

Incident ID	NDHR1913358110
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>&lt;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 <b>not</b> 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.

## Oil Conservation Division

Incident ID	NDHR1913358110
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Application ID	

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

Printed Name: Dale Woodall Title: Environmental Professional

Signature: Dale Woodall Date: 4/18/2023

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

**OCD Only**

Received by: Jocelyn Harimon Date: 04/18/2023

Incident ID	NDHR1913358110
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: Environmental Professional

Signature: Dale Woodall Date: 4/18/2023

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

**OCD Only**

Received by: Jocelyn Harimon Date: 04/18/2023

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



**Pima Environmental Services**  
**5614 N. Lovington Highway**  
**Hobbs, NM 88240**  
**575-964-7740**

April 17<sup>th</sup>, 2023

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

**Re: Site Assessment, Remediation, and Closure Report**  
**Rattlesnake 16 SWD #001**  
**API No. 30-025-42355**  
**GPS: Latitude 32.0441688 Longitude -103.4826937**  
**UL -- E, Sec. 16, T26S, R34E**  
**Lea County, NM**  
**NMOCD Ref. No. NDHR1913358110**

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to perform a spill assessment, remediation activities, and submit this closure report for a produced water release that occurred at the Rattlesnake 16 SWD #001 (Rattlesnake). The initial C-141 was submitted on April 3<sup>rd</sup>, 2019 (Appendix C). This incident was assigned Incident ID NDHR1913358110 by the New Mexico Oil Conservation Division (NMOCD).

### Site Characterization

The Rattlesnake is located approximately seventeen (17) miles southwest of Jal, NM. This spill site is in Unit E, Section 16, Township 26S, Range 34E, Latitude 32.0441688 Longitude -103.4826937, Lea County, NM. Figure 1 references a Location Map.

Per the New Mexico Bureau of Geology and Mineral Resources, the geology is in the eolian and piedmont deposits (Holocene to middle Pleistocene). The soil in this area is made up of Pyote and Maljamar fine sands, 0 to 3 percent slopes, eroded 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 in the area of the Rattlesnake (Figure 3).

According to the New Mexico Office of the State Engineer, depth to the nearest groundwater in this area is 200 feet below grade surface (BGS). According to the United States Geological Survey (USGS), the nearest groundwater is greater than 80.17 feet BGS. The closest waterway is the Red Bluff Reservoir, located approximately 26.24 miles to the southwest of this location. See Appendix A for referenced water surveys.

Table 1 NMAC and Closure Criteria 19.15.29					
Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50' (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

**NDHR1913358110:** On January 8<sup>th</sup>, 2019, the check valve failed on the H-pump discharge causing fluid to release onto the engineered pad. A total of 424 barrels of produced water was released, 400 barrels of produced water were recovered. The spill area measures approximately 1000' feet by 63' by 3" in depth.

**Remediation Activities, Site Assessment, and Soil Sampling Results**

On March 29<sup>th</sup>, 2023, Pima Environmental mobilized personnel to assess the impacted area. Pima sampled the areas surrounding the H-Pumps and collected a total of twenty-five soil samples for laboratory analysis. Six bottom samples (S1-S6) were collected at depths of 1, 3 and 4 feet to determine vertical delineation. Additionally, side wall samples (SW1-SW6) were collected at a depth of 6 inches to determine horizontal delineation. One background sample (BG1) was collected to determine natural occurring levels of chlorides located at the Rattlesnake. An initial site map can be found in Figure 4.

## 3-29-2023 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <50')								
DEVON ENERGY -RATTLESNAKE 16 SWD								
Sample Date: 3/29/2023			NM Approved Laboratory Results					
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S-1	1'	ND	ND	ND	ND	ND	0	88.6
	3'	ND	ND	ND	ND	ND	0	ND
	4'	ND	ND	ND	ND	ND	0	ND
S-2	1'	ND	ND	ND	ND	ND	0	91.9
	3'	ND	ND	ND	ND	ND	0	27.7
	4'	ND	ND	ND	ND	ND	0	ND
S-3	1'	ND	ND	ND	ND	ND	0	71.7
	3'	ND	ND	ND	ND	ND	0	25.7
	4'	ND	ND	ND	ND	ND	0	ND
S-4	1'	ND	ND	ND	25.6	ND	25.6	84.8
	3'	ND	ND	ND	ND	ND	0	23.3
	4'	ND	ND	ND	ND	ND	0	ND
S-5	1'	ND	ND	ND	ND	ND	0	451
	3'	ND	ND	ND	ND	ND	0	31.2
	4'	ND	ND	ND	ND	ND	0	31.7
S-6	1'	ND	ND	ND	ND	ND	0	429
	3'	ND	ND	ND	ND	ND	0	56.8
	4'	ND	ND	ND	ND	ND	0	27.1
SW 1	6"	ND	ND	ND	ND	ND	0	ND
SW 2	6"	ND	ND	ND	ND	ND	0	ND
SW 3	6"	ND	ND	ND	ND	ND	0	ND
SW 4	6"	ND	ND	ND	ND	ND	0	ND
SW 5	6"	ND	ND	ND	ND	ND	0	ND
SW 6	6"	ND	ND	ND	ND	ND	0	ND
BG 1	6"	ND	ND	ND	ND	ND	0	ND

ND: Analyte Non-Detect

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

**Closure Request**

Due to analytical levels falling below NMOCD closure criteria, no further action is required.

After careful review, Pima requests that this incident, NDHR1913358110 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 Sebastian Orozco at 619-721-4813 or [Sebastian@pimaoil.com](mailto:Sebastian@pimaoil.com).

Respectfully,

*Sebastian Orozco*

Sebastian Orozco  
Environmental Professional  
Pima Environment Services, LLC

**Attachments**

Figures:

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

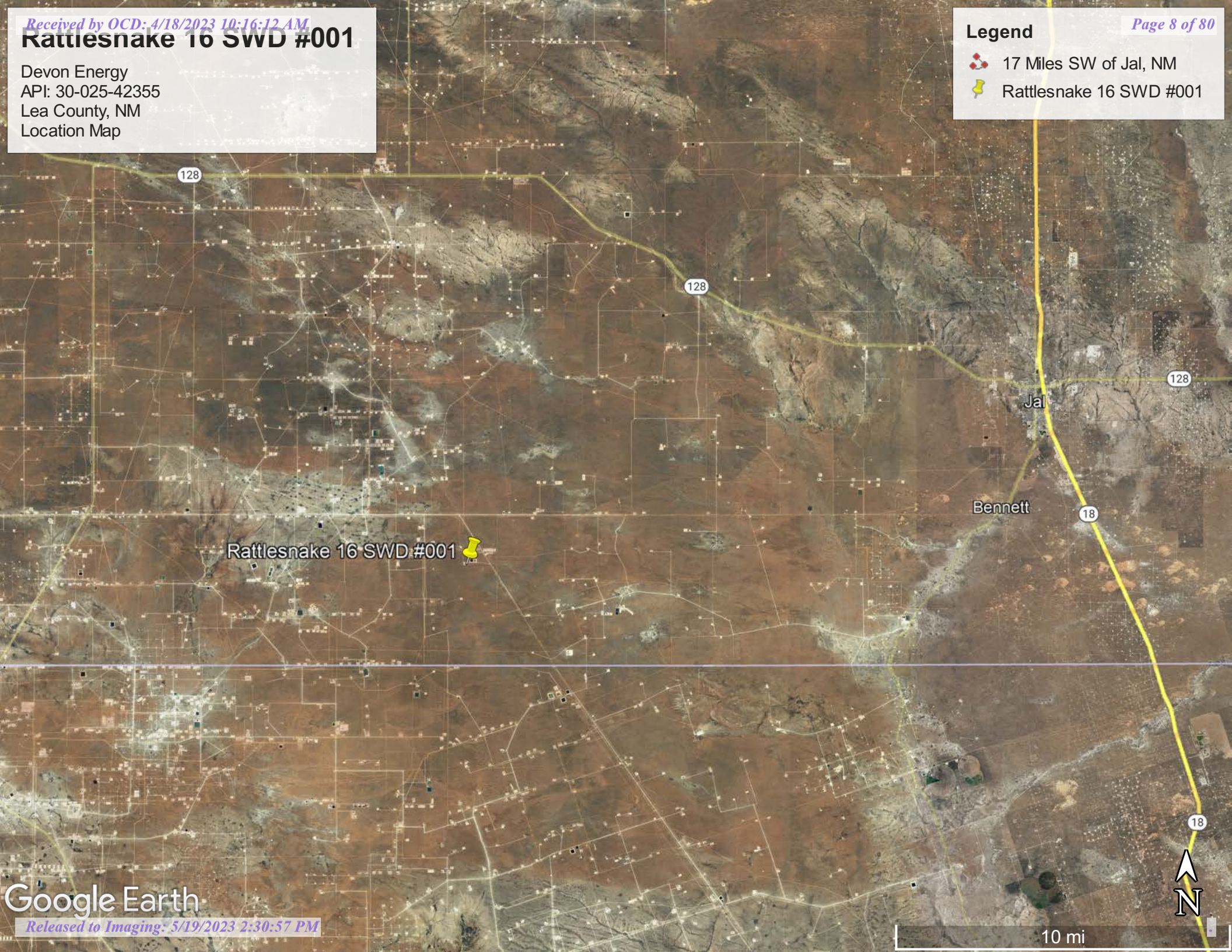


# Rattlesnake 16 SWD #001

Devon Energy  
API: 30-025-42355  
Lea County, NM  
Location Map

## Legend

-  17 Miles SW of Jal, NM
-  Rattlesnake 16 SWD #001




Rattlesnake 16 SWD #001

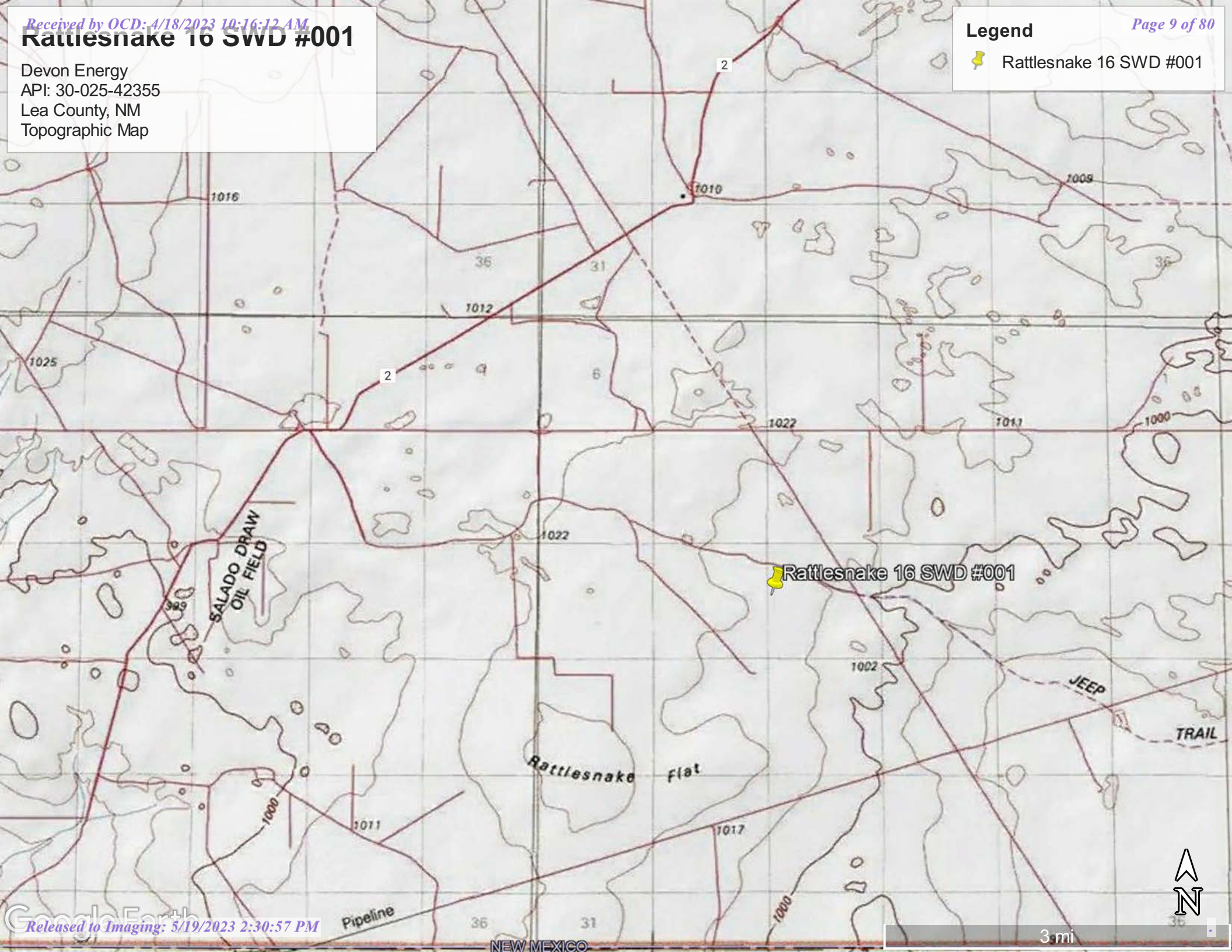


# Rattlesnake 16 SWD #001

Devon Energy  
API: 30-025-42355  
Lea County, NM  
Topographic Map

## Legend





 Rattlesnake 16 SWD #001

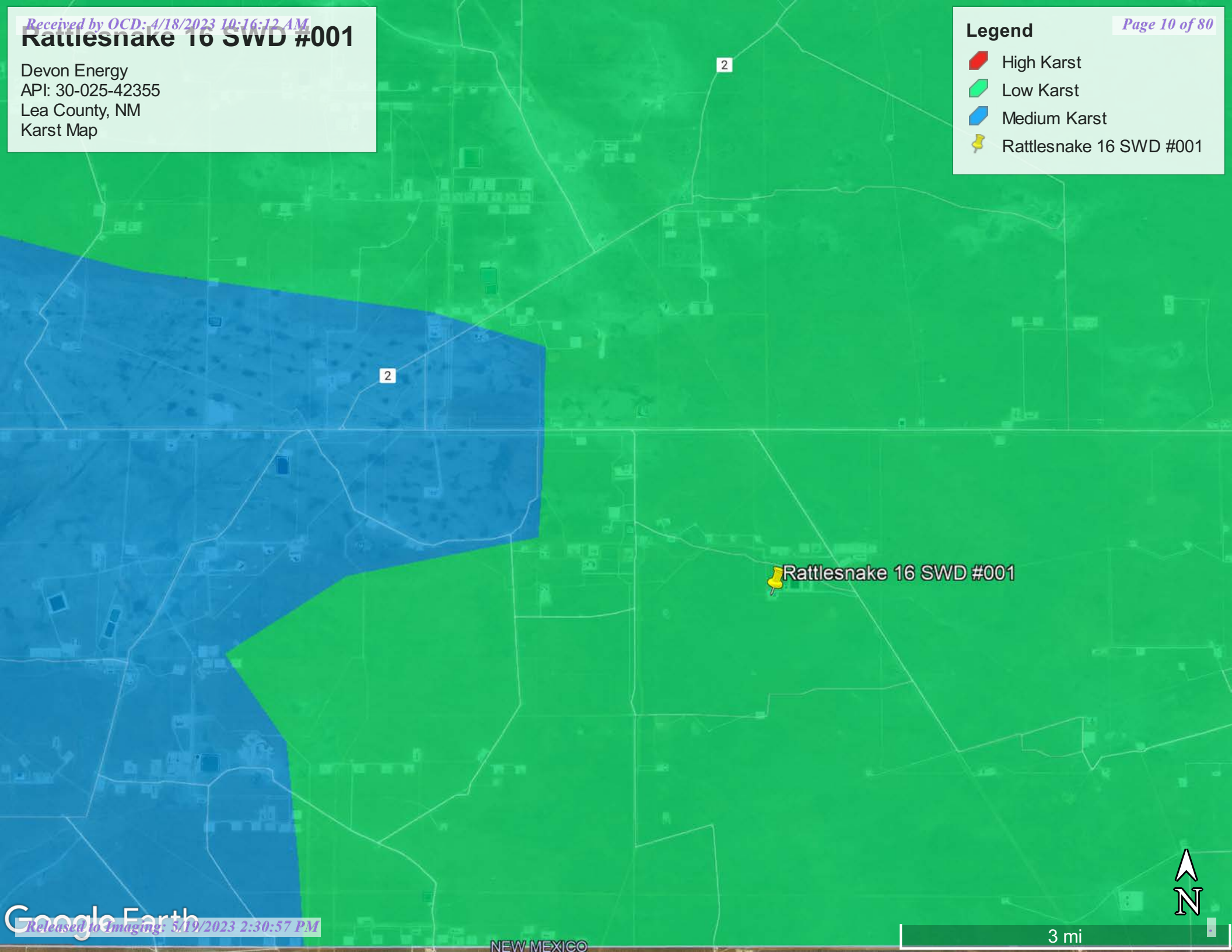


# Rattlesnake 16 SWD #001

Devon Energy  
API: 30-025-42355  
Lea County, NM  
Karst Map

## Legend

-  High Karst
-  Low Karst
-  Medium Karst
-  Rattlesnake 16 SWD #001





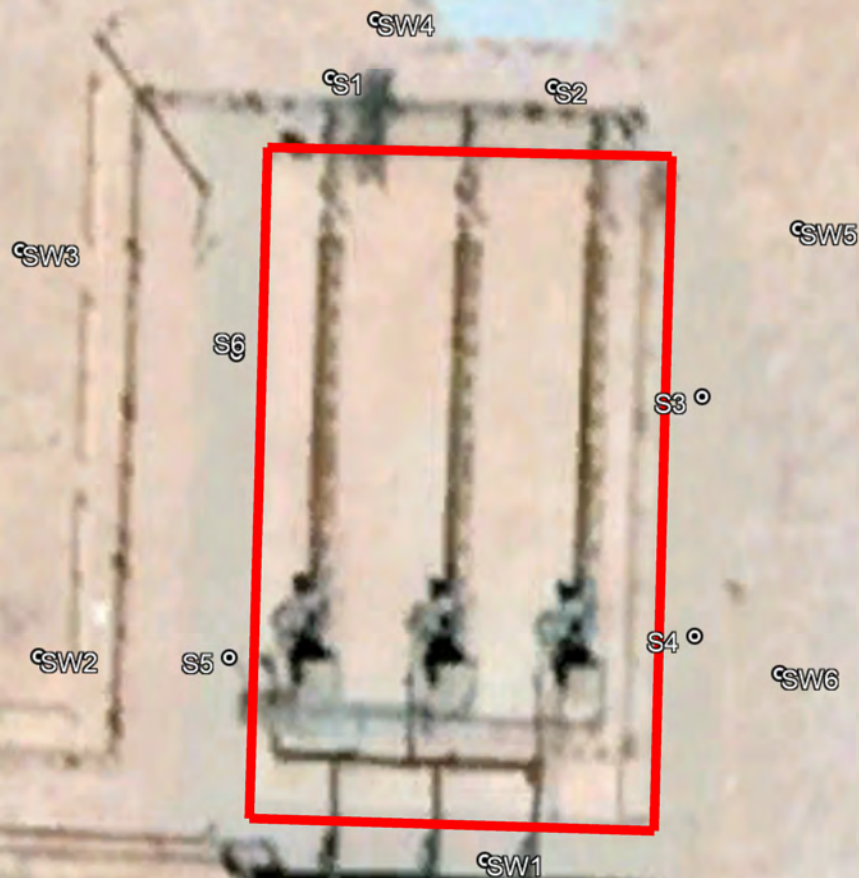


# Rattlesnake 16 SWD

Devon Energy  
NDHR1913358110  
Lea County, NM  
32.0441688,-103.4826937  
Site Map

## Legend

-  Concrete H-Pump Containment
-  Soil Sample



80 ft

Google Earth



Pima Environmental Services

**Appendix A**

Water Surveys:

OSE

USGS

Surface Water Map





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C_04583 POD1</a>		CUB	LE	3	3	3	15	26S	34E	644920	3545643	1801	55		
<a href="#">C_04626 POD1</a>		CUB	LE	4	2	1	18	26S	34E	640644	3546672	2634			
<a href="#">C_02295</a>		CUB	LE	2	2	4	12	26S	33E	639865	3547624	3628	250	200	50
<a href="#">C_02292 POD1</a>		CUB	LE	4	1	2	06	26S	34E	640992	3549987	4295	200	140	60
<a href="#">C_03442 POD1</a>		C	LE	4	1	2	06	26S	34E	641056	3550028	4297	251		
<a href="#">C_03441 POD1</a>		C	LE	4	1	2	06	26S	34E	640971	3550039	4351	250		
<a href="#">C_02291</a>		CUB	LE	1	1	2	06	26S	34E	640825	3550140*	4513	220	160	60

Average Depth to Water: **166 feet**

Minimum Depth: **140 feet**

Maximum Depth: **200 feet**

**Record Count:** 7

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 643257.18

**Northing (Y):** 3546337.47

**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.

2/23/23 10:48 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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## National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater ▼

Geographic Area:

United States ▼

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- [Full News](#) 

Groundwater levels for the Nation



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

## Search Results -- 1 sites found

site\_no list =

- 320056103333501

Minimum number of levels = 1

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

## USGS 320056103333501 26S.33E.27.21132

Available data for this site

Groundwater: Field measurements ▼

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

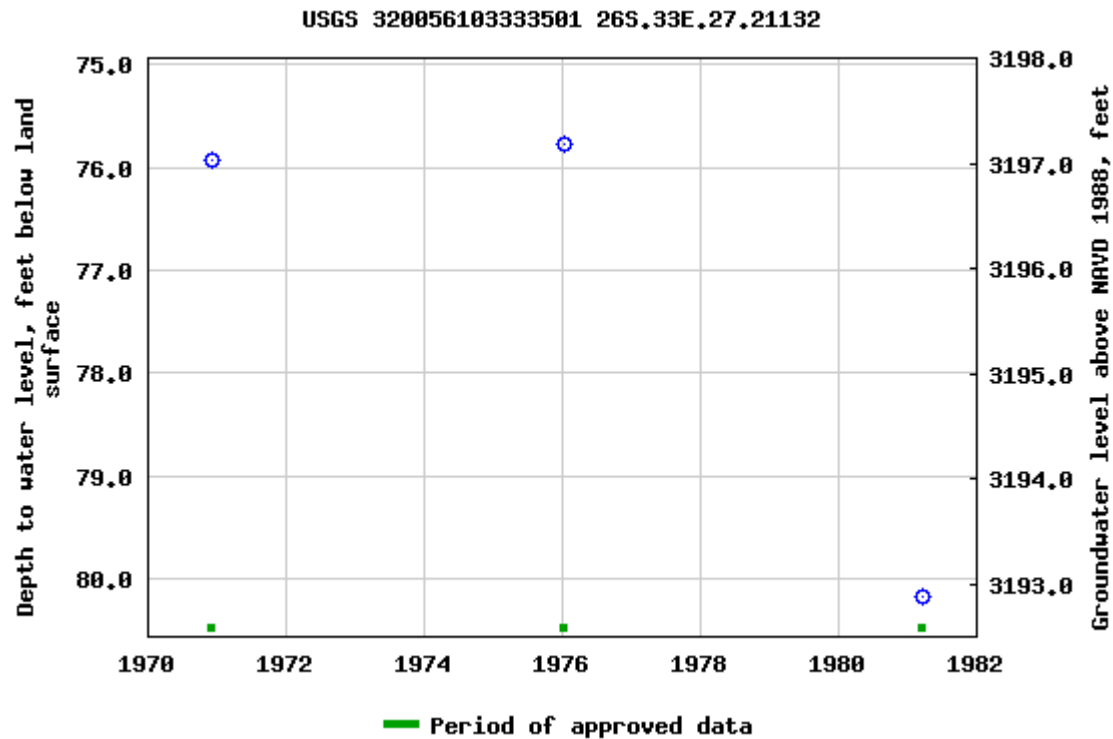
Latitude 32°00'56", Longitude 103°33'35" NAD27

Land-surface elevation 3,273 feet above NAVD88

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

## Output formats

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[Tab-separated data](#)
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[Reselect period](#)


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**Title: Groundwater for USA: Water Levels**

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



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

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0.57 0.49 nadww02





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Data Category:


Groundwater

Geographic Area:

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Groundwater levels for the Nation



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

## Search Results -- 1 sites found

site\_no list =

- 320059103333501

Minimum number of levels = 1

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

## USGS 320059103333501 26S.33E.27.21112

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070001

Latitude 32°01'16.0", Longitude 103°33'33.9" NAD83

Land-surface elevation 3,252.00 feet above NGVD29

The depth of the well is 200 feet below land surface.

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

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

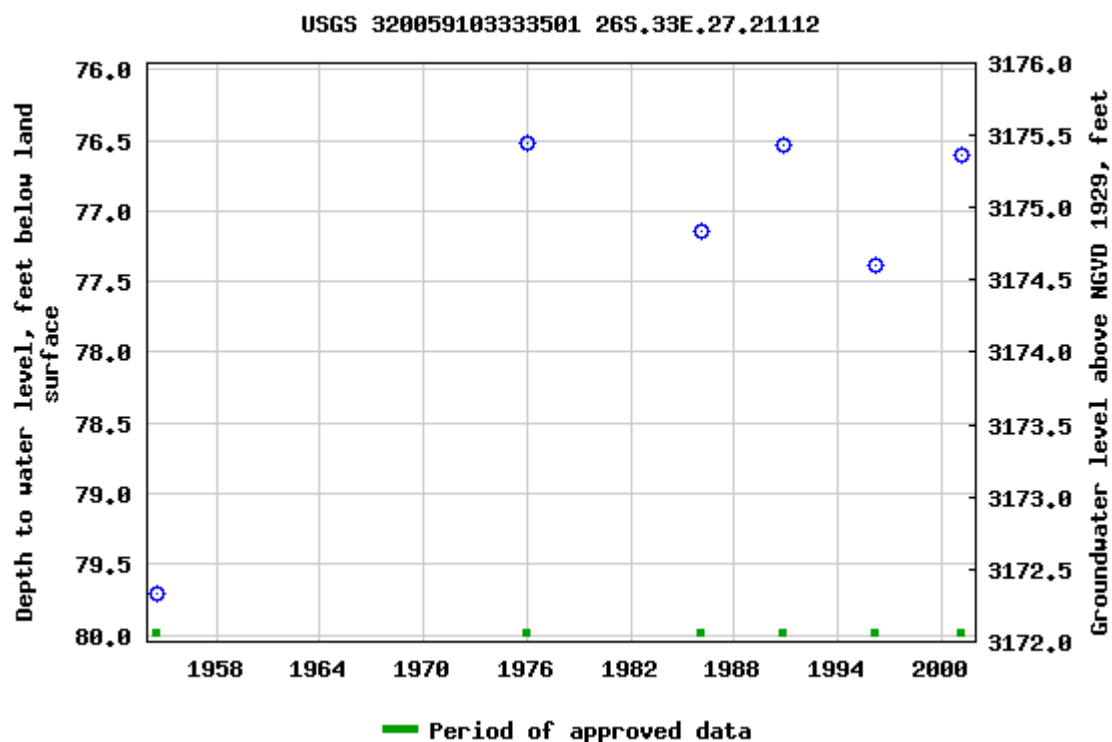
### Output formats

[Table of data](#)

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

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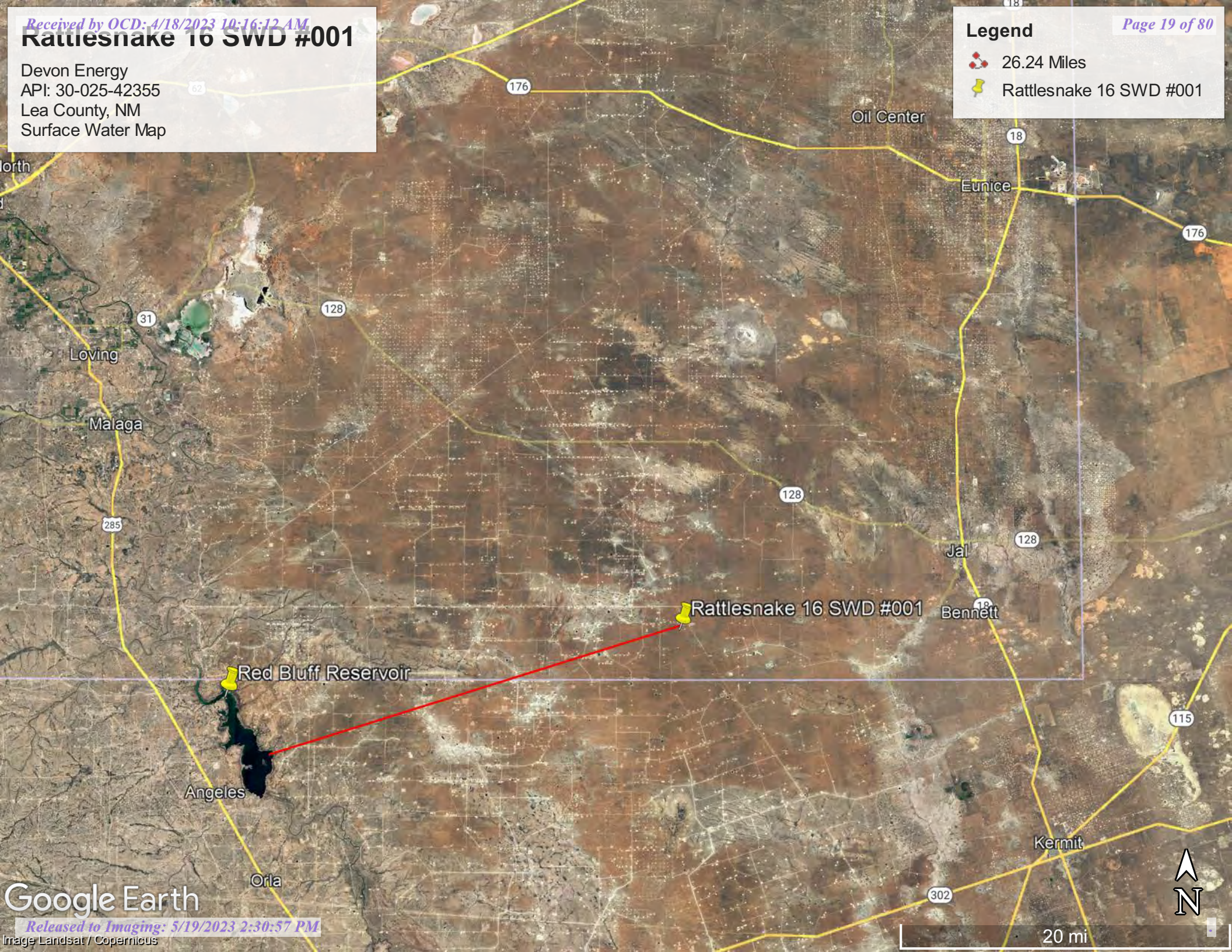


# Rattlesnake 16 SWD #001

Devon Energy  
API: 30-025-42355  
Lea County, NM  
Surface Water Map

## Legend

- 26.24 Miles
- Rattlesnake 16 SWD #001



Google Earth





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

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## 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

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*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 FIRMette



103°29'16"W 32°2'54"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		Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



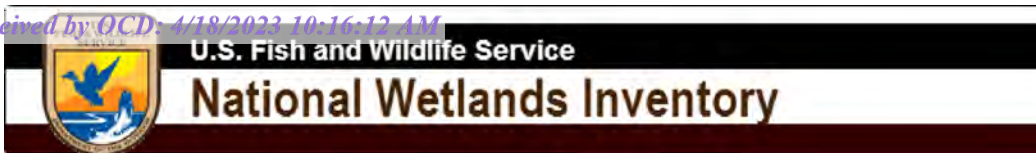
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **2/23/2023 at 12:50 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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





## Wetlands Map



February 23, 2023

**Wetlands**

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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



Pima Environmental Services

**Appendix C**

C-141 Form

48-Hour Notification

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	NDHR1913358110
District RP	1RP-5482
Facility ID	
Application ID	pDHR1913357695

## Release Notification

### Responsible Party

Responsible Party Devon Energy Production Company	OGRID 6137
Contact Name Amanda T. Davis	Contact Telephone 575-748-0176
Contact email amanda.davis@dvn.com	Incident # (assigned by OCD) NDHR1913358110
Contact mailing address 6488 Seven Rivers HWY	

### Location of Release Source

Latitude 32.0441688 Longitude -103.4826937  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Rattlesnake 16 SWD #001	Site Type Oil
Date Release Discovered 1/8/2019	API# (if applicable) 3002542355

Unit Letter	Section	Township	Range	County
E	16	26S	34E	Lea

Surface Owner: ☒ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 424	Volume Recovered (bbls) 400
	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 Check valve failed on H-pump discharge causing fluid release. Spill area 1000' x 63' x 3'

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

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

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

If all the actions described above have not been undertaken, explain why:

Not in containment.

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

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

Printed Name: Kendra DeHoyos

Title: EHS Associate

Signature: Kendra DeHoyos

Date: 4/3/2019

email: [kendra.dehoyos@dvn.com](mailto:kendra.dehoyos@dvn.com)

Telephone: 575-748-3371

**OCD Only**

Received by: Dylan Rose-Coss

Date: 05/13/2019

Incident ID	NDHR1913358110
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>&lt;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 <b>not</b> 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	NDHR1913358110
District RP	
Facility ID	
Application ID	

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

Printed Name: Dale Woodall Title: Environmental ProfessionalSignature: Dale Woodall Date: 4/18/2023email: dale.woodall@dv.com Telephone: 575-748-1839**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



Incident ID	NDHR1913358110
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: Environmental Professional

Signature: Dale Woodall Date: 4/18/2023

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

### OCD Only

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

Closure Approved by: Jennifer Nobui Date: 05/19/2023

Printed Name: Jennifer Nobui Title: Environmental Specialist A



Pima Environmental Services

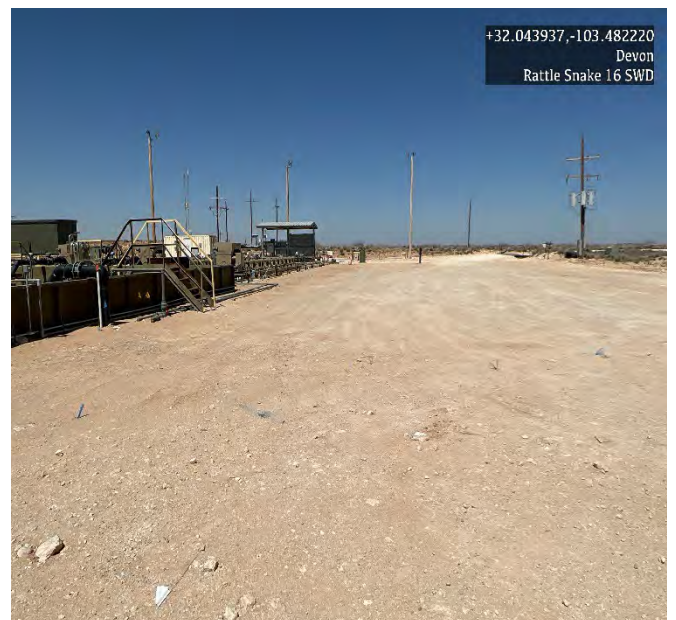
## **Appendix D**

Photographic Documentation

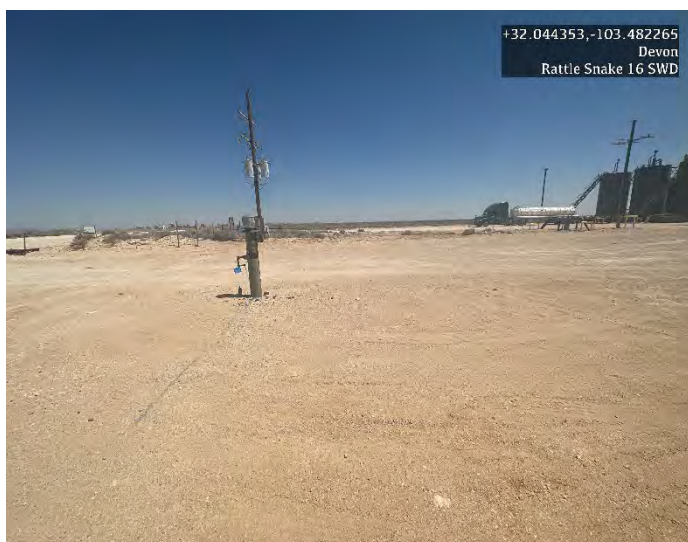
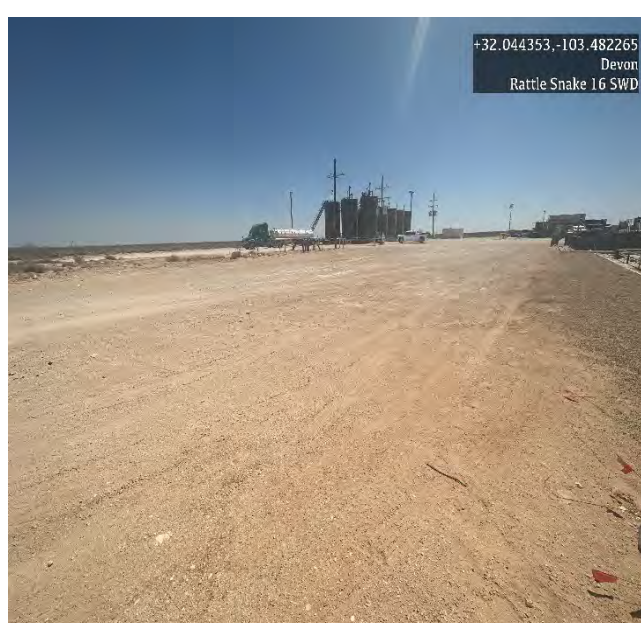
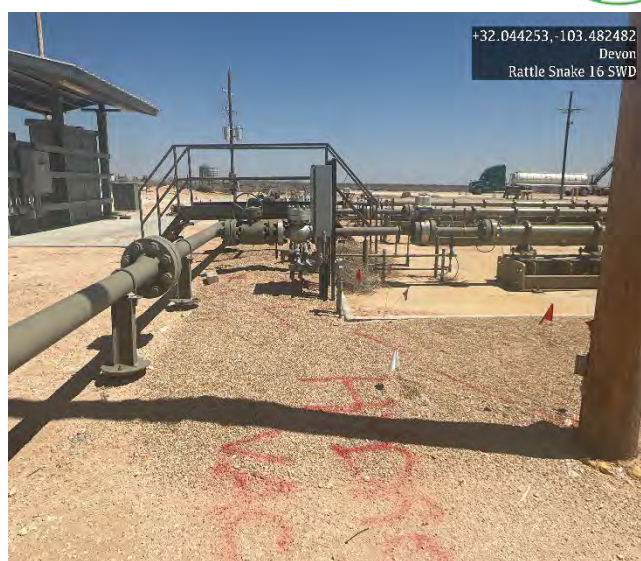


**SITE PHOTOGRAPHS  
DEVON ENERGY  
RATTLESNAKE 16 SWD 1**

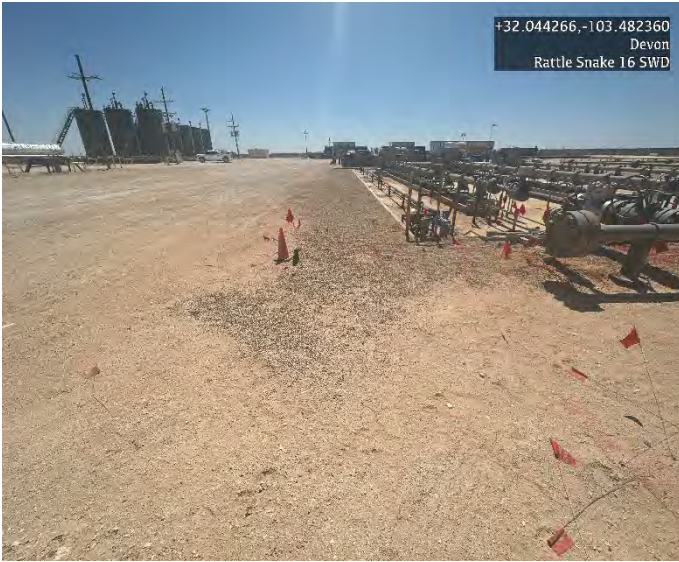
**Site Assessment**













Pima Environmental Services

## **Appendix E**

Laboratory Reports

Report to:  
Tom Bynum



5796 U.S. Hwy 64  
Farmington, NM 87401

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



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Rattle Snake 16 SWD

Work Order: E303155

Job Number: 01058-0007

Received: 3/31/2023

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
4/6/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
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: 4/6/23



Tom Bynum  
PO Box 247  
Plains, TX 79355-0247

Project Name: Rattle Snake 16 SWD  
Workorder: E303155  
Date Received: 3/31/2023 5:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/31/2023 5:45:00AM, under the Project Name: Rattle Snake 16 SWD.

The analytical test results summarized in this report with the Project Name: Rattle Snake 16 SWD apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

**Alexa Michaels**  
Sample Custody Officer  
Office: 505-632-1881  
[labadmin@envirotech-inc.com](mailto: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](mailto: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](http://www.envirotech-inc.com)



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## Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Rattle Snake 16 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/06/23 11:27

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E303155-01A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S2 - 1'	E303155-02A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S3 - 1'	E303155-03A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S4 - 1'	E303155-04A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S5 - 1'	E303155-05A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S6 - 1'	E303155-06A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S1 - 3'	E303155-07A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S2 - 3'	E303155-08A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S3 - 3'	E303155-09A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S4 - 3'	E303155-10A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S5 - 3'	E303155-11A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S6 - 3'	E303155-12A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S1 - 4'	E303155-13A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S2 - 4'	E303155-14A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S3 - 4'	E303155-15A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S4 - 4'	E303155-16A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S5 - 4'	E303155-17A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
S6 - 4'	E303155-18A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
SW1	E303155-19A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
SW2	E303155-20A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
SW3	E303155-21A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
SW4	E303155-22A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
SW5	E303155-23A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
SW6	E303155-24A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.
BG 1	E303155-25A	Soil	03/29/23	03/31/23	Glass Jar, 2 oz.



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S1 - 1'

E303155-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2313088	
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.9 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	103 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2313088	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.9 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	98.1 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	103 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: JL		Batch: 2313099	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
Surrogate: n-Nonane	106 %	50-200		04/01/23	04/04/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2313079	
Chloride	88.6	20.0	1	03/30/23	04/01/23	





## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S2 - 1'

E303155-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	93.6 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	93.6 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	96.3 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
Surrogate: n-Nonane	121 %	50-200		04/01/23	04/04/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	91.9	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S3 - 1'

E303155-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.5 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.5 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	93.7 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
Surrogate: n-Nonane	108 %	50-200		04/01/23	04/04/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	71.7	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S4 - 1'

E303155-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.7 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.7 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	94.1 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	25.6	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
Surrogate: n-Nonane	107 %	50-200		04/01/23	04/04/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	84.8	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S5 - 1'

E303155-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.5 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.5 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	92.6 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
Surrogate: n-Nonane	106 %	50-200		04/01/23	04/04/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	451	20.0	1	03/30/23	04/02/23	





## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S6 - 1'

E303155-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.9 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.9 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	94.6 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
Surrogate: n-Nonane	103 %	50-200		04/01/23	04/04/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	429	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S1 - 3'

E303155-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.9 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	106 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.9 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	92.0 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	106 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
Surrogate: n-Nonane	110 %	50-200		04/01/23	04/04/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	ND	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S2 - 3'

E303155-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	92.6 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	92.6 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	94.2 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
Surrogate: n-Nonane	106 %	50-200		04/01/23	04/04/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	27.7	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S3 - 3'

E303155-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.1 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	105 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.1 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	96.9 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	105 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/04/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/04/23	
Surrogate: n-Nonane	109 %	50-200		04/01/23	04/04/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	25.7	20.0	1	03/30/23	04/02/23	





## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S4 - 3'

E303155-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.7 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.7 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	95.2 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	107 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	23.3	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S5 - 3'

E303155-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	93.1 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	105 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	93.1 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	93.6 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	105 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	108 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	31.2	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S6 - 3'

E303155-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.8 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.8 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	109 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	56.8	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S1 - 4'

E303155-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.5 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	103 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.5 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	103 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	103 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	ND	20.0	1	03/30/23	04/02/23	





## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S2 - 4'

E303155-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.5 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	106 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.5 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	96.7 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	106 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	110 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	ND	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S3 - 4'

E303155-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.4 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	105 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	90.4 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	96.4 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	105 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	112 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	ND	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S4 - 4'

E303155-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.6 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.6 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	95.0 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	108 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	ND	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S5 - 4'

E303155-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.8 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	103 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.8 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	103 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	112 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	31.7	20.0	1	03/30/23	04/02/23	





## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

S6 - 4'

E303155-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.1 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	91.1 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	99.9 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	106 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	27.1	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

## SW1

## E303155-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	93.3 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	93.3 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	98.3 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	104 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	108 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	ND	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

## SW2

## E303155-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Benzene	ND	0.0250	1	03/31/23	04/01/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/01/23	
Toluene	ND	0.0250	1	03/31/23	04/01/23	
o-Xylene	ND	0.0250	1	03/31/23	04/01/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/01/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	92.0 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	103 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313088
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/01/23	
Surrogate: Bromofluorobenzene	92.0 %	70-130		03/31/23	04/01/23	
Surrogate: 1,2-Dichloroethane-d4	99.0 %	70-130		03/31/23	04/01/23	
Surrogate: Toluene-d8	103 %	70-130		03/31/23	04/01/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313099
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	111 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313079
Chloride	ND	20.0	1	03/30/23	04/02/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

## SW3

## E303155-21

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313086
Benzene	ND	0.0250	1	03/31/23	04/03/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/03/23	
Toluene	ND	0.0250	1	03/31/23	04/03/23	
o-Xylene	ND	0.0250	1	03/31/23	04/03/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/03/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/03/23	
Surrogate: Bromofluorobenzene		101 %	70-130	03/31/23	04/03/23	
Surrogate: 1,2-Dichloroethane-d4		119 %	70-130	03/31/23	04/03/23	
Surrogate: Toluene-d8		103 %	70-130	03/31/23	04/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313086
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/03/23	
Surrogate: Bromofluorobenzene		101 %	70-130	03/31/23	04/03/23	
Surrogate: 1,2-Dichloroethane-d4		119 %	70-130	03/31/23	04/03/23	
Surrogate: Toluene-d8		103 %	70-130	03/31/23	04/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane		109 %	50-200	04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

## SW4

## E303155-22

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313086
Benzene	ND	0.0250	1	03/31/23	04/03/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/03/23	
Toluene	ND	0.0250	1	03/31/23	04/03/23	
o-Xylene	ND	0.0250	1	03/31/23	04/03/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/03/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/03/23	
Surrogate: Bromofluorobenzene		102 %	70-130	03/31/23	04/03/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	03/31/23	04/03/23	
Surrogate: Toluene-d8		104 %	70-130	03/31/23	04/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313086
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/03/23	
Surrogate: Bromofluorobenzene		102 %	70-130	03/31/23	04/03/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	03/31/23	04/03/23	
Surrogate: Toluene-d8		104 %	70-130	03/31/23	04/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane		109 %	50-200	04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	





## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

## SW5

## E303155-23

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313086
Benzene	ND	0.0250	1	03/31/23	04/03/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/03/23	
Toluene	ND	0.0250	1	03/31/23	04/03/23	
o-Xylene	ND	0.0250	1	03/31/23	04/03/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/03/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/03/23	
Surrogate: Bromofluorobenzene		102 %	70-130	03/31/23	04/03/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	03/31/23	04/03/23	
Surrogate: Toluene-d8		105 %	70-130	03/31/23	04/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313086
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/03/23	
Surrogate: Bromofluorobenzene		102 %	70-130	03/31/23	04/03/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	03/31/23	04/03/23	
Surrogate: Toluene-d8		105 %	70-130	03/31/23	04/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane		109 %	50-200	04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

## SW6

## E303155-24

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313086
Benzene	ND	0.0250	1	03/31/23	04/03/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/03/23	
Toluene	ND	0.0250	1	03/31/23	04/03/23	
o-Xylene	ND	0.0250	1	03/31/23	04/03/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/03/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/03/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		03/31/23	04/03/23	
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		03/31/23	04/03/23	
Surrogate: Toluene-d8	105 %	70-130		03/31/23	04/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313086
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/03/23	
Surrogate: Bromofluorobenzene	98.7 %	70-130		03/31/23	04/03/23	
Surrogate: 1,2-Dichloroethane-d4	116 %	70-130		03/31/23	04/03/23	
Surrogate: Toluene-d8	105 %	70-130		03/31/23	04/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	108 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	



## Sample Data

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

Project Name: Rattle Snake 16 SWD  
Project Number: 01058-0007  
Project Manager: Tom Bynum

**Reported:**  
4/6/2023 11:27:33AM

## BG 1

## E303155-25

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313086
Benzene	ND	0.0250	1	03/31/23	04/03/23	
Ethylbenzene	ND	0.0250	1	03/31/23	04/03/23	
Toluene	ND	0.0250	1	03/31/23	04/03/23	
o-Xylene	ND	0.0250	1	03/31/23	04/03/23	
p,m-Xylene	ND	0.0500	1	03/31/23	04/03/23	
Total Xylenes	ND	0.0250	1	03/31/23	04/03/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		03/31/23	04/03/23	
Surrogate: 1,2-Dichloroethane-d4	117 %	70-130		03/31/23	04/03/23	
Surrogate: Toluene-d8	103 %	70-130		03/31/23	04/03/23	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2313086
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/31/23	04/03/23	
Surrogate: Bromofluorobenzene	99.5 %	70-130		03/31/23	04/03/23	
Surrogate: 1,2-Dichloroethane-d4	117 %	70-130		03/31/23	04/03/23	
Surrogate: Toluene-d8	103 %	70-130		03/31/23	04/03/23	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: JL		Batch: 2313100
Diesel Range Organics (C10-C28)	ND	25.0	1	04/01/23	04/05/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/01/23	04/05/23	
Surrogate: n-Nonane	110 %	50-200		04/01/23	04/05/23	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2313083
Chloride	ND	20.0	1	03/30/23	04/03/23	



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rattle Snake 16 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/6/2023 11:27:33AM

## Volatile Organic Compounds by EPA 8260B

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 (2313086-BLK1)

Prepared: 03/31/23 Analyzed: 04/03/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.594		0.500		119	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

## LCS (2313086-BS1)

Prepared: 03/31/23 Analyzed: 04/03/23

Benzene	2.45	0.0250	2.50		97.8	70-130			
Ethylbenzene	2.37	0.0250	2.50		95.0	70-130			
Toluene	2.47	0.0250	2.50		98.7	70-130			
o-Xylene	2.39	0.0250	2.50		95.4	70-130			
p,m-Xylene	4.73	0.0500	5.00		94.6	70-130			
Total Xylenes	7.12	0.0250	7.50		94.9	70-130			
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.583		0.500		117	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

## Matrix Spike (2313086-MS1)

Source: E303155-21

Prepared: 03/31/23 Analyzed: 04/03/23

Benzene	2.53	0.0250	2.50	ND	101	48-131			
Ethylbenzene	2.43	0.0250	2.50	ND	97.0	45-135			
Toluene	2.49	0.0250	2.50	ND	99.5	48-130			
o-Xylene	2.45	0.0250	2.50	ND	98.2	43-135			
p,m-Xylene	4.89	0.0500	5.00	ND	97.7	43-135			
Total Xylenes	7.34	0.0250	7.50	ND	97.9	43-135			
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.571		0.500		114	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			

## Matrix Spike Dup (2313086-MSD1)

Source: E303155-21

Prepared: 03/31/23 Analyzed: 04/03/23

Benzene	2.47	0.0250	2.50	ND	98.9	48-131	2.36	23	
Ethylbenzene	2.43	0.0250	2.50	ND	97.2	45-135	0.206	27	
Toluene	2.50	0.0250	2.50	ND	100	48-130	0.421	24	
o-Xylene	2.47	0.0250	2.50	ND	98.8	43-135	0.670	27	
p,m-Xylene	4.91	0.0500	5.00	ND	98.1	43-135	0.378	27	
Total Xylenes	7.38	0.0250	7.50	ND	98.4	43-135	0.476	27	
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.565		0.500		113	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rattle Snake 16 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/6/2023 11:27:33AM

## Volatile Organic Compounds by EPA 8260B

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 (2313088-BLK1)

Prepared: 03/31/23 Analyzed: 04/01/23

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.457		0.500		91.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

## LCS (2313088-BS1)

Prepared: 03/31/23 Analyzed: 04/01/23

Benzene	2.39	0.0250	2.50		95.7	70-130			
Ethylbenzene	2.40	0.0250	2.50		96.1	70-130			
Toluene	2.40	0.0250	2.50		96.1	70-130			
o-Xylene	2.44	0.0250	2.50		97.6	70-130			
p,m-Xylene	4.80	0.0500	5.00		96.1	70-130			
Total Xylenes	7.24	0.0250	7.50		96.6	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			

## Matrix Spike (2313088-MS1)

Source: E303155-01

Prepared: 03/31/23 Analyzed: 04/01/23

Benzene	2.32	0.0250	2.50	ND	92.9	48-131			
Ethylbenzene	2.33	0.0250	2.50	ND	93.3	45-135			
Toluene	2.34	0.0250	2.50	ND	93.7	48-130			
o-Xylene	2.35	0.0250	2.50	ND	94.2	43-135			
p,m-Xylene	4.67	0.0500	5.00	ND	93.4	43-135			
Total Xylenes	7.02	0.0250	7.50	ND	93.6	43-135			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.474		0.500		94.7	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

## Matrix Spike Dup (2313088-MSD1)

Source: E303155-01

Prepared: 03/31/23 Analyzed: 04/01/23

Benzene	2.39	0.0250	2.50	ND	95.5	48-131	2.68	23	
Ethylbenzene	2.43	0.0250	2.50	ND	97.1	45-135	3.99	27	
Toluene	2.39	0.0250	2.50	ND	95.6	48-130	2.05	24	
o-Xylene	2.42	0.0250	2.50	ND	96.7	43-135	2.66	27	
p,m-Xylene	4.80	0.0500	5.00	ND	96.0	43-135	2.77	27	
Total Xylenes	7.22	0.0250	7.50	ND	96.2	43-135	2.73	27	
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		0.500		97.6	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			





## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rattle Snake 16 SWD	<b>Reported:</b>
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/6/2023 11:27:33AM

## 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 (2313086-BLK1)

Prepared: 03/31/23 Analyzed: 04/03/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.514		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.594		0.500		119	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			

## LCS (2313086-BS2)

Prepared: 03/31/23 Analyzed: 04/03/23

Gasoline Range Organics (C6-C10)	51.3	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.518		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.584		0.500		117	70-130			
Surrogate: Toluene-d8	0.518		0.500		104	70-130			

## Matrix Spike (2313086-MS2)

Source: E303155-21

Prepared: 03/31/23 Analyzed: 04/03/23

Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.569		0.500		114	70-130			
Surrogate: Toluene-d8	0.520		0.500		104	70-130			

## Matrix Spike Dup (2313086-MSD2)

Source: E303155-21

Prepared: 03/31/23 Analyzed: 04/03/23

Gasoline Range Organics (C6-C10)	51.8	20.0	50.0	ND	104	70-130	1.22	20	
Surrogate: Bromofluorobenzene	0.525		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.567		0.500		113	70-130			
Surrogate: Toluene-d8	0.528		0.500		106	70-130			



## QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rattle Snake 16 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/6/2023 11:27:33AM

## 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 (2313088-BLK1)

Prepared: 03/31/23 Analyzed: 04/01/23

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.457		0.500		91.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.522		0.500		104	70-130			

## LCS (2313088-BS2)

Prepared: 03/31/23 Analyzed: 04/01/23

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: Bromofluorobenzene	0.491		0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.5	70-130			
Surrogate: Toluene-d8	0.513		0.500		103	70-130			

## Matrix Spike (2313088-MS2)

Source: E303155-01

Prepared: 03/31/23 Analyzed: 04/01/23

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130			
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		100	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			

## Matrix Spike Dup (2313088-MSD2)

Source: E303155-01

Prepared: 03/31/23 Analyzed: 04/01/23

Gasoline Range Organics (C6-C10)	50.9	20.0	50.0	ND	102	70-130	1.45	20	
Surrogate: Bromofluorobenzene	0.493		0.500		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.517		0.500		103	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rattle Snake 16 SWD	Reported:  4/6/2023 11:27:33AM
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 (2313099-BLK1)					Prepared: 04/01/23 Analyzed: 04/04/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	54.0		50.0		108	50-200			

LCS (2313099-BS1)					Prepared: 04/01/23 Analyzed: 04/04/23				
Diesel Range Organics (C10-C28)	277	25.0	250		111	38-132			
Surrogate: n-Nonane	52.5		50.0		105	50-200			

Matrix Spike (2313099-MS1)					Source: E303155-07		Prepared: 04/01/23 Analyzed: 04/04/23		
Diesel Range Organics (C10-C28)	297	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	52.0		50.0		104	50-200			

Matrix Spike Dup (2313099-MSD1)					Source: E303155-07		Prepared: 04/01/23 Analyzed: 04/04/23		
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132	4.68	20	
Surrogate: n-Nonane	50.3		50.0		101	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rattle Snake 16 SWD	Reported:  4/6/2023 11:27:33AM
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 (2313100-BLK1)					Prepared: 04/01/23 Analyzed: 04/05/23				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	59.2		50.0		118	50-200			

LCS (2313100-BS1)					Prepared: 04/01/23 Analyzed: 04/05/23				
Diesel Range Organics (C10-C28)	282	25.0	250		113	38-132			
Surrogate: n-Nonane	57.0		50.0		114	50-200			

Matrix Spike (2313100-MS1)					Source: E303154-26		Prepared: 04/01/23 Analyzed: 04/05/23		
Diesel Range Organics (C10-C28)	298	25.0	250	ND	119	38-132			
Surrogate: n-Nonane	55.9		50.0		112	50-200			

Matrix Spike Dup (2313100-MSD1)					Source: E303154-26		Prepared: 04/01/23 Analyzed: 04/05/23		
Diesel Range Organics (C10-C28)	299	25.0	250	ND	120	38-132	0.291	20	
Surrogate: n-Nonane	55.5		50.0		111	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rattle Snake 16 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/6/2023 11:27:33AM

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 (2313079-BLK1)					Prepared: 03/30/23 Analyzed: 04/01/23				
Chloride	ND	20.0							
LCS (2313079-BS1)					Prepared: 03/30/23 Analyzed: 04/01/23				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2313079-MS1)					Source: E303155-01		Prepared: 03/30/23 Analyzed: 04/02/23		
Chloride	332	20.0	250	88.6	97.4	80-120			
Matrix Spike Dup (2313079-MSD1)					Source: E303155-01		Prepared: 03/30/23 Analyzed: 04/02/23		
Chloride	351	20.0	250	88.6	105	80-120	5.56	20	





QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Rattle Snake 16 SWD	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	4/6/2023 11:27:33AM

Anions by EPA 300.0/9056A

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2313083-BLK1)					Prepared: 03/30/23 Analyzed: 04/03/23				
Chloride	ND	20.0							
LCS (2313083-BS1)					Prepared: 03/30/23 Analyzed: 04/03/23				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2313083-MS1)					Source: E303154-21		Prepared: 03/30/23 Analyzed: 04/03/23		
Chloride	267	20.0	250	ND	107	80-120			
Matrix Spike Dup (2313083-MSD1)					Source: E303154-21		Prepared: 03/30/23 Analyzed: 04/03/23		
Chloride	268	20.0	250	ND	107	80-120	0.306	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:	Rattle Snake 16 SWD	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	04/06/23 11:27

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

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

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



## Project Information

## Chain of Custody

Page 1 of 3

Client: Pima Environmental Services Project: <u>Rattle Snake Lake SWD</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-267</u>					Lab Use Only Lab WO# <u>E303155</u> Job Number <u>01036-0007</u> Analysis and Method					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	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX							
1:05 pm	3/29/23	S	1	S1-1'	1							X								
1:10				S2-1'	2															
1:15				S3-1'	3															
1:20				S4-1'	4															
1:25				S5-1'	5															
1:30				S6-1'	6															
1:35				S1-3'	7															
1:40				S2-3'	8															
1:45				S3-3'	9															
1:50				S4-3'	10															
Additional Instructions: <u>Billing#: 21130338</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.																				
Relinquished by: (Signature) <u>AB</u> Date <u>3-30-23</u> Time <u>2:00</u> Received by: (Signature) <u>Michelle Gonzales</u> Date <u>3-30-23</u> Time <u>1400</u>																				
Relinquished by: (Signature) <u>Michelle Gonzales</u> Date <u>3-30-23</u> Time <u>1730</u> Received by: (Signature) <u>Lorens Ler</u> Date <u>3-30-23</u> Time <u>1736</u>																				
Relinquished by: (Signature) <u>Lorens Ler</u> Date <u>3-30-23</u> Time <u>2319</u> Received by: (Signature) <u>Alvin</u> Date <u>3-31-23</u> Time <u>5:45</u>																				
Sample Matrix: <u>S</u> - Soil, <u>Sl</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 3

Client: Pima Environmental Services Project: <u>Rattle Snake Island</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-267</u>					Lab Use Only Lab WO# <u>E303155</u> Job Number <u>01058-0007</u> Analysis and Method					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	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX							
1:55	3/29/23	S	1	S5-3'	11							X								
2:00				S6-3'	12															
2:05				S1-4'	13															
2:10				S2-4'	14															
2:15				S3-4'	15															
2:20				S4-4'	16															
2:25				S5-4'	17															
2:30				S6-4'	18															
2:35				SW1	19															
2:40				SW2	20															
Additional Instructions: <u>Billing# 21130338</u>																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Audriana Benavides</u>																				
Relinquished by: (Signature) <u>AB</u>		Date	Time	Received by: (Signature) <u>Michelle Campbell</u>		Date	Time	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>Michelle Campbell</u>		Date	Time	Received by: (Signature) <u>Lorenzo Lee</u>		Date	Time	Lab Use Only Received on ice: <u>Y</u> N												
Relinquished by: (Signature) <u>Lorenzo Lee</u>		Date	Time	Received by: (Signature) <u>Ally</u>		Date	Time	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.																				

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## Project Information

## Chain of Custody

Page 3 of 3

Client: Pima Environmental Services Project: <u>Rattle Snake 110 SWB</u> Project Manager: Tom Bynum Address: 5614 N. Lovington Hwy. City, State, Zip: Hobbs, NM, 88240 Phone: 580-748-1613 Email: tom@pimaoil.com Report due by:					Bill To Attention: <u>Devon</u> Address: City, State, Zip: Phone: Email: Pima Project # <u>1-267</u>					Lab Use Only Lab WO# <u>E303155</u> Job Number <u>0058-0007</u> Analysis and Method						TAT 1D 2D 3D Standard				EPA Program CWA SDWA	
											State NM CO UT AZ TX				RCRA						
											Remarks										
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								
2:45	3/29/23	S	1	SW3	21							X									
2:50				SW4	22																
2:55				SW5	23																
3:00				SW6	24																
3:05				BG1	25																

## Additional Instructions:

Billing # 21130338

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.					
Relinquished by: (Signature) <u>AB</u> Date <u>3-30-23</u> Time <u>2:00</u>						Received by: (Signature) <u>Audriana Benavidez</u> Date <u>3-30-23</u> Time <u>1400</u>					
Relinquished by: (Signature) <u>Michelle Gonzalez</u> Date <u>3-30-23</u> Time <u>1730</u>						Received by: (Signature) <u>Forenza</u> Date <u>3-30-23</u> Time <u>1730</u>					
Relinquished by: (Signature) <u>Forenza</u> Date <u>3-30-23</u> Time <u>2315</u>						Received by: (Signature) <u>Forenza</u> Date <u>3-31-23</u> Time <u>5:45</u>					
Sample Matrix: S - Soil, sd - Solid, Sg - Sludge, A - Aqueous, O - Other						Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA					
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.											


**envirotech**



## Envirotech Analytical Laboratory

Printed: 3/31/2023 10:01:13AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Pima Environmental Services-Carlsbad	Date Received:	03/31/23 05:45	Work Order ID:	E303155
Phone:	(575) 631-6977	Date Logged In:	03/30/23 15:51	Logged In By:	Caitlin Christian
Email:	tom@pimaoil.com	Due Date:	04/06/23 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

**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 208696

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 208696
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	5/19/2023