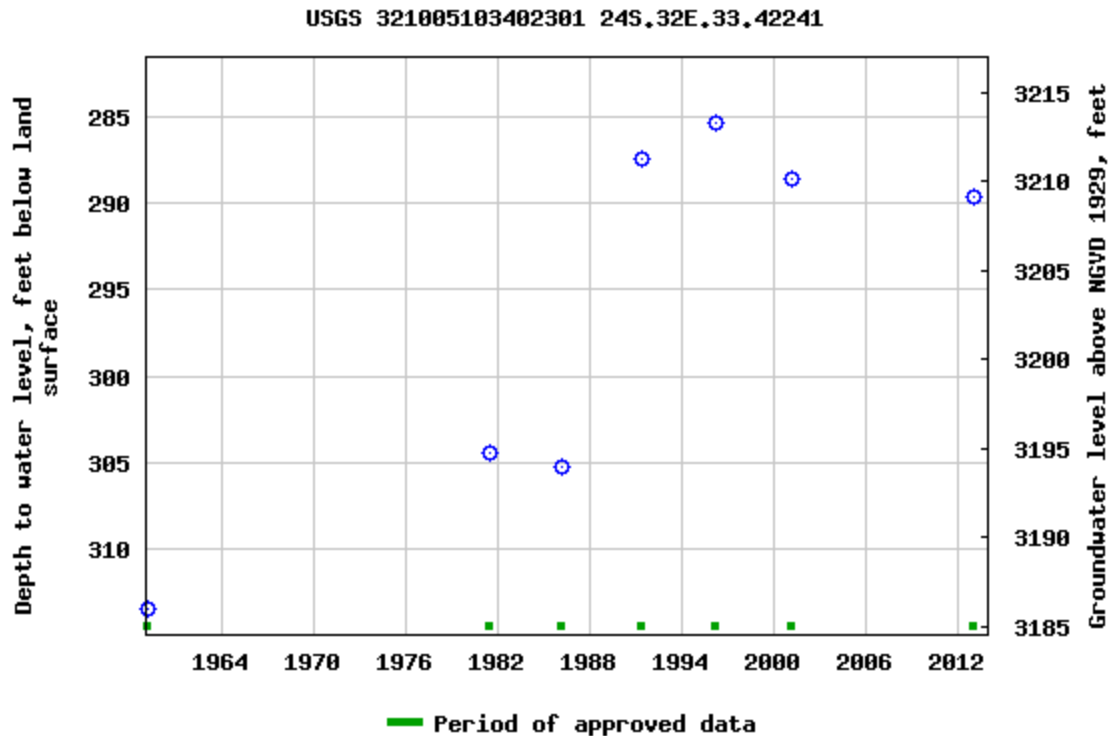
Output formats

[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.
[Download a presentation-quality graph](#)

- [Questions or Comments](#)
- [Help](#)
- [Data Tips](#)
- [Explanation of terms](#)
- [Subscribe for system changes](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2024-08-21 09:36:20 EDT
0.73 0.53 nadww02





National Water Information System: Mapper



Cotton Draw 32 State SWD #2

Devon Energy
API #30-025-41524
Lea County, NM
nOY1803741279
Surface Water Map

Legend

-  16.2 Miles
-  Pecos River

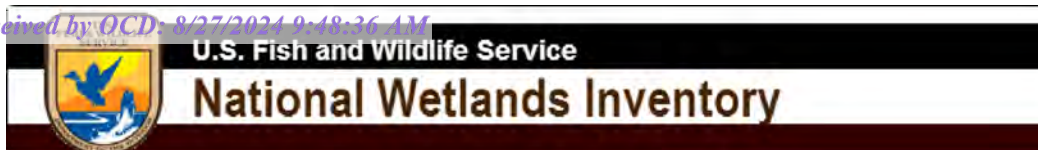
Pecos River

Cotton Draw 32 State SWD #2

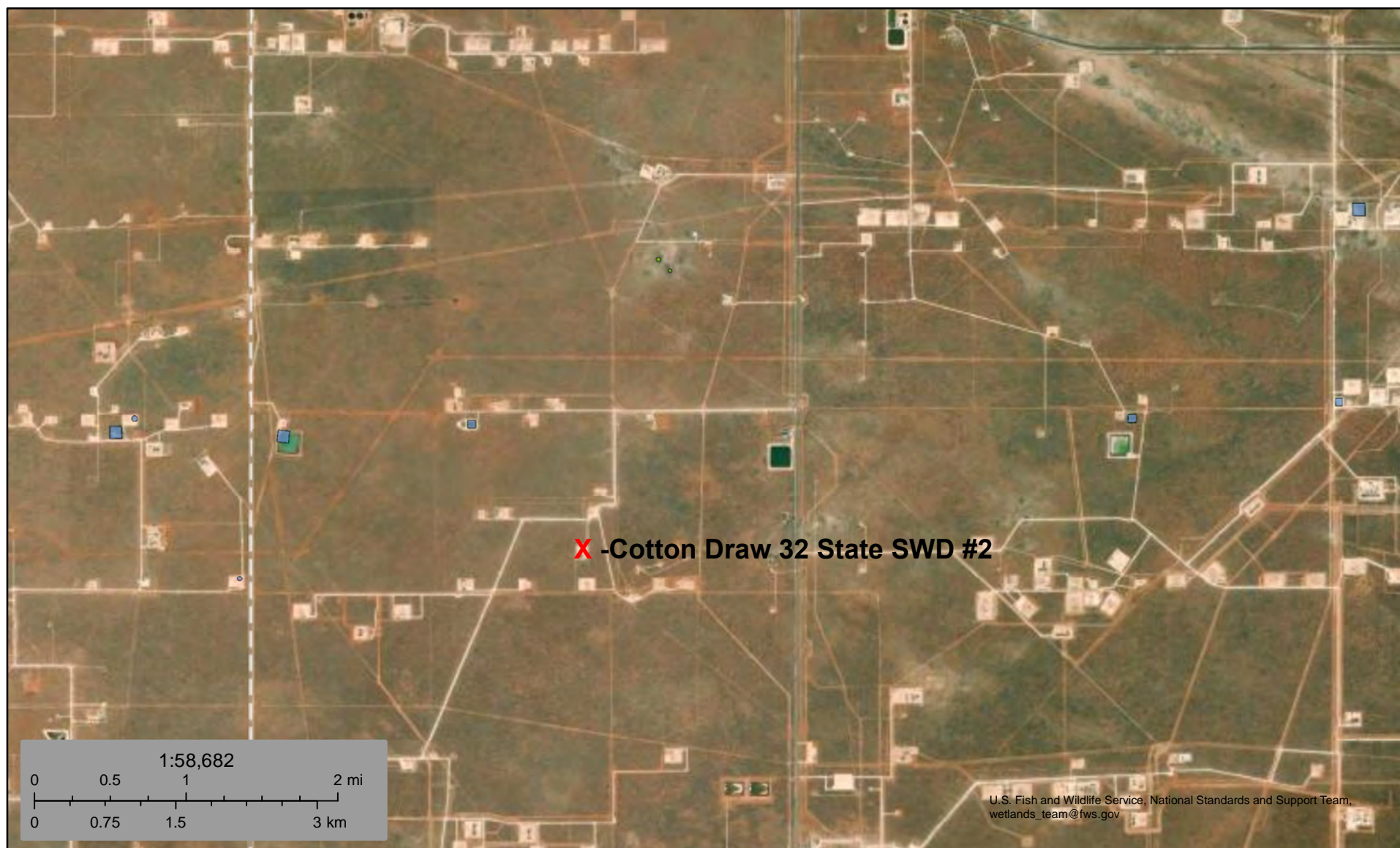
Google Earth

8 mi





Wetlands Map



August 24, 2024

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.

National Flood Hazard Layer FIRMMette



103°41'48"W 32°10'26"N



1:6,000

103°41'10"W 32°9'56"N

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
		NO SCREEN Area of Minimal Flood Hazard Zone X
OTHER AREAS		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 8/21/2024 at 9:39 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.

Appendix C

Soil Survey

Soil Map

Geologic Unit Map

Map Unit Description: Maljamar and Palomas fine sands, 0 to 3 percent slopes---Lea County,
New Mexico

Lea County, New Mexico

MF—Maljamar and Palomas fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: dmqb

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Maljamar and similar soils: 46 percent

Palomas and similar soils: 44 percent

Minor components: 10 percent

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

Description of Maljamar

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary
rock

Typical profile

A - 0 to 24 inches: fine sand

Bt - 24 to 50 inches: sandy clay loam

Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 40 to 60 inches to petrocalcic

Drainage class: Well drained

Runoff class: Very low

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: 5 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: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 7e

Map Unit Description: Maljamar and Palomas fine sands, 0 to 3 percent slopes---Lea County,
New Mexico

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

Description of Palomas

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand
Bt - 16 to 60 inches: sandy clay loam
Bk - 60 to 66 inches: sandy loam

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: 45 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: Moderate (about 7.5
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

Minor Components

Kermit

Percent of map unit: 5 percent
Ecological site: R070BC022NM - Sandhills
Hydric soil rating: No

Wink

Percent of map unit: 5 percent
Ecological site: R070BD003NM - Loamy Sand

Map Unit Description: Maljamar and Palomas fine sands, 0 to 3 percent slopes---Lea County,
New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023

Map Unit Description: Pyote loamy fine sand---Lea County, New Mexico

Lea County, New Mexico

PT—Pyote loamy fine sand

Map Unit Setting

National map unit symbol: dmqp

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 200 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Pyote and similar soils: 85 percent

Minor components: 15 percent

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

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 25 inches: loamy fine sand

Bt - 25 to 60 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: Negligible

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: 5 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: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 7s

Map Unit Description: Pyote loamy fine sand---Lea County, New Mexico

Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Maljamar

Percent of map unit: 8 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Palomas

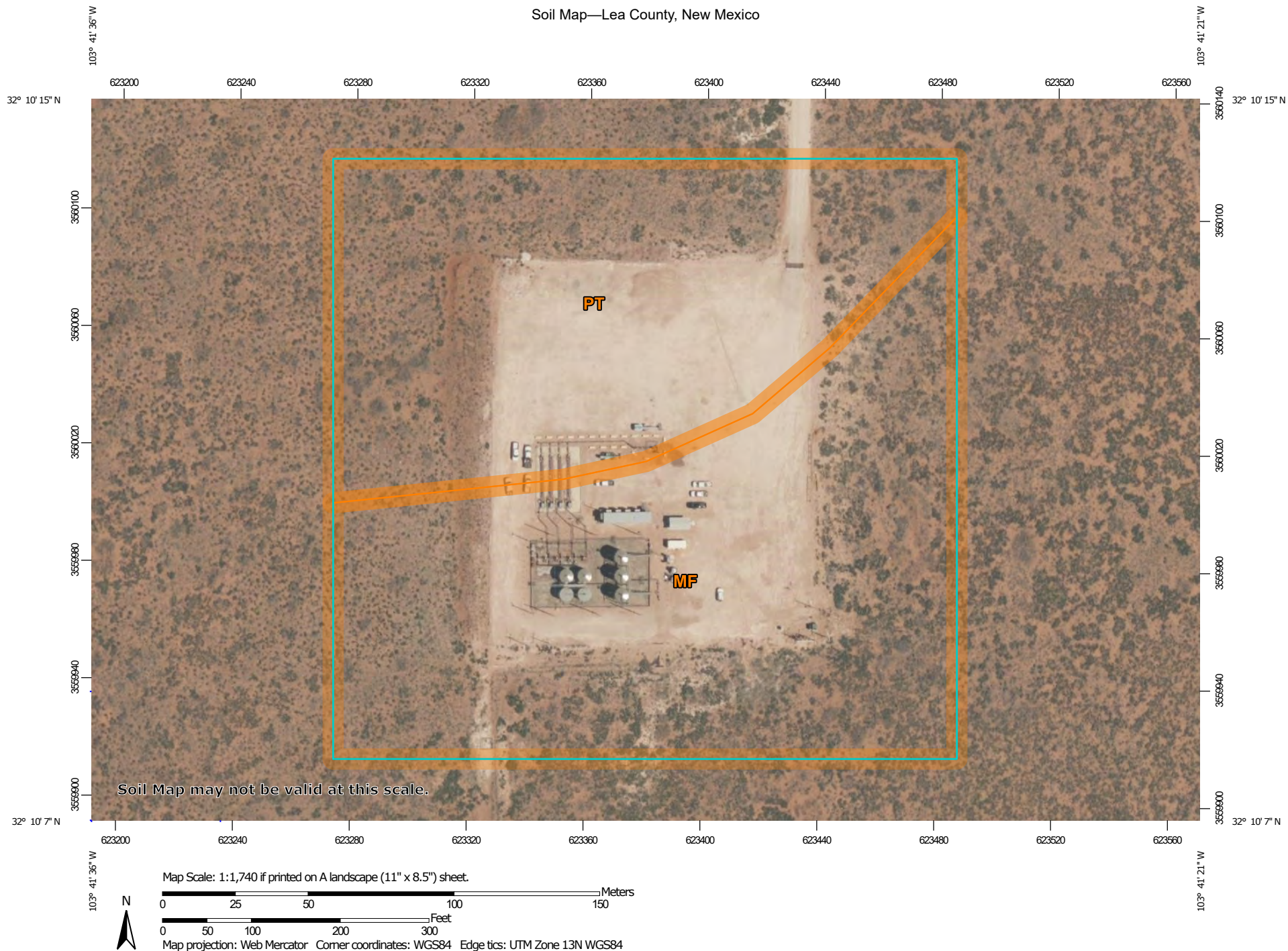
Percent of map unit: 7 percent
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 20, Sep 6, 2023



Soil Map—Lea County, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

8/21/2024
Page 1 of 3

Soil Map—Lea County, New Mexico

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 20, Sep 6, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.



Map Unit Legend

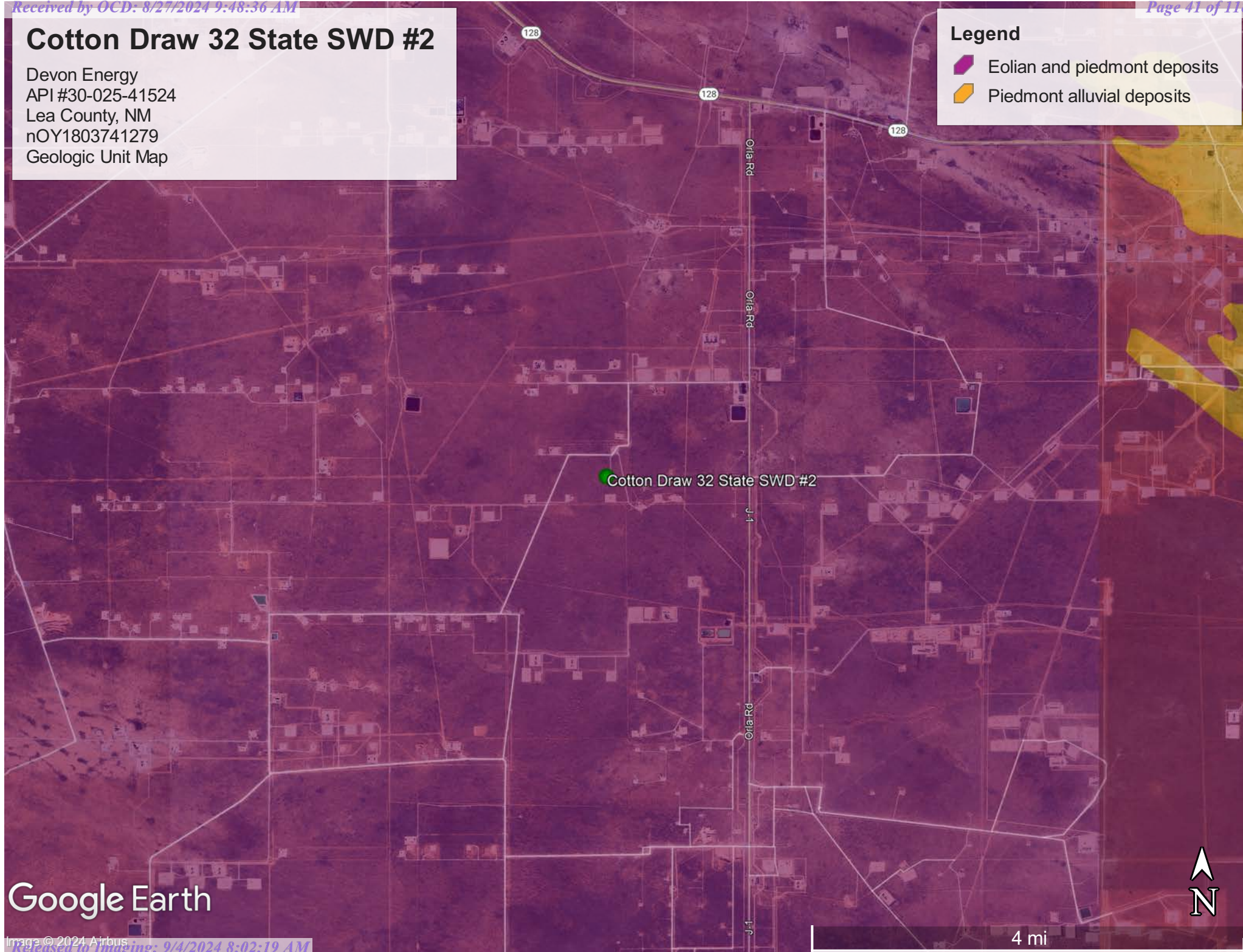
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
MF	Maljamar and Palomas fine sands, 0 to 3 percent slopes	6.1	56.0%
PT	Pyote loamy fine sand	4.8	44.0%
Totals for Area of Interest		10.8	100.0%

Cotton Draw 32 State SWD #2

Devon Energy
API #30-025-41524
Lea County, NM
nOY1803741279
Geologic Unit Map

Legend

-  Eolian and piedmont deposits
-  Piedmont alluvial deposits



Google Earth

Appendix D

Liner Inspection Field Report

Photographic Documentation



Liner Inspection Field Report

Date & Time of Inspection: Friday, August 23, 2024 16:36

Date 48-Hour Notification Submitted/Accepted: Wednesday, August 21, 2024

Location Name & Details: Cotton Draw 32 State SWD #2 (P-32-24S-32E, Lea County, 32.1699175, -103.6913616)

NMOCD Incident ID: nOY1803741279

Operator: Devon Energy Production, LP

Liner Type: Earthen w/liner Earthen no liner Polystar

 Steel w/poly liner Steel w/spray epoxy No Liner

Other: **Concrete with concrete curb perimeter**

Visualization	Yes	No	Comments
Is there a tear in the liner?		X	
Are there holes in the liner?		X	
Is the liner retaining any fluids?		X	Some sand blown in from surroundings
Does the liner have integrity to contain a leak?	X		

Comments: _____

Inspector Name: Simon T Abela

Inspector Signature: 

Pima Assessment January 2023



Lease Sign



North flowline looking west



North flowline looking east to wellhead



West side looking south



West side looking north



East side looking north



East side looking west



Southeast side looking north



East side looking south

Sapec Liner Inspection 2024



Northeast corner looking south



Northeast corner looking west



Southeast corner looking west



Southeast corner looking north



South side looking northwest



Southwest corner looking north



Southwest corner looking east



Northwest corner looking east



Northwest corner looking south



North side looking south



North side looking southeast



Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw 32 St 2 SWD

Work Order: E301136

Job Number: 01058-0007

Received: 1/27/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/1/23

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: 2/1/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Cotton Draw 32 St 2 SWD
Workorder: E301136
Date Received: 1/27/2023 8:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/27/2023 8:30:00AM, under the Project Name: Cotton Draw 32 St 2 SWD.

The analytical test results summarized in this report with the Project Name: Cotton Draw 32 St 2 SWD 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
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labadmin@envirotech-inc.com

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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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
S1 - 1'	6
S1 - 3'	7
S1 - 5'	8
S2 - 1'	9
S2 - 3'	10
S2 - 5'	11
S3 - 1'	12
S3 - 3'	13
S3 - 5'	14
S4 - 1'	15
S4 - 3'	16
S4 - 5'	17
S5 - 1'	18
S5 - 3'	19
S5 - 5'	20
S6 - 1'	21
S6 - 3'	22
S6 - 5'	23
S7 - 1'	24
S7 - 3'	25

Table of Contents (continued)

QC Summary Data	26
QC - Volatile Organic Compounds by EPA 8260B	26
QC - Nonhalogenated Organics by EPA 8015D - GRO	27
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	28
QC - Anions by EPA 300.0/9056A	29
Definitions and Notes	30
Chain of Custody etc.	31

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported: 02/01/23 13:48
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E301136-01A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S1 - 3'	E301136-02A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S1 - 5'	E301136-03A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S2 - 1'	E301136-04A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S2 - 3'	E301136-05A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S2 - 5'	E301136-06A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S3 - 1'	E301136-07A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S3 - 3'	E301136-08A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S3 - 5'	E301136-09A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S4 - 1'	E301136-10A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S4 - 3'	E301136-11A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S4 - 5'	E301136-12A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S5 - 1'	E301136-13A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S5 - 3'	E301136-14A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S5 - 5'	E301136-15A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S6 - 1'	E301136-16A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S6 - 3'	E301136-17A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S6 - 5'	E301136-18A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S7 - 1'	E301136-19A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S7 - 3'	E301136-20A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 32 St 2 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 1:48:02PM
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S1 - 1'

E301136-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/27/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/27/23	
Toluene	ND	0.0250	1	01/27/23	01/27/23	
o-Xylene	ND	0.0250	1	01/27/23	01/27/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/27/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/27/23	
Surrogate: Bromofluorobenzene	96.3 %	70-130		01/27/23	01/27/23	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		01/27/23	01/27/23	
Surrogate: Toluene-d8	101 %	70-130		01/27/23	01/27/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/27/23	
Surrogate: Bromofluorobenzene	96.3 %	70-130		01/27/23	01/27/23	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		01/27/23	01/27/23	
Surrogate: Toluene-d8	101 %	70-130		01/27/23	01/27/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	95.4 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	838	40.0	2	01/27/23	01/27/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S1 - 3'

E301136-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.0 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.7 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.0 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.7 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	100 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	651	20.0	1	01/27/23	01/27/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S1 - 5'

E301136-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	97.8 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	101 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	97.8 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	101 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	105 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	ND	20.0	1	01/27/23	01/27/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S2 - 1'

E301136-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.9 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.9 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	101 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	309	20.0	1	01/27/23	01/27/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S2 - 3'

E301136-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	96.5 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	100 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	96.5 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	100 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	97.7 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	428	20.0	1	01/27/23	01/27/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S2 - 5'

E301136-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	97.1 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	100 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	97.1 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	100 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	102 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S3 - 1'

E301136-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.8 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	100 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.8 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	100 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	102 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	327	20.0	1	01/27/23	01/28/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported: 2/1/2023 1:48:02PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S3 - 3'

E301136-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2304047	
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.8 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2304047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	96.0 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.8 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2304042	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	100 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: BA		Batch: 2304053	
Chloride	133	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S3 - 5'

E301136-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	96.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.9 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	96.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.9 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	111 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S4 - 1'

E301136-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	96.5 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.1 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	96.5 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.1 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	101 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	400	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S4 - 3'

E301136-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.6 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.6 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	105 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	811	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S4 - 5'

E301136-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	100 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.4 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	97.8 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	100 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	106 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S5 - 1'

E301136-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.8 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.9 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.8 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	99.6 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.9 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	103 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	680	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S5 - 3'

E301136-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.2 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.6 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.2 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.7 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.6 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	102 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	485	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S5 - 5'

E301136-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.4 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.4 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	106 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S6 - 1'

E301136-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.1 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	98.8 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.1 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	98.8 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	103 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	691	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S6 - 3'

E301136-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.4 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.4 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	102 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	1030	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S6 - 5'

E301136-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.8 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	100 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.8 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	100 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	109 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S7 - 1'

E301136-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.7 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	101 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.7 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	99.1 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	101 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	105 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	601	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:48:02PM

S7 - 3'

E301136-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.7 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.4 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304047
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	95.7 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.4 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	99.4 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304042
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	105 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304053
Chloride	903	20.0	1	01/27/23	01/28/23	



Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/1/2023 1:48:02PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2304047-BLK1)

Prepared: 01/27/23 Analyzed: 01/27/23

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	0.481		0.500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

LCS (2304047-BS1)

Prepared: 01/27/23 Analyzed: 01/27/23

Benzene	2.37	0.0250	2.50		94.9	70-130			
Ethylbenzene	2.41	0.0250	2.50		96.4	70-130			
Toluene	2.37	0.0250	2.50		94.8	70-130			
o-Xylene	2.52	0.0250	2.50		101	70-130			
p,m-Xylene	4.96	0.0500	5.00		99.2	70-130			
Total Xylenes	7.48	0.0250	7.50		99.7	70-130			
Surrogate: Bromofluorobenzene	0.535		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			

Matrix Spike (2304047-MS1)

Source: E301136-01 Prepared: 01/27/23 Analyzed: 01/27/23

Benzene	2.37	0.0250	2.50	ND	94.6	48-131			
Ethylbenzene	2.36	0.0250	2.50	ND	94.5	45-135			
Toluene	2.34	0.0250	2.50	ND	93.6	48-130			
o-Xylene	2.46	0.0250	2.50	ND	98.4	43-135			
p,m-Xylene	4.85	0.0500	5.00	ND	97.0	43-135			
Total Xylenes	7.31	0.0250	7.50	ND	97.4	43-135			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.511		0.500		102	70-130			
Surrogate: Toluene-d8	0.500		0.500		99.9	70-130			

Matrix Spike Dup (2304047-MSD1)

Source: E301136-01 Prepared: 01/27/23 Analyzed: 01/27/23

Benzene	2.33	0.0250	2.50	ND	93.3	48-131	1.38	23	
Ethylbenzene	2.34	0.0250	2.50	ND	93.6	45-135	0.872	27	
Toluene	2.34	0.0250	2.50	ND	93.7	48-130	0.128	24	
o-Xylene	2.42	0.0250	2.50	ND	96.8	43-135	1.60	27	
p,m-Xylene	4.80	0.0500	5.00	ND	95.9	43-135	1.06	27	
Total Xylenes	7.22	0.0250	7.50	ND	96.2	43-135	1.24	27	
Surrogate: Bromofluorobenzene	0.531		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.522		0.500		104	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported: 2/1/2023 1:48:02PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2304047-BLK1) Prepared: 01/27/23 Analyzed: 01/27/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.481		0.500		96.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.499		0.500		99.8	70-130			

LCS (2304047-BS2) Prepared: 01/27/23 Analyzed: 01/27/23

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.2	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.514		0.500		103	70-130			
Surrogate: Toluene-d8	0.504		0.500		101	70-130			

Matrix Spike (2304047-MS2) Source: E301136-01 Prepared: 01/27/23 Analyzed: 01/27/23

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.3	70-130			
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.508		0.500		102	70-130			

Matrix Spike Dup (2304047-MSD2) Source: E301136-01 Prepared: 01/27/23 Analyzed: 01/27/23

Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.6	70-130	1.43	20	
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.504		0.500		101	70-130			
Surrogate: Toluene-d8	0.501		0.500		100	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/1/2023 1:48:02PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2304042-BLK1)					Prepared: 01/27/23 Analyzed: 01/27/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.2		50.0		110	50-200			

LCS (2304042-BS1)					Prepared: 01/27/23 Analyzed: 01/27/23				
Diesel Range Organics (C10-C28)	258	25.0	250		103	38-132			
Surrogate: n-Nonane	52.1		50.0		104	50-200			

Matrix Spike (2304042-MS1)					Source: E301136-08		Prepared: 01/27/23 Analyzed: 01/27/23		
Diesel Range Organics (C10-C28)	255	25.0	250	ND	102	38-132			
Surrogate: n-Nonane	49.9		50.0		99.8	50-200			

Matrix Spike Dup (2304042-MSD1)					Source: E301136-08		Prepared: 01/27/23 Analyzed: 01/27/23		
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	1.69	20	
Surrogate: n-Nonane	50.7		50.0		101	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/1/2023 1:48:02PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2304053-BLK1)					Prepared: 01/27/23 Analyzed: 01/27/23				
Chloride	ND	20.0							
LCS (2304053-BS1)					Prepared: 01/27/23 Analyzed: 01/27/23				
Chloride	269	20.0	250		108	90-110			
Matrix Spike (2304053-MS1)					Source: E301136-01		Prepared: 01/27/23 Analyzed: 01/27/23		
Chloride	1150	40.0	250	838	123	80-120			M2
Matrix Spike Dup (2304053-MSD1)					Source: E301136-01		Prepared: 01/27/23 Analyzed: 01/27/23		
Chloride	1160	40.0	250	838	129	80-120	1.32	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:	Cotton Draw 32 St 2 SWD	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/01/23 13:48

- 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 4

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program						
Project: <u>Cotton Draw 32 St 2 SWD</u>					Attention: <u>Devon</u>		Lab WO# <u>E 301136</u>		Job Number <u>01053-0007</u>		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Tom Bynum					Address:		Analysis and Method								RCRA						
Address: 5614 N. Lovington Hwy.					City, State, Zip										State						
City, State, Zip Hobbs, NM, 88240					Phone:		DRO by 8015		GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX	NM	CO	UT	AZ	TX	
Phone: 580-748-1613					Email:																
Email: tom@pimaoil.com					Pima Project # <u>1-232</u>																
Report due by:																					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks															
8:00	1/25/23	S	1	S1-1'	1																
8:05				S1-3'	2																
8:10				S1-5'	3																
8:15				S2-1'	4																
8:20				S2-3'	5																
8:25				S2-5'	6																
8:30				S3-1'	7																
8:35				S3-3'	8																
8:40				S3-5'	9																
8:45				S4-1'	10																
Additional Instructions: Bill to Devon: 2/1/2957																					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.											Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only									
<u>[Signature]</u>		1-26-23		2:00		<u>[Signature]</u>		1-26-23		1400		Received on ice: <u>Y</u> N									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3									
<u>[Signature]</u>		1-26-23		1645		<u>[Signature]</u>		1-26-23		1700											
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		AVG Temp °C									
<u>[Signature]</u>		1-26-23		2300		<u>[Signature]</u>		1-27-23		8:30		4									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other											Container Types: 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.																					

Project Information

Chain of Custody

Page 2 of 4

Client: Pima Environmental Services					Attention: <u>Devon</u>		Lab Use Only		TAT				EPA Program				
Project: <u>Cotton Draw 32 St 2 SWD</u>					Address: _____		Lab WO# <u>E 301136</u>		Job Number <u>01058-0007</u>		1D	2D	3D	Standard	CWA	SDWA	
Project Manager: Tom Bynum					City, State, Zip _____		Analysis and Method								RCRA		
Address: <u>5614 N. Lovington Hwy.</u>					Phone: _____												
City, State, Zip <u>Hobbs, NM, 88240</u>					Email: _____										State		
Phone: <u>580-748-1613</u>					Pima Project # <u>1-232</u>		DRO by 8015		GRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC NM	BGDOC TX	
Email: <u>tom@pimaoil.com</u>																	
Report due by: _____																	
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Remarks											
8:50	1/25/23	S	1	S4-3'	1												
8:55				S4-5'	2												
9:00				S5-1'	3												
9:05				S5-3'	4												
9:10				S5-5'	5												
9:15				S6-1'	6												
9:20				S6-3'	7												
9:25				S6-5'	8												
9:30				S7-1'	9												
9:35				S7-3'	10												
Additional Instructions: <u>Bill to Devon: 211/2957</u>																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Audriana Benaridze</u>																	
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) <u>AB</u>		Date <u>1-26-22</u>	Time <u>1:00</u>	Received by: (Signature) <u>Michelle Capel</u>		Date <u>1-26-23</u>	Time <u>1400</u>	Lab Use Only									
Relinquished by: (Signature) <u>Michelle Capel</u>		Date <u>1-26-23</u>	Time <u>1645</u>	Received by: (Signature) <u>Lorenzo Lei</u>		Date <u>1-26-23</u>	Time <u>1700</u>	Received on ice: <u>Y</u> / N									
Relinquished by: (Signature) <u>Lorenzo Lei</u>		Date <u>1-26-23</u>	Time <u>2300</u>	Received by: (Signature) <u>Raina Schunary</u>		Date <u>1/27/23</u>	Time <u>8:30</u>	T1 _____ T2 _____ T3 _____									
AVG Temp °C <u>4</u>																	
Sample Matrix <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other _____																	
Container Type <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - 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: 1/27/2023 11:11:04AM

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:	01/27/23 08:30	Work Order ID:	E301136
Phone:	(575) 631-6977	Date Logged In:	01/26/23 16:34	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	02/02/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Cotton Draw 32 St 2 SWD has been separated into 2 reports due to sample volume. Workorders are as follows: E301136 & E301137.

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? Yes
11. If yes, were custody/security seals intact? Yes
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw 32 St 2 SWD

Work Order: E301137

Job Number: 01058-0007

Received: 1/27/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/1/23

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: 2/1/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Cotton Draw 32 St 2 SWD
Workorder: E301137
Date Received: 1/27/2023 8:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 1/27/2023 8:30:00AM, under the Project Name: Cotton Draw 32 St 2 SWD.

The analytical test results summarized in this report with the Project Name: Cotton Draw 32 St 2 SWD 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

Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	5
Sample Data	6
S8 - 1'	6
S8 - 3'	7
S8 - 5'	8
SW1	9
SW2	10
SW3	11
SW4	12
SW5	13
SW6	14
SW7	15
SW8	16
SW9	17
SW10	18
BG1	19
BG2	20
S7 - 5'	21
QC Summary Data	22
QC - Volatile Organic Compounds by EPA 8260B	22
QC - Nonhalogenated Organics by EPA 8015D - GRO	23
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	24

Table of Contents (continued)

QC - Anions by EPA 300.0/9056A	25
Definitions and Notes	26
Chain of Custody etc.	27

Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/01/23 13:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S8 - 1'	E301137-01A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S8 - 3'	E301137-02A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S8 - 5'	E301137-03A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
SW1	E301137-04A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
SW2	E301137-05A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
SW3	E301137-06A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
SW4	E301137-07A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
SW5	E301137-08A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
SW6	E301137-09A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
SW7	E301137-10A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
SW8	E301137-11A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
SW9	E301137-12A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
SW10	E301137-13A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
BG1	E301137-14A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
BG2	E301137-15A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.
S7 - 5'	E301137-16A	Soil	01/25/23	01/27/23	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Cotton Draw 32 St 2 SWD Project Number: 01058-0007 Project Manager: Tom Bynum	Reported: 2/1/2023 1:56:00PM
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S8 - 1'

E301137-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2304048	
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
<i>Surrogate: Bromofluorobenzene</i>	89.9 %	70-130		01/27/23	01/28/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	93.9 %	70-130		01/27/23	01/28/23	
<i>Surrogate: Toluene-d8</i>	102 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2304048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
<i>Surrogate: Bromofluorobenzene</i>	89.9 %	70-130		01/27/23	01/28/23	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	93.9 %	70-130		01/27/23	01/28/23	
<i>Surrogate: Toluene-d8</i>	102 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2304044	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
<i>Surrogate: n-Nonane</i>	108 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2304052	
Chloride	1290	40.0	2	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

S8 - 3'

E301137-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	92.2 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	103 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	92.2 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	103 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	107 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

S8 - 5'

E301137-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.2 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.2 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	92.5 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	108 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	394	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

SW1

E301137-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	90.7 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	103 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	90.7 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	91.5 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	103 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	108 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported: 2/1/2023 1:56:00PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW2

E301137-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY		Batch: 2304048	
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	91.3 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY		Batch: 2304048	
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	91.3 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	95.7 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2304044	
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	109 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: BA		Batch: 2304052	
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

SW3

E301137-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	89.7 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	102 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	89.7 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	96.6 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	102 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	109 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

SW4

E301137-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	90.0 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	102 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	90.0 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	102 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	109 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

SW5

E301137-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	90.4 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	103 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	90.4 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	103 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	110 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

SW6

E301137-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.5 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	106 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	94.5 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	94.8 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	106 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	109 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

SW7

E301137-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	93.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	106 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	93.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	93.4 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	106 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	109 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

SW8

E301137-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	92.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	103 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	92.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	92.9 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	103 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	109 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

SW9

E301137-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	91.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	91.9 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	112 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

SW10

E301137-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	91.4 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	91.4 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	94.7 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	112 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

BG1

E301137-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	107 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	93.5 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	90.7 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	107 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	110 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

BG2

E301137-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	92.3 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	92.3 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	92.3 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/28/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/28/23	
Surrogate: n-Nonane	104 %	50-200		01/27/23	01/28/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



Sample Data

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

Project Name: Cotton Draw 32 St 2 SWD
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
2/1/2023 1:56:00PM

S7 - 5'

E301137-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Benzene	ND	0.0250	1	01/27/23	01/28/23	
Ethylbenzene	ND	0.0250	1	01/27/23	01/28/23	
Toluene	ND	0.0250	1	01/27/23	01/28/23	
o-Xylene	ND	0.0250	1	01/27/23	01/28/23	
p,m-Xylene	ND	0.0500	1	01/27/23	01/28/23	
Total Xylenes	ND	0.0250	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	93.4 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2304048
Gasoline Range Organics (C6-C10)	ND	20.0	1	01/27/23	01/28/23	
Surrogate: Bromofluorobenzene	93.4 %	70-130		01/27/23	01/28/23	
Surrogate: 1,2-Dichloroethane-d4	95.8 %	70-130		01/27/23	01/28/23	
Surrogate: Toluene-d8	104 %	70-130		01/27/23	01/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2304044
Diesel Range Organics (C10-C28)	ND	25.0	1	01/27/23	01/27/23	
Oil Range Organics (C28-C36)	ND	50.0	1	01/27/23	01/27/23	
Surrogate: n-Nonane	111 %	50-200		01/27/23	01/27/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2304052
Chloride	ND	20.0	1	01/27/23	01/28/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/1/2023 1:56:00PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

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

Blank (2304048-BLK1) Prepared: 01/27/23 Analyzed: 01/28/23

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	0.469		0.500		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2304048-BS1) Prepared: 01/27/23 Analyzed: 01/30/23

Benzene	2.60	0.0250	2.50		104	70-130			
Ethylbenzene	2.67	0.0250	2.50		107	70-130			
Toluene	2.73	0.0250	2.50		109	70-130			
o-Xylene	2.78	0.0250	2.50		111	70-130			
p,m-Xylene	5.36	0.0500	5.00		107	70-130			
Total Xylenes	8.14	0.0250	7.50		109	70-130			
Surrogate: Bromofluorobenzene	0.465		0.500		92.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.463		0.500		92.6	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

Matrix Spike (2304048-MS1) Source: E301137-06 Prepared: 01/27/23 Analyzed: 01/28/23

Benzene	2.53	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.55	0.0250	2.50	ND	102	45-135			
Toluene	2.62	0.0250	2.50	ND	105	48-130			
o-Xylene	2.68	0.0250	2.50	ND	107	43-135			
p,m-Xylene	5.16	0.0500	5.00	ND	103	43-135			
Total Xylenes	7.84	0.0250	7.50	ND	105	43-135			
Surrogate: Bromofluorobenzene	0.477		0.500		95.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.3	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			

Matrix Spike Dup (2304048-MSD1) Source: E301137-06 Prepared: 01/27/23 Analyzed: 01/28/23

Benzene	2.41	0.0250	2.50	ND	96.6	48-131	4.75	23	
Ethylbenzene	2.42	0.0250	2.50	ND	96.8	45-135	5.37	27	
Toluene	2.47	0.0250	2.50	ND	98.9	48-130	5.85	24	
o-Xylene	2.54	0.0250	2.50	ND	101	43-135	5.50	27	
p,m-Xylene	4.89	0.0500	5.00	ND	97.8	43-135	5.33	27	
Total Xylenes	7.43	0.0250	7.50	ND	99.0	43-135	5.39	27	
Surrogate: Bromofluorobenzene	0.472		0.500		94.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.8	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported: 2/1/2023 1:56:00PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

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 (2304048-BLK1) Prepared: 01/27/23 Analyzed: 01/28/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.469		0.500		93.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

LCS (2304048-BS2) Prepared: 01/27/23 Analyzed: 01/28/23

Gasoline Range Organics (C6-C10)	61.0	20.0	50.0		122	70-130			
Surrogate: Bromofluorobenzene	0.460		0.500		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.479		0.500		95.7	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

Matrix Spike (2304048-MS2) Source: E301137-06 Prepared: 01/27/23 Analyzed: 01/30/23

Gasoline Range Organics (C6-C10)	56.4	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.459		0.500		91.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		96.9	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			

Matrix Spike Dup (2304048-MSD2) Source: E301137-06 Prepared: 01/27/23 Analyzed: 01/28/23

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	2.99	20	
Surrogate: Bromofluorobenzene	0.463		0.500		92.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.457		0.500		91.3	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/1/2023 1:56:00PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: RAS

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 (2304044-BLK1)					Prepared: 01/27/23 Analyzed: 01/27/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.6		50.0		105	50-200			

LCS (2304044-BS1)					Prepared: 01/27/23 Analyzed: 01/27/23				
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	52.5		50.0		105	50-200			

Matrix Spike (2304044-MS1)				Source: E301137-16		Prepared: 01/27/23 Analyzed: 01/27/23			
Diesel Range Organics (C10-C28)	258	25.0	250	ND	103	38-132			
Surrogate: n-Nonane	52.6		50.0		105	50-200			

Matrix Spike Dup (2304044-MSD1)				Source: E301137-16		Prepared: 01/27/23 Analyzed: 01/27/23			
Diesel Range Organics (C10-C28)	259	25.0	250	ND	104	38-132	0.550	20	
Surrogate: n-Nonane	54.5		50.0		109	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw 32 St 2 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/1/2023 1:56:00PM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2304052-BLK1)					Prepared: 01/27/23 Analyzed: 01/28/23				
Chloride	ND	20.0							
LCS (2304052-BS1)					Prepared: 01/27/23 Analyzed: 01/28/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2304052-MS1)					Source: E301137-01		Prepared: 01/27/23 Analyzed: 01/28/23		
Chloride	1510	40.0	250	1290	87.4	80-120			
Matrix Spike Dup (2304052-MSD1)					Source: E301137-01		Prepared: 01/27/23 Analyzed: 01/28/23		
Chloride	1530	40.0	250	1290	94.9	80-120	1.23	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 32 St 2 SWD	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/01/23 13:56

- 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 3 of 4

Client: Pima Environmental Services					Bill To		Lab Use Only				TAT				EPA Program	
Project: <u>Cotton Draw 32 S&2 SWD</u>					Attention: <u>Devon</u>		Lab WO# <u>E 301137</u>		Job Number <u>01059-007</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:		Analysis and Method								RCRA	
Address: 5614 N. Lovington Hwy.					City, State, Zip											
City, State, Zip: Hobbs, NM, 88240					Phone:										State	
Phone: 580-748-1613					Email:										NM CO UT AZ TX	
Email: tom@pimaoil.com					Pima Project # <u>1-232</u>										Remarks	
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	BDOC NM	BDOC TX	Remarks
9:40	1/25/23	S	1	S8-1'	1							X		
9:45				S8-3'	2									
9:50				S8-5'	3									
9:55				SW1	4									
10:00				SW2	5									
10:05				SW3	6									
10:10				SW4	7									
10:15				SW5	8									
10:20				SW6	9									
10:25				SW7	10									

Additional Instructions: Bill to Devon: 211/2957

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: Audriana Beranidez

Relinquished by: (Signature) AB Date 1-26-23 Time 2:00

Received by: (Signature) Michelle Lopez Date 1-26-23 Time 1400

Relinquished by: (Signature) Michelle Lopez Date 1-26-23 Time 1645

Received by: (Signature) Reneo Lei Date 1-26-23 Time 1700

Relinquished by: (Signature) Reneo Lei Date 1-26-23 Time 2300

Received by: (Signature) Rama Schuyler Date 1/27/23 Time 8:30

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.

Project Information

Chain of Custody

Client: Pima Environmental Services Project: <u>Cotton Draw 31 & 2 SWD</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip <u>Hobbs, NM, 88240</u> Phone: 580-748-1613 Email: <u>tom@pimaoil.com</u> Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip Phone: Email: Pima Project # <u>1-232</u>					Lab Use Only Lab WO# <u>E301137</u> Job Number <u>01058-0007</u> Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BGDOC NM BGDOC TX					TAT 1D 2D 3D Standard <u>X</u>				EPA Program CWA SDWA RCRA State NM CO UT AZ TX <u>X</u>			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															Remarks		
10:30	1/25/23	S	1	SW8	11																	
10:35				SW9	12																	
10:40				SW10	13																	
10:45				BG1	14																	
10:50				BG2	15																	
10:55				ST-5	16																	
Additional Instructions: <u>Bill to Devon: 211/2957</u>																						
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.												
Relinquished by: (Signature) <u>AB</u>					Date <u>1-26-23</u>		Time <u>2:00</u>		Received by: (Signature) <u>Michelle Cuyak</u>					Date <u>1-26-23</u>		Time <u>1400</u>		Lab Use Only Received on ice: <u>Y</u> / N				
Relinquished by: (Signature) <u>Michelle Cuyak</u>					Date <u>1-26-23</u>		Time <u>1645</u>		Received by: (Signature) <u>Lucas Lein</u>					Date <u>1-26-23</u>		Time <u>1700</u>		T1 _____ T2 _____ T3 _____				
Relinquished by: (Signature) <u>Lucas Lein</u>					Date <u>1-26-23</u>		Time <u>2300</u>		Received by: (Signature) <u>Rare Schong</u>					Date <u>1/27/23</u>		Time <u>8:30</u>		AVG Temp °C <u>4</u>				
Sample Matrix: <u>S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other</u>										Container Type: <u>g - glass, p - poly/plastic, ag - amber glass, v - VOA</u>												
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: 1/27/2023 11:22:28AM

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:	01/27/23 08:30	Work Order ID:	E301137
Phone:	(575) 631-6977	Date Logged In:	01/26/23 16:35	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	02/02/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/Resolution

Project Cotton Draw 32 St 2 SWD has been separated into 2 reports due to sample volume. Workorders are as follows: E301136 & E301137.

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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

QUESTIONS

Action 378099

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	378099
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nOY1803741279
Incident Name	NOY1803741279 COTTON DRAW 32 STATE SWD #002 @ 30-025-41524
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-41524] COTTON DRAW 32 STATE SWD #002

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COTTON DRAW 32 STATE SWD #002
Date Release Discovered	01/21/2018
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Other (Specify) Produced Water Released: 519 BBL Recovered: 512 BBL Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 378099

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	378099
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 08/27/2024
--	--

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QUESTIONS, Page 3

Action 378099

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 378099
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1290
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	06/24/2024
On what date will (or did) the final sampling or liner inspection occur	06/30/2024
On what date will (or was) the remediation complete(d)	06/30/2024
What is the estimated surface area (in square feet) that will be reclaimed	2224
What is the estimated volume (in cubic yards) that will be reclaimed	140
What is the estimated surface area (in square feet) that will be remediated	2224
What is the estimated volume (in cubic yards) that will be remediated	140
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 378099

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	378099
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Remediation Plan (continued)**

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

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

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com Date: 08/27/2024
--	--

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

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QUESTIONS, Page 5

Action 378099

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 378099
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

District I

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QUESTIONS, Page 6

Action 378099

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	378099
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	363300
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/15/2024
What was the (estimated) number of samples that were to be gathered	31
What was the sampling surface area in square feet	2244

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2224
What was the total volume (cubic yards) remediated	140
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2224
What was the total volume (in cubic yards) reclaimed	140
Summarize any additional remediation activities not included by answers (above)	The liner inspection is included in the closure report

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 08/27/2024
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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

QUESTIONS, Page 7

Action 378099

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	378099
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

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

District I
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CONDITIONS

Action 378099

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	378099
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	9/4/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	9/4/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	9/4/2024