



SITE ASSESSMENT AND REMEDIATION WORK PLAN

Devon Energy
Cotton Draw Unit #117H

Incident ID: nAB1808251008

Prepared By:
Pima Environmental Services, LLC

Prepared For:
Devon Energy Production, LP

NOVEMBER 21, 2024
PIMA ENVIRONMENTAL SERVICES, LLC
5614 Lovington Hwy, Hobbs, NM 88240

November 21, 2024

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

Bureau of Land Management
620 E Green St.
Carlsbad, NM 88220

Re: Site Assessment and Remediation Work Plan
Cotton Draw Unit #117H (Release occurred at the CTB at the CDU 153H)
API No. 30-015-38434
GPS: Latitude 32.1671715 Longitude -103.7645721
ULSTR – O-34-24S-31E Eddy County, NM
NMOCD Incident ID nAB1808251008

This crude oil release was initially discovered on March 11, 2018. An initial C-141 form was submitted on March 22, 2018, and approved by the NMOCD on March 23, 2018. This incident was assigned Incident ID nAB1808251008, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Cotton Draw Unit 153 CTB (Cotton) is located approximately nineteen (19) miles southeast of Malaga, NM. This spill site is in Unit O, Section 34, Township 24S, Range 31E, Latitude 32.1671715 Longitude -103.7645721, Eddy County, NM. Figure 1 references a Location Map.

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

Based on the well water data from the New Mexico Office of the State Engineer, C-04593-POD1 is a borehole that was drilled March 9, 2022, to a depth of 55 feet below grade surface (BGS) and located 0.22 miles away from this release area. No water bearing soil was encountered during this event. Conversely, as per the United States Geological Survey well water data from USGS320952103444401, the nearest groundwater depth in this region is recorded at 406 feet BGS, located 1.10 miles away from the Cotton, with the last gauge conducted in 1998. For detailed references to water surveys and the precise locations of water wells, please refer to Appendix A, inclusive of the relevant maps. Closure criteria for this release area will be according to the 51-100' column of Table 1 19.15.29 NMAC.

Release Information

nAB1808251008: On March 11, 2018, the heater dump was plugged up, causing heater to swamp out and released fluids onto location. A portion of the location was affected by the release to the ground and a portion of the location was affected by misting overspray. All Fluids stayed on location. The released fluids were calculated to be approximately 13 barrels (bbls) of crude oil. No fluids were able to be recovered. (Released occurred at the Central Tank Battery at the CDU 153H API:30-015-38535, Same location)

Reference Figure 2 for a Topographic Map.

Site Assessment and Soil Sampling Results

On November 10, 2023, Pima mobilized personnel to the site to begin collecting soil samples with the intention of delineating the release area. Samples were collected from 5 different points within the release area for vertical delineation, and 8 different points around the edges of the release area for horizontal delineation. One background sample was collected from the pasture area just north off the pad. A total of 29 samples were collected, put on ice, jarred, and delivered to the lab for official testing.

On December 6, 2023, Pima personnel returned to the site to collect additional samples for vertical delineation. Sample points S3 through S5 were advanced to depths of 5' bgs. These three samples were collected, put on ice, jarred, then delivered to the lab for official testing. The laboratory results of these sampling events can be found in the following data table. A Site Map can be found in Figure 4.

11/10/23 and 12/6/23 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')									
DEVON ENERGY - COTTON DRAW UNIT 117H - nAB1808251008									
NM Approved Laboratory Results									
Sample ID	Sample Date:	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1-1'	11/10/2023	1'	ND	ND	ND	39.8	ND	39.8	132
S1-2'		2'	ND	ND	ND	ND	ND	0	80.9
S1-3'		3'	ND	ND	ND	ND	ND	0	78.2
S1-4'		4'	ND	ND	ND	ND	ND	0	45.8
S2-1'	11/10/2023	1'	ND	ND	ND	ND	ND	0	126
S2-2'		2'	ND	ND	ND	ND	ND	0	89
S2-3'		3'	ND	ND	ND	ND	ND	0	95.9
S2-4'		4'	ND	ND	ND	54.6	ND	54.6	40
S3-1'	11/10/2023	1'	ND	ND	ND	ND	ND	0	123
S3-2'		2'	ND	ND	ND	ND	ND	0	92.1
S3-3'		3'	ND	ND	ND	ND	ND	0	96.5
S3-4'		4'	ND	ND	ND	155	90.8	245.8	39.9
S3-5'	12/6/2023	5'	ND	ND	ND	ND	ND	0	25.2
S4-1'	11/10/2023	1'	ND	ND	ND	ND	ND	0	112
S4-2'		2'	ND	ND	ND	ND	ND	0	95.6
S4-3'		3'	ND	ND	ND	ND	ND	0	91.9
S4-4'		4'	ND	ND	ND	420	239	659	49.6
S4-5'	12/6/2023	5'	ND	ND	ND	ND	ND	0	58.8
S5-1'	11/10/2023	1'	ND	ND	ND	ND	ND	0	116
S5-2'		2'	ND	ND	ND	39.6	ND	39.6	92.4
S5-3'		3'	ND	ND	ND	ND	ND	0	93
S5-4'		4'	ND	ND	ND	245	137	382	54
S5-5'	12/6/2023	5'	ND	ND	ND	ND	ND	0	39.1
SW1	11/10/2023	0-4' Comp	ND	ND	ND	ND	ND	0	42.5
SW2	11/10/2023	0-4' Comp	ND	ND	ND	ND	ND	0	36.9
SW3	11/10/2023	0-4' Comp	ND	ND	ND	ND	ND	0	30.3
SW4	11/10/2023	0-4' Comp	ND	ND	ND	ND	ND	0	43.5
SW5	11/10/2023	0-4' Comp	ND	ND	ND	ND	ND	0	26.1
SW6	11/10/2023	0-4' Comp	ND	ND	ND	ND	ND	0	37.4
SW7	11/10/2023	0-4' Comp	ND	ND	ND	ND	ND	0	29.5
SW8	11/10/2023	0-4' Comp	ND	ND	ND	ND	ND	0	32.4
BG1	11/10/2023	1'	ND	ND	ND	ND	ND	0	40.9

ND/0 – Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Approval Request

The laboratory results of these sampling events show the contaminants in this release area to be under the regulatory limits as per Table 1 19.15.29 NMAC. On behalf of Devon, Pima requests that this Remediation Closure Report for incident ID# nAB1808251008 be approved. Devon has complied with the applicable closure requirements outlined in rule 19.15.29.12 NMAC.

Countermeasures Due to Rejection

On June 24, 2024, the NMCOB denied the remediation closure report citing:

The OCD has rejected the submitted Application for administrative approval of a release notification and corrective action (C-141) for Incident ID (n#) nAB1808251008, for the following reasons:

- **Remediation closure request denied. Final sampling does not comply with 19.15.29.12 D.(1) or 19.15.29 D.(1)(a-c) NMAC. Operator failed to provide proper sampling notification pursuant to 19.15.29.12.D.(1).(a) NMAC. Failure to provide proper sampling notice is a compliance issue and OCD may pursue compliance actions pursuant to 19.15.5 NMAC. Operator shall ensure future compliance with 19.15.29.12.D.(1).(a) NMAC as sampling occurred just before and during the OCD's transition to the new digital C-141, sampling notification for closure sampling should have been provided via email if the samples were anticipated to be used as final samples. A copy of the final sampling notification was not included in the attached report. Any C-141N forms submitted with a sampling date prior to the 12/1/2023 digital C-141 release date need to have the email notifications included in the report in order to provide proof of compliance with 19.15.29.12.D. (1)(a) NMAC. The questions on the C-141 that require the square footage and cubic yardage that will be reclaimed were both answered 0. Pursuant to 19.15.29.13 NMAC, all impacted surfaces must be reclaimed. Analytical results included in the attached report indicate contamination above the reclamation standards in the upper 4 feet of the release area. The answers will need to reflect the correct square footage/cubic yardage that will need to be reclaimed when the site is no longer reasonably needed for production. Submit a complete and accurate report through the OCD Permitting website by 9/24/2024.**

In response to the rejected closure report, Pima submitted the required 48-hour sampling notification on July 30, 2024 (Appendix C) and returned to the site on August 1, 2024, to collect the samples again. The laboratory results of this sampling event can be found in the following data table.

8/1/2024 Sampling Event

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY Cotton Draw Unit #117H								
Date: 8-1-24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1	1'	ND	ND	ND	ND	ND	0	1700
	2'	ND	ND	ND	1410	1050	2460	ND
	3'	ND	ND	ND	36.9	ND	36.9	ND
	4'	ND	ND	ND	194	143	337	ND
S2	1'	ND	ND	ND	ND	ND	0	1670
	2'	ND	ND	ND	1100	876	1976	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	45.6	ND	45.6	ND

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is 51-100')								
DEVON ENERGY Cotton Draw Unit #117H								
Date: 8-1-24		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S3	1'	ND	ND	ND	ND	ND	0	141
	2'	ND	ND	ND	937	829	1766	ND
	3'	ND	ND	ND	37.1	ND	37.1	ND
	4'	ND	ND	ND	ND	ND	0	ND
S4	1'	ND	ND	ND	ND	ND	0	104
	2'	ND	ND	ND	923	776	1699	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S5	1'	ND	ND	ND	ND	ND	0	150
	2'	ND	ND	ND	439	363	802	ND
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
SW1	(0-4') Comp	ND	ND	ND	ND	ND	0	ND
SW2	(0-4') Comp	ND	ND	ND	ND	ND	0	ND
SW3	(0-4') Comp	ND	ND	ND	ND	ND	0	ND
SW4	(0-4') Comp	ND	ND	ND	ND	ND	0	ND
SW5	(0-4') Comp	ND	ND	ND	ND	ND	0	ND
SW6	(0-4') Comp	ND	ND	ND	ND	ND	0	ND
SW7	(0-4') Comp	ND	ND	ND	ND	ND	0	ND
SW8	(0-4') Comp	ND	ND	ND	ND	ND	0	ND
BG1	1'	ND	ND	ND	ND	ND	0	ND

ND/0- Analyte Not Detected

Complete Laboratory Reports can be found in Appendix E

Based on the sample results, remediation of areas S1 & S2 are required, and S1 requires further delineation. On behalf of Devon, Pima proposes to remediate these areas by the following method:

1. Submit a one-call through the NM811 system.
2. The estimated volume of soil to be remediated from S1 & S2 is based on a 200 square foot area per sample point, totaling 400 square feet at an average depth of 2 ½ feet below ground surface and approximately 38 cubic yards. We plan to fully delineate S1 during the remediation process.

3. We propose to excavate the affected areas using mechanical and hand equipment and dispose of the contaminated soil at an NMOCD-approved facility. A Site Map can be found in Figure 4. A Proposed Excavation Map can be found in Figure 5.
4. After Devon submits a 48-hour sampling notification, we will collect 5-point composite samples from the excavated areas. These sample points will include base samples from excavated areas, and sidewall samples from the walls of each excavation representative of no more than 200 square feet.
5. Upon final receipt of laboratory reports showing contamination levels are under the regulatory limits of Table 1 19.15.29 NMAC. The excavation will be backfilled with clean, like material, and a remediation closure report will be drafted and submitted to the NMOCD portal for review and approval.
6. Work will commence within 30 days of approval of this work plan by NMOCD and will be completed within 30 days after the start of construction.

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

Devon Energy Production – Jim Raley at 575-689-7597 or jim.raley@devon.com.

Pima Environmental – DelRae Geller at 806-724-5391 or delrae@pimaoil.com.

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map
- 5- Proposed Excavation Map

Appendices:

- Appendix A – Referenced Water Surveys
- Appendix B – Soil Survey and Geological Data
- Appendix C – 48-Hour Sampling Notification and NMOCD Correspondence
- Appendix D – Photographic Documentation
- Appendix E – Laboratory Reports



Figures:

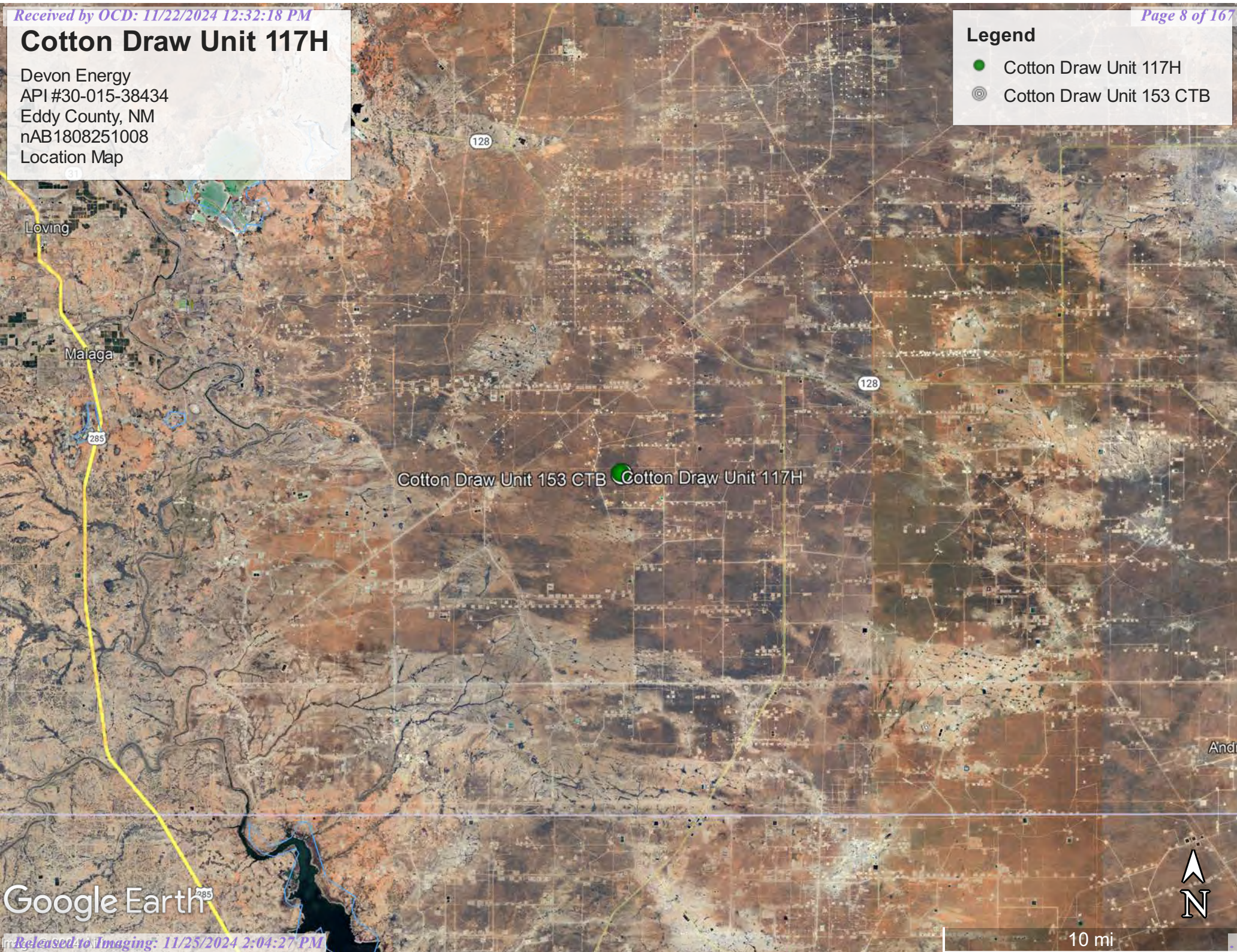
- 1 - Location Map
- 2 - Topographic Map
- 3 - Karst Map
- 4 - Site Map
- 5- Proposed Excavation Map

Cotton Draw Unit 117H

Devon Energy
API #30-015-38434
Eddy County, NM
nAB1808251008
Location Map

Legend

- Cotton Draw Unit 117H
- ⊙ Cotton Draw Unit 153 CTB

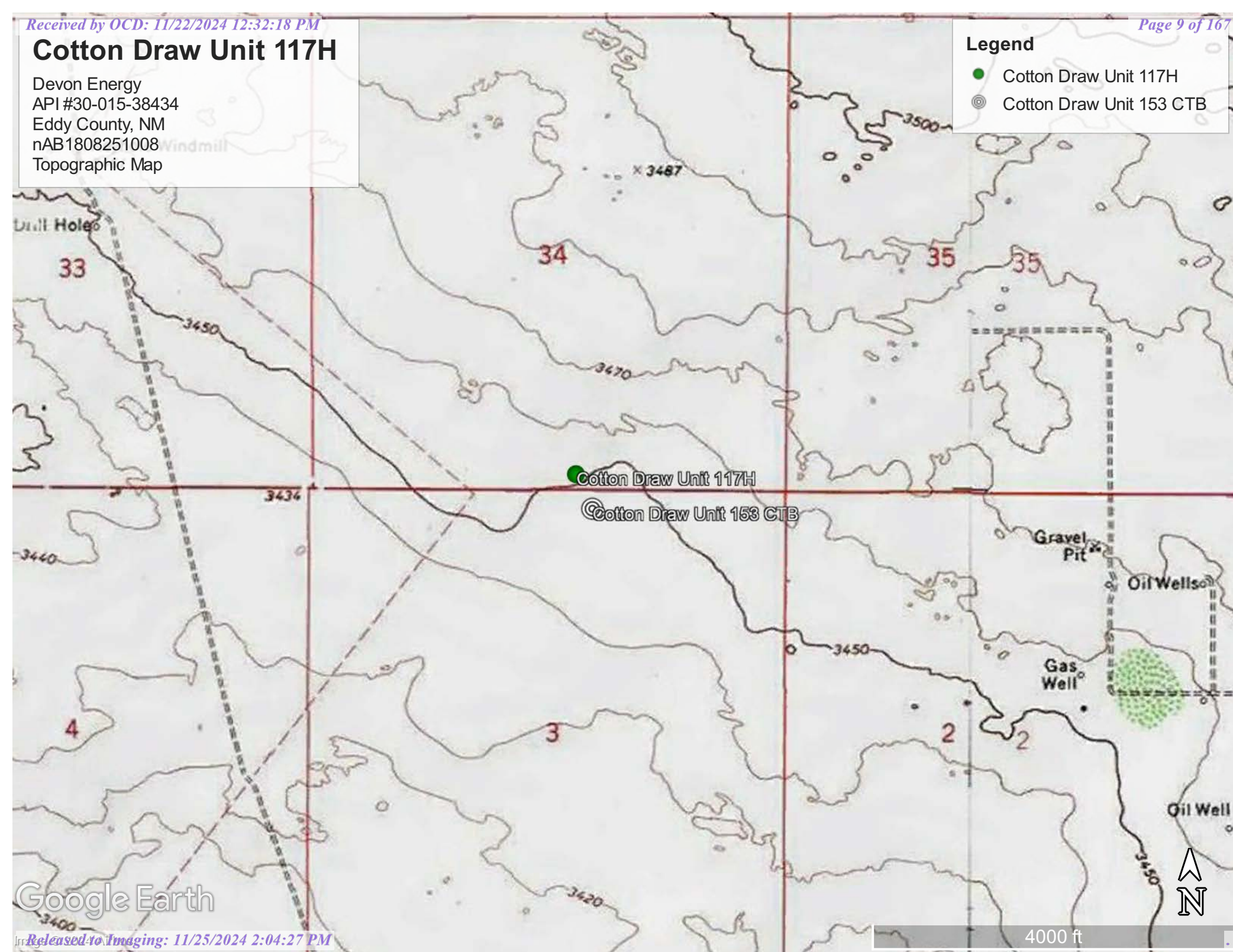


Cotton Draw Unit 117H

Devon Energy
API #30-015-38434
Eddy County, NM
nAB1808251008
Topographic Map

Legend

- Cotton Draw Unit 117H
- ⊙ Cotton Draw Unit 153 CTB






Google Earth

Cotton Draw Unit 117H

Devon Energy
API #30-015-38434
Eddy County, NM
nAB1808251008
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst

Cotton Draw Unit 153 CTB Cotton Draw Unit 117H

Google Earth



3 mi

Cotton Draw Unit 117H

Devon Energy
API #30-015-38434
Eddy County, NM
nAB1808251008
Site Map

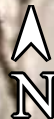
Legend

- Background sample
- Horizontal delineation samples
- nAB1808251008 release area - 1,051 sqft
- Vertical delineation samples

Cotton Draw Unit 117H - 250' NW

BG1

SW6
SW5
SW4
SW3
SW2
SW1
SW7
SW8
S5
S4
S3
S2
S1



100 ft



Google Earth

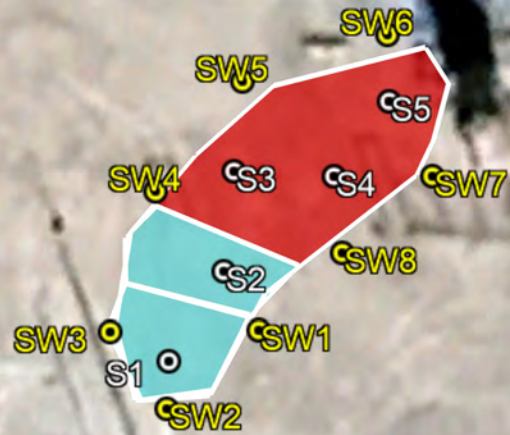
Cotton Draw Unit 153 CTB

Cotton Draw Unit 117H

Devon Energy
API #30-015-38434
Eddy County, NM
Proposed Excavation Map

Legend

-  Excavate 400 square feet at 2 1/2' deep
-  Release Area- 1,051 sqft



Google Earth



90 ft



Appendix A

Water Surveys:

OSE

USGS

Surface Water Map

Wetlands Map

Fema Flood Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 04593 POD1		CUB	ED	3	4	4	34	24S	31E	616903	3559674	377	55		
C 02574		CUB	ED	1	1	2	02	25S	31E	618092	3559494*	1544			
C 04632 POD1		CUB	ED	1	2	2	10	25S	31E	616802	3557964	1598	55		
C 02571		CUB	ED	4	1	2	02	25S	31E	618292	3559294*	1761	860		
C 04633 POD1		CUB	ED	2	1	1	35	24S	31E	617394	3561170	1834			
C 02573		CUB	ED	1	4	2	02	25S	31E	618499	3559091*	2002			
C 02572		CUB	ED	4	2	2	02	25S	31E	618695	3559294*	2160	852		
C 02569		CUB	ED	4	4	2	02	25S	31E	618699	3558891*	2247	1016		
C 03830 POD1		CUB	ED	4	2	4	02	25S	31E	618632	3558432	2361	450		
C 04479 POD1		CUB	ED	2	1	1	04	25S	31E	614182	3559400	2370	0	0	0
C 02570		CUB	ED	4	2	4	02	25S	31E	618704	3558489*	2399	895		
C 02568		CUB	ED	4	3	1	01	25S	31E	619103	3558892*	2636	1025		

Average Depth to Water: **0 feet**

Minimum Depth: **0 feet**

Maximum Depth: **0 feet**

Record Count: 12

UTM NAD83 Radius Search (in meters):

Easting (X): 616548.46

Northing (Y): 3559542.69

Radius: 3000

*UTM location was derived from PLSS - see Help

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


6/6/24 9:12 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04593 POD1	3	4	4	34	24S	31E	616903	3559674 
x									
Driller License: 1249		Driller Company:				ATKINS ENGINEERING ASSOC. INC.			
Driller Name: JACKIE ATKINS									
Drill Start Date: 03/09/2022		Drill Finish Date:				03/10/2022		Plug Date: 03/15/2022	
Log File Date: 04/04/2022		PCW Rcv Date:				Source:			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:				55 feet		Depth Water:	
x									

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

11/30/23 4:10 PM

POINT OF DIVERSION SUMMARY



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 (TW-1)		WELL TAG ID NO.		OSE FILE NO(S). C-4593			
	WELL OWNER NAME(S) Devon Energy				PHONE (OPTIONAL) 575-748-1838			
	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy				CITY Artesia	STATE NM	ZIP 88210	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 10	SECONDS 2.97 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	45	36.48 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE SW L4 Sec 34 T24S R31E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 03/09/2022	DRILLING ENDED 03/10/2022	DEPTH OF COMPLETED WELL (FT) temporary well casing		BORE HOLE DEPTH (FT) ±55	DEPTH WATER FIRST ENCOUNTERED (FT) n/a		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) dry	DATE STATIC MEASURED 03/10/22, 03/15/22		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	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)	SLOT SIZE (inches)
	0	55	±6.5	Boring	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		


FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 01/28/2022)

FILE NO. C-4593	POD NO. 1	TRN NO. 718730
LOCATION 24S.31E.34 344	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0	4	4	Caliche, with medium to fine grained sand, white and Red	Y ✓ N	
	4	24	20	Sand, medium/ fine grained, poorly graded, with caliche gravel, Tan	Y ✓ N	
	24	55	31	Sand, medium/ fine grained, poorly graded, Reddish Brown	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
		MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 Jackie D. Atkins	03/31/2022 DATE
	SIGNATURE OF DRILLER / PRINT SIGNEE NAME	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 01/28/2022)	
FILE NO. C-4593	POD NO. 1	TRN NO. 718730	
LOCATION 245.31E 34 344	WELL TAG ID NO.		PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 719171
File Nbr: C 04595
Well File Nbr: C 04595 POD1

Apr. 05, 2022

DALE WOODALL
DEVON ENERGY
6488 7 RIVERS HWY
ARTESIA, NM 88210

Greetings:

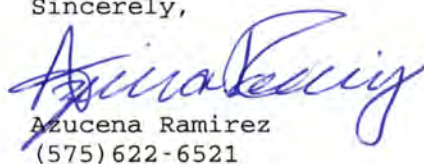
The above numbered permit was issued in your name on 02/16/2022.

The Well Record was received in this office on 04/04/2022, stating that it had been completed on 03/09/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/16/2023.

If you have any questions, please feel free to contact us.

Sincerely,


Azucena Ramirez
(575) 622-6521

drywell

OSE POD Location Map



6/6/2024, 8:23:54 AM

GIS WATERS PODs

● Active

● Pending

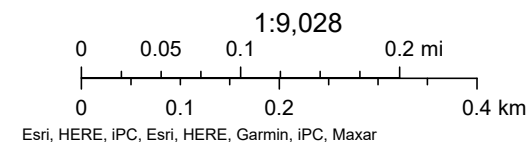
OSE District Boundary

Water Right Regulations

Artesian Planning 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.
- [Full News](#) 

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 320952103444401

Minimum number of levels = 1

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

USGS 320952103444401 25S.31E.02.214411

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°09'50.0", Longitude 103°44'41.2" NAD83

Land-surface elevation 3,468.0 feet above NGVD29

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

This well is completed in the Azotea Tongue of Seven Rivers Formation (313AZOT) local aquifer.

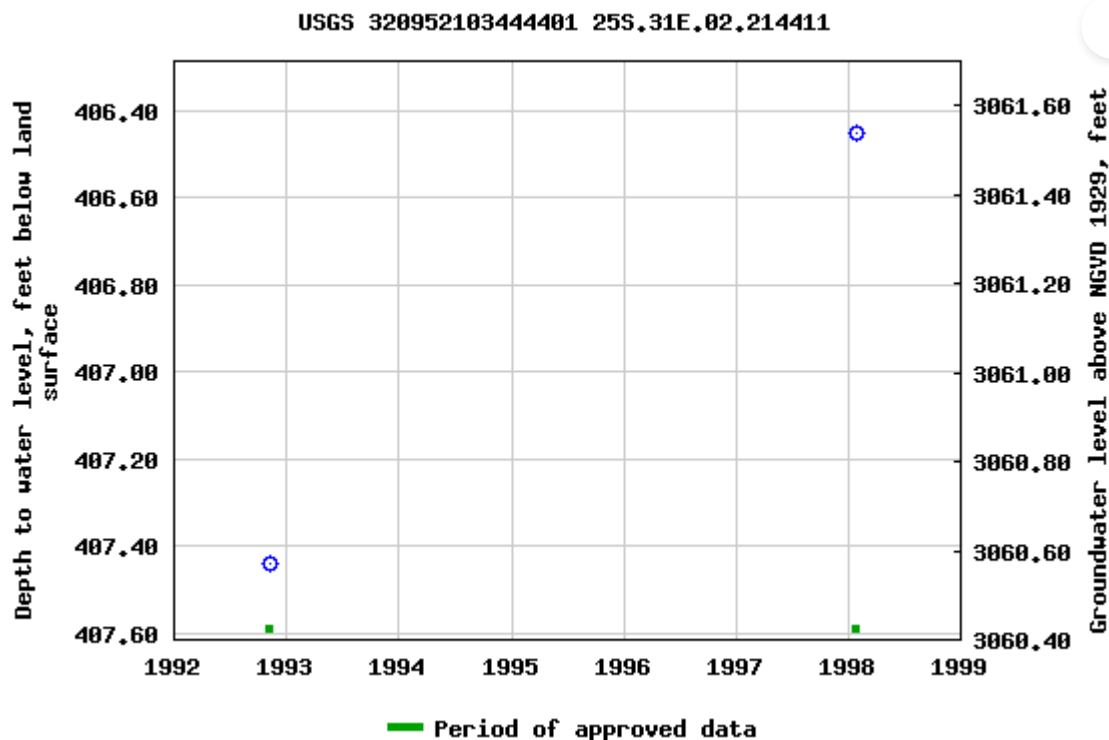
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



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

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Title: Groundwater for USA: Water Levels

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



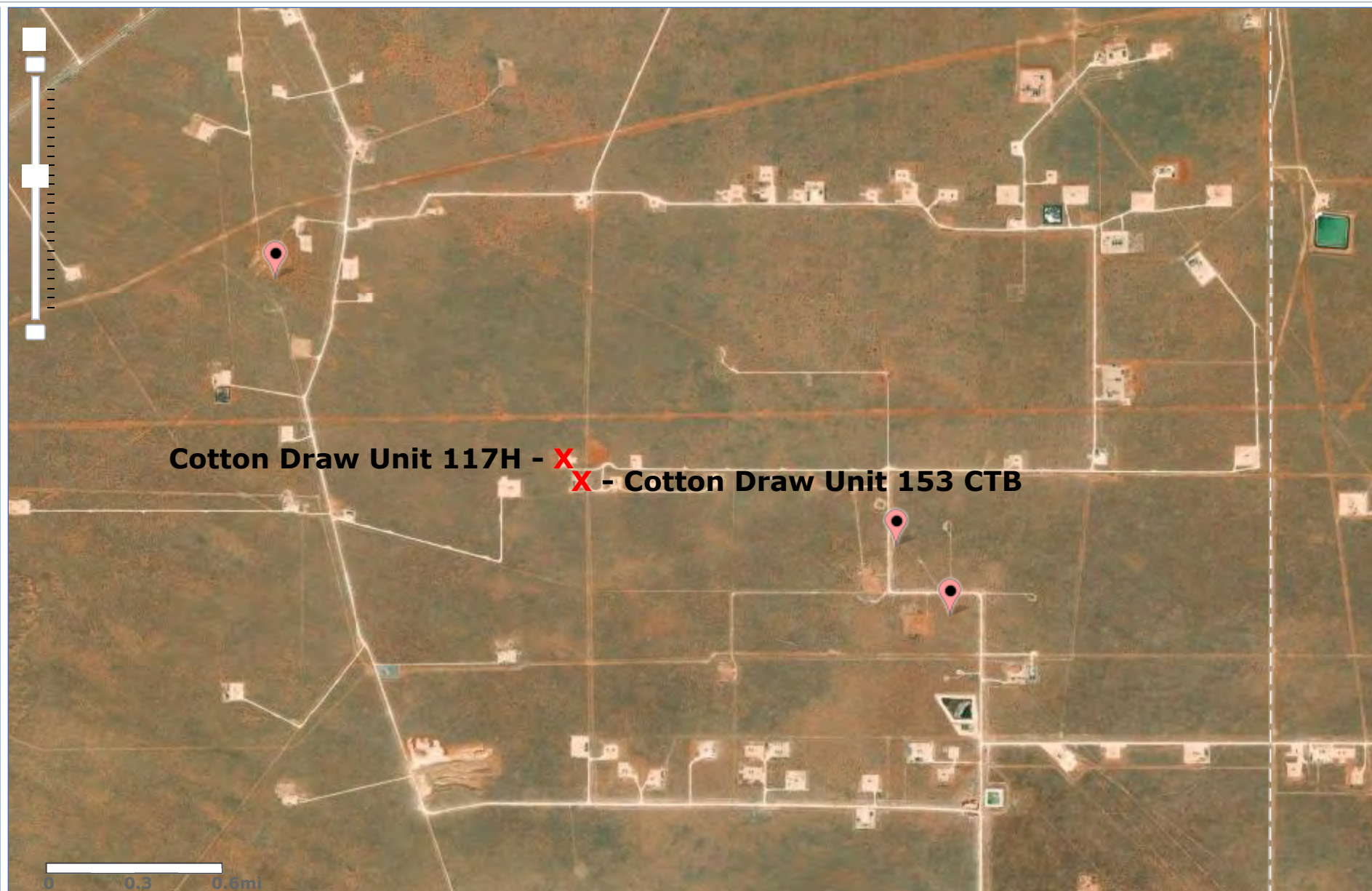
Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2024-06-06 09:30:45 EDT

0.57 0.5 nadww01



National Water Information System: Mapper



Cotton Draw Unit 117H

Devon Energy
API #30-015-38434
Eddy County, NM
nAB1808251008
Surface Water Map

Legend

- 12 Miles
- Pecos River

Pecos River

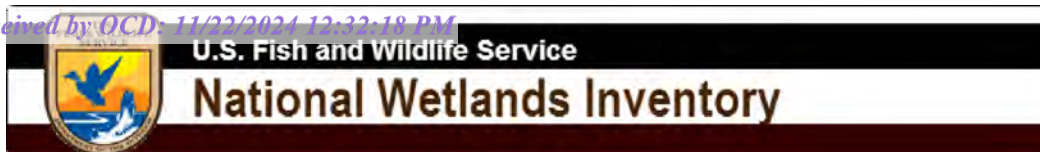
Cotton Draw Unit 153 CTB Cotton Draw Unit 117H

Google Earth

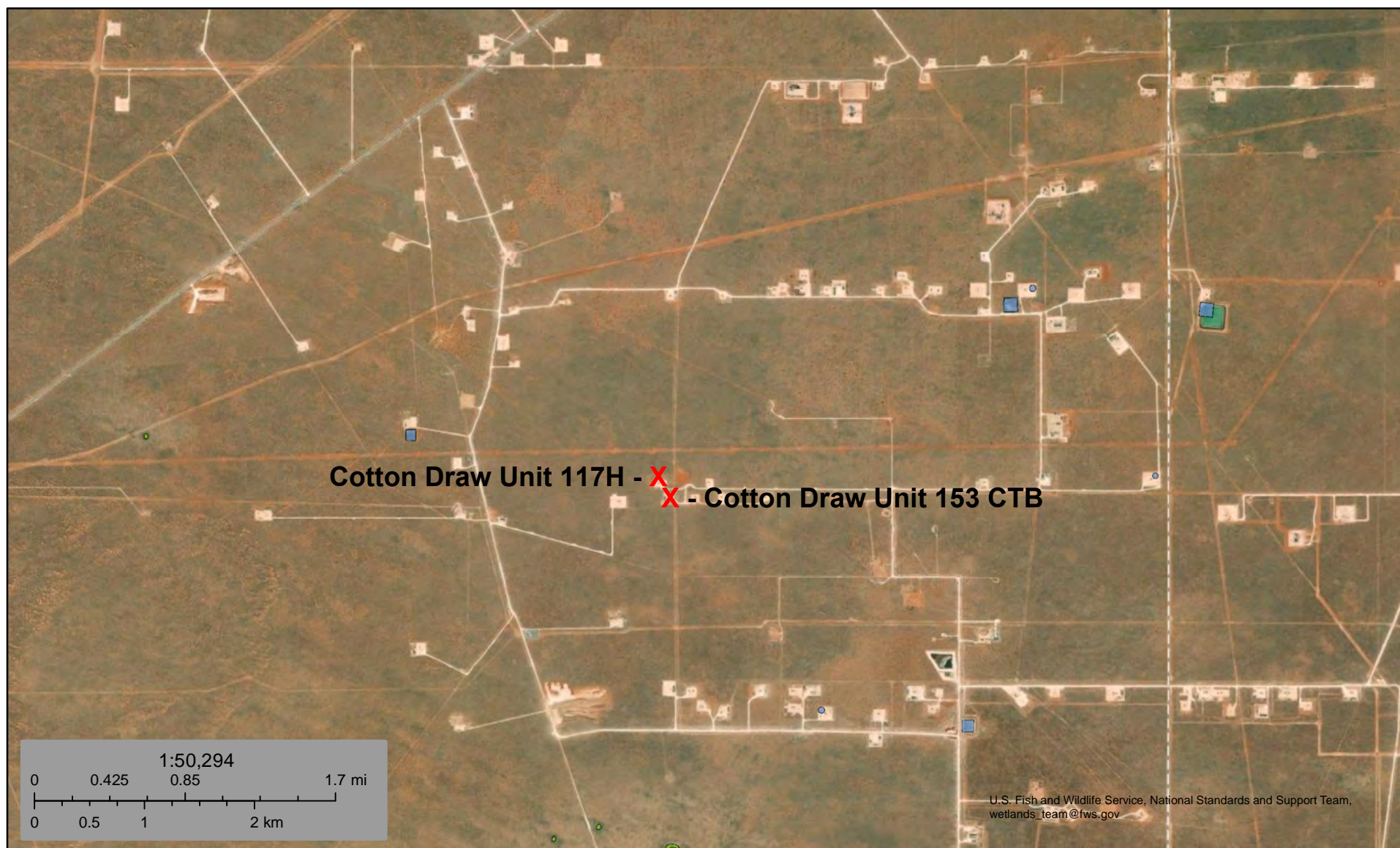
Image © 2024 Airbus



6 mi



Wetlands Map



June 6, 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 FIRMette



103°46'8"W 32°10'13"N



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

1:6,000

103°45'30"W 32°9'43"N

Released to Imaging: 11/25/2024 2:04:27 PM

Basemap Imagery Source: USGS National Map 2023

Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/6/2024 at 9:34 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 B

Soil Survey

Soil Map

Geologic Unit Map

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

Eddy Area, New Mexico

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

Map Unit Setting

National map unit symbol: 1w43

Elevation: 2,000 to 5,700 feet

Mean annual precipitation: 5 to 15 inches

Mean annual air temperature: 57 to 70 degrees F

Frost-free period: 180 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Berino and similar soils: 60 percent

Pajarito and similar soils: 25 percent

Minor components: 15 percent

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

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Down-slope shape: Convex

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 58 inches: sandy clay loam

H3 - 58 to 60 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

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

Sodium adsorption ratio, maximum: 1.0

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

Interpretive groups

Land capability classification (irrigated): None specified

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

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

Description of Pajarito

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

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

Minor Components

Wink

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

Cacique

Percent of map unit: 4 percent
Ecological site: R070BD004NM - Sandy
Hydric soil rating: No

Pajarito

Percent of map unit: 4 percent



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

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Kermit

Percent of map unit: 3 percent

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 2023

Soil Map—Eddy Area, New Mexico



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey

6/6/2024
Page 1 of 3

Soil Map—Eddy Area, 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: Eddy Area, New Mexico

Survey Area Data: Version 19, Sep 7, 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
BB	Berino complex, 0 to 3 percent slopes, eroded	5.6	100.0%
Totals for Area of Interest		5.6	100.0%

Legend

-  Eolian and piedmont deposits
-  Older alluvial deposits of upland plains, piedmont areas, calcic soils, eolian cover sediments of High Plains region
-  Piedmont alluvial deposits

Cotton Draw Unit 117H

Devon Energy
API #30-015-38434
Eddy County, NM
nAB1808251008
Geologic Unit Map

Cotton Draw Unit 153 CTB Cotton Draw Unit 117H

Google Earth

Image © 2024 Airbus

Released to Imaging: 11/25/2024 2:04:27 PM

5 mi





Appendix C

48- Hour Sampling Notification

NMOCD Correspondence

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 368267

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 368267
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1808251008
Incident Name	NAB1808251008 COTTON DRAW UNIT #117H @ 30-015-38434
Incident Type	Oil Release
Incident Status	Initial C-141 Approved
Incident Well	[30-015-38434] COTTON DRAW UNIT #117H

Location of Release Source	
Site Name	COTTON DRAW UNIT #117H
Date Release Discovered	03/11/2018
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,050
What is the estimated number of samples that will be gathered	32
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/01/2024
Time sampling will commence	10:00 AM
Please provide any information necessary for observers to contact samplers	Andrew Franco (806) 200-0054
Please provide any information necessary for navigation to sampling site	32.1671715, -103.7645721

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 368267

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 368267
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
wdale	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/30/2024

Weaver, Crystal, EMNRD

From: DeLaRosa, Dana <Dana.DeLaRosa@dvn.com>
Sent: Thursday, March 22, 2018 3:43 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Tucker, Shelly
Cc: Shoemaker, Mike; Fulks, Brett
Subject: RE: Cotton Draw Unit 117H_13BBLS Oil_3.11.2018
Attachments: Cotton Draw Unit 117H_13BBLS Oil _Initial C-141_3.11.2018.doc; Cotton Draw Unit 117H_13BBLS Oil_3.11.2018_GIS Image.pdf

Good Afternoon Again.....

Now lets that try that with attachments.

Thank you,

Dana DeLaRosa

Field Admin Support
Production
B-Schedule

Devon Energy Corporation
PO Box 250
Artesia, NM 88211
575 746 5594



From: DeLaRosa, Dana
Sent: Thursday, March 22, 2018 3:34 PM
To: 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; 'Weaver, Crystal, EMNRD' <Crystal.Weaver@state.nm.us>; 'Tucker, Shelly' <stucker@blm.gov>
Cc: Shoemaker, Mike <Mike.Shoemaker@dvn.com>; Fulks, Brett <Brett.Fulks@dvn.com>
Subject: RE: Cotton Draw Unit 117H_13BBLS Oil_3.11.2018

Good Afternoon,

I missed adding Shelly Tucker to the distribution list. My apologies.

Have a great day!

Dana DeLaRosa

Field Admin Support
Production
B-Schedule

Devon Energy Corporation

PO Box 250
Artesia, NM 88211
575 746 5594



From: DeLaRosa, Dana
Sent: Thursday, March 22, 2018 3:07 PM
To: 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; 'Weaver, Crystal, EMNRD' <Crystal.Weaver@state.nm.us>
Cc: Shoemaker, Mike <Mike.Shoemaker@dm.com>; Fulks, Brett <Brett.Fulks@dm.com>
Subject: Cotton Draw Unit 117H_13BBL Oil_3.11.2018

Good afternoon,

Attached is the C141 and the GIS Image for the 13BBL Oil release that occurred at the Cotton Draw Unit 117H on 3.11.2018. The red dot on the GIS image represents the origin of release.

If you have any questions, feel free to contact me.

Have a great day.

Dana DeLaRosa

Field Admin Support
Production
B-Schedule

Devon Energy Corporation
PO Box 250
Artesia, NM 88211
575 746 5594



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Weaver, Crystal, EMNRD

From: Shoemaker, Mike <Mike.Shoemaker@dvn.com>
Sent: Monday, March 12, 2018 12:21 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker (stucker@blm.gov)
Subject: Cotton Draw Unit 117H (API #30-015-38434)

Good Morning,

Devon had a release occur at 12:24 PM MST on 03/11/18. The incident is described below.

1. Cotton Draw Unit 117H (API #30-015-38434) Release occurred at the Centralized Tank battery located at the Cotton Draw Unit 153H (API # 30-015-38535) location
 - a. The heater dump was plugged up, causing heater to swamp out and releasing fluids onto the location. A portion of the location was affected by the release to the ground and a portion of the location was affected by a misting overspray. All fluids stayed on the location. Approximately 13 bbls of oil was released and none was recovered.

A C-141 will be prepared and submitted with GPS coordinates of the area affected.

If you have any questions please let me know.

Thanks,

Mike Shoemaker
EHS Representative

Devon Energy Corporation
6488 Seven Rivers Highway
Artesia, New Mexico 88210
575-746-5566 Office
575-513-5035 Mobile

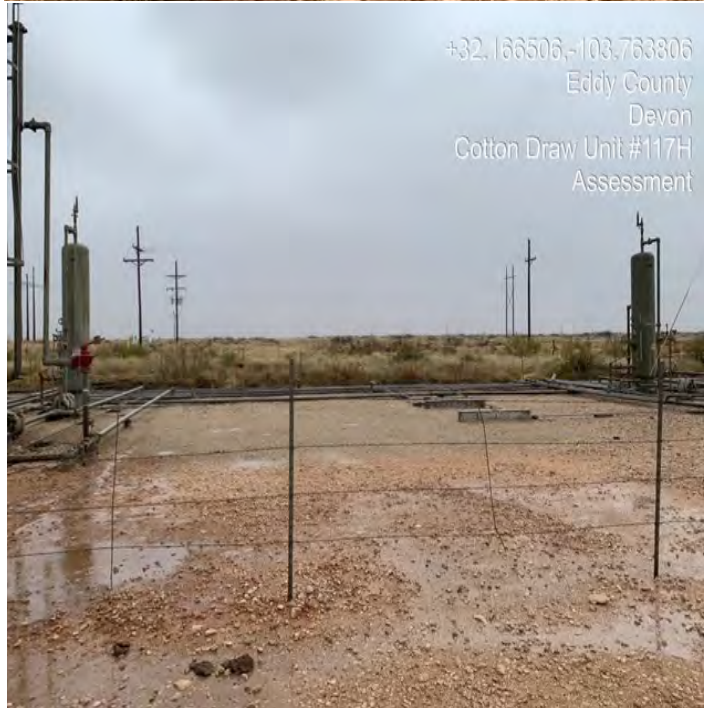


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Appendix D

Photographic Documentation





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 Unit #117H

Work Order: E311116

Job Number: 01058-0007

Received: 11/14/2023

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/27/23

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.

Date Reported: 11/27/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Cotton Draw Unit #117H
Workorder: E311116
Date Received: 11/14/2023 8:32:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/14/2023 8:32:00AM, under the Project Name: Cotton Draw Unit #117H.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit #117H 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
Laboratory Technical Representative
Office: 505-421-LABS(5227)
Cell: 505-320-4759
ljjarboe@envirotech-inc.com

Michelle Golzaes
Client Representative
Office: 505-421-LABS(5227)
Cell: 505-947-8222
mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/27/23 16:18

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-1'	E311116-01A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S1-2'	E311116-02A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S1-3'	E311116-03A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S1-4'	E311116-04A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S2-1'	E311116-05A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S2-2'	E311116-06A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S2-3'	E311116-07A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S2-4'	E311116-08A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S3-1'	E311116-09A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S3-2'	E311116-10A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S3-3'	E311116-11A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S3-4'	E311116-12A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S4-1'	E311116-13A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S4-2'	E311116-14A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S4-3'	E311116-15A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S4-4'	E311116-16A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S5-1'	E311116-17A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S5-2'	E311116-18A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S5-3'	E311116-19A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
S5-4'	E311116-20A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
SW1	E311116-21A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
SW2	E311116-22A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
SW3	E311116-23A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
SW4	E311116-24A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
SW5	E311116-25A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
SW6	E311116-26A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
SW7	E311116-27A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
SW8	E311116-28A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.
BG1	E311116-29A	Soil	11/10/23	11/14/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S1-1'

E311116-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
Surrogate: 4-Bromochlorobenzene-PID	93.5 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.8 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	39.8	25.0	1	11/16/23	11/17/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/17/23	
Surrogate: n-Nonane	107 %	50-200		11/16/23	11/17/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	132	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S1-2'

E311116-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/20/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/20/23	
Toluene	ND	0.0250	1	11/16/23	11/20/23	
o-Xylene	ND	0.0250	1	11/16/23	11/20/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/20/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/20/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.8 %	70-130		11/16/23	11/20/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/20/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.3 %	70-130		11/16/23	11/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	80.9	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S1-3'

E311116-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.8 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	78.2	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S1-4'

E311116-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.5 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.1 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	45.8	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S2-1'

E311116-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.5 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	126	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S2-2'

E311116-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	90.9 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	89.0	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S2-3'

E311116-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.5 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	99.3 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	95.9	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S2-4'

E311116-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.3 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	54.6	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	99.9 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	40.0	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S3-1'

E311116-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.2 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	123	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S3-2'

E311116-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.0 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	98.7 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	92.1	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S3-3'

E311116-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.2 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	96.5	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S3-4'

E311116-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.5 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	155	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	90.8	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	39.9	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S4-1'

E311116-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.9 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.6 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	112	20.0	1	11/17/23	11/17/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S4-2'

E311116-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.4 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	95.6	20.0	1	11/17/23	11/18/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S4-3'

E311116-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.8 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.1 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	91.9	20.0	1	11/17/23	11/18/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S4-4'

E311116-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.5 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.4 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	420	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	239	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	49.6	20.0	1	11/17/23	11/18/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S5-1'

E311116-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.2 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.6 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	116	20.0	1	11/17/23	11/18/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S5-2'

E311116-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.5 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.5 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	39.6	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	92.4	20.0	1	11/17/23	11/18/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S5-3'

E311116-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
Surrogate: 4-Bromochlorobenzene-PID	88.0 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.8 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	ND	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/16/23	11/18/23	
Surrogate: n-Nonane	102 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	93.0	20.0	1	11/17/23	11/18/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

S5-4'

E311116-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Benzene	ND	0.0250	1	11/16/23	11/21/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/21/23	
Toluene	ND	0.0250	1	11/16/23	11/21/23	
o-Xylene	ND	0.0250	1	11/16/23	11/21/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/21/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/21/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	89.9 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2346098
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/21/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	92.7 %	70-130		11/16/23	11/21/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2346103
Diesel Range Organics (C10-C28)	245	25.0	1	11/16/23	11/18/23	
Oil Range Organics (C28-C36)	137	50.0	1	11/16/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	103 %	50-200		11/16/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346108
Chloride	54.0	20.0	1	11/17/23	11/18/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

SW1

E311116-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.1 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	11/17/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346107
Chloride	42.5	20.0	1	11/17/23	11/21/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

SW2

E311116-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.1 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	11/17/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346107
Chloride	36.9	20.0	1	11/17/23	11/21/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

SW3

E311116-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID	98.6 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.6 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/23	11/18/23	
Surrogate: n-Nonane	101 %	50-200		11/17/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346107
Chloride	30.3	20.0	1	11/17/23	11/21/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

SW4

E311116-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.7 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
		98.5 %	50-200	11/17/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346107
Chloride	43.5	20.0	1	11/17/23	11/21/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

SW5

E311116-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.8 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
		110 %	50-200	11/17/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346107
Chloride	26.1	20.0	1	11/17/23	11/21/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

SW6

E311116-26

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.7 %	70-130	11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
		111 %	50-200	11/17/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346107
Chloride	37.4	20.0	1	11/17/23	11/21/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

SW7

E311116-27

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
Surrogate: 4-Bromochlorobenzene-PID	99.3 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	91.1 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/23	11/18/23	
Surrogate: n-Nonane	101 %	50-200		11/17/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346107
Chloride	29.5	20.0	1	11/17/23	11/21/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

SW8

E311116-28

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.0 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		11/17/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346107
Chloride	32.4	20.0	1	11/17/23	11/21/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/27/2023 4:18:53PM

BG1

E311116-29

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Benzene	ND	0.0250	1	11/16/23	11/17/23	
Ethylbenzene	ND	0.0250	1	11/16/23	11/17/23	
Toluene	ND	0.0250	1	11/16/23	11/17/23	
o-Xylene	ND	0.0250	1	11/16/23	11/17/23	
p,m-Xylene	ND	0.0500	1	11/16/23	11/17/23	
Total Xylenes	ND	0.0250	1	11/16/23	11/17/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.8 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2346097
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/16/23	11/17/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		11/16/23	11/17/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2346104
Diesel Range Organics (C10-C28)	ND	25.0	1	11/17/23	11/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	11/17/23	11/18/23	
<i>Surrogate: n-Nonane</i>						
	102 %	50-200		11/17/23	11/18/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2346107
Chloride	40.9	20.0	1	11/17/23	11/21/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 11/27/2023 4:18:53PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346097-BLK1)

Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.6	70-130			

LCS (2346097-BS1)

Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	4.68	0.0250	5.00		93.6	70-130			
Ethylbenzene	4.66	0.0250	5.00		93.3	70-130			
Toluene	4.69	0.0250	5.00		93.8	70-130			
o-Xylene	4.70	0.0250	5.00		94.0	70-130			
p,m-Xylene	9.51	0.0500	10.0		95.1	70-130			
Total Xylenes	14.2	0.0250	15.0		94.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.8	70-130			

Matrix Spike (2346097-MS1)

Source: E311115-22 Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	5.31	0.0250	5.00	ND	106	54-133			
Ethylbenzene	5.25	0.0250	5.00	ND	105	61-133			
Toluene	5.30	0.0250	5.00	ND	106	61-130			
o-Xylene	5.28	0.0250	5.00	ND	106	63-131			
p,m-Xylene	10.7	0.0500	10.0	ND	107	63-131			
Total Xylenes	16.0	0.0250	15.0	ND	107	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.7	70-130			

Matrix Spike Dup (2346097-MSD1)

Source: E311115-22 Prepared: 11/16/23 Analyzed: 11/17/23

Benzene	5.21	0.0250	5.00	ND	104	54-133	1.82	20	
Ethylbenzene	5.16	0.0250	5.00	ND	103	61-133	1.81	20	
Toluene	5.19	0.0250	5.00	ND	104	61-130	2.07	20	
o-Xylene	5.18	0.0250	5.00	ND	104	63-131	1.91	20	
p,m-Xylene	10.5	0.0500	10.0	ND	105	63-131	2.03	20	
Total Xylenes	15.7	0.0250	15.0	ND	104	63-131	1.99	20	
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/27/2023 4:18:53PM

Volatile Organics by EPA 8021B

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 (2346098-BLK1)

Prepared: 11/16/23 Analyzed: 11/20/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			

LCS (2346098-BS1)

Prepared: 11/16/23 Analyzed: 11/20/23

Benzene	4.27	0.0250	5.00		85.3	70-130			
Ethylbenzene	4.41	0.0250	5.00		88.2	70-130			
Toluene	4.49	0.0250	5.00		89.9	70-130			
o-Xylene	4.55	0.0250	5.00		91.1	70-130			
p,m-Xylene	9.13	0.0500	10.0		91.3	70-130			
Total Xylenes	13.7	0.0250	15.0		91.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			

Matrix Spike (2346098-MS1)

Source: E311116-02

Prepared: 11/16/23 Analyzed: 11/27/23

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.85	0.0250	5.00	ND	96.9	61-133			
Toluene	5.04	0.0250	5.00	ND	101	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131			
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	99.9	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.27		8.00		90.9	70-130			

Matrix Spike Dup (2346098-MSD1)

Source: E311116-02

Prepared: 11/16/23 Analyzed: 11/27/23

Benzene	5.03	0.0250	5.00	ND	101	54-133	0.176	20	
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133	0.140	20	
Toluene	5.03	0.0250	5.00	ND	101	61-130	0.224	20	
o-Xylene	4.94	0.0250	5.00	ND	98.7	63-131	0.346	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.268	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.6	63-131	0.294	20	
Surrogate: 4-Bromochlorobenzene-PID	7.21		8.00		90.1	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/27/2023 4:18:53PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2346097-BLK1) Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	70-130			

LCS (2346097-BS2) Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0		99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.47		8.00		93.3	70-130			

Matrix Spike (2346097-MS2) Source: E311115-22 Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	51.1	20.0	50.0	ND	102	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.51		8.00		93.9	70-130			

Matrix Spike Dup (2346097-MSD2) Source: E311115-22 Prepared: 11/16/23 Analyzed: 11/17/23

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.2	70-130	5.09	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		93.0	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 11/27/2023 4:18:53PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

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 (2346098-BLK1) Prepared: 11/16/23 Analyzed: 11/20/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			

LCS (2346098-BS2) Prepared: 11/16/23 Analyzed: 11/20/23

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

Matrix Spike (2346098-MS2) Source: E311116-02 Prepared: 11/16/23 Analyzed: 11/20/23

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0	ND	85.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		8.00		92.3	70-130			

Matrix Spike Dup (2346098-MSD2) Source: E311116-02 Prepared: 11/16/23 Analyzed: 11/21/23

Gasoline Range Organics (C6-C10)	46.1	20.0	50.0	ND	92.2	70-130	7.34	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/27/2023 4:18:53PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

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

Blank (2346103-BLK1)					Prepared: 11/16/23 Analyzed: 11/17/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.0		50.0		110	50-200			

LCS (2346103-BS1)					Prepared: 11/16/23 Analyzed: 11/17/23				
Diesel Range Organics (C10-C28)	286	25.0	250		115	38-132			
Surrogate: n-Nonane	56.5		50.0		113	50-200			

Matrix Spike (2346103-MS1)					Source: E311116-05		Prepared: 11/16/23 Analyzed: 11/17/23		
Diesel Range Organics (C10-C28)	314	25.0	250	ND	126	38-132			
Surrogate: n-Nonane	54.6		50.0		109	50-200			

Matrix Spike Dup (2346103-MSD1)					Source: E311116-05		Prepared: 11/16/23 Analyzed: 11/17/23		
Diesel Range Organics (C10-C28)	288	25.0	250	ND	115	38-132	8.50	20	
Surrogate: n-Nonane	55.2		50.0		110	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/27/2023 4:18:53PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2346104-BLK1)					Prepared: 11/17/23 Analyzed: 11/18/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	50-200			

LCS (2346104-BS1)					Prepared: 11/17/23 Analyzed: 11/18/23				
Diesel Range Organics (C10-C28)	259	25.0	250		104	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			

Matrix Spike (2346104-MS1)					Source: E311115-25		Prepared: 11/17/23 Analyzed: 11/18/23		
Diesel Range Organics (C10-C28)	279	25.0	250	ND	112	38-132			
Surrogate: n-Nonane	52.4		50.0		105	50-200			

Matrix Spike Dup (2346104-MSD1)					Source: E311115-25		Prepared: 11/17/23 Analyzed: 11/18/23		
Diesel Range Organics (C10-C28)	289	25.0	250	ND	116	38-132	3.54	20	
Surrogate: n-Nonane	52.7		50.0		105	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/27/2023 4:18:53PM

Anions by EPA 300.0/9056A

Analyst: BA

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

Blank (2346107-BLK1)					Prepared: 11/17/23 Analyzed: 11/20/23				
Chloride	ND	20.0							
LCS (2346107-BS1)					Prepared: 11/17/23 Analyzed: 11/20/23				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2346107-MS1)					Source: E311115-23		Prepared: 11/17/23 Analyzed: 11/20/23		
Chloride	300	20.0	250	44.4	102	80-120			
Matrix Spike Dup (2346107-MSD1)					Source: E311115-23		Prepared: 11/17/23 Analyzed: 11/20/23		
Chloride	301	20.0	250	44.4	103	80-120	0.550	20	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/27/2023 4:18:53PM

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 (2346108-BLK1)					Prepared: 11/17/23 Analyzed: 11/17/23				
Chloride	ND	20.0							
LCS (2346108-BS1)					Prepared: 11/17/23 Analyzed: 11/17/23				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2346108-MS1)					Source: E311116-02		Prepared: 11/17/23 Analyzed: 11/17/23		
Chloride	337	20.0	250	80.9	102	80-120			
Matrix Spike Dup (2346108-MSD1)					Source: E311116-02		Prepared: 11/17/23 Analyzed: 11/17/23		
Chloride	332	20.0	250	80.9	101	80-120	1.41	20	

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/27/23 16:18

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



Project Information

Chain of Custody

Page 1 of 3

Client: Pima Environmental Services Project: Cotton Draw Well #117 # Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Devon Address: City, State, Zip: Phone: Email: Pima Project # 282					Lab Use Only Lab WO# E311116 Job Number 01058-0007 Analysis and Method					TAT 1D 2D 3D Standard				EPA Program CWA SDWA	
														RCRA						
														State NM CO UT AZ TX						
														NM CO UT AZ TX						
														Remarks						
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						
1:00	11/10	S		S1-1'	1								X							
1:09				S1-2'	2															
1:13				S1-3'	3															
1:17				S1-4'	4															
1:18				S2-1'	5															
1:19				S2-2'	6															
1:21				S2-3'	7															
1:25				S2-4'	8															
1:33				S3-1'	9															
1:39				S3-2'	10															
Additional Instructions: B#21146174																				
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 Received on ice: N								
Nurime Adams						M. Bailey		11-13-23		1:50										
M. Bailey		11-13-23		1:15		Aden M. Sosa		11-13-23		1:30		T1 T2 T3								
Aden M. Sosa		11-13-23		2:40		Montre		11/14/23		8:32		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

Page 2 of 3

Client: Pima Environmental Services Project: <u>Cotton Draw Unit #117H</u> Project Manager: <u>Tom Bynum</u> Address: <u>5614 N. Lovington Hwy.</u> City, State, Zip: <u>Hobbs, NM, 88240</u> Phone: <u>580-748-1613</u> Email: <u>tom@pimaoil.com</u> Report due by:					Bill To Attention: <u>Peyor</u> Address: City, State, Zip Phone: Email: Pima Project # <u>282</u>					Lab Use Only Lab WO# <u>E311146</u> Job Number <u>01058-0007</u> Analysis and Method					TAT 1D 2D 3D Standard				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks						
1:45	11/10	S		53-3'	11							X								
1:51				53-4'	12															
1:55				54-1'	13															
2:03				54-2'	14															
2:11				54-3'	15															
2:13				54-4'	16															
2:17				55-1'	17															
2:19				55-2'	18															
2:25				55-3'	19															
2:31				55-4'	20															
Additional Instructions: <u>B# 21146174</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>Y / N</u>												
<u>Carime Adams</u> <u>11-13-23</u>		<u>11-13-23</u>	<u>1715</u>	<u>Michelle Cough</u> <u>11-13-23</u>		<u>11-13-23</u>	<u>1830</u>	T1 T2 T3												
<u>Andrea</u> <u>11-13-23</u>		<u>11-13-23</u>	<u>2400</u>	<u>Michelle</u> <u>11-14-23</u>		<u>11-14-23</u>	<u>8:32</u>	AVG Temp °C <u>4</u>												
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA								
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				


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Project Information

Chain of Custody

Page 3 of 3

Client: Pima Environmental Services Project: <u>Cotton Draw Unit #117H</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Dexon</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>282</u>					Lab Use Only Lab WO# <u>E311116</u> Job Number <u>01058-0007</u> Analysis and Method						TAT 1D <input type="checkbox"/> 2D <input type="checkbox"/> 3D <input type="checkbox"/> Standard <input checked="" type="checkbox"/>				EPA Program CWA <input type="checkbox"/> SDWA <input type="checkbox"/>	
										RCRA				State NM <input type="checkbox"/> CO <input type="checkbox"/> UT <input type="checkbox"/> AZ <input type="checkbox"/> TX <input type="checkbox"/>		Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BDOC NM	BDOC TX								
2:39	11/10	S		SW1	21							X									
2:42				SW2	22																
2:49				SW3	23																
2:51				SW4	24																
2:55				SW5	25																
3:06				SW6	26																
3:11				SW7	27																
3:13				SW8	28																
3:21				BG1	29																
Additional Instructions: <u>B# 21146174</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)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N									
Karime Adame						Michelle Gayle		11-13-23		1500											
Michelle Gayle		11-13-23		1715		Andrew N. 300		11-13-23		1930		T1 T2 T3									
Andrew N. 300		11-13-23		2400		[Signature]		11/14/23		8:32		AVG Temp °C <u>4</u>									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other												Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA									
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																					


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Envirotech Analytical Laboratory

Printed: 11/14/2023 8:43:14AM

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:	11/14/23 08:32	Work Order ID:	E311116
Phone:	(575) 631-6977	Date Logged In:	11/14/23 08:32	Logged In By:	Jordan Montano
Email:	tom@pimaoil.com	Due Date:	11/20/23 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

Sampled by not provided on COC or samples.

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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit #117H

Work Order: E312052

Job Number: 01058-0007

Received: 12/8/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
12/13/23

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.

Date Reported: 12/13/23

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Cotton Draw Unit #117H
Workorder: E312052
Date Received: 12/8/2023 1:00:00PM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 12/8/2023 1:00:00PM, under the Project Name: Cotton Draw Unit #117H.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit #117H 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
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labadmin@envirotech-inc.com

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/13/23 15:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S3-5'	E312052-01A	Soil	12/06/23	12/08/23	Glass Jar, 2 oz.
S4-5'	E312052-02A	Soil	12/06/23	12/08/23	Glass Jar, 2 oz.
S5-5'	E312052-03A	Soil	12/06/23	12/08/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/13/2023 3:19:28PM

S3-5'

E312052-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350013
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
Surrogate: 4-Bromochlorobenzene-PID	96.8 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350013
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.1 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350029
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/12/23	
Surrogate: n-Nonane	82.5 %	50-200		12/12/23	12/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2350011
Chloride	25.2	20.0	1	12/11/23	12/12/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/13/2023 3:19:28PM

S4-5'

E312052-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RAS		Batch: 2350013	
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.1 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	89.4 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: RAS		Batch: 2350029	
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/12/23	
<i>Surrogate: n-Nonane</i>	79.2 %	50-200		12/12/23	12/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2350011	
Chloride	58.8	20.0	1	12/11/23	12/12/23	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
12/13/2023 3:19:28PM

S5-5'

E312052-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350013
Benzene	ND	0.0250	1	12/11/23	12/11/23	
Ethylbenzene	ND	0.0250	1	12/11/23	12/11/23	
Toluene	ND	0.0250	1	12/11/23	12/11/23	
o-Xylene	ND	0.0250	1	12/11/23	12/11/23	
p,m-Xylene	ND	0.0500	1	12/11/23	12/11/23	
Total Xylenes	ND	0.0250	1	12/11/23	12/11/23	
Surrogate: 4-Bromochlorobenzene-PID	95.8 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350013
Gasoline Range Organics (C6-C10)	ND	20.0	1	12/11/23	12/11/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	89.5 %	70-130		12/11/23	12/11/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2350029
Diesel Range Organics (C10-C28)	ND	25.0	1	12/12/23	12/12/23	
Oil Range Organics (C28-C36)	ND	50.0	1	12/12/23	12/12/23	
Surrogate: n-Nonane	79.2 %	50-200		12/12/23	12/12/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2350011
Chloride	39.1	20.0	1	12/11/23	12/12/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/13/2023 3:19:28PM

Volatile Organics by EPA 8021B

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 (2350013-BLK1)

Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.7	70-130			

LCS (2350013-BS1)

Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	4.43	0.0250	5.00		88.6	70-130			
Ethylbenzene	4.59	0.0250	5.00		91.7	70-130			
Toluene	4.67	0.0250	5.00		93.4	70-130			
o-Xylene	4.72	0.0250	5.00		94.5	70-130			
p,m-Xylene	9.49	0.0500	10.0		94.9	70-130			
Total Xylenes	14.2	0.0250	15.0		94.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.61		8.00		95.1	70-130			

Matrix Spike (2350013-MS1)

Source: E312061-05

Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	4.51	0.0250	5.00	ND	90.3	54-133			
Ethylbenzene	4.69	0.0250	5.00	ND	93.9	61-133			
Toluene	4.77	0.0250	5.00	ND	95.5	61-130			
o-Xylene	4.84	0.0250	5.00	ND	96.7	63-131			
p,m-Xylene	9.71	0.0500	10.0	ND	97.1	63-131			
Total Xylenes	14.5	0.0250	15.0	ND	97.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.8	70-130			

Matrix Spike Dup (2350013-MSD1)

Source: E312061-05

Prepared: 12/11/23 Analyzed: 12/11/23

Benzene	4.43	0.0250	5.00	ND	88.6	54-133	1.92	20	
Ethylbenzene	4.59	0.0250	5.00	ND	91.8	61-133	2.26	20	
Toluene	4.67	0.0250	5.00	ND	93.5	61-130	2.08	20	
o-Xylene	4.75	0.0250	5.00	ND	95.1	63-131	1.74	20	
p,m-Xylene	9.50	0.0500	10.0	ND	95.0	63-131	2.20	20	
Total Xylenes	14.2	0.0250	15.0	ND	95.0	63-131	2.05	20	
Surrogate: 4-Bromochlorobenzene-PID	7.74		8.00		96.8	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/13/2023 3:19:28PM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2350013-BLK1) Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.01		8.00		87.6	70-130			

LCS (2350013-BS2) Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	43.1	20.0	50.0		86.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.15		8.00		89.4	70-130			

Matrix Spike (2350013-MS2) Source: E312061-05 Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	43.6	20.0	50.0	ND	87.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.05		8.00		88.2	70-130			

Matrix Spike Dup (2350013-MSD2) Source: E312061-05 Prepared: 12/11/23 Analyzed: 12/11/23

Gasoline Range Organics (C6-C10)	41.8	20.0	50.0	ND	83.5	70-130	4.31	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.16		8.00		89.5	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/13/2023 3:19:28PM

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 (2350029-BLK1)					Prepared: 12/12/23 Analyzed: 12/12/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	41.9		50.0		83.9	50-200			

LCS (2350029-BS1)					Prepared: 12/12/23 Analyzed: 12/12/23				
Diesel Range Organics (C10-C28)	210	25.0	250		84.0	38-132			
Surrogate: n-Nonane	42.7		50.0		85.3	50-200			

Matrix Spike (2350029-MS1)					Source: E312044-26		Prepared: 12/12/23 Analyzed: 12/12/23		
Diesel Range Organics (C10-C28)	229	25.0	250	ND	91.6	38-132			
Surrogate: n-Nonane	44.5		50.0		89.0	50-200			

Matrix Spike Dup (2350029-MSD1)					Source: E312044-26		Prepared: 12/12/23 Analyzed: 12/12/23		
Diesel Range Organics (C10-C28)	246	25.0	250	ND	98.5	38-132	7.30	20	
Surrogate: n-Nonane	45.3		50.0		90.5	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/13/2023 3:19:28PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2350011-BLK1)					Prepared: 12/11/23 Analyzed: 12/12/23				
Chloride	ND	20.0							
LCS (2350011-BS1)					Prepared: 12/11/23 Analyzed: 12/12/23				
Chloride	245	20.0	250		98.1	90-110			
Matrix Spike (2350011-MS1)					Source: E312050-03		Prepared: 12/11/23 Analyzed: 12/12/23		
Chloride	353	200	250	ND	141	80-120			M5
Matrix Spike Dup (2350011-MSD1)					Source: E312050-03		Prepared: 12/11/23 Analyzed: 12/12/23		
Chloride	359	200	250	ND	144	80-120	1.64	20	M5

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	12/13/23 15:19

- M5 The analysis of the MS sample required a dilution such that the spike recovery calculation does not provide useful information. The accociated 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
- DNR Did not react with the addition of acid or base.

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

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





Envirotech Analytical Laboratory

Printed: 12/11/2023 12:40:03PM

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:	12/08/23 13:00	Work Order ID:	E312052
Phone:	(575) 631-6977	Date Logged In:	12/08/23 14:00	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	12/18/23 17:00 (6 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

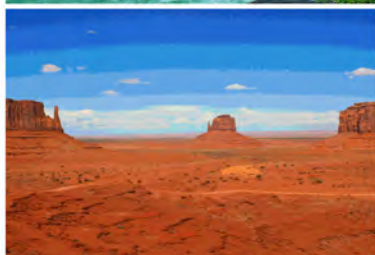
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Cotton Draw Unit #117H

Work Order: E408060

Job Number: 01058-0007

Received: 8/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/13/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/13/24



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Cotton Draw Unit #117H
Workorder: E408060
Date Received: 8/7/2024 10:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/7/2024 10:30:00AM, under the Project Name: Cotton Draw Unit #117H.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit #117H 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/13/24 12:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-1'	E408060-01A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S1-2'	E408060-02A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S1-3'	E408060-03A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S1-4'	E408060-04A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S2-1'	E408060-05A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S2-2'	E408060-06A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S2-3'	E408060-07A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S2-4'	E408060-08A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S3-1'	E408060-09A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S3-2'	E408060-10A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S3-3'	E408060-11A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S3-4'	E408060-12A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S3-5'	E408060-13A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S4-1'	E408060-14A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S4-2'	E408060-15A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S4-3'	E408060-16A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S4-4'	E408060-17A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S4-5'	E408060-18A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S5-1'	E408060-19A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S5-2'	E408060-20A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 12:51:45PM

S1-1'
E408060-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
Surrogate: 4-Bromochlorobenzene-PID	90.2 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
Surrogate: n-Nonane	88.7 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	1700	20.0	1	08/08/24	08/09/24	

Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S1-2'

E408060-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.2 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	1410	50.0	2	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	1050	100	2	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	105 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S1-3'

E408060-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432076
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.0 %	70-130	08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432076
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2432069
Diesel Range Organics (C10-C28)	36.9	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
		99.0 %	50-200	08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432108
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S1-4'

E408060-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.8 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	194	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	143	50.0	1	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	101 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 8/13/2024 12:51:45PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S2-1'

E408060-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
Surrogate: 4-Bromochlorobenzene-PID	90.9 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	105 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
Surrogate: n-Nonane	99.9 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	1670	20.0	1	08/08/24	08/09/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S2-2'

E408060-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.4 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	1100	50.0	2	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	876	100	2	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	99.8 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S2-3'

E408060-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.0 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	94.0 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 8/13/2024 12:51:45PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S2-4'

E408060-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.4 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	45.6	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	95.5 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S3-1'

E408060-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432076
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.4 %	70-130	08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432076
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		105 %	70-130	08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2432069
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
		96.7 %	50-200	08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432108
Chloride	141	20.0	1	08/08/24	08/09/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 8/13/2024 12:51:45PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S3-2'

E408060-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.6 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	937	50.0	2	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	829	100	2	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S3-3'

E408060-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432076
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.1 %	70-130	08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432076
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2432069
Diesel Range Organics (C10-C28)	37.1	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
		85.1 %	50-200	08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432108
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S3-4'

E408060-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	90.7 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	99.0 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 8/13/2024 12:51:45PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S3-5'

E408060-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
Surrogate: 4-Bromochlorobenzene-PID	91.0 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	104 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
Surrogate: n-Nonane	99.4 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S4-1'

E408060-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.1 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/13/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/13/24	
<i>Surrogate: n-Nonane</i>						
	95.5 %	50-200		08/07/24	08/13/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	104	20.0	1	08/08/24	08/09/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 8/13/2024 12:51:45PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4-2'

E408060-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
Surrogate: 4-Bromochlorobenzene-PID	90.6 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
Surrogate: 1-Chloro-4-fluorobenzene-FID	103 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	923	50.0	2	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	776	100	2	08/07/24	08/10/24	
Surrogate: n-Nonane	101 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S4-3'

E408060-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432076
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	93.2 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432076
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2432069
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	99.9 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432108
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 8/13/2024 12:51:45PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S4-4'

E408060-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.9 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	100 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S4-5'

E408060-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432076
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	92.6 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2432076
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2432069
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	95.9 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2432108
Chloride	ND	20.0	1	08/08/24	08/09/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 12:51:45PM

S5-1'

E408060-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.8 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	78.2 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	150	20.0	1	08/08/24	08/09/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 8/13/2024 12:51:45PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

S5-2'

E408060-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Benzene	ND	0.0250	1	08/07/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/07/24	08/09/24	
Toluene	ND	0.0250	1	08/07/24	08/09/24	
o-Xylene	ND	0.0250	1	08/07/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/07/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/07/24	08/09/24	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	91.0 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2432076	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/07/24	08/09/24	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		08/07/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KM		Batch: 2432069	
Diesel Range Organics (C10-C28)	439	50.0	2	08/07/24	08/10/24	
Oil Range Organics (C28-C36)	363	100	2	08/07/24	08/10/24	
<i>Surrogate: n-Nonane</i>						
	97.6 %	50-200		08/07/24	08/10/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2432108	
Chloride	ND	20.0	1	08/08/24	08/09/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 12:51:45PM

Volatile Organics by EPA 8021B

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 (2432076-BLK1)

Prepared: 08/07/24 Analyzed: 08/09/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.14		8.00		89.3	70-130			

LCS (2432076-BS1)

Prepared: 08/07/24 Analyzed: 08/09/24

Benzene	4.73	0.0250	5.00		94.7	70-130			
Ethylbenzene	4.49	0.0250	5.00		89.7	70-130			
Toluene	4.68	0.0250	5.00		93.6	70-130			
o-Xylene	4.56	0.0250	5.00		91.1	70-130			
p,m-Xylene	9.20	0.0500	10.0		92.0	70-130			
Total Xylenes	13.8	0.0250	15.0		91.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.25		8.00		90.6	70-130			

Matrix Spike (2432076-MS1)

Source: E408060-11

Prepared: 08/07/24 Analyzed: 08/09/24

Benzene	4.63	0.0250	5.00	ND	92.5	54-133			
Ethylbenzene	4.39	0.0250	5.00	ND	87.9	61-133			
Toluene	4.59	0.0250	5.00	ND	91.7	61-130			
o-Xylene	4.47	0.0250	5.00	ND	89.5	63-131			
p,m-Xylene	9.03	0.0500	10.0	ND	90.3	63-131			
Total Xylenes	13.5	0.0250	15.0	ND	90.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.36		8.00		92.0	70-130			

Matrix Spike Dup (2432076-MSD1)

Source: E408060-11

Prepared: 08/07/24 Analyzed: 08/09/24

Benzene	5.20	0.0250	5.00	ND	104	54-133	11.7	20	
Ethylbenzene	4.94	0.0250	5.00	ND	98.8	61-133	11.7	20	
Toluene	5.16	0.0250	5.00	ND	103	61-130	11.7	20	
o-Xylene	5.05	0.0250	5.00	ND	101	63-131	12.1	20	
p,m-Xylene	10.2	0.0500	10.0	ND	102	63-131	11.7	20	
Total Xylenes	15.2	0.0250	15.0	ND	101	63-131	11.8	20	
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.2	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 12:51:45PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2432076-BLK1) Prepared: 08/07/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.41		8.00		105	70-130			

LCS (2432076-BS2) Prepared: 08/07/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0		94.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		8.00		107	70-130			

Matrix Spike (2432076-MS2) Source: E408060-11 Prepared: 08/07/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.2	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		106	70-130			

Matrix Spike Dup (2432076-MSD2) Source: E408060-11 Prepared: 08/07/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	49.3	20.0	50.0	ND	98.7	70-130	5.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.47		8.00		106	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 12:51:45PM

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 (2432069-BLK1) Prepared: 08/07/24 Analyzed: 08/10/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.6		50.0		109	50-200			

LCS (2432069-BS1) Prepared: 08/07/24 Analyzed: 08/10/24

Diesel Range Organics (C10-C28)	250	25.0	250		100	38-132			
Surrogate: n-Nonane	54.0		50.0		108	50-200			

Matrix Spike (2432069-MS1) Source: E408060-08 Prepared: 08/07/24 Analyzed: 08/10/24

Diesel Range Organics (C10-C28)	298	25.0	250	45.6	101	38-132			
Surrogate: n-Nonane	55.3		50.0		111	50-200			

Matrix Spike Dup (2432069-MSD1) Source: E408060-08 Prepared: 08/07/24 Analyzed: 08/10/24

Diesel Range Organics (C10-C28)	306	25.0	250	45.6	104	38-132	2.73	20	
Surrogate: n-Nonane	53.6		50.0		107	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 12:51:45PM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2432108-BLK1)					Prepared: 08/08/24 Analyzed: 08/09/24				
Chloride	ND	20.0							
LCS (2432108-BS1)					Prepared: 08/08/24 Analyzed: 08/09/24				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2432108-MS1)					Source: E408060-10		Prepared: 08/08/24 Analyzed: 08/09/24		
Chloride	259	20.0	250	ND	104	80-120			
Matrix Spike Dup (2432108-MSD1)					Source: E408060-10		Prepared: 08/08/24 Analyzed: 08/09/24		
Chloride	259	20.0	250	ND	104	80-120	0.0802	20	

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/13/24 12:51

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Project Information

Chain of Custody

Page 1 of 4

Client: Pima Environmental Services Project: Cotton Draw Unit 1174 Project Manager: Gio Gomez Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 806-782-1151 Email: gio@pimaoil.com Report due by:					Bill To Attention: Devon Address: City, State, Zip: Phone: Email: Pima Project # 1-282					Lab Use Only Lab WO# E 408060 Job Number 01058.0007					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA	
Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BDOC NM BDOC TX										State NM CO UT AZ TX X				RCRA						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
10:11	8/1	S		S1-1'	1															
10:20				S1-2'	2															
10:26				S1-3'	3															
10:33				S1-4'	4															
10:38				S2-1'	5															
10:46				S2-2'	6															
10:53				S2-3'	7															
10:59				S2-4'	8															
11:17				S3-1'	9															
11:26				S3-2'	10															
Additional Instructions: B# 21146174																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.										
Relinquished by: (Signature) Karime Adame Date 8/6/24 Time 1417										Received by: (Signature) Michelle Gonzales Date 8-6-24 Time 1417										
Relinquished by: (Signature) Michelle Gonzales Date 8-6-24 Time 1705										Received by: (Signature) J.H. Date 8-6-24 Time 1705										
Relinquished by: (Signature) J.H. Date 8-6-24 Time 2330										Received by: (Signature) Raia Schumacher Date 8/7/24 Time 10:30										
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

Page 2 of 4

Client: Pima Environmental Services Project: Cotton Draw Unit 117 # Project Manager: Gio Gomez Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 806-782-1151 Email: gio@pimaoil.com Report due by:					Bill To Attention: Devon Address: City, State, Zip: Phone: Email: Pima Project # 1-282					Lab Use Only Lab WO# E 4080600 Job Number 010580007					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA	
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										State NM CO UT AZ TX				RCRA						
Remarks																				

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
11:33	8/1	S		S3-3'	11
11:40				S3-4'	12
11:47				S3-5'	13
11:56				S4-1'	14
11:59				S4-2'	15
12:07				S4-3'	16
12:23				S4-4'	17
12:34				S4-5'	18
12:46				S5-1'	19
12:53				S5-2'	20

Additional Instructions: B# 21146174

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

Sampled by: _____

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

Relinquished by: (Signature) Karime Adame	Date 8/6/24	Time 2:17	Received by: (Signature) Michelle Gonzales	Date 8-6-24	Time 1417
Relinquished by: (Signature) Michelle Gonzales	Date 8-6-24	Time 1705	Received by: (Signature) J.H.	Date 8-6-24	Time 1705
Relinquished by: (Signature) J.H.	Date 8-6-24	Time 2330	Received by: (Signature) Kara Lehman	Date 8/7/24	Time 10:30

Lab Use Only
Received on ice: ☒ Y / ☐ N

T1 _____ T2 _____ T3 _____

AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 8/7/2024 10:44:16AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	08/07/24 10:30	Work Order ID:	E408060
Phone:	(575) 631-6977	Date Logged In:	08/07/24 10:32	Logged In By:	Raina Schwanz
Email:	tom@pimaoil.com	Due Date:	08/13/24 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? No
5. Were all samples received within holding time? Yes

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

Carrier: Courier**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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction**Comments/Resolution**

No. of containers not marked on COC by client. Project: Cotton Draw Unit 117H split between workorders E408060 & E408061 due to large sample volume.

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 Unit #117H

Work Order: E408061

Job Number: 01058-0007

Received: 8/7/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
8/13/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 8/13/24



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Cotton Draw Unit #117H
Workorder: E408061
Date Received: 8/7/2024 10:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/7/2024 10:30:00AM, under the Project Name: Cotton Draw Unit #117H.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit #117H 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
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Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 08/13/24 08:38
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
S5-3'	E408061-01A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S5-4'	E408061-02A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
S5-5'	E408061-03A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
SW1 (0-4') Comp.	E408061-04A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
SW2 (0-4') Comp.	E408061-05A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
SW3 (0-4') Comp.	E408061-06A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
SW4 (0-4') Comp.	E408061-07A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
SW5 (0-4') Comp.	E408061-08A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
SW6 (0-4') Comp.	E408061-09A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
SW7 (0-4') Comp.	E408061-10A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
SW8 (0-4') Comp.	E408061-11A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.
BG1-1'	E408061-12A	Soil	08/01/24	08/07/24	Glass Jar, 2 oz.



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 8:38:24AM

S5-3'

E408061-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
<i>Surrogate: Bromofluorobenzene</i>		96.1 %	70-130	08/08/24	08/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	08/08/24	08/09/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
<i>Surrogate: Bromofluorobenzene</i>		96.1 %	70-130	08/08/24	08/09/24	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.9 %	70-130	08/08/24	08/09/24	
<i>Surrogate: Toluene-d8</i>		105 %	70-130	08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/08/24	
<i>Surrogate: n-Nonane</i>		99.4 %	50-200	08/07/24	08/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432096
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 8:38:24AM

S5-4'

E408061-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	98.8 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	104 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	98.8 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	97.5 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	104 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/08/24	
Surrogate: n-Nonane	98.5 %	50-200		08/07/24	08/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432096
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 8:38:24AM

S5-5'

E408061-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	103 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	96.7 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	103 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/08/24	
Surrogate: n-Nonane	102 %	50-200		08/07/24	08/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432096
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 8:38:24AM

SW1 (0-4') Comp.

E408061-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	99.4 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	99.4 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	101 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/08/24	
Surrogate: n-Nonane	103 %	50-200		08/07/24	08/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432096
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 8:38:24AM

SW2 (0-4') Comp.

E408061-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.7 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	97.6 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/08/24	
Surrogate: n-Nonane	106 %	50-200		08/07/24	08/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432096
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 8/13/2024 8:38:24AM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

SW3 (0-4') Comp.
E408061-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg	Analyst: IY		Batch: 2432090	
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: IY		Batch: 2432090	
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.8 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2432073	
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/08/24	
Surrogate: n-Nonane	106 %	50-200		08/07/24	08/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: WF		Batch: 2432096	
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 8:38:24AM

SW4 (0-4') Comp.

E408061-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.6 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/08/24	
Surrogate: n-Nonane	107 %	50-200		08/07/24	08/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432096
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 8:38:24AM

SW5 (0-4') Comp.

E408061-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.5 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/08/24	
Surrogate: n-Nonane	107 %	50-200		08/07/24	08/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432096
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 8:38:24AM

SW6 (0-4') Comp.

E408061-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	106 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	96.4 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	100 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	106 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/08/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/08/24	
Surrogate: n-Nonane	104 %	50-200		08/07/24	08/08/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432096
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 8:38:24AM

SW7 (0-4') Comp.

E408061-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.0 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
Surrogate: n-Nonane	104 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432096
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 8:38:24AM

SW8 (0-4') Comp.

E408061-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	97.9 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	98.0 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
Surrogate: n-Nonane	104 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432096
Chloride	ND	20.0	1	08/08/24	08/08/24	



Sample Data

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

Project Name: Cotton Draw Unit #117H
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
8/13/2024 8:38:24AM

BG1-1'

E408061-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Benzene	ND	0.0250	1	08/08/24	08/09/24	
Ethylbenzene	ND	0.0250	1	08/08/24	08/09/24	
Toluene	ND	0.0250	1	08/08/24	08/09/24	
o-Xylene	ND	0.0250	1	08/08/24	08/09/24	
p,m-Xylene	ND	0.0500	1	08/08/24	08/09/24	
Total Xylenes	ND	0.0250	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2432090
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/08/24	08/09/24	
Surrogate: Bromofluorobenzene	98.4 %	70-130		08/08/24	08/09/24	
Surrogate: 1,2-Dichloroethane-d4	102 %	70-130		08/08/24	08/09/24	
Surrogate: Toluene-d8	105 %	70-130		08/08/24	08/09/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2432073
Diesel Range Organics (C10-C28)	ND	25.0	1	08/07/24	08/09/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/07/24	08/09/24	
Surrogate: n-Nonane	107 %	50-200		08/07/24	08/09/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2432096
Chloride	ND	20.0	1	08/08/24	08/08/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 8:38:24AM

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 (2432090-BLK1) Prepared: 08/08/24 Analyzed: 08/09/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2432090-BS1) Prepared: 08/08/24 Analyzed: 08/09/24

Benzene	2.55	0.0250	2.50		102	70-130			
Ethylbenzene	2.66	0.0250	2.50		106	70-130			
Toluene	2.67	0.0250	2.50		107	70-130			
o-Xylene	2.57	0.0250	2.50		103	70-130			
p,m-Xylene	5.19	0.0500	5.00		104	70-130			
Total Xylenes	7.76	0.0250	7.50		103	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

Matrix Spike (2432090-MS1) Source: E408061-01 Prepared: 08/08/24 Analyzed: 08/09/24

Benzene	2.40	0.0250	2.50	ND	95.9	48-131			
Ethylbenzene	2.57	0.0250	2.50	ND	103	45-135			
Toluene	2.54	0.0250	2.50	ND	102	48-130			
o-Xylene	2.37	0.0250	2.50	ND	94.8	43-135			
p,m-Xylene	4.77	0.0500	5.00	ND	95.3	43-135			
Total Xylenes	7.14	0.0250	7.50	ND	95.2	43-135			
Surrogate: Bromofluorobenzene	0.475		0.500		95.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.520		0.500		104	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			

Matrix Spike Dup (2432090-MSD1) Source: E408061-01 Prepared: 08/08/24 Analyzed: 08/09/24

Benzene	2.32	0.0250	2.50	ND	93.0	48-131	3.13	23	
Ethylbenzene	2.45	0.0250	2.50	ND	98.1	45-135	4.74	27	
Toluene	2.45	0.0250	2.50	ND	98.1	48-130	3.62	24	
o-Xylene	2.31	0.0250	2.50	ND	92.2	43-135	2.78	27	
p,m-Xylene	4.63	0.0500	5.00	ND	92.6	43-135	2.87	27	
Total Xylenes	6.94	0.0250	7.50	ND	92.5	43-135	2.84	27	
Surrogate: Bromofluorobenzene	0.476		0.500		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.516		0.500		103	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported: 8/13/2024 8:38:24AM
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 (2432090-BLK1) Prepared: 08/08/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.496		0.500		99.2	70-130			
Surrogate: Toluene-d8	0.525		0.500		105	70-130			

LCS (2432090-BS2) Prepared: 08/08/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	52.2	20.0	50.0		104	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		98.9	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			

Matrix Spike (2432090-MS2) Source: E408061-01 Prepared: 08/08/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: Bromofluorobenzene	0.500		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

Matrix Spike Dup (2432090-MSD2) Source: E408061-01 Prepared: 08/08/24 Analyzed: 08/09/24

Gasoline Range Organics (C6-C10)	50.3	20.0	50.0	ND	101	70-130	3.18	20	
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.538		0.500		108	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 8:38:24AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

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 (2432073-BLK1) Prepared: 08/07/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.4		50.0		111	50-200			

LCS (2432073-BS1) Prepared: 08/07/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	249	25.0	250		99.7	38-132			
Surrogate: n-Nonane	56.5		50.0		113	50-200			

Matrix Spike (2432073-MS1) Source: E408061-07 Prepared: 08/07/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	250	25.0	250	ND	99.9	38-132			
Surrogate: n-Nonane	55.9		50.0		112	50-200			

Matrix Spike Dup (2432073-MSD1) Source: E408061-07 Prepared: 08/07/24 Analyzed: 08/08/24

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.7	38-132	0.254	20	
Surrogate: n-Nonane	55.5		50.0		111	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	8/13/2024 8:38:24AM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2432096-BLK1)					Prepared: 08/08/24 Analyzed: 08/08/24				
Chloride	ND	20.0							
LCS (2432096-BS1)					Prepared: 08/08/24 Analyzed: 08/08/24				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2432096-MS1)					Source: E408068-01		Prepared: 08/08/24 Analyzed: 08/08/24		
Chloride	520	20.0	250	273	99.0	80-120			
Matrix Spike Dup (2432096-MSD1)					Source: E408068-01		Prepared: 08/08/24 Analyzed: 08/08/24		
Chloride	526	20.0	250	273	102	80-120	1.20	20	

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

Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Cotton Draw Unit #117H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	08/13/24 08:38

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



Project Information

Chain of Custody

Page 3 of 4

Client: Pima Environmental Services Project: Cotton Draw Unit 117 H Project Manager: Gio Gomez Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 806-782-1151 Email: gio@pimaoil.com Report due by:				Bill To Attention: Devon Address: City, State, Zip: Phone: Email: Pima Project # 1-282				Lab Use Only Lab WO# F 408064 Job Number 01058-0007				TAT 1D 2D 3D Standard X				EPA Program CWA SDWA		
								Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BDOC NM BDOC TX				State NM CO UT AZ TX X				RCRA		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													Remarks
1:17	8/1	S		S5-3'	1													
1:26				S5-4'	2													
1:33				S5-5'	3													
1:39				SW1 (0-4') comp.	4													
1:47				SW2 (0-4') comp.	5													
1:56				SW3 (0-4') comp.	6													
2:09				SW4 (0-4') comp.	7													
2:17				SW5 (0-4') comp.	8													
2:23				SW6 (0-4') comp.	9													
2:30				SW7 (0-4') comp.	10													
Additional Instructions: B# 21146 174																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.						
Relinquished by: (Signature) Karime Adame Date 8/6/24 Time 2:17 Relinquished by: (Signature) Michelle Gonzales Date 8-6-24 Time 1705 Relinquished by: (Signature) D.H. Date 8.6.24 Time 2330												Received by: (Signature) Michelle Gonzales Date 8-6-24 Time 1417 Received by: (Signature) D.H. Date 8-6-24 Time 1705 Received by: (Signature) Karim Juma Date 8/7/24 Time 10:30						
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

Page 4 of 4

Client: Pima Environmental Services				Bill To				Lab Use Only				TAT				EPA Program			
Project: <u>Cotton Draw Unit 117#</u>				Attention: <u>Devon</u>				Lab WO# <u>E 408041</u>				Job Number <u>01058-000</u>				1D 2D 3D Standard			
Project Manager: <u>Gio Gomez</u>				Address:												CWA SDWA			
Address: <u>5614 N. Lovington Hwy.</u>				City, State, Zip												RCRA			
City, State, Zip <u>Hobbs, NM, 88240</u>				Phone:												State			
Phone: <u>806-782-1151</u>				Email:												NM CO UT AZ TX			
Email: <u>gio@pimaoil.com</u>				Pima Project # <u>1-282</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	BGDOC NM	BGDOC TX				
2:35	8/1	S		SW8-(0-4') comp.	11							X					
2:41	1	L		BG1-1'	12							I					

Additional Instructions: B# 21146174

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

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 5 °C on subsequent days.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>Karine Adame</u>	<u>8/6/24</u>	<u>2:17</u>	<u>Michelle Gonzales</u>	<u>8-6-24</u>	<u>1417</u>	
<u>Michelle Gonzales</u>	<u>8-6-24</u>	<u>1705</u>	<u>J.M.</u>	<u>8-6-24</u>	<u>1705</u>	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
<u>J.M.</u>	<u>8-6-24</u>	<u>2330</u>	<u>Raina Lehman</u>	<u>8/7/24</u>	<u>10:30</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 8/7/2024 10:53:29AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	08/07/24 10:30	Work Order ID:	E408061
Phone:	(575) 631-6977	Date Logged In:	08/07/24 10:40	Logged In By:	Raina Schwanz
Email:	tom@pimaoil.com	Due Date:	08/13/24 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? No
5. Were all samples received within holding time? Yes

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

Carrier: CourierComments/Resolution

No. of containers not marked on COC by client. Project: Cotton Draw Unit 117H split between workorders E408060 & E408061 due to large sample volume.

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? No

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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

QUESTIONS

Action 405952

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 405952
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1808251008
Incident Name	NAB1808251008 COTTON DRAW UNIT #117H @ 30-015-38434
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-38434] COTTON DRAW UNIT #117H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	COTTON DRAW UNIT #117H
Date Release Discovered	03/11/2018
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Treating Tower Crude Oil Released: 13 BBL Recovered: 0 BBL Lost: 13 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 405952

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 405952
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 11/22/2024
--	---

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QUESTIONS, Page 3

Action 405952

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 405952
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
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	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<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)	1700
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2460
GRO+DRO (EPA SW-846 Method 8015M)	1410
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	12/23/2024
On what date will (or did) the final sampling or liner inspection occur	08/01/2024
On what date will (or was) the remediation complete(d)	01/23/2025
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	400
What is the estimated volume (in cubic yards) that will be remediated	38

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

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

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QUESTIONS, Page 4

Action 405952

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 405952
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<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>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
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.
<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>	
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: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 11/22/2024
<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 5

Action 405952

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 405952
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 405952

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 405952
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	368267
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/01/2024
What was the (estimated) number of samples that were to be gathered	32
What was the sampling surface area in square feet	1050

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	No
--	----

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CONDITIONS

Action 405952

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 405952
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation plan conditionally approved.	11/25/2024
bhall	OCD will not approved of the proposed excavation dimensions as additional remediation may be required based on remediation confirmation/final sampling analytical results. remediation confirmation/final sampling must meet Table I closure criteria found in 19.15.29 NMAC. Any samples that return results above the closure criteria must be excavated further.	11/25/2024
bhall	Remediation closure/final samples must be 5-point composite samples representative of no more than 200 square feet.	11/25/2024
bhall	Pursuant to 19.15.29.12.D.(1).(a) NMAC, The responsible party must verbally notify the appropriate division district office two business days prior to conducting final sampling. If the division district office does not respond to the notice within the two business days, the responsible party may proceed with final sampling. The responsible party may request a variance from this requirement upon a showing of good cause as determined by the division.	11/25/2024
bhall	In the last rejection (dated 6/24/2024) OCD advised that the questions on the C-141 that require the square footage and cubic yardage that will be reclaimed were both answered 0. In this application these questions were answered 0 again. When the closure report is submitted ensure that these questions reflect how much soil will be reclaimed when the site is no longer reasonably needed for production or subsequent drilling activities. The Digital C-141 guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/ . The explanation of the reclaimed square footages and cubic yardages are located in the remediation plan, remediation closure, and reclamation sections of the guidance document.	11/25/2024
bhall	OCD approves the 60 day timeline in the report. Submit a complete and accurate closure report through the OCD permitting website by 1/31/2025.	11/25/2024