



Pima Environmental Services, LLC
5614 N. Lovington Hwy.
Hobbs, NM 88240
575-964-7740

February 24, 2023

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

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

Re: Site Assessment, Remediation, and Closure Report
Thistle Unit 28 CTB 1
API No. N/A
GPS: Latitude 32.282504, Longitude -103.579757
UL- C, Section 28, Township 23S, Range 33E
Lea County, NM
NMOCD Ref. No. NAPP2231130402

Pima Environmental Services, LLC (Pima) has been contracted by Devon Energy Production Company (Devon) to perform a spill assessment and remediation activities for a produced water release that occurred at the Thistle Unit 28 CTB 1 (Thistle). The initial C-141 was submitted on February 23, 2023 (Appendix C). This incident was assigned Incident ID NAPP2231130402, by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Thistle is located approximately twenty-five (25) miles northwest of Jal, NM. This spill site is in Unit Letter C, Section 28, Township 23S, Range 33E, Latitude 32.282504, Longitude -103.579757, Lea County, NM. Figure 1 references a Location Map.

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

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 400 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is 145 feet BGS. The closest waterway is a Salt Playa located approximately 9.85 miles to the northeast of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29

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

Reference Figure 2 for a Topographic map.

Release Information

NAPP2231130402: On November 16, 2022, a water transfer line developed a pin hole leak causing fluid to be released. The released fluids were calculated to be approximately 3.7 barrels (bbls) of produced water. No fluids were able to be recovered.

Site Assessment and Soil Sampling Results

On November 21, 2022, Pima mobilized personnel to the site to begin collecting soil samples from spill area. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

11-21-22 Soil Sample Results								
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY -THISTLE UNIT 28 CTB 1								
Sample Date: 11/21/22		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	1'	ND	ND	ND	ND	ND	0	3890
	2'	ND	ND	ND	ND	ND	0	3660
	3'	ND	ND	ND	ND	ND	0	302
	4'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	ND	ND	0	3860
	2'	ND	ND	ND	ND	ND	0	4480
	3'	ND	ND	ND	ND	ND	0	307
	4'	ND	ND	ND	ND	ND	0	ND
S-3	1'	ND	ND	ND	ND	ND	0	4070
	2'	ND	ND	ND	ND	ND	0	3850
	3'	ND	ND	ND	ND	ND	0	344
	4'	ND	ND	ND	ND	ND	0	ND
S-4	1'	ND	ND	ND	ND	ND	0	3510
	2'	ND	ND	ND	ND	ND	0	3810
	3'	ND	ND	ND	ND	ND	0	446
	4'	ND	ND	ND	ND	ND	0	ND
S-5	1'	ND	ND	ND	ND	ND	0	3830
	2'	ND	ND	ND	ND	ND	0	3990
	3'	ND	ND	ND	ND	ND	0	310
	4'	ND	ND	ND	ND	ND	0	ND
S-6	1'	ND	ND	ND	ND	ND	0	3700
	2'	ND	ND	ND	ND	ND	0	7720
	3'	ND	ND	ND	ND	ND	0	354
	4'	ND	ND	ND	ND	ND	0	ND
S-7	1'	ND	ND	ND	ND	ND	0	3780
	2'	ND	ND	ND	ND	ND	0	4340
	3'	ND	ND	ND	ND	ND	0	389
	4'	ND	ND	ND	ND	ND	0	ND
SW 1	1'	ND	ND	ND	ND	ND	0	ND
SW 2	1'	ND	ND	ND	ND	ND	0	ND
SW 3	1'	ND	ND	ND	ND	ND	0	ND
SW 4	1'	ND	ND	ND	ND	ND	0	ND
SW 5	1'	ND	ND	ND	ND	ND	0	ND
SW 6	1'	ND	ND	ND	ND	ND	0	ND
SW 7	1'	ND	ND	ND	ND	ND	0	ND
BG 1	6"	ND	ND	ND	ND	ND	0	ND
BG 2	6"	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Remediation Activities

On February 8, 2023, the Devon Construction Department mobilized personnel and equipment to begin immediate remediation activities. They began excavating the area to a depth of 3' BGS. The contaminated soil was hauled to an approved, lined disposal facility and clean backfill material was brought in.

On February 13, 2023, after sending a 48-hour notification (Appendix C), Pima returned to the site to begin collecting confirmation samples. The laboratory results of this sampling event can be found in the following data table.

2-13-23 Confirmation Soil Sample Results								
NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY -THISTLE UNIT 28 CTB 1								
Sample Date: 2/13/23		NM Approved Laboratory Results						
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
CS 1	3'	ND	ND	ND	ND	ND	0	ND
CS 2	3'	ND	ND	ND	ND	ND	0	ND
CS 3	3'	ND	ND	ND	ND	ND	0	ND
CS 4	3'	ND	ND	ND	ND	ND	0	ND
CSW 1	3'	ND	ND	ND	ND	ND	0	ND
CSW 2	3'	ND	ND	ND	ND	ND	0	ND
CSW 3	3'	ND	ND	ND	ND	ND	0	ND
CSW 4	3'	ND	ND	ND	ND	ND	0	ND
CSW 5	3'	ND	ND	ND	ND	ND	0	ND
CSW 6	3'	ND	ND	ND	ND	ND	0	ND
CSW 7	3'	ND	ND	ND	ND	ND	0	ND
CSW 8	3'	ND	ND	ND	ND	ND	0	ND
CSW 9	3'	ND	ND	ND	ND	ND	0	ND
CSW 10	3'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Closure Request

After careful review, Pima requests that this incident, NAPP2231130402, be closed. Devon has complied with the applicable closure requirements set forth in rule 19.15.19.12 NMAC.

Should you have any questions or need additional information, please feel free to contact Gio Gomez at 575-964-7740 or gio@pimaoil.com.

Respectfully,



Gio Gomez
Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

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

Appendices:

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



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map


4-Site Map

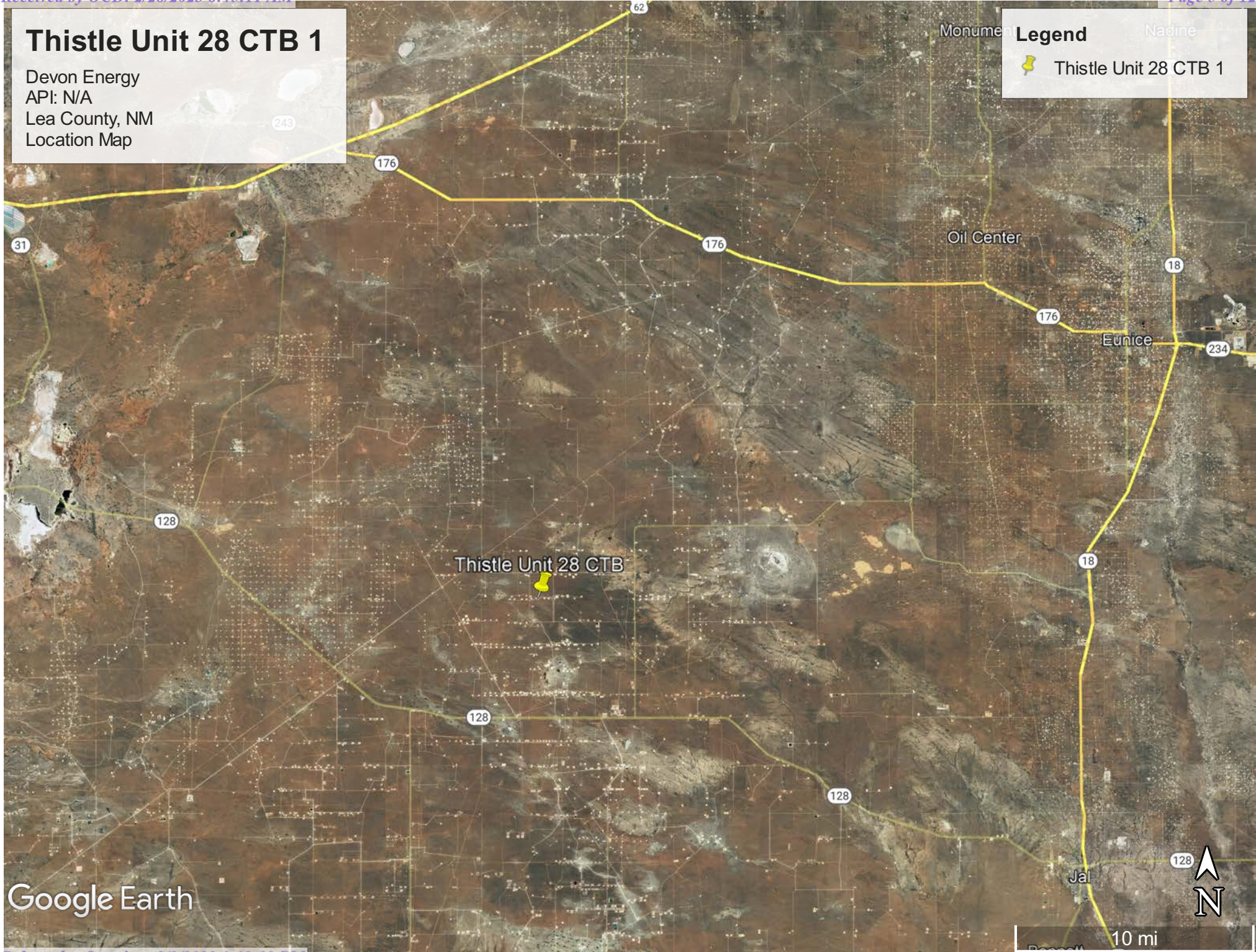
5-Confirmation Sample Map

Thistle Unit 28 CTB 1

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

Legend


 Thistle Unit 28 CTB 1

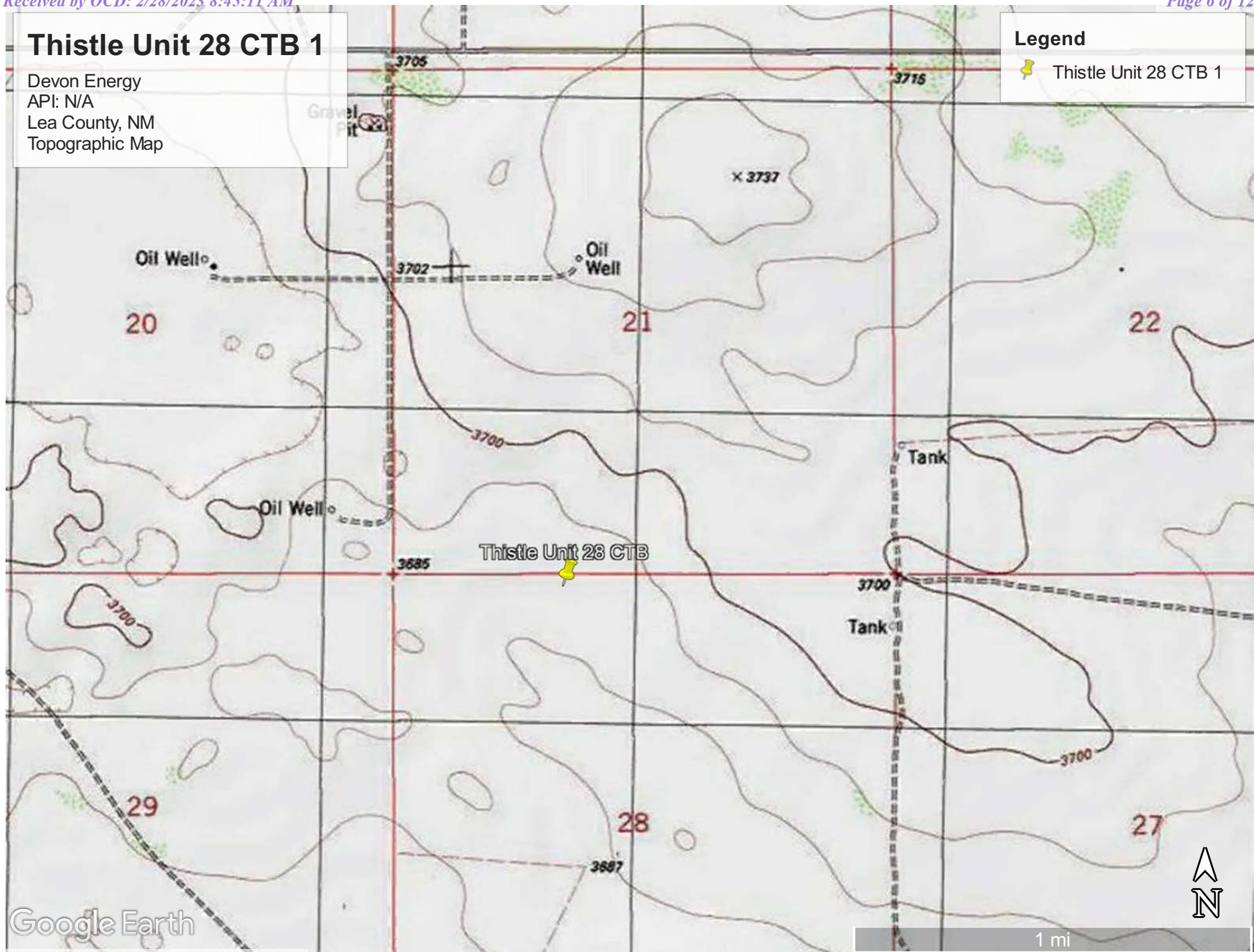


Thistle Unit 28 CTB 1

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

Legend

 Thistle Unit 28 CTB 1







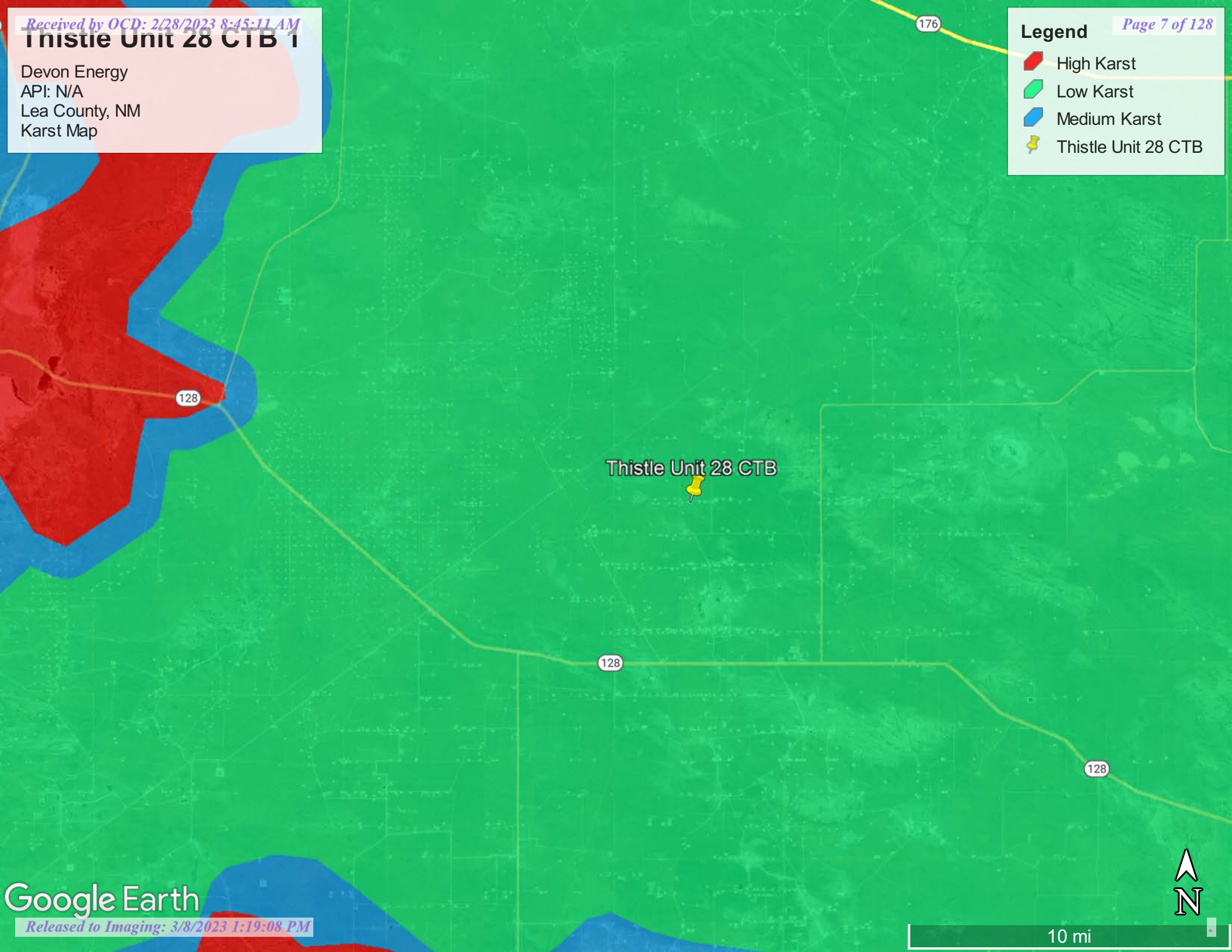
Google Earth

Thistle Unit 28 CTB 1

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

Legend

-  High Karst
-  Low Karst
-  Medium Karst
-  Thistle Unit 28 CTB



Thistle Unit 28 CTB



Thistle Unit 28 CTB 1

Devon Energy
Lea County, NM
Site Map

Legend

- Backgrounds/Sidewalls
- Sample
- Spill Area 624 sqft

Thistle Unit 28 CTB 1



BG1

SW1 SW2 SW3 SW4
S1 S2 S3 S4 S5 S6 S7
SW5 SW6 SW7

BG2



100 ft

Google Earth

Thistle Unit 28 CTB 1

Devon Energy
Lea County, NM
Confirmation Sample Map

Legend

- Confirmation Samples
- Confirmation Sidewalls
- Thistle Unit 28 CTB 1

Thistle Unit 28 CTB 1

CSW3 CSW6
CSW2 CSW4
CSW1 CS2 CSW8
CSW10 CSW9



100 ft



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Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02278		CUB	LE	3	4	2	28	23S	33E	634484	3571989*	996	650	400	250
C_02277		CUB	LE	2	3	4	20	23S	33E	632663	3572970*	1111	550	400	150
C_02280		CUB	LE	3	2	4	28	23S	33E	634489	3571586*	1296	650	400	250
C_02279		CUB	LE	3	4	3	28	23S	33E	633691	3571173*	1458	650	400	250
C_02281		CUB	LE	3	4	4	28	23S	33E	634495	3571183*	1641	545	400	145
C_02276		CUB	LE	3	1	4	19	23S	33E	630848	3573154*	2920	650	400	250
C_04664 POD1		CUB	LE	4	1	4	15	23S	33E	635784	3574818	3006	55		
C_02275		CUB	LE	3	3	2	19	23S	33E	630843	3573557*	3024	650	400	250
C_04595 POD1		CUB	LE	4	3	3	34	23S	33E	635150	3569564	3382	55		
C_03582 POD1		C	LE	4	1	1	14	23S	33E	636583	3575666	4171	590		
C_02283		CUB	LE	4	2	2	26	23S	33E	637896	3572431*	4178	325	225	100
C_03591 POD1		CUB	LE	2	1	4	05	24S	33E	632731	3568518	4230			
C_02284		CUB	LE	4	2	4	26	23S	33E	637907	3571626*	4304	325	225	100
C_04551 POD1		CUB	LE	4	4	3	31	23S	33E	630671	3569556	4331			
C_02282		CUB	LE	3	1	1	25	23S	33E	638098	3572436*	4380	325	225	100

Average Depth to Water: **347 feet**

Minimum Depth: **225 feet**

Maximum Depth: **400 feet**

Record Count: 15

UTMNAD83 Radius Search (in meters):

Easting (X): 633721.81

Northing (Y): 3572631.11

Radius: 5000

*UTM location was derived from PLSS - see Help

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

11/11/22 9:00 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Effective October 24, 2022 hyperlinks to legacy Current Condition pages will automatically redirect users to the corresponding Monitoring Location page. Please see the [Water Data For The Nation Blog](#) for full details, including how to navigate back to the legacy Current Condition page, if desired.
- 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 =

- 321609103321701

Minimum number of levels = 1

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

USGS 321609103321701 23S.33E.26.421342

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°16'09", Longitude 103°32'17" NAD27

Land-surface elevation 3,648 feet above NAVD88

The depth of the well is 173 feet below land surface.

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

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

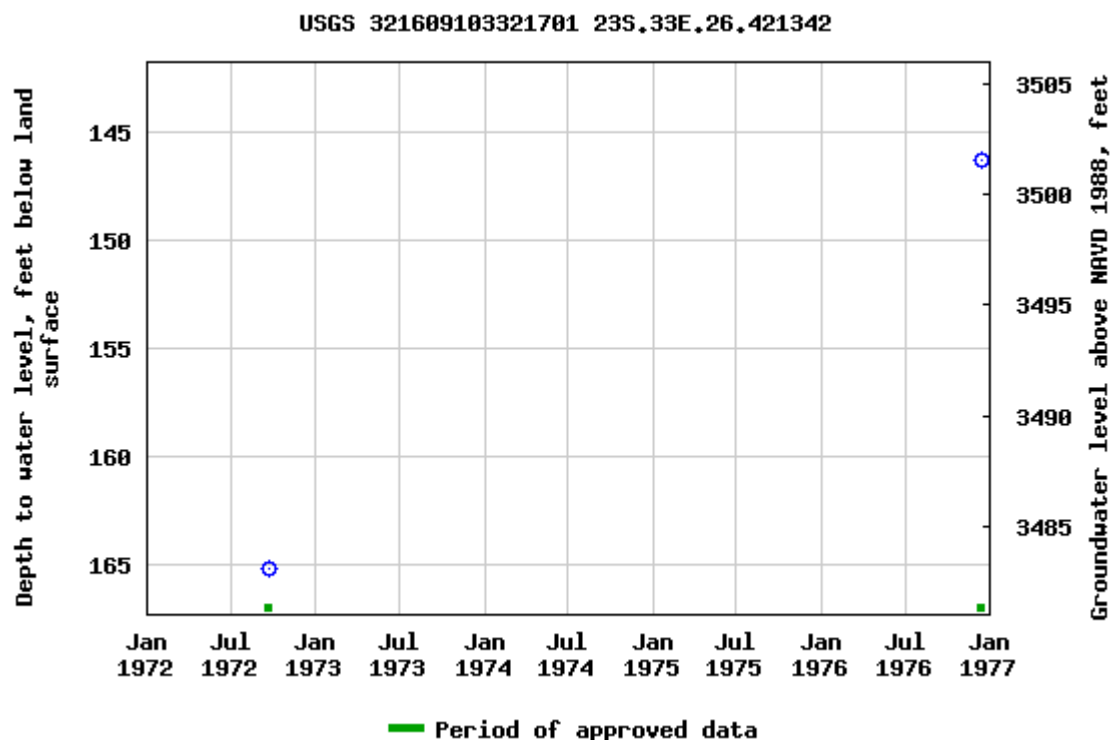
Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)



Breaks in the plot represent a gap of at least one year between field measurements.
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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

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



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

Page Last Modified: 2022-11-11 10:58:08 EST

0.56 0.47 nadww02

Thistle Unit 28 CTB 1

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

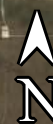
Legend

- 9.85 Miles
- Thistle Unit 28 CTB 1

Thistle Unit 28 CTB

Salt Playa

Google Earth



5 mi



Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Lea County, New Mexico

PU—Pyote and Maljamar fine sands

Map Unit Setting

National map unit symbol: dmqq

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent

Maljamar and similar soils: 44 percent

Minor components: 10 percent

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

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand

Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): High
(2.00 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

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

Description of Maljamar

Setting

Landform: Plains
Landform position (three-dimensional): Rise
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 24 inches: fine sand
Bt - 24 to 50 inches: sandy clay loam
Bkm - 50 to 60 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 40 to 60 inches to petrocalcic
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.6 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 10 percent
Ecological site: R070BC022NM - Sandhills

Map Unit Description: Pyote and Maljamar fine sands---Lea County, New Mexico

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico

Survey Area Data: Version 19, Sep 8, 2022

National Flood Hazard Layer FIRMMette



103°35'7"W 32°17'12"N



Legend

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

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

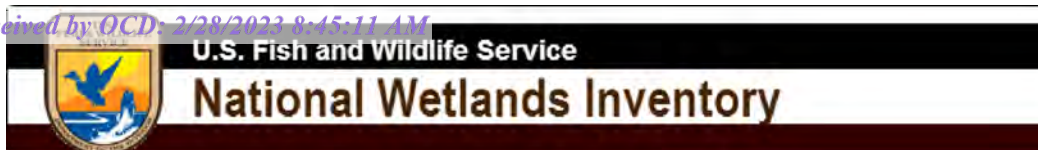


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/11/2022 at 11:02 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.



Wetlands Map



November 11, 2022

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Pima Environmental Services

Appendix C

C-141 Form

48-Hour Notification

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>10</u>	<u>3.000</u>	<u>0.042</u>
Cubic Feet of Soil Impacted		<u>1.260</u>
Barrels of Soil Impacted		<u>0.22</u>
Soil Type		<u>Clay/Sand</u>
Barrels of Oil Assuming 100% Saturation		<u>0.03</u>
Saturation	<u>Fluid present with shovel/backhoe</u>	
Estimated Barrels of Oil Released		<u>0.03</u>
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>10</u>	<u>3.000</u>	<u>0.083</u>
Standing fluid		<u>0.443</u>
Total fluids spilled		0.477

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>10</u>	<u>14.000</u>	<u>0.042</u>
Cubic Feet of Soil Impacted		<u>5.880</u>
Barrels of Soil Impacted		<u>1.05</u>
Soil Type		<u>Clay</u>
Barrels of Oil Assuming 100% Saturation		<u>0.10</u>
Saturation	<u>Fluid present with shovel/backhoe</u>	
Estimated Barrels of Oil Released		<u>0.10</u>
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>10</u>	<u>14.000</u>	<u>0.083</u>
Standing fluid		<u>2.067</u>
Total fluids spilled		2.172

Spill Volume(Bbls) Calculator		
<i>Inputs in blue, Outputs in red</i>		
Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>11</u>	<u>6.000</u>	<u>0.042</u>
Cubic Feet of Soil Impacted		<u>2.772</u>
Barrels of Soil Impacted		<u>0.49</u>
Soil Type		Clay
Barrels of Oil Assuming 100% Saturation		<u>0.05</u>
Saturation	Fluid present with shovel/backhoe	
Estimated Barrels of Oil Released		0.05
Free Standing Fluid Only		
Length(Ft)	Width(Ft)	Depth(Ft)
<u>11</u>	<u>6.000</u>	<u>0.082</u>
Standing fluid		<u>0.963</u>
Total fluids spilled		<u>1.012</u>

Incident ID	nAPP2231130402
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	nAPP2231130402
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: EHS ProfessionalSignature: Dale Woodall Date: 2/28/2023email: dale.woodall@dn.com Telephone: 405-318-4697**OCD Only**

Received by: _____ Date: _____

Incident ID	nAPP2231130402
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Dale Woodall Title: EHS Professional
Signature: Dale Woodall Date: 2/28/2023
email: dale.woodall@dvn.com Telephone: 405-318-4697

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 03/08/2023
Printed Name: Jennifer Nobui Title: Environmental Specialist A



Gio PimaOil <gio@pimaoil.com>

Confirmation of Sampling Thistle Unit 28 CTB 1 NAPP2231130402

1 message

Gio PimaOil <gio@pimaoil.com>

Fri, Feb 10, 2023 at 1:31 PM

To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com>

Good Afternoon,

Pima Environmental would like to notify you that we will begin collecting confirmation samples at the Thistle Unit 28 CTB 1 for incident NAPP2231130402. Pima personnel are scheduled to be on site for this sampling event at approximately 2:00 p.m. on Sunday, February 12, 2023. If you have any questions or concerns, please let me know. Thank you.

Gio Gomez

Project Manager

cell-806-782-1151

Office- 575-964-7740

Pima Environmental Services, LLC.



Pima Environmental Services

Appendix D

Photographic Documentation



**SITE PHOTOGRAPHS
DEVON ENERGY
THISTLE UNIT 28 CTB 1**

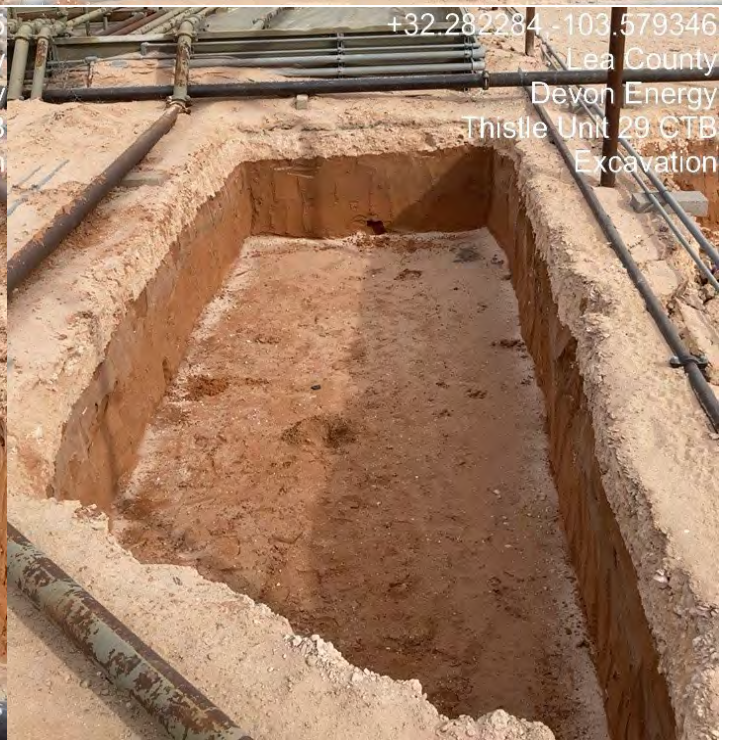
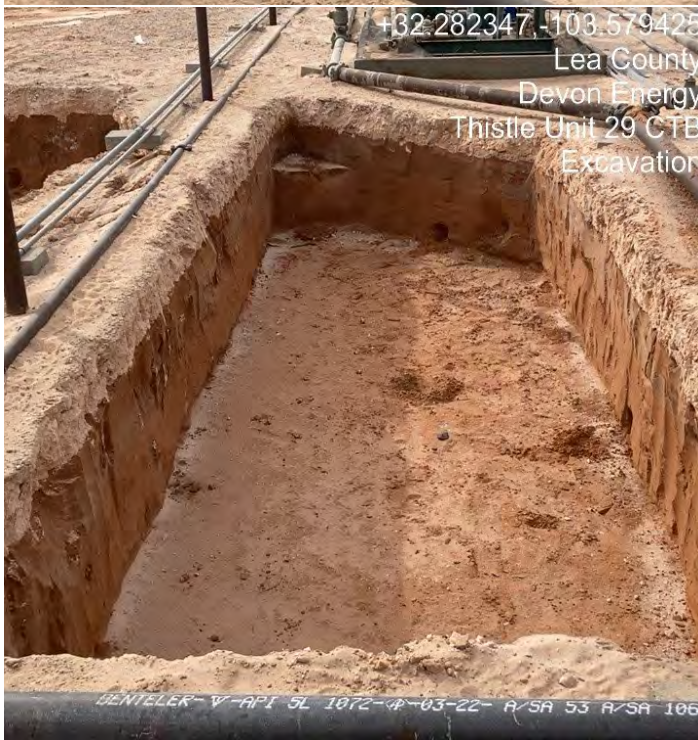
Site Assessment







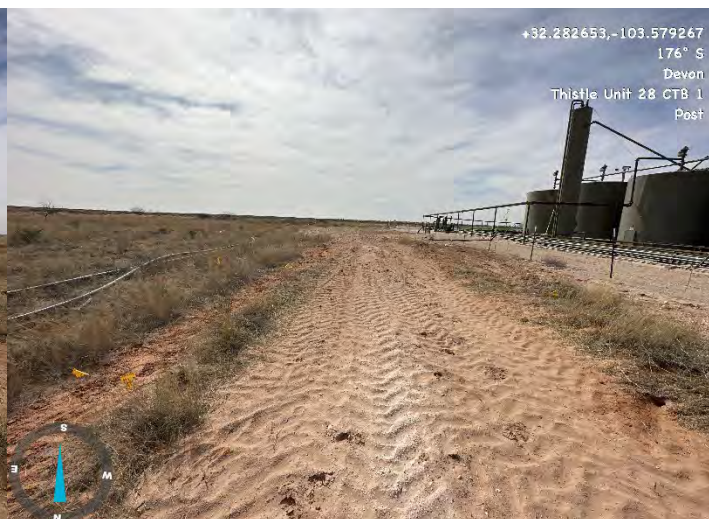
Excavation







Post Excavation







Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 28 CTB1

Work Order: E211144

Job Number: 01058-0007

Received: 11/22/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/30/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/30/22



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Thistle Unit 28 CTB1
Workorder: E211144
Date Received: 11/22/2022 11:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/22/2022 11:00:00AM, under the Project Name: Thistle Unit 28 CTB1.

The analytical test results summarized in this report with the Project Name: Thistle Unit 28 CTB1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

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

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

Field Offices:

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

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

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/30/22 14:35

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 1'	E211144-01A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S1 2'	E211144-02A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S1 3'	E211144-03A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S1 4'	E211144-04A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S2 1'	E211144-05A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S2 2'	E211144-06A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S2 3'	E211144-07A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S2 4'	E211144-08A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S3 1'	E211144-09A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S3 2'	E211144-10A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S3 3'	E211144-11A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S3 4'	E211144-12A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S4 1'	E211144-13A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S4 2'	E211144-14A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S4 3'	E211144-15A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S4 4'	E211144-16A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S5 1'	E211144-17A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S5 2'	E211144-18A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S5 3'	E211144-19A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S5 4'	E211144-20A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S1 1'

E211144-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
Surrogate: 4-Bromochlorobenzene-PID	95.7 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.1 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
Surrogate: n-Nonane	105 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	3890	40.0	2	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S1 2'

E211144-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.7 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
<i>Surrogate: n-Nonane</i>						
	106 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	3660	40.0	2	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S1 3'

E211144-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.2 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.6 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	302	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S1 4'

E211144-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.1 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.6 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	ND	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S2 1'

E211144-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.9 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	3860	40.0	2	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S2 2'

E211144-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.6 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	4480	40.0	2	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S2 3'

E211144-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
<i>Surrogate: n-Nonane</i>						
	108 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	307	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S2 4'

E211144-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.7 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.7 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
<i>Surrogate: n-Nonane</i>						
	104 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	ND	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S3 1'

E211144-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	95.8 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.0 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	4070	40.0	2	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S3 2'

E211144-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.1 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	3850	40.0	2	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S3 3'

E211144-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.9 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
	109 %	50-200		11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	344	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S3 4'

E211144-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
	110 %	50-200		11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	ND	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S4 1'

E211144-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.9 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	3510	40.0	2	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S4 2'

E211144-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.2 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
	111 %	50-200		11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	3810	40.0	2	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S4 3'

E211144-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.7 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.7 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
	113 %	50-200		11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	446	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S4 4'

E211144-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.7 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
	117 %	50-200		11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	ND	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S5 1'

E211144-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	91.4 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
	116 %	50-200		11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	3830	40.0	2	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S5 2'

E211144-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
	112 %	50-200		11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	3990	40.0	2	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S5 3'

E211144-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
		114 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	310	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 2:35:36PM

S5 4'

E211144-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Benzene	ND	0.0250	1	11/23/22	11/27/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/27/22	
Toluene	ND	0.0250	1	11/23/22	11/27/22	
o-Xylene	ND	0.0250	1	11/23/22	11/27/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/27/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/27/22	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2248074
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/27/22	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.9 %	70-130	11/23/22	11/27/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248049
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
<i>Surrogate: n-Nonane</i>						
		112 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249002
Chloride	ND	20.0	1	11/28/22	11/29/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/30/2022 2:35:36PM

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 (2248074-BLK1)

Prepared: 11/23/22 Analyzed: 11/27/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			

LCS (2248074-BS1)

Prepared: 11/23/22 Analyzed: 11/27/22

Benzene	4.12	0.0250	5.00		82.4	70-130			
Ethylbenzene	4.12	0.0250	5.00		82.3	70-130			
Toluene	4.23	0.0250	5.00		84.5	70-130			
o-Xylene	4.22	0.0250	5.00		84.4	70-130			
p,m-Xylene	8.36	0.0500	10.0		83.6	70-130			
Total Xylenes	12.6	0.0250	15.0		83.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			

Matrix Spike (2248074-MS1)

Source: E211144-03

Prepared: 11/23/22 Analyzed: 11/27/22

Benzene	4.60	0.0250	5.00	ND	92.0	54-133			
Ethylbenzene	4.60	0.0250	5.00	ND	91.9	61-133			
Toluene	4.72	0.0250	5.00	ND	94.4	61-130			
o-Xylene	4.70	0.0250	5.00	ND	94.0	63-131			
p,m-Xylene	9.32	0.0500	10.0	ND	93.2	63-131			
Total Xylenes	14.0	0.0250	15.0	ND	93.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.96		8.00		99.5	70-130			

Matrix Spike Dup (2248074-MSD1)

Source: E211144-03

Prepared: 11/23/22 Analyzed: 11/28/22

Benzene	4.46	0.0250	5.00	ND	89.2	54-133	3.08	20	
Ethylbenzene	4.50	0.0250	5.00	ND	90.1	61-133	1.99	20	
Toluene	4.64	0.0250	5.00	ND	92.8	61-130	1.66	20	
o-Xylene	4.65	0.0250	5.00	ND	92.9	63-131	1.19	20	
p,m-Xylene	9.16	0.0500	10.0	ND	91.6	63-131	1.74	20	
Total Xylenes	13.8	0.0250	15.0	ND	92.0	63-131	1.55	20	
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported: 11/30/2022 2:35:36PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2248074-BLK1)

Prepared: 11/23/22 Analyzed: 11/27/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.99		8.00		99.9	70-130			

LCS (2248074-BS2)

Prepared: 11/23/22 Analyzed: 11/27/22

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0		87.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.4	70-130			

Matrix Spike (2248074-MS2)

Source: E211144-03

Prepared: 11/23/22 Analyzed: 11/27/22

Gasoline Range Organics (C6-C10)	43.7	20.0	50.0	ND	87.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			

Matrix Spike Dup (2248074-MSD2)

Source: E211144-03

Prepared: 11/23/22 Analyzed: 11/27/22

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0	ND	92.6	70-130	5.67	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported: 11/30/2022 2:35:36PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2248049-BLK1)

Prepared: 11/23/22 Analyzed: 11/29/22

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.8		50.0		104	50-200			

LCS (2248049-BS1)

Prepared: 11/23/22 Analyzed: 11/29/22

Diesel Range Organics (C10-C28)	210	25.0	250		83.8	38-132			
Surrogate: n-Nonane	53.1		50.0		106	50-200			

Matrix Spike (2248049-MS1)

Source: E211144-06

Prepared: 11/23/22 Analyzed: 11/29/22

Diesel Range Organics (C10-C28)	212	25.0	250	ND	85.0	38-132			
Surrogate: n-Nonane	50.7		50.0		101	50-200			

Matrix Spike Dup (2248049-MSD1)

Source: E211144-06

Prepared: 11/23/22 Analyzed: 11/29/22

Diesel Range Organics (C10-C28)	211	25.0	250	ND	84.5	38-132	0.576	20	
Surrogate: n-Nonane	52.7		50.0		105	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/30/2022 2:35:36PM

Anions by EPA 300.0/9056A

Analyst: KL

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 (2249002-BLK1)					Prepared: 11/28/22 Analyzed: 11/29/22				
Chloride	ND	20.0							
LCS (2249002-BS1)					Prepared: 11/28/22 Analyzed: 11/29/22				
Chloride	249	20.0	250		99.6	90-110			
Matrix Spike (2249002-MS1)					Source: E211144-01		Prepared: 11/28/22 Analyzed: 11/29/22		
Chloride	3900	40.0	250	3890	6.90	80-120			M2
Matrix Spike Dup (2249002-MSD1)					Source: E211144-01		Prepared: 11/28/22 Analyzed: 11/29/22		
Chloride	4350	40.0	250	3890	185	80-120	10.8	20	M2

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



Definitions and Notes

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/30/22 14:35

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

Page 1 of 4

Client: Pima Environmental Services					Bill To					Lab Use Only					TAT				EPA Program					
Project: Thistle Unit 28 CTBI					Attention: Devon Energy					Lab WO# E211144					Job Number 01058-0007				1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum					Address:					Analysis and Method									RCRA					
Address: 5614 N. Lovington Hwy					City, State, Zip																			
City, State, Zip Hobbs, NM, 88240					Phone:					DRG/ORG by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BG/DOC NM					NM CO UT AZ TX X				State					
Phone: 580-748-1613					Email:																			
Email: tom@pimaoil.com					Project#: 213																			
Report due by:																								

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRG/ORG by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BG/DOC NM	1D	2D	3D	Standard	CWA	SDWA	Remarks
8:00	11/21/22	S	1	S1 1'	1							X							
8:05				S1 2'	2														
8:10				S1 3'	3														
8:15				S1 4'	4														
8:20				S2 1'	5														
8:25				S2 2'	6														
8:30				S2 3'	7														
8:35				S2 4'	8														
8:40				S3 1'	9														
8:45				S3 2'	10														

Additional Instructions: Devon Billing#: 210927107

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: Dominick Gonzales

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: <u>Y</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
<u>Dominick R. Cyp</u>	11/22/22	1345	<u>Michelle K. Cyp</u>	11-22-22	1345	
<u>Michelle K. Cyp</u>	11-22-22	1600	<u>Michelle K. Cyp</u>	11/23/22	11:00	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

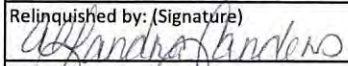

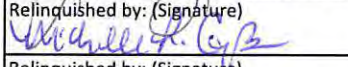
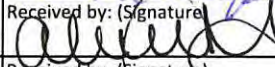
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

Project Information

Chain of Custody

Page 2 of 4

Client: Pima Environmental Services Project: Thistle Unit 28 CTB1 Project Manager: Tom Bynum Address: 5614 N. Livingston Hwy City, State, Zip: Lordsburg, NM 88240 Phone: 505-748-1113 Email: tom@pimaoil.com Report due by:				Bill To Attention: Devon Energy Address: City, State, Zip: Phone: Email: Project #: 213				Lab Use Only Lab WO# E211144 Job Number 01058-0007				TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
				Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BG DOC NM				State NM CO UT AZ TX X				Remarks					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number												
8:50	11/21/22	S	1	93 3'	11												
8:55				93 4'	12												
9:00				94 1'	13												
9:05				94 2'	14												
9:10				94 3'	15												
9:15				94 4'	16												
9:20				95 1'	17												
9:25				95 2'	18												
9:30				95 3'	19												
9:35				95 4'	20												
Additional Instructions: Devon Billing #: 21092707																	
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="radio"/> Y <input type="radio"/> N					
		11/23/22		1345				11-22-22		1345							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 T2 T3 AVG Temp °C 4					
		11-22-22		1600				11/23/22		11:00							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA							
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																	

Envirotech Analytical Laboratory

Printed: 11/23/2022 6:18:38PM

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:	11/22/22 11:00	Work Order ID:	E211144
Phone:	(575) 631-6977	Date Logged In:	11/22/22 17:03	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	11/30/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPS**Comments/Resolution**

Project (Thistle Unit 28 CTB1) has been separated into multiple workorders due to sample volume. WO# are as follows:
E211144 / E211145

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 28 CTB1

Work Order: E211145

Job Number: 01058-0007

Received: 11/22/2022

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/30/22

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/30/22

Tom Bynum
PO Box 247
Plains, TX 79355-0247



Project Name: Thistle Unit 28 CTB1
Workorder: E211145
Date Received: 11/22/2022 11:00:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/22/2022 11:00:00AM, under the Project Name: Thistle Unit 28 CTB1.

The analytical test results summarized in this report with the Project Name: Thistle Unit 28 CTB1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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
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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/30/22 15:44

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S6 1'	E211145-01A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S6 2'	E211145-02A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S6 3'	E211145-03A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S6 4'	E211145-04A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S7 1'	E211145-05A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S7 2'	E211145-06A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S7 3'	E211145-07A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
S7 4'	E211145-08A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
SW1	E211145-09A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
SW2	E211145-10A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
SW3	E211145-11A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
SW4	E211145-12A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
SW5	E211145-13A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
SW6	E211145-14A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
SW7	E211145-15A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
BG1	E211145-16A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.
BG2	E211145-17A	Soil	11/21/22	11/22/22	Glass Jar, 4 oz.



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/30/2022 3:44:28PM

S6 1'

E211145-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene	105 %	70-130		11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4	114 %	70-130		11/23/22	11/24/22	
Surrogate: Toluene-d8	95.0 %	70-130		11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene	105 %	70-130		11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4	114 %	70-130		11/23/22	11/24/22	
Surrogate: Toluene-d8	95.0 %	70-130		11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
Surrogate: n-Nonane	104 %	50-200		11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	3700	400	20	11/28/22	11/28/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

S6 2'

E211145-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		102 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		93.0 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		102 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		93.0 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
Surrogate: n-Nonane		97.9 %	50-200	11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	7720	400	20	11/28/22	11/28/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

S6 3'

E211145-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		107 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		96.2 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		107 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		96.2 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
Surrogate: n-Nonane		99.1 %	50-200	11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	354	20.0	1	11/28/22	11/28/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

S6 4'

E211145-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		103 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.5 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		103 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.5 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
Surrogate: n-Nonane		103 %	50-200	11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	ND	20.0	1	11/28/22	11/28/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

S7 1'

E211145-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		104 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		95.6 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		104 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		95.6 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
Surrogate: n-Nonane		101 %	50-200	11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	3780	20.0	1	11/28/22	11/28/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

S7 2'

E211145-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		103 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.8 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		103 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.8 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/29/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/29/22	
Surrogate: n-Nonane		96.4 %	50-200	11/23/22	11/29/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	4340	20.0	1	11/28/22	11/28/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

S7 3'

E211145-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		106 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		95.9 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		106 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		95.9 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
Surrogate: n-Nonane		105 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	389	20.0	1	11/28/22	11/28/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

S7 4'

E211145-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		105 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.7 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		105 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.7 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
Surrogate: n-Nonane		106 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	ND	20.0	1	11/28/22	11/28/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

SW1

E211145-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		103 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.1 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		103 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.1 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
Surrogate: n-Nonane		99.7 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	ND	20.0	1	11/28/22	11/28/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

SW2

E211145-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		103 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.1 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		103 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.1 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
Surrogate: n-Nonane		106 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	ND	20.0	1	11/28/22	11/28/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

SW3

E211145-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		102 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		117 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		95.1 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		102 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		117 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		95.1 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
Surrogate: n-Nonane		104 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	ND	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

SW4

E211145-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		103 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		115 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.1 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		103 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		115 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.1 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
Surrogate: n-Nonane		104 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	ND	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

SW5

E211145-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		101 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		120 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		95.4 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		101 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		120 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		95.4 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
Surrogate: n-Nonane		99.5 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	ND	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

SW6

E211145-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		104 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		95.0 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		104 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		95.0 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
Surrogate: n-Nonane		104 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	ND	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

SW7

E211145-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		101 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		119 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.2 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		101 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		119 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.2 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
Surrogate: n-Nonane		105 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	ND	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

BG1

E211145-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		106 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.8 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		106 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		114 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		94.8 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
Surrogate: n-Nonane		100 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	ND	20.0	1	11/28/22	11/29/22	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 01058-0007
Project Manager: Tom Bynum

Reported:
11/30/2022 3:44:28PM

BG2

E211145-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Benzene	ND	0.0250	1	11/23/22	11/24/22	
Ethylbenzene	ND	0.0250	1	11/23/22	11/24/22	
Toluene	ND	0.0250	1	11/23/22	11/24/22	
o-Xylene	ND	0.0250	1	11/23/22	11/24/22	
p,m-Xylene	ND	0.0500	1	11/23/22	11/24/22	
Total Xylenes	ND	0.0250	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		101 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		115 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		93.2 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: IY		Batch: 2248072
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/23/22	11/24/22	
Surrogate: Bromofluorobenzene		101 %	70-130	11/23/22	11/24/22	
Surrogate: 1,2-Dichloroethane-d4		115 %	70-130	11/23/22	11/24/22	
Surrogate: Toluene-d8		93.2 %	70-130	11/23/22	11/24/22	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: JL		Batch: 2248056
Diesel Range Organics (C10-C28)	ND	25.0	1	11/23/22	11/30/22	
Oil Range Organics (C28-C36)	ND	50.0	1	11/23/22	11/30/22	
Surrogate: n-Nonane		102 %	50-200	11/23/22	11/30/22	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: KL		Batch: 2249003
Chloride	ND	20.0	1	11/28/22	11/29/22	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/30/2022 3:44:28PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2248072-BLK1)

Prepared: 11/23/22 Analyzed: 11/24/22

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.541		0.500		108	70-130			
Surrogate: Toluene-d8	0.474		0.500		94.8	70-130			

LCS (2248072-BS1)

Prepared: 11/23/22 Analyzed: 11/24/22

Benzene	2.49	0.0250	2.50		99.6	70-130			
Ethylbenzene	2.45	0.0250	2.50		98.1	70-130			
Toluene	2.48	0.0250	2.50		99.4	70-130			
o-Xylene	2.59	0.0250	2.50		104	70-130			
p,m-Xylene	5.08	0.0500	5.00		102	70-130			
Total Xylenes	7.67	0.0250	7.50		102	70-130			
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.575		0.500		115	70-130			
Surrogate: Toluene-d8	0.477		0.500		95.3	70-130			

Matrix Spike (2248072-MS1)

Source: E211145-03

Prepared: 11/23/22 Analyzed: 11/24/22

Benzene	2.46	0.0250	2.50	ND	98.3	48-131			
Ethylbenzene	2.44	0.0250	2.50	ND	97.4	45-135			
Toluene	2.47	0.0250	2.50	ND	99.0	48-130			
o-Xylene	2.57	0.0250	2.50	ND	103	43-135			
p,m-Xylene	5.04	0.0500	5.00	ND	101	43-135			
Total Xylenes	7.61	0.0250	7.50	ND	101	43-135			
Surrogate: Bromofluorobenzene	0.538		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.556		0.500		111	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.5	70-130			

Matrix Spike Dup (2248072-MSD1)

Source: E211145-03

Prepared: 11/23/22 Analyzed: 11/24/22

Benzene	2.38	0.0250	2.50	ND	95.3	48-131	3.10	23	
Ethylbenzene	2.32	0.0250	2.50	ND	92.8	45-135	4.86	27	
Toluene	2.32	0.0250	2.50	ND	92.8	48-130	6.44	24	
o-Xylene	2.45	0.0250	2.50	ND	98.1	43-135	4.82	27	
p,m-Xylene	4.80	0.0500	5.00	ND	96.1	43-135	4.72	27	
Total Xylenes	7.26	0.0250	7.50	ND	96.8	43-135	4.76	27	
Surrogate: Bromofluorobenzene	0.517		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.573		0.500		115	70-130			
Surrogate: Toluene-d8	0.470		0.500		93.9	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported: 11/30/2022 3:44:28PM
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 (2248072-BLK1)

Prepared: 11/23/22 Analyzed: 11/24/22

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.502		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.541		0.500		108	70-130			
Surrogate: Toluene-d8	0.474		0.500		94.8	70-130			

LCS (2248072-BS2)

Prepared: 11/23/22 Analyzed: 11/24/22

Gasoline Range Organics (C6-C10)	40.0	20.0	50.0		80.0	70-130			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.550		0.500		110	70-130			
Surrogate: Toluene-d8	0.471		0.500		94.1	70-130			

Matrix Spike (2248072-MS2)

Source: E211145-03

Prepared: 11/23/22 Analyzed: 11/29/22

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.6	70-130			
Surrogate: Bromofluorobenzene	0.522		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.567		0.500		113	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.5	70-130			

Matrix Spike Dup (2248072-MSD2)

Source: E211145-03

Prepared: 11/23/22 Analyzed: 11/24/22

Gasoline Range Organics (C6-C10)	45.6	20.0	50.0	ND	91.2	70-130	4.75	20	
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.571		0.500		114	70-130			
Surrogate: Toluene-d8	0.480		0.500		96.0	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported: 11/30/2022 3:44:28PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2248056-BLK1)					Prepared: 11/23/22 Analyzed: 11/29/22				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.2		50.0		104	50-200			

LCS (2248056-BS1)					Prepared: 11/23/22 Analyzed: 11/29/22				
Diesel Range Organics (C10-C28)	224	25.0	250		89.6	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			

Matrix Spike (2248056-MS1)					Source: E211145-05		Prepared: 11/23/22 Analyzed: 11/29/22		
Diesel Range Organics (C10-C28)	220	25.0	250	ND	87.8	38-132			
Surrogate: n-Nonane	49.0		50.0		98.0	50-200			

Matrix Spike Dup (2248056-MSD1)					Source: E211145-05		Prepared: 11/23/22 Analyzed: 11/29/22		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	91.0	38-132	3.53	20	
Surrogate: n-Nonane	45.4		50.0		90.7	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/30/2022 3:44:28PM

Anions by EPA 300.0/9056A

Analyst: KL

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 (2249003-BLK1)

Prepared: 11/28/22 Analyzed: 11/28/22

Chloride	ND	20.0							
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LCS (2249003-BS1)

Prepared: 11/28/22 Analyzed: 11/28/22

Chloride	267	20.0	250		107	90-110			
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Matrix Spike (2249003-MS1)

Source: E211145-01

Prepared: 11/28/22 Analyzed: 11/28/22

Chloride	8760	400	250	3700	NR	80-120			M2
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Matrix Spike Dup (2249003-MSD1)

Source: E211145-01

Prepared: 11/28/22 Analyzed: 11/28/22

Chloride	7690	400	250	3700	NR	80-120	12.9	20	M2
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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:	Thistle Unit 28 CTB1	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	11/30/22 15:44

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite

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

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



Project Information

Chain of Custody

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Client: <u>Pima Environmental Services</u> Project: <u>Thistle Unit 2B CTR 1</u> Project Manager: <u>Tom Bynum</u> Address: <u>5614 N. Lexington Hwy</u> City, State, Zip: <u>Libby, NM 88240</u> Phone: <u>505-748-1163</u> Email: <u>tom@pimadit.com</u> Report due by: _____					Bill To Attention: <u>Devon Energy</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____ Project #: <u>213</u>					Lab Use Only Lab WO# <u>E211145</u> Job Number <u>01058-0007</u> Analysis and Method DRO/ORO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BG DOC NM					TAT 1D 2D 3D Standard <u>X</u>				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX <u>X</u>										
										Remarks										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
9:40	11/21/22	S	1	SL 1'	1															
9:45			1	SL 2'	2															
9:50				SL 3'	3															
9:55				SL 4'	4															
10:00				SL 1'	5															
10:05				SL 2'	6															
10:10				SL 3'	7															
10:15				SL 4'	8															
10:20				SW 1	9															
10:25				SW 2	10															
Additional Instructions: <u>Devon Billing #: 21092707</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.										
Relinquished by: (Signature) <u>[Signature]</u> Date <u>11/22/22</u> Time <u>1345</u>					Received by: (Signature) <u>[Signature]</u> Date <u>11-22-22</u> Time <u>1345</u>					Lab Use Only Received on ice: <u>(Y) N</u>										
Relinquished by: (Signature) <u>[Signature]</u> Date <u>11-22-22</u> Time <u>1600</u>					Received by: (Signature) <u>[Signature]</u> Date <u>11/23/22</u> Time <u>11:00</u>					T1 _____ T2 _____ T3 _____ 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.																				

Project Information

Chain of Custody

Page 4 of 4

Client: Pima Environmental Services Project: This Unit 28 CTR 1 Project Manager: Tom Bynum Address: 5614 N. Livingston Hwy City, State, Zip: Hohen, NM, 88240 Phone: 505-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: Devon Energy Address: City, State, Zip: Phone: Email: Project #: 213					Lab Use Only Lab WO# E211145 Job Number 01058007 Analysis and Method DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 BE/DOC NM					TAT 1D 2D 3D Standard X				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX										
										Remarks										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number															
10:30	11/21/22	S	1	SW 3	11															
10:35			1	SW 4	12															
10:40				SW 5	13															
10:45				SW 6	14															
10:50				SW 7	15															
10:55				BQ 1	16															
11:00				BQ 2	17															
Additional Instructions: Devon Billing #: 21092707																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: <u>Dominick Gonzales</u>																				
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only Received on ice: <u>Y</u> N												
<u>Andria Pando</u>		11/22/22	1345	<u>Dominick Gonzales</u>		11-22-22	1345													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3 AVG Temp °C <u>4</u>												
<u>Michelle G. G.</u>		11-22-22	1600	<u>Andria Pando</u>		11/23/22	11:00													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time													
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																				
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Envirotech Analytical Laboratory

Printed: 11/23/2022 6:26:12PM

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:	11/22/22 11:00	Work Order ID:	E211145
Phone:	(575) 631-6977	Date Logged In:	11/22/22 17:06	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	11/30/22 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: UPSComments/Resolution

Project (Thistle Unit 28 CTB1) has been separated into multiple workorders due to sample volume. WO# are as follows:
E211144 / E211145

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Tom Bynum



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Thistle Unit 28 CTB1

Work Order: E302070

Job Number: 21064-0001

Received: 2/15/2023

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
2/16/23

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: 2/16/23



Tom Bynum
PO Box 247
Plains, TX 79355-0247

Project Name: Thistle Unit 28 CTB1
Workorder: E302070
Date Received: 2/15/2023 7:30:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 2/15/2023 7:30:00AM, under the Project Name: Thistle Unit 28 CTB1.

The analytical test results summarized in this report with the Project Name: Thistle Unit 28 CTB1 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues 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

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Cell: 505-320-4759
ljjarboe@envirotech-inc.com

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Rayny Hagan
Technical Representative
Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/16/23 13:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
CS1	E302070-01A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CS2	E302070-02A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CS3	E302070-03A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CS4	E302070-04A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CSW1	E302070-05A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CSW2	E302070-06A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CSW3	E302070-07A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CSW4	E302070-08A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CSW5	E302070-09A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CSW6	E302070-10A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CSW7	E302070-11A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CSW8	E302070-12A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CSW9	E302070-13A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.
CSW10	E302070-14A	Soil	02/13/23	02/15/23	Glass Jar, 2 oz.



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CS1

E302070-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID	88.5 %	70-130		02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
Surrogate: n-Nonane	93.2 %	50-200		02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CS2

E302070-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		87.3 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		90.9 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CS3

E302070-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		88.8 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		94.9 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CS4

E302070-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.6 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		93.8 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CSW1

E302070-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		92.3 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CSW2

E302070-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.4 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		89.4 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CSW3

E302070-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.1 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		90.6 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CSW4

E302070-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		86.2 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		98.7 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CSW5

E302070-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.5 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		97.3 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CSW6

E302070-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.7 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		98.6 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CSW7

E302070-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		95.5 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CSW8

E302070-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.9 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		103 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CSW9

E302070-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.1 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



Sample Data

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

Project Name: Thistle Unit 28 CTB1
Project Number: 21064-0001
Project Manager: Tom Bynum

Reported:
2/16/2023 1:14:10PM

CSW10

E302070-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Benzene	ND	0.0250	1	02/15/23	02/15/23	
Ethylbenzene	ND	0.0250	1	02/15/23	02/15/23	
Toluene	ND	0.0250	1	02/15/23	02/15/23	
o-Xylene	ND	0.0250	1	02/15/23	02/15/23	
p,m-Xylene	ND	0.0500	1	02/15/23	02/15/23	
Total Xylenes	ND	0.0250	1	02/15/23	02/15/23	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2307021
Gasoline Range Organics (C6-C10)	ND	20.0	1	02/15/23	02/15/23	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	02/15/23	02/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2307022
Diesel Range Organics (C10-C28)	ND	25.0	1	02/15/23	02/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	02/15/23	02/15/23	
<i>Surrogate: n-Nonane</i>						
		102 %	50-200	02/15/23	02/15/23	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: BA		Batch: 2307024
Chloride	ND	20.0	1	02/15/23	02/15/23	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/16/2023 1:14:10PM

Volatile Organics by EPA 8021B

Analyst: SL

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 (2307021-BLK1)

Prepared: 02/15/23 Analyzed: 02/15/23

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	8.04		8.00		101	70-130			

LCS (2307021-BS1)

Prepared: 02/15/23 Analyzed: 02/15/23

Benzene	4.56	0.0250	5.00		91.2	70-130			
Ethylbenzene	4.62	0.0250	5.00		92.5	70-130			
Toluene	4.74	0.0250	5.00		94.7	70-130			
o-Xylene	4.77	0.0250	5.00		95.4	70-130			
p,m-Xylene	9.40	0.0500	10.0		94.0	70-130			
Total Xylenes	14.2	0.0250	15.0		94.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.18		8.00		102	70-130			

Matrix Spike (2307021-MS1)

Source: E302070-03

Prepared: 02/15/23 Analyzed: 02/15/23

Benzene	4.64	0.0250	5.00	ND	92.7	54-133			
Ethylbenzene	4.70	0.0250	5.00	ND	94.1	61-133			
Toluene	4.82	0.0250	5.00	ND	96.4	61-130			
o-Xylene	4.85	0.0250	5.00	ND	97.0	63-131			
p,m-Xylene	9.55	0.0500	10.0	ND	95.5	63-131			
Total Xylenes	14.4	0.0250	15.0	ND	96.0	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.27		8.00		103	70-130			

Matrix Spike Dup (2307021-MSD1)

Source: E302070-03

Prepared: 02/15/23 Analyzed: 02/15/23

Benzene	4.74	0.0250	5.00	ND	94.8	54-133	2.21	20	
Ethylbenzene	4.82	0.0250	5.00	ND	96.4	61-133	2.45	20	
Toluene	4.93	0.0250	5.00	ND	98.6	61-130	2.25	20	
o-Xylene	4.96	0.0250	5.00	ND	99.2	63-131	2.17	20	
p,m-Xylene	9.77	0.0500	10.0	ND	97.7	63-131	2.23	20	
Total Xylenes	14.7	0.0250	15.0	ND	98.2	63-131	2.21	20	
Surrogate: 4-Bromochlorobenzene-PID	8.42		8.00		105	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/16/2023 1:14:10PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

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 (2307021-BLK1)

Prepared: 02/15/23 Analyzed: 02/15/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

LCS (2307021-BS2)

Prepared: 02/15/23 Analyzed: 02/15/23

Gasoline Range Organics (C6-C10)	45.9	20.0	50.0		91.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.08		8.00		88.5	70-130			

Matrix Spike (2307021-MS2)

Source: E302070-03

Prepared: 02/15/23 Analyzed: 02/15/23

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	93.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.1	70-130			

Matrix Spike Dup (2307021-MSD2)

Source: E302070-03

Prepared: 02/15/23 Analyzed: 02/15/23

Gasoline Range Organics (C6-C10)	47.0	20.0	50.0	ND	94.0	70-130	0.00724	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/16/2023 1:14:10PM

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 (2307022-BLK1)

Prepared: 02/15/23 Analyzed: 02/15/23

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	48.7		50.0		97.4	50-200			

LCS (2307022-BS1)

Prepared: 02/15/23 Analyzed: 02/15/23

Diesel Range Organics (C10-C28)	202	25.0	250		80.8	38-132			
Surrogate: <i>n</i> -Nonane	45.7		50.0		91.3	50-200			

Matrix Spike (2307022-MS1)

Source: E302070-07

Prepared: 02/15/23 Analyzed: 02/15/23

Diesel Range Organics (C10-C28)	217	25.0	250	ND	86.7	38-132			
Surrogate: <i>n</i> -Nonane	49.5		50.0		99.0	50-200			

Matrix Spike Dup (2307022-MSD1)

Source: E302070-07

Prepared: 02/15/23 Analyzed: 02/15/23

Diesel Range Organics (C10-C28)	225	25.0	250	ND	90.0	38-132	3.66	20	
Surrogate: <i>n</i> -Nonane	50.5		50.0		101	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Thistle Unit 28 CTB1	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	2/16/2023 1:14:10PM

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 (2307024-BLK1)					Prepared: 02/15/23 Analyzed: 02/15/23				
Chloride	ND	20.0							
LCS (2307024-BS1)					Prepared: 02/15/23 Analyzed: 02/15/23				
Chloride	250	20.0	250		99.8	90-110			
LCS Dup (2307024-BSD1)					Prepared: 02/15/23 Analyzed: 02/15/23				
Chloride	261	20.0	250		104	90-110	4.43	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:	Thistle Unit 28 CTB1	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	02/16/23 13:14

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

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

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



Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services Project: <u>Thistle Unit 28 CTB1</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: Address: City, State, Zip Phone: Email: Pima Project # <u>213</u>					Lab Use Only Lab WO# <u>E 302070</u> Job Number <u>21094-0001</u> Analysis and Method					TAT 1D 2D 3D Standard				EPA Program CWA SDWA RCRA	
										State NM CO UT AZ TX X										
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks						
9:00	2/13/23	S	1	CS1	1							X								
9:05				CS2	2															
9:10				CS3	3															
9:15				CS4	4															
9:20				CSW1	5															
9:25				CSW2	6															
9:30				CSW3	7															
9:35				CSW4	8															
9:40				CSW5	9															
9:45				CSW6	10															
Additional Instructions: <u>Billing #: 21092707</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</u> / N												
<u>[Signature]</u>		2-14-23	2:00	<u>Nichelle Cuyah</u>		2-14-23	1400													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3 T1 T2 T3												
<u>Nichelle Cuyah</u>		2-14-23	1630	<u>Roseanna Sen</u>		2-14-23	1630													
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C <u>4.0</u>												
<u>Roseanna Sen</u>		2-14-23	2215	<u>Drew Ziegler</u>		02/15/23	7:30													
Sample Matrix: <u>S</u> - Soil, <u>sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other										Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA										
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services		Bill To		Lab Use Only		TAT		EPA Program					
Project: <u>Thistle Unit 28 CTBI</u>		Attention:		Lab WO# <u>E 302070</u>		Job Number <u>21064-0001</u>		1D	2D	3D	Standard	CWA	SDWA
Project Manager: Tom Bynum		Address:		Analysis and Method				RCRA					
Address: <u>5614 N. Lovington Hwy.</u>		City, State, Zip						State					
City, State, Zip <u>Hobbs, NM, 88240</u>		Phone:						NM CO UT AZ TX					
Phone: <u>580-748-1613</u>		Email:						X					
Email: <u>tom@pimaoil.com</u>		Pima Project # <u>213</u>											
Report due by:													

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX	Remarks
9:50	2/13/23	S	1	CSW7	11							X		
9:55	↓	↓	↓	CSW8	12							↓		
10:00	↓	↓	↓	CSW9	13									
10:05	↓	↓	↓	CSW10	14							↓		

Additional Instructions:

Billing #: 21092707

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: Ned Rogers

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

Relinquished by: (Signature) <u>AB</u>	Date <u>2/14/23</u>	Time <u>2:00</u>	Received by: (Signature) <u>Michelle Cuyler</u>	Date <u>2-14-23</u>	Time <u>1400</u>	Lab Use Only
Relinquished by: (Signature) <u>Michelle Cuyler</u>	Date <u>2-14-23</u>	Time <u>1430</u>	Received by: (Signature) <u>Lorenzini</u>	Date <u>2-14-23</u>	Time <u>1630</u>	Received on ice: <u>Y</u> / N
Relinquished by: (Signature) <u>Lorenzini</u>	Date <u>2-14-23</u>	Time <u>2215</u>	Received by: (Signature) <u>Diane Ziegler</u>	Date <u>02/15/23</u>	Time <u>7:30</u>	T1 T2 T3
Sample Matrix: <u>S - Solid, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other</u>						AVG Temp °C <u>4.0</u>
Container Type: <u>g - glass, p - poly/plastic, ag - amber glass, v - VOA</u>						

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



Envirotech Analytical Laboratory

Printed: 2/15/2023 10:34:24AM

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:	02/15/23 07:30	Work Order ID:	E302070
Phone:	(575) 631-6977	Date Logged In:	02/14/23 16:13	Logged In By:	Alexa Michaels
Email:	tom@pimaoil.com	Due Date:	02/16/23 07:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
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: Courier**Comments/Resolution****Sample Turn Around Time (TAT)**

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

Sample Cooler

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

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 191311

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 191311
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	3/8/2023