

Volume calculator

There was no volume calculator prepared when the spill occurred.



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

April 3, 2024

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

Re: Site Characteristic and Remediation Plan Report
Sea Snake 35 State 1H
API No. 30-025-41625
GPS: Latitude 32.2544518 Longitude -103.5474319
UL –M, Section 35, T23S, R33E
Lea County, NM
NMOCD Ref. No. NT01431629657

Pima Environmental Services, LLC. (Pima) has been contracted by Devon Energy Production Company, LP (Devon) to prepare this Site Characteristic and Remediation Plan Report for a freshwater mud release that occurred at the Sea Snake 35 State 1H (Sea Snake). The initial C-141 was submitted on December 15, 2023 (Appendix C). This incident was assigned Incident ID NTO1431629657 by the New Mexico Oil Conservation Division (NMOCD).

Site Characterization

The Sea Snake is located approximately twenty-six (26) miles southeast of Eunice, NM. This spill site is in Unit M, Section 35, Township 23S, Range 33E, Latitude 32.2544518 Longitude -103.5474319, Lea County, NM. Figure 1 references a Location Map.

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

Based on the well water data from the New Mexico Office of the State Engineer water well (C-04753), the depth to the nearest groundwater in this vicinity measures 55 feet below grade surface (BGS), positioned 0.12 miles away from the Sea Snake, drilled, July 27, 2023. Conversely, as per the United States Geological Survey well water data (USGS321312103395601), the nearest groundwater depth in this region is recorded at 38 feet BGS, situated approximately 1.58 miles away from the Sea Snake, with the last gauge conducted in 2006. For detailed references to water surveys and the precise locations of water wells, please refer to Appendix A, inclusive of the relevant maps.

Table 1 NMAC and Closure Criteria 19.15.29

Depth to Groundwater (Appendix A)	Constituent & Limits				
	Chlorides	Total TPH	GRO+DRO	BTEX	Benzene
<50'	600 mg/kg	100 mg/kg		50 mg/kg	10 mg/kg
51-100' (C-04753)	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

Sea Snake 35 State 1H|Devon Energy

Reference Figure 2 for a Topographic Map.

Release Information

NTO1431629657: On November 9, 2014, a (BOP) blow out preventer driller was orienting tool face on motor to run through whipstock. The released fluids were calculated to be approximately 14 barrels (bbls) of Drilling Mud Fresh Water. A vacuum truck was able to recover 13 bbls of standing fluid. The Area was approximately 1600 sq ft,

Remediation Activities, Site Assessment, and Soil Sampling Results

On March 21, 2024, Pima mobilized personnel to the site to begin collecting soil samples from the spill area. The laboratory results of this sampling event can be found in the following data table. A Site Map can be found in Figure 4.

3-21-24 Soil Sample Results

NMOCD Table 1 Closure Criteria 19.15.29 NMAC (Depth to Groundwater is <51-100')								
DEVON ENERGY -SEA SNAKE 35 STATE#001H - nTO1431629657								
Sample Date: 3-21-24 NM Approved Laboratory Results								
Sample ID	Depth (BGS)	BTEX mg/kg	Benzene mg/kg	GRO mg/kg	DRO mg/kg	MRO mg/kg	Total TPH mg/kg	Cl mg/kg
S1	1'	1.68	ND	170	13900	5280	19351.68	1260
	2'	ND	ND	ND	ND	ND	0	451
	3'	ND	ND	ND	ND	ND	0	196
	4'	ND	ND	ND	25.6	ND	25.6	84.2
S2	1'	1.9	ND	142	12100	4300	16543.9	1310
	2'	ND	ND	ND	ND	ND	0	388
	3'	ND	ND	ND	ND	ND	0	166
	4'	ND	ND	ND	27.1	ND	27.1	79.2
S3	1'	3.73	ND	189	14400	5390	19982.73	961
	2'	ND	ND	ND	ND	ND	0	385
	3'	ND	ND	ND	ND	ND	0	161
	4'	ND	ND	ND	ND	ND	0	96.5
SW1	1'	ND	ND	ND	ND	ND	0	363
SW2	1'	ND	ND	ND	ND	ND	0	397
SW3	1'	ND	ND	ND	ND	ND	0	333
SW4	1'	ND	ND	ND	ND	ND	0	230
BG1	1'	ND	ND	ND	ND	ND	0	ND

ND- Analyte Not Detected

Complete laboratory reports can be found in Appendix E.

Remediation Work Plan

On behalf of Devon, Pima proposes to remediate this area by the following method:

1. Submit a one-call through the NM811 system.
2. This is an active pad site that is still needed for drilling, producing, storing, disposing, injecting, transporting, servicing, or processing of crude oil and/or natural gas and their by-products.
3. We propose to excavate the affected area using mechanical and hand equipment. Site Map can be found in figure 4.
4. The estimated volume of soil to be remediated is approximately 59 cubic yards. This is based on a 200 square foot area with an average depth of 1' bgs.
5. After Devon submits a 48-hour notification, we will collect a 5-point composite sample from the excavated area in red on the Horizontal Delineation Map found in Figure 5. These sample points will include S1–S8, SW1–SW10
6. A total final of 18 composite samples will be collected, jarred, and delivered to the lab for official testing.
7. Upon final receipt of lab reports showing contamination levels are under the regulatory limits of Table 1 NMAC 19.15.29, and complete delineation horizontally, a new closure report will be drafted and submitted to the NMOCD portal for review and approval.

On behalf of Devon, Pima would like to request approval of this remediation work plan. Work can begin within 30 days of approval, contingent upon personnel and equipment scheduling.

For questions or additional information, please feel free to contact:

Devon -Dale Woodall at 575-748-1838 or Dale.Woodall@dvn.com.

Pima Environmental Services-Gio Gomez at 806-782-1151 or gio@pimaoil.com.

Respectfully,



Gio Gomez

Project Manager

Pima Environmental Services, LLC

Attachments

Figures:

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

Appendices:

Appendix A – Referenced Water Surveys

Appendix B – Soil Survey and Geological Data

Appendix D – Photographic Documentation

Appendix E – Laboratory Reports



Pima Environmental Services



Figures:

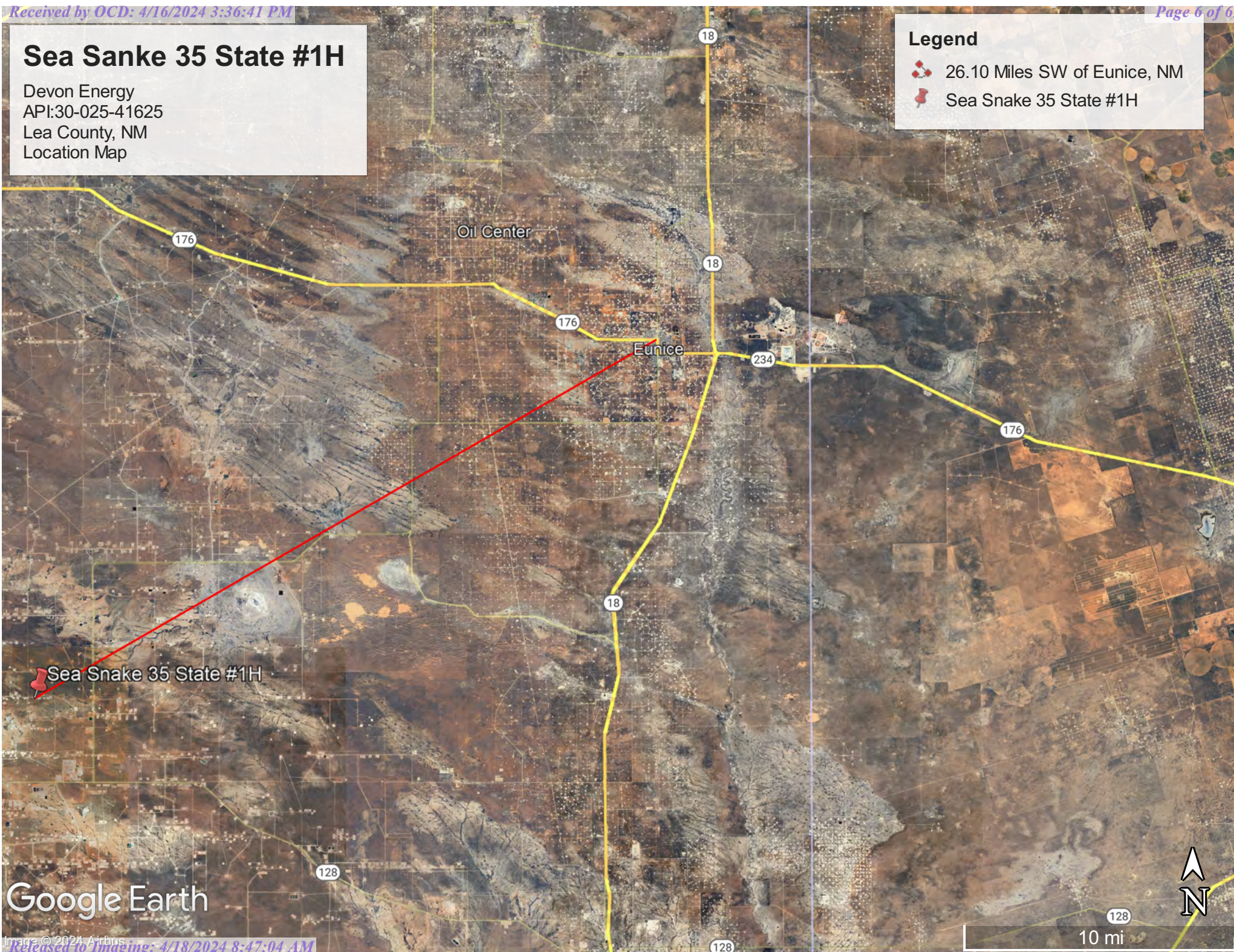
1. Locaton Map
2. Topographic Map
3. Karst Map
4. Site Map

Sea Snake 35 State #1H

Devon Energy
API:30-025-41625
Lea County, NM
Location Map

Legend


-  26.10 Miles SW of Eunice, NM
-  Sea Snake 35 State #1H

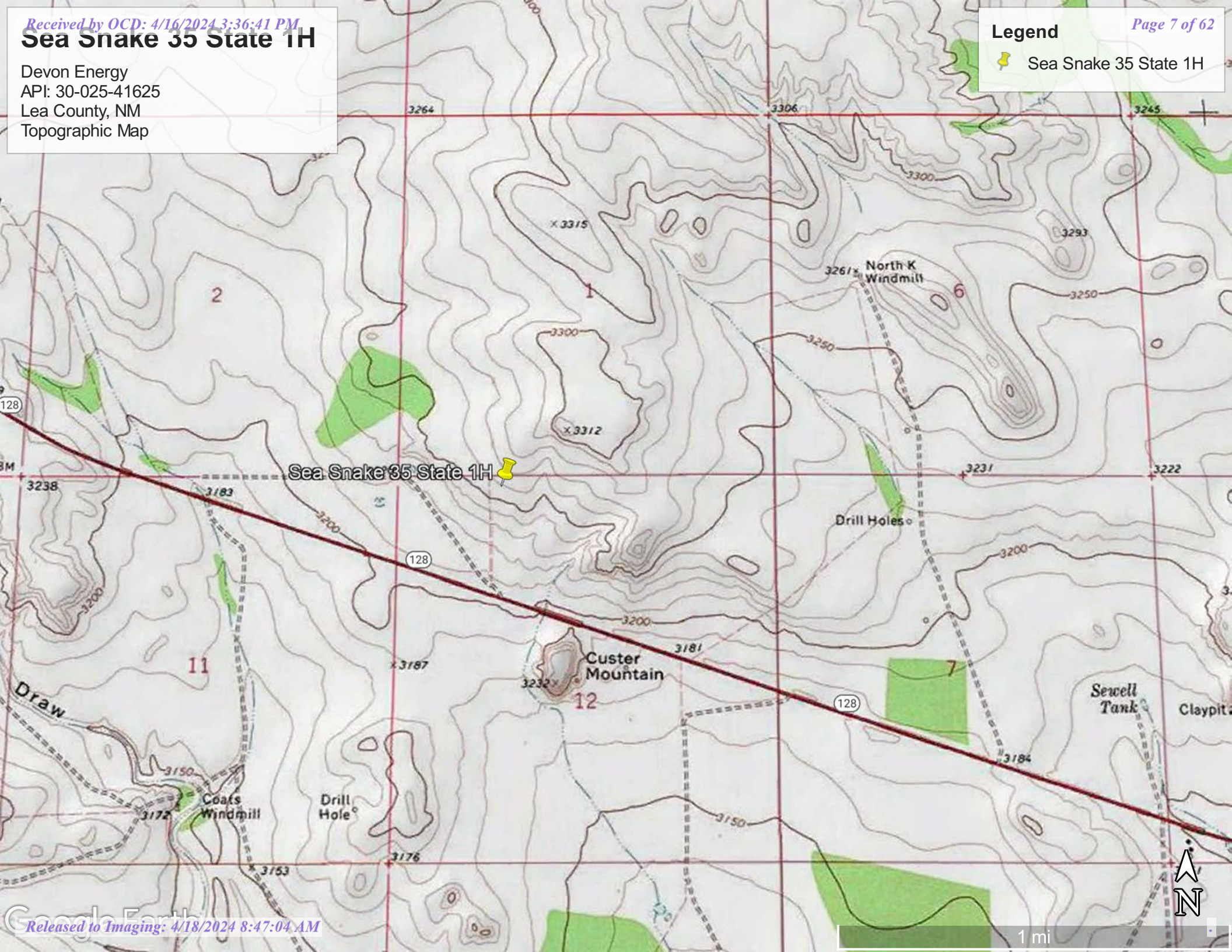


Google Earth

Devon Energy
API: 30-025-41625
Lea County, NM
Topographic Map

Legend

 Sea Snake 35 State 1H



Sea Snake 35 State 1H

Devon Energy
API: 30-025-41625
Lea County, NM
Karst Map

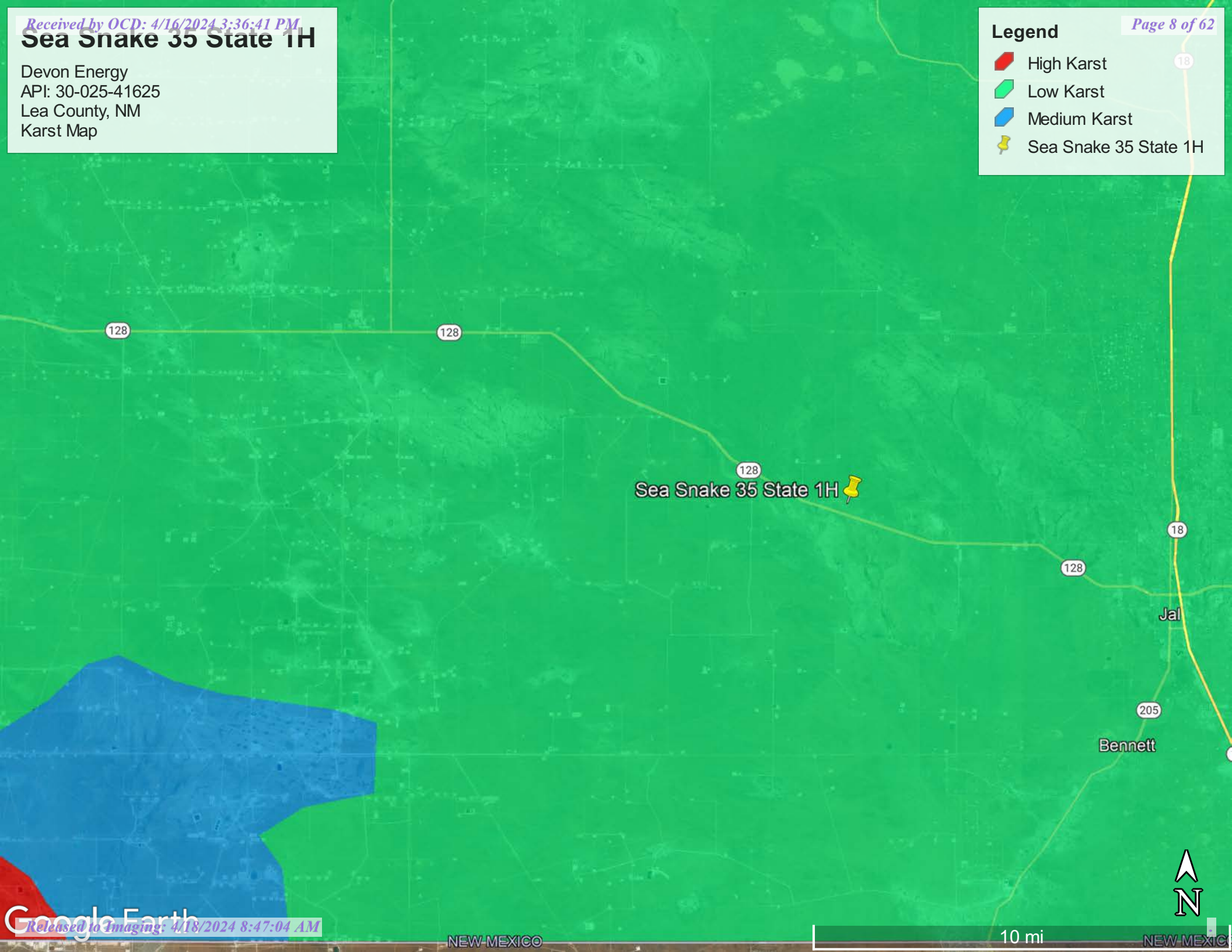
Legend

 High Karst

 Low Karst

 Medium Karst





 Sea Snake 35 State 1H

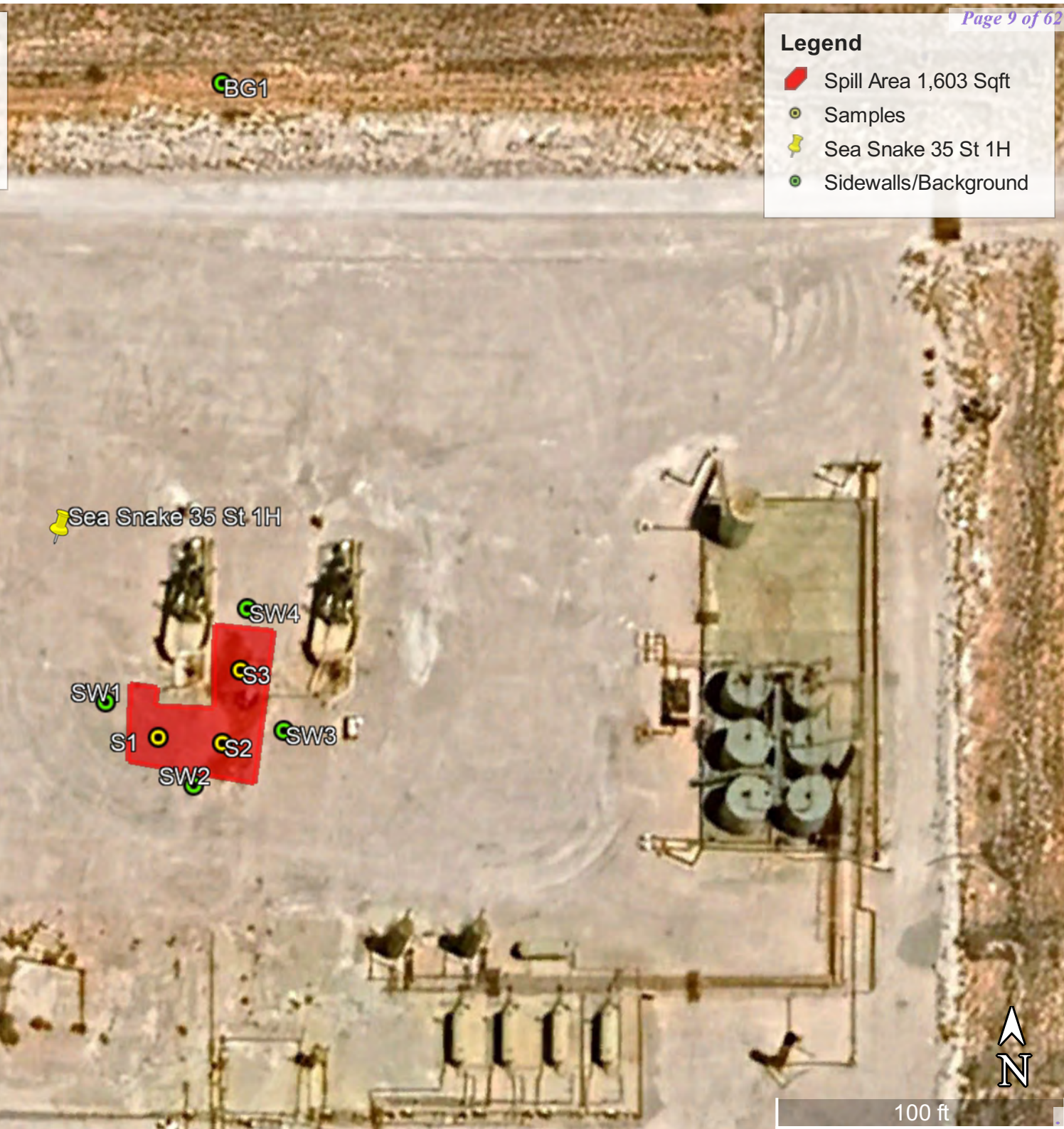


Sea Snake 35 State 1H

Devon Energy
API: 30-025-41625
Lea County, NM
Site Map

Legend

-  Spill Area 1,603 Sqft
-  Samples
-  Sea Snake 35 St 1H
-  Sidewalls/Background



Google Earth

100 ft



Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS

Surface Water Map



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

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

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C 04753 POD1		CUB	LE	4	4	3	35	23S	33E	637075	3569526	248	55		
C 04595 POD1		CUB	LE	4	3	3	34	23S	33E	635150	3569564	1680	55		
C 02284		CUB	LE	4	2	4	26	23S	33E	637907	3571626*	2325	325	225	100
C 04014 POD5		CUB	LE	1	4	2	01	24S	33E	639284	3569086	2500	95	85	10
C 04014 POD4		CUB	LE	3	4	2	01	24S	33E	639295	3568859	2564	96	86	10
C 04741 POD1		CUB	LE	1	2	4	10	24S	33E	636076	3567039	2635	55		
C 04014 POD3		CUB	LE	2	4	2	01	24S	33E	639497	3569007	2725	95	87	8
C 02281		CUB	LE	3	4	4	28	23S	33E	634495	3571183*	2840	545	400	145
C 02308		CUB	LE	1	3	1	10	24S	33E	634953	3567364*	2892	40	20	20
C 04014 POD2		CUB	LE	4	4	2	01	24S	33E	639656	3568917	2899	95	81	14
C 02283		CUB	LE	4	2	2	26	23S	33E	637896	3572431*	3057	325	225	100
C 02280		CUB	LE	3	2	4	28	23S	33E	634489	3571586*	3092	650	400	250
C 04014 POD1		CUB	LE	1	1	3	06	24S	34E	639811	3568638	3122	91	81	10
C 02282		CUB	LE	3	1	1	25	23S	33E	638098	3572436*	3138	325	225	100
C 02278		CUB	LE	3	4	2	28	23S	33E	634484	3571989*	3372	650	400	250
C 04707 POD1		CUB	LE	4	3	3	33	23S	33E	633413	3569469	3418			
C 02279		CUB	LE	3	4	3	28	23S	33E	633691	3571173*	3526	650	400	250

Average Depth to Water: **208 feet**

Minimum Depth: **20 feet**

Maximum Depth: **400 feet**

Record Count: 17

UTM NAD83 Radius Search (in meters):

Easting (X): 636829.78

Northing (Y): 3569565.5

Radius: 4000

*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.


10/19/23 9:56 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



New Mexico Office of the State Engineer

Point of Diversion Summary




		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)						(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04753 POD1	4	4	3	35	23S	33E	637075	3569526 
<hr/>									
Driller License:		Driller Company:							
Driller Name:		JASON MALEY 1833							
Drill Start Date:		07/27/2023		Drill Finish Date:		07/27/2023		Plug Date: 07/31/2023	
Log File Date:		08/21/2023		PCW Rcv Date:		Source:			
Pump Type:				Pipe Discharge Size:		Estimated Yield:			
Casing Size:		2.00		Depth Well:		55 feet		Depth Water:	

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.

Sea Snake 35 State #1H

Devon Energy
API: 30-025-41625
Lea County, NM
C-04753-POD 1 MAP

Legend

-  0.12 of a mile
-  C-04753-POD 1
-  Sea Snake 35 State #1H

Sea Snake 35 State #1H

C-04753-POD 1

Google Earth

1000 ft





[USGS Home](#)
[Contact USGS](#)
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National Water Information System: Web Interface

USGS Water Resources

Data Category:


Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

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

Groundwater levels for the Nation

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

Search Results -- 1 sites found

site_no list =

- 321312103395601

Minimum number of levels = 1

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

USGS 321312103395601 24S.32E.10.344333

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°13'30.4", Longitude 103°39'52.7" NAD83

Land-surface elevation 3,589.00 feet above NGVD29

The depth of the well is 60 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.

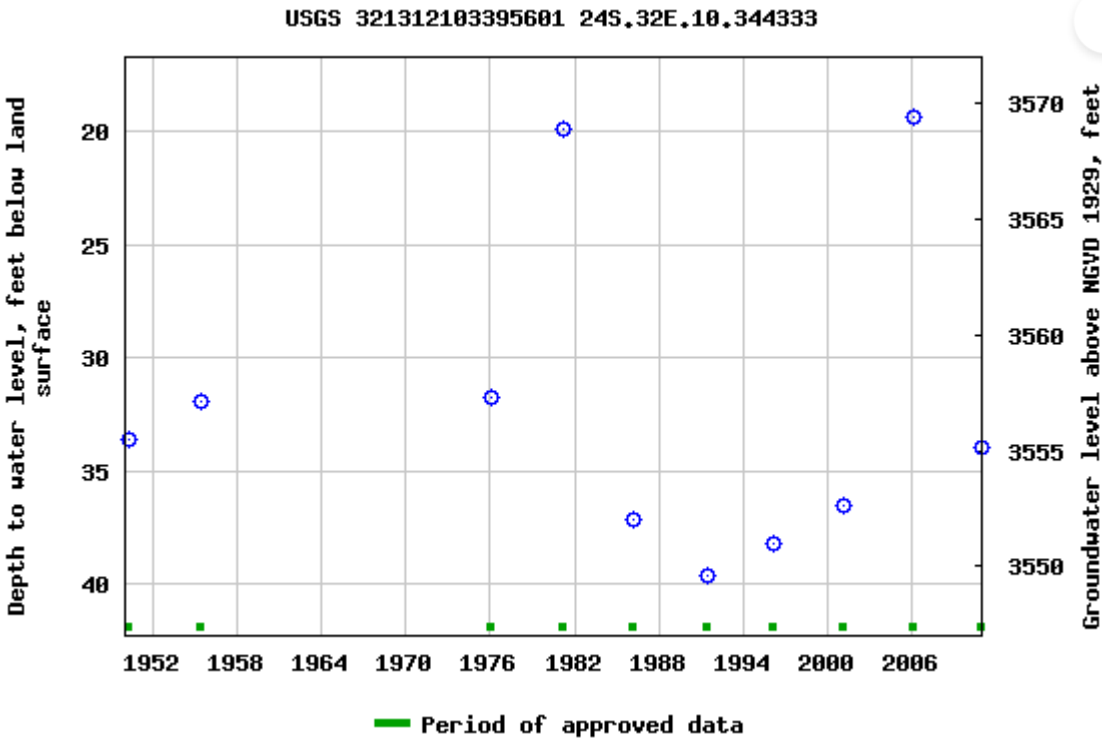
Output formats

[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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Title: Groundwater for USA: Water Levels
URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



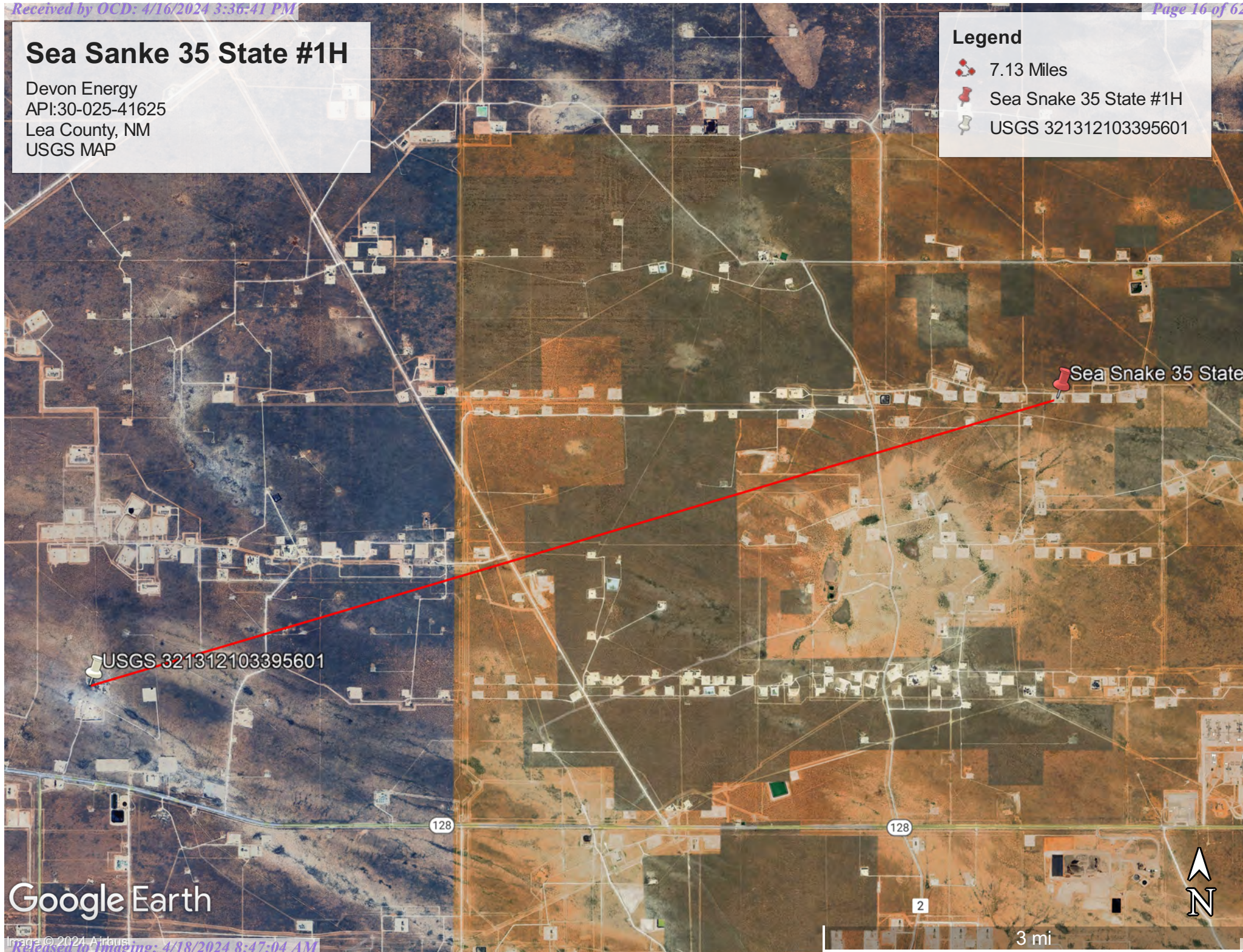
Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2024-04-02 14:20:07 EDT
0.63 0.51 nadww01

Sea Sanke 35 State #1H

Devon Energy
API:30-025-41625
Lea County, NM
USGS MAP

Legend

- 7.13 Miles
- Sea Snake 35 State #1H
- USGS 321312103395601





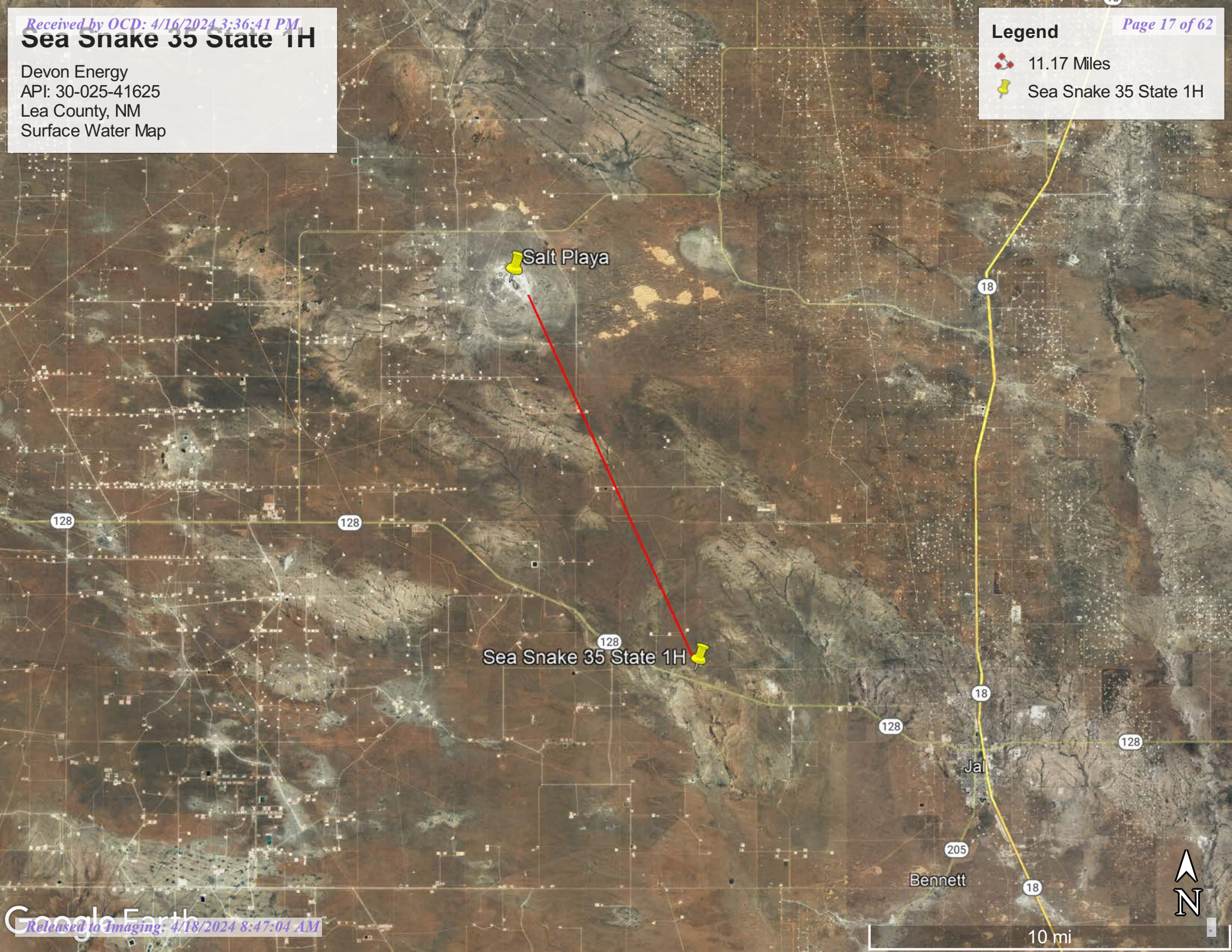
Google Earth

Sea Snake 35 State 1H

Devon Energy
API: 30-025-41625
Lea County, NM
Surface Water Map

Legend

-  11.17 Miles
-  Sea Snake 35 State 1H





Pima Environmental Services

Appendix B

Soil Survey & Geological Data

FEMA Flood Map

Wetlands Map

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

Lea County, New Mexico

PT—Pyote loamy fine sand

Map Unit Setting

National map unit symbol: dmqp

Elevation: 3,000 to 3,900 feet

Mean annual precipitation: 10 to 12 inches

Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 200 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Pyote and similar soils: 85 percent

Minor components: 15 percent

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

Description of Pyote

Setting

Landform: Plains

Landform position (three-dimensional): Rise

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 25 inches: loamy fine sand

Bt - 25 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Negligible

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

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 5 percent

Gypsum, maximum content: 1 percent

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

Sodium adsorption ratio, maximum: 2.0

Available water supply, 0 to 60 inches: Low (about 5.3 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 7s

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

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

Minor Components

Maljamar

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

Palomas

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

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 19, Sep 8, 2022

National Flood Hazard Layer FIRMette



103°19'49"W 32°9'21"N



Legend

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

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

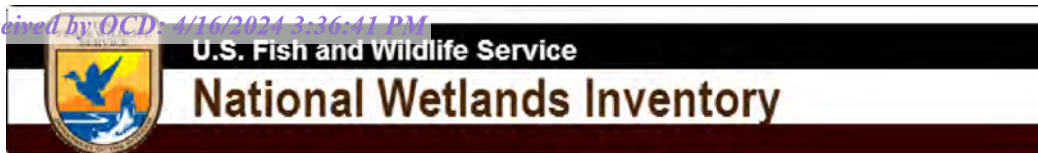
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



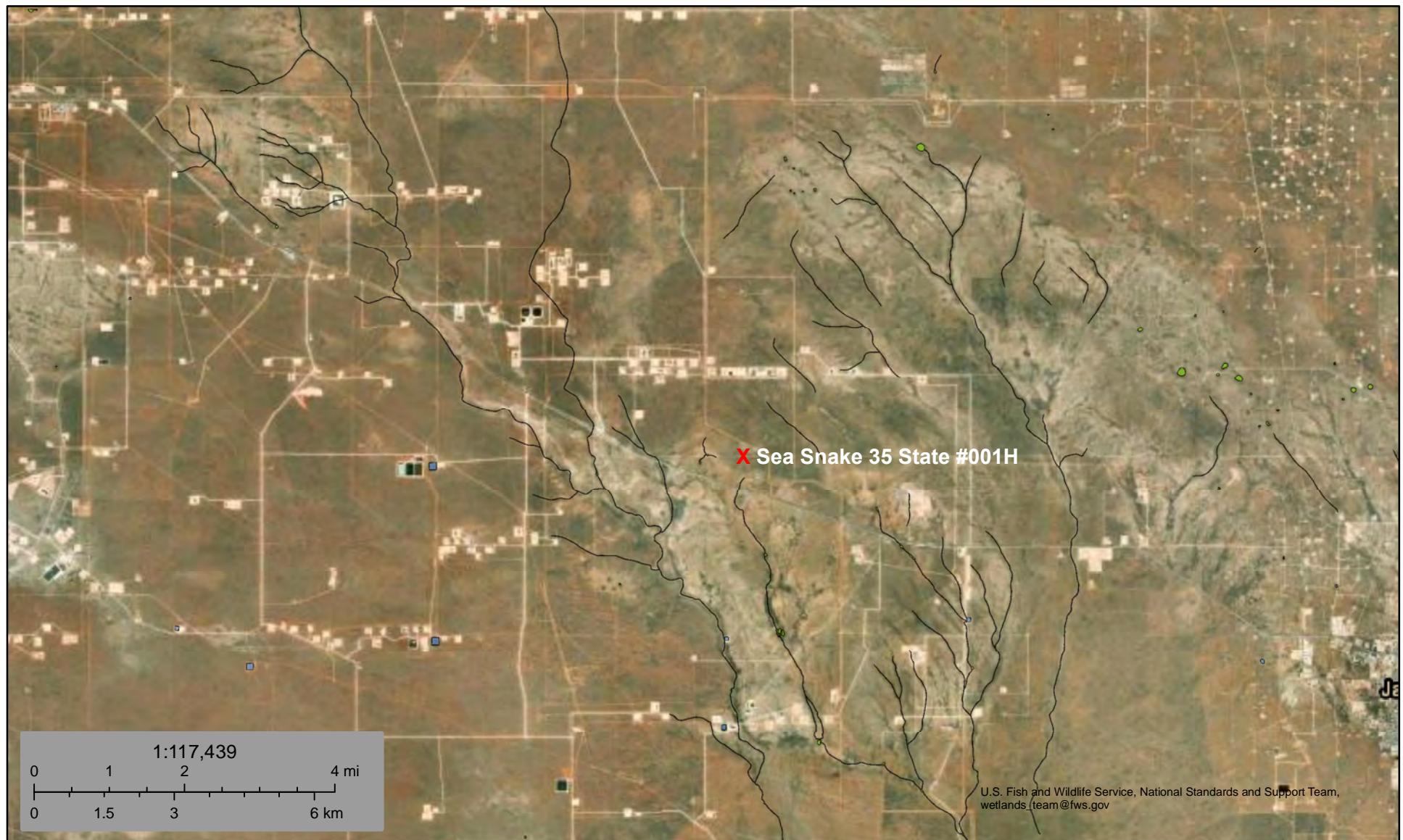
This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/14/2023 at 7:38 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 15, 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 D

Photographic Documentation



**SITE PHOTOGRAPHS
DEVON ENERGY**

Sea Snake 35 State #001H

Assessment





Pima Environmental Services

Appendix E

Laboratory Reports

Report to:
Gio Gomez



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: Sea Snake 35 State 1H

Work Order: E403234

Job Number: 01058-0007

Received: 3/23/2024

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/29/24

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 3/29/24

Gio Gomez
PO Box 247
Plains, TX 79355-0247



Project Name: Sea Snake 35 State 1H
Workorder: E403234
Date Received: 3/23/2024 11:30:00AM

Gio Gomez,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/23/2024 11:30:00AM, under the Project Name: Sea Snake 35 State 1H.

The analytical test results summarized in this report with the Project Name: Sea Snake 35 State 1H apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported: 03/29/24 16:21
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1-1'	E403234-01A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
S1-2'	E403234-02A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
S1-3'	E403234-03A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
S1-4'	E403234-04A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
S2-1'	E403234-05A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
S2-2'	E403234-06A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
S2-3'	E403234-07A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
S2-4'	E403234-08A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
S3-1'	E403234-09A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
S3-2'	E403234-10A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
S3-3'	E403234-11A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
S3-4'	E403234-12A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
SW1	E403234-13A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
SW2	E403234-14A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
SW3	E403234-15A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
SW4	E403234-16A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.
BG1	E403234-17A	Soil	03/21/24	03/23/24	Glass Jar, 2 oz.



Sample Data

Pima Environmental Services-Carlsbad PO Box 247 Plains TX, 79355-0247	Project Name: Sea Snake 35 State 1H Project Number: 01058-0007 Project Manager: Gio Gomez	Reported: 3/29/2024 4:21:22PM
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S1-1'

E403234-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	0.0505	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	0.120	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	1.56	0.0500	1	03/26/24	03/28/24	
Total Xylenes	1.68	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		121 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		117 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	170	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		121 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.1 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		117 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	13900	125	5	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	5280	250	5	03/27/24	03/28/24	
Surrogate: n-Nonane		103 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	1260	20.0	1	03/26/24	03/27/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported: 3/29/2024 4:21:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S1-2'

E403234-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		105 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		110 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		105 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		92.9 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		110 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		71.5 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	451	20.0	1	03/26/24	03/27/24	



Sample Data

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

Project Name: Sea Snake 35 State 1H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/29/2024 4:21:22PM

S1-3'

E403234-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		107 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.4 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		107 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		76.6 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	196	20.0	1	03/26/24	03/27/24	



Sample Data

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

Project Name: Sea Snake 35 State 1H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/29/2024 4:21:22PM

S1-4'

E403234-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		110 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.0 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		106 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		110 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.0 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		106 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	25.6	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		77.5 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	84.2	20.0	1	03/26/24	03/26/24	



Sample Data

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

Project Name: Sea Snake 35 State 1H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/29/2024 4:21:22PM

S2-1'

E403234-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	0.0420	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	0.107	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	1.80	0.0500	1	03/26/24	03/28/24	
Total Xylenes	1.90	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		117 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		126 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	142	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		117 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.6 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		126 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	12100	125	5	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	4300	250	5	03/27/24	03/28/24	
Surrogate: n-Nonane		101 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	1310	20.0	1	03/26/24	03/27/24	



Sample Data

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

Project Name: Sea Snake 35 State 1H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/29/2024 4:21:22PM

S2-2'

E403234-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		88.6 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		111 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		88.6 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		111 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		76.3 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	388	20.0	1	03/26/24	03/27/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported: 3/29/2024 4:21:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S2-3'

E403234-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		109 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.4 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		109 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		75.4 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	166	20.0	1	03/26/24	03/27/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported: 3/29/2024 4:21:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S2-4'

E403234-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		110 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.3 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		110 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	27.1	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		77.6 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	79.2	20.0	1	03/26/24	03/27/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported: 3/29/2024 4:21:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3-1'

E403234-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	0.0920	0.0250	1	03/26/24	03/28/24	
Toluene	0.0375	0.0250	1	03/26/24	03/28/24	
o-Xylene	0.601	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	3.13	0.0500	1	03/26/24	03/28/24	
Total Xylenes	3.73	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		121 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		117 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	189	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		121 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		92.2 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		117 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	14400	125	5	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	5390	250	5	03/27/24	03/28/24	
Surrogate: n-Nonane		110 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	961	20.0	1	03/26/24	03/27/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported: 3/29/2024 4:21:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3-2'

E403234-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		110 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.1 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		110 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		76.9 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	385	20.0	1	03/26/24	03/27/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported: 3/29/2024 4:21:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3-3'

E403234-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		106 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		108 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		106 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		92.1 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		108 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		75.2 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	161	20.0	1	03/26/24	03/27/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported: 3/29/2024 4:21:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

S3-4'

E403234-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		111 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		108 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		111 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		91.0 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		108 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		79.1 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	96.5	20.0	1	03/26/24	03/27/24	



Sample Data

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

Project Name: Sea Snake 35 State 1H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/29/2024 4:21:22PM

SW1

E403234-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		105 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		107 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		93.5 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		105 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		76.6 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	363	20.0	1	03/26/24	03/27/24	



Sample Data

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

Project Name: Sea Snake 35 State 1H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/29/2024 4:21:22PM

SW2

E403234-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		111 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		106 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		111 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		89.1 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		106 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		78.6 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	397	20.0	1	03/26/24	03/27/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported: 3/29/2024 4:21:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

SW3

E403234-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		88.6 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		107 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		88.6 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		107 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		73.8 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	333	20.0	1	03/26/24	03/27/24	



Sample Data

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

Project Name: Sea Snake 35 State 1H
Project Number: 01058-0007
Project Manager: Gio Gomez

Reported:
3/29/2024 4:21:22PM

SW4

E403234-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		109 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		109 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.2 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		109 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		75.1 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	230	20.0	1	03/26/24	03/27/24	



Sample Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported: 3/29/2024 4:21:22PM
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	

BG1

E403234-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Benzene	ND	0.0250	1	03/26/24	03/28/24	
Ethylbenzene	ND	0.0250	1	03/26/24	03/28/24	
Toluene	ND	0.0250	1	03/26/24	03/28/24	
o-Xylene	ND	0.0250	1	03/26/24	03/28/24	
p,m-Xylene	ND	0.0500	1	03/26/24	03/28/24	
Total Xylenes	ND	0.0250	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		107 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2413038
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/26/24	03/28/24	
Surrogate: Bromofluorobenzene		108 %	70-130	03/26/24	03/28/24	
Surrogate: 1,2-Dichloroethane-d4		90.0 %	70-130	03/26/24	03/28/24	
Surrogate: Toluene-d8		107 %	70-130	03/26/24	03/28/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KM		Batch: 2413082
Diesel Range Organics (C10-C28)	ND	25.0	1	03/27/24	03/28/24	
Oil Range Organics (C28-C36)	ND	50.0	1	03/27/24	03/28/24	
Surrogate: n-Nonane		77.9 %	50-200	03/27/24	03/28/24	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: WF		Batch: 2413050
Chloride	ND	20.0	1	03/26/24	03/27/24	



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/29/2024 4:21:22PM

Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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

Blank (2413038-BLK1) Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

LCS (2413038-BS1) Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	2.88	0.0250	2.50		115	70-130			
Ethylbenzene	2.77	0.0250	2.50		111	70-130			
Toluene	2.95	0.0250	2.50		118	70-130			
o-Xylene	2.78	0.0250	2.50		111	70-130			
p,m-Xylene	5.46	0.0500	5.00		109	70-130			
Total Xylenes	8.24	0.0250	7.50		110	70-130			
Surrogate: Bromofluorobenzene	0.533		0.500		107	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		0.500		99.9	70-130			
Surrogate: Toluene-d8	0.534		0.500		107	70-130			

Matrix Spike (2413038-MS1) Source: E403234-04 Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	2.37	0.0250	2.50	ND	94.8	48-131			
Ethylbenzene	2.31	0.0250	2.50	ND	92.4	45-135			
Toluene	2.44	0.0250	2.50	ND	97.6	48-130			
o-Xylene	2.36	0.0250	2.50	ND	94.2	43-135			
p,m-Xylene	4.67	0.0500	5.00	ND	93.5	43-135			
Total Xylenes	7.03	0.0250	7.50	ND	93.7	43-135			
Surrogate: Bromofluorobenzene	0.526		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.477		0.500		95.3	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

Matrix Spike Dup (2413038-MSD1) Source: E403234-04 Prepared: 03/26/24 Analyzed: 03/28/24

Benzene	2.84	0.0250	2.50	ND	114	48-131	18.2	23	
Ethylbenzene	2.75	0.0250	2.50	ND	110	45-135	17.4	27	
Toluene	2.93	0.0250	2.50	ND	117	48-130	18.3	24	
o-Xylene	2.90	0.0250	2.50	ND	116	43-135	20.6	27	
p,m-Xylene	5.68	0.0500	5.00	ND	114	43-135	19.5	27	
Total Xylenes	8.58	0.0250	7.50	ND	114	43-135	19.9	27	
Surrogate: Bromofluorobenzene	0.545		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130			
Surrogate: Toluene-d8	0.521		0.500		104	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/29/2024 4:21:22PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413038-BLK1) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.528		0.500		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130			
Surrogate: Toluene-d8	0.543		0.500		109	70-130			

LCS (2413038-BS2) Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	57.6	20.0	50.0		115	70-130			
Surrogate: Bromofluorobenzene	0.568		0.500		114	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.456		0.500		91.2	70-130			
Surrogate: Toluene-d8	0.551		0.500		110	70-130			

Matrix Spike (2413038-MS2) Source: E403234-04 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	56.6	20.0	50.0	ND	113	70-130			
Surrogate: Bromofluorobenzene	0.550		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.2	70-130			
Surrogate: Toluene-d8	0.546		0.500		109	70-130			

Matrix Spike Dup (2413038-MSD2) Source: E403234-04 Prepared: 03/26/24 Analyzed: 03/28/24

Gasoline Range Organics (C6-C10)	56.8	20.0	50.0	ND	114	70-130	0.425	20	
Surrogate: Bromofluorobenzene	0.549		0.500		110	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130			
Surrogate: Toluene-d8	0.539		0.500		108	70-130			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/29/2024 4:21:22PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2413082-BLK1)					Prepared: 03/27/24 Analyzed: 03/28/24				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	37.3		50.0		74.7	50-200			

LCS (2413082-BS1)					Prepared: 03/27/24 Analyzed: 03/29/24				
Diesel Range Organics (C10-C28)	218	25.0	250		87.0	38-132			
Surrogate: n-Nonane	35.0		50.0		70.0	50-200			

Matrix Spike (2413082-MS1)					Source: E403234-05		Prepared: 03/27/24 Analyzed: 03/28/24		
Diesel Range Organics (C10-C28)	12900	125	250	12100	332	38-132			M4
Surrogate: n-Nonane	50.2		50.0		100	50-200			

Matrix Spike Dup (2413082-MSD1)					Source: E403234-05		Prepared: 03/27/24 Analyzed: 03/28/24		
Diesel Range Organics (C10-C28)	15000	125	250	12100	NR	38-132	15.4	20	M4
Surrogate: n-Nonane	52.1		50.0		104	50-200			



QC Summary Data

Pima Environmental Services-Carlsbad	Project Name:	Sea Snake 35 State 1H	Reported:
PO Box 247	Project Number:	01058-0007	
Plains TX, 79355-0247	Project Manager:	Gio Gomez	3/29/2024 4:21:22PM

Anions by EPA 300.0/9056A

Analyst: WF

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

Blank (2413050-BLK1)					Prepared: 03/26/24 Analyzed: 03/26/24				
Chloride	ND	20.0							
LCS (2413050-BS1)					Prepared: 03/26/24 Analyzed: 03/26/24				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2413050-MS1)					Source: E403234-04		Prepared: 03/26/24 Analyzed: 03/26/24		
Chloride	349	20.0	250	84.2	106	80-120			
Matrix Spike Dup (2413050-MSD1)					Source: E403234-04		Prepared: 03/26/24 Analyzed: 03/26/24		
Chloride	331	20.0	250	84.2	98.9	80-120	5.12	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:	Sea Snake 35 State 1H	
PO Box 247	Project Number:	01058-0007	Reported:
Plains TX, 79355-0247	Project Manager:	Gio Gomez	03/29/24 16:21

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

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

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



Project Information

Chain of Custody

Page 1 of 2

Client: Pima Environmental Services
 Project: Sea Snake 35 state 1H
 Project Manager: Gio Gomez
 Address: 5614 N. Lovington Hwy.
 City, State, Zip: Hobbs, NM, 88240
 Phone: 806-782-1151
 Email: gio@pimaoil.com
 Report due by:

Bill To
 Attention: Devon
 Address:
 City, State, Zip
 Phone:
 Email:
 Pima Project # 26H

Lab Use Only		TAT				EPA Program	
Lab Work	Job Number	1D	2D	3D	Standard	CWA	SDWA
<u>E403234</u>	<u>01058-007</u>				<u>X</u>		
Analysis and Method							
DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX
						<u>X</u>	
State							
NM	CO	UT	AZ	TX			
<u>X</u>							
Remarks							

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number
8:16	3/21	S	1	S1-1'	1
8:27				S1-2'	2
8:35				S1-3'	3
8:46				S1-4'	4
8:58				S2-1'	5
9:11				S2-2'	6
9:28				S2-3'	7
9:36				S2-4'	8
9:48				S3-1'	9
9:53				S3-2'	10

Additional Instructions:

BH 21127518

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

Sampled by:

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

Relinquished by: (Signature) <u>Karime Adame</u>	Date <u>3-22-24</u>	Time <u>1340</u>	Received by: (Signature) <u>Devon</u>	Date <u>3-22-24</u>	Time <u>1340</u>
Relinquished by: (Signature) <u>Devon</u>	Date <u>3-22-24</u>	Time <u>1530</u>	Received by: (Signature) <u>Devon</u>	Date <u>3-23-24</u>	Time <u>11:30</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
 Received on ice: Y / N

T1 T2 T3

AVG Temp °C 4

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

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

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


envirotech

Project Information

Chain of Custody

Page 2 of 2

Client: Pima Environmental Services
 Project: Sea Snake 35 State 1 H
 Project Manager: Glo Gomez
 Address: 5614 N. Lovington Hwy.
 City, State, Zip: Hobbs, NM, 88240
 Phone: 806-782-1151
 Email: gio@pimaoil.com
 Report due by:

Bill To

Attention: Devon

Address:

City, State, Zip

Phone:

Email:

Pima Project # 261-1

Lab Use Only

Lab WO#
E 403234Job Number
01058-0007

1D 2D 3D

TAT

Standard

EPA Program

CWA

SDWA

RCRA

State

NM

CO

UT

AZ

TX

Remarks

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	BGDOC TX		
9:59	3/21	S	1	S3-3'	11							X			
10:11				S3-4'	12										
10:17				SW1	13										
10:25				SW2	14										
10:31				SW3	15										
10:46				SW4	16										
10:58				BG1	17										

Additional Instructions:

21127518

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:

Relinquished by: (Signature)

Karime Adams

Date

3-22-24

Time

1340

Received by: (Signature)

[Signature]

Date

3-22-24

Time

1340

Relinquished by: (Signature)

[Signature]

Date

3-22-24

Time

1530

Received by: (Signature)

[Signature]

Date

3-23-24

Time

11:30

Relinquished by: (Signature)

[Signature]

Date

3-22-24

Time

1530

Received by: (Signature)

[Signature]

Date

3-23-24

Time

11:30

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.

Lab Use Only

Received on ice: Y / N

T1

T2

T3

AVG Temp °C 4

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

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

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

Envirotech Analytical Laboratory

Printed: 3/25/2024 3:53:58PM

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:	03/23/24 11:30	Work Order ID:	E403234
Phone:	(575) 631-6977	Date Logged In:	03/22/24 18:43	Logged In By:	Alexa Michaels
Email:	gio@pimaoil.com	Due Date:	03/29/24 17:00 (4 day TAT)		

Chain of Custody (COC)

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

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

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

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

Sample Cooler

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

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

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

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

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

QUESTIONS

Action 334112

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 334112
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nTO1431629657
Incident Name	NTO1431629657 SEA SNAKE 35 STATE #001H @ 30-025-41625
Incident Type	Release Other
Incident Status	Remediation Plan Received
Incident Well	[30-025-41625] SEA SNAKE 35 STATE #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SEA SNAKE 35 STATE #001H
Date Release Discovered	11/09/2014
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Cause: Blow Out Well Drilling Mud/Fluid Released: 14 BBL Recovered: 13 BBL Lost: 1 BBL.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 334112

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	334112
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 04/16/2024
--	--

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QUESTIONS, Page 3

Action 334112

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	334112
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	1310
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	19983
GRO+DRO	(EPA SW-846 Method 8015M)	14589
BTEX	(EPA SW-846 Method 8021B or 8260B)	3.7
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	05/05/2024
On what date will (or did) the final sampling or liner inspection occur	05/10/2024
On what date will (or was) the remediation complete(d)	05/11/2024
What is the estimated surface area (in square feet) that will be reclaimed	1603
What is the estimated volume (in cubic yards) that will be reclaimed	59
What is the estimated surface area (in square feet) that will be remediated	1603
What is the estimated volume (in cubic yards) that will be remediated	59

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

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

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QUESTIONS, Page 4

Action 334112

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 334112
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 04/16/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 5

Action 334112

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 334112
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6
Action 334112

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 334112
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	{Unavailable.}

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	No

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CONDITIONS

Action 334112

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 334112
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Remediation Plan Approved. Please provide proper sampling notice by following 19.15.29.D.(1).(a). NMAC.	4/18/2024