Incident Number: nAPP2405157748

Release Assessment and Closure

State CS

Section 36, Township 23 South, Range 27 East

County: Eddy

Vertex File Number: 24E-01002

Prepared for:
Energy Transfer Company

Prepared by:
Vertex Resource Services Inc.

Date:
April 2024

Release Assessment and Closure
Energy Transfer Company
Section 36, Township 23 South, Range 27 East
County: Eddy

Prepared for:
Energy Transfer Company
2115 Iris Street
Carlsbad, New Mexico 88220

New Mexico Oil Conservation Division – District 2 – Artesia
811 S. First Street
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Prepared by:
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Angela Mohle — 4/11/2024

Angela Mohle, B.A., B.Sc. — Date
ENVIRONMENTAL FIELD TECHNICIAN, REPORTING

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Chance Dixon, B.Sc. — Date
PROJECT MANAGER, REPORT REVIEW

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1.0 Introduction

Energy Transfer Company (ETC) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a produced water spill that occurred on February 20, 2024, at State CS (hereafter referred to as the "site"). ETC submitted an initial Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on February 20, 2024. Incident ID number nAPP2405157748 was assigned to this incident.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for the full incident closure of this release, with the understanding that restoration of the pad under the containment will commence when all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

The release occurred on February 20, 2024, due to a bad level indicator on the tank, causing an overflow. The incident was reported on February 20, 2024, and involved the release of approximately 100 barrels (bbl.) of produced water into the lined containment. Approximately 100 bbl. of free fluid was removed during initial clean-up. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 3 miles southwest of Loving, New Mexico (Google Inc., 2024). The legal location for the site is Section 36, Township 23 South and Range 27 East in Eddy County, New Mexico. The spill area is located on private land.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area surrounding the tank containment on the constructed pad.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2024) indicates the site's surface geology primarily comprises Qp – Piedmont alluvial deposits. The predominant soil texture on the site is loamy. Soil can be classified as well-drained with a low runoff class. There is medium potential for karst geology at the site (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with alluvial fan remnants with elevations ranging between 1,100 and 4,400 feet. The climate is semiarid with average annual precipitation ranging between 7 and 14 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be black grama, tobosa, blue grama, and other mixed shrubs. Grasses with shrubs and half-shrubs dominate the historical plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Limited to no

vegetation is allowed to grow on the compacted production pad and access road. An aerial photograph and site schematic are presented on Figure 1.

4.0 Closure Criteria Determination

The depth to groundwater was determined using information from the Office of the State Engineer's Water Rights Database. A 0.5 mile search radius was used to determine groundwater depth. The closest recorded depth to groundwater was determined to be 67 feet below ground surface, located 1.17 miles from the site and used for stock watering purposes (New Mexico Office of the State Engineer, 2024a, 2024b and 2024c). Information pertaining to the depth to ground water determination is included in Appendix B.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is a riverine area located approximately 8,371 feet southeast of the site (United States Fish and Wildlife Service, 2024).

At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC.

Table 1. Closure Criteria Determination			
Site Name: Energy Transfer Company State CS			
Spill Coordinates: 32.263309,-104.15006		**X: 580052**	**Y: 3569939**
Site Specific Conditions		**Value**	**Unit**
1	Depth to Groundwater (nearest reference)	67	feet
	Distance between release and nearest DTGW reference	6,170	feet
		1.17	miles
	Date of nearest DTGW reference measurement	**September 20, 2010**	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	8,371	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	33,594	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	4,984	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, **or**	6,170	feet
	ii) Within 1000 feet of any fresh water well or spring	6,170	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	16,334	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	88,150	feet
9	Within an unstable area (Karst Map)	Medium	Critical High Medium Low
	Distance between release and nearest unstable area	4,117	feet
10	Within a 100-year Floodplain	500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	10,994	feet
11	Soil Type	RA, Reagan Loam Comples	
12	Ecological Classification	Loamy	
13	Geology	Qp	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	<50'	<50' 51-100' >100'

Using site characterization information, a closure criteria determination worksheet was completed to determine if the release would be subject to any of the special case scenarios outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC, if the release had escaped secondary containment.

Based on data included in the closure criteria determination worksheet, the release at the site was not subject to the requirements of Paragraph (4) of Subsection C of 19.15.29.12 NMAC and the closure criteria for the site were determined to be associated with the following constituent concentration limits based on depth to groundwater. The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils Impacted by a Release

Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
< 50 feet	Chloride	600 mg/kg
	TPH (GRO+DRO+MRO)	100 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids
TPH – total petroleum hydrocarbons, GRO – gas range organics, DRO – diesel range organics, MRO – motor oil range organics
BTEX – benzene, toluene, ethylbenzene and xylenes

5.0 Remedial Actions Taken

An initial site inspection of the spill area was completed on March 22, 2024, which identified the area of the spill specified in the initial C-141. Vertex was on-site to conduct an inspection of the lined containment and verify that the liner was intact and had the ability to contain the release. Visual observation of the liner was completed on all sides and the base of the containment, around equipment, and of all seams in the liner**.** The liner integrity was confirmed and documented in the Daily Field Report (Appendix C). Notification that a liner inspection was scheduled was provided to NMOCD on March 20, 2024 (Appendix D).

6.0 Closure Request

Vertex recommends no additional remediation action to address the release. The secondary containment liner was intact and contained the release. There are no anticipated risks to human, ecological, or hydrological receptors associated with the release site.
Vertex requests that this incident (nAPP2405157748) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Energy Transfer Company certifies that all information in this report and the attachments are correct and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the release at State CS.

Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertex.ca.

7.0 References

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United States Geological Survey. (2024). *National Water Information System: Web Interface*. Retrieved from https://waterdata.usgs.gov/nwis

8.0 Limitations

This report has been prepared for the sole benefit of Energy Transfer Company (ETC). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division without the express written consent of Vertex Resource Services Inc. (Vertex) and ETC. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

FIGURE 1

SITE SCHEMATIC

Approximate Lease Boundary

Containment Area (~ 3,333 sq. ft.)

VERTEX

0 25 50 f

Map Center:
32.26304°N, 104.150055°W

NAD 1983 UTM Zone 13N
Date: Mar 25/24

Site Schematic
State CS

FIGURE:
1

ENERGY TRANSFER

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Georeferenced image from Esri, 2023. Approximate site boundary and containment area from imagery by Vertex Professional Services Ltd. (Vertex), 2024.

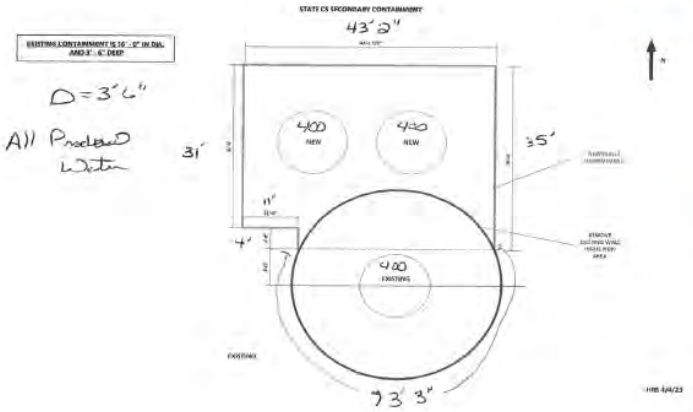
VERSATILITY. EXPERTISE.

Document Path: G:\1-Projects\ US PROJECTS\Energy Transfer Company\24E-01002\Project\24E-01002 - State CS.aprx

APPENDIX A

NMOCD C-141 REPORT

State CS Containment Liquid Release Calcs



State Containment Area #1 Illustration and Volume Calculation

Large rectangle

Containment Type	Steel Walls with Liner
length, ft	43.17
width, ft	31
Height, ft	3.5
Area, ft^2	1338.27
volume, ft^3	4683.945

Small rectangle

Containment Type	Steel Walls with Liner
length, ft	32.17
width, ft	4
Height, ft	3.5
Area, ft^2	128.68
volume, ft^3	450.38

Circle

Containment Type	Steel Walls with Liner
radius, ft	18
π	3.14
Height of containment, ft	3.5
Area, ft^2	1017.36
volume, ft^3	3560.76

Semi-circle

Containment Type	Steel Walls with Liner
radius ft	18
height of segment (sagitta), ft	10
Height of containment, ft	3.5
Area, ft^2	230.7223926
volume, ft^3	807.5283741

Area of total containment, ft^2	2253.587607
Volume of total containment, ft^3	7887.556626

3 inches of water filled the entirety of the containment. This calculated to be ~100 bbls of produced water.

District I
1625 N. French Dr., Hobbs, NM 88240
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District III
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Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 315090

QUESTIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 315090
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2405157748**
Incident Name	**NAPP2405157748 STATE CS @ 0**
Incident Type	**Release Other**
Incident Status	**Initial C-141 Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	State CS
Date Release Discovered	02/20/2024
Surface Owner	Private

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	No
Condensate Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Tank (Any) | Condensate | Released: 100 BBL | Recovered: 100 BBL | Lost: 0 BBL.
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Overflow from tank due to bad level indicator. All overflow captured in secondary containment, none to ground.

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QUESTIONS (continued)

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 315090
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Lynn Acosta Title: Enviromental Specialist Email: lynn.acosta@energytransfer.com Date: 03/06/2024

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QUESTIONS (continued)

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 315090
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 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	No
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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CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 315090
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	3/7/2024

APPENDIX B

CLOSURE CRITERIA RESEARCH DOCUMENTATION

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: C 03031 **Subbasin:** C **Cross Reference:** -

Primary Purpose: DOL 72-12-1 DOMESTIC AND LIVESTOCK WATERING

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 3 **Cause/Case:** -

Owner: ROBBY WALTERSCHEID

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	467090	72121	2004-02-05	PMT	LOG	C 03031	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
C 03031		Shallow	1	3	3	35	23S	27E	578315	3569206*	

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

State CS - DTGW - 6,170 feet (1.17 mi) away

3/21/2024, 10:22:58 AM

1:18,056

Override 1
GIS WATERS PODs
Active

OSE District Boundary
Conveyances
Canal

Ditch
NHD Flowlines
Canal Ditch

0 0.17 0.35 0.7 mi
0 0.3 0.6 1.2 km

Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

Online web user
This is an unofficial map from the OSE's online application.

U.S. Fish and Wildlife Service

National Wetlands Inventory

Distance to Watercourse - 8,371 ft (1.59 mi) away

March 21, 2024

Wetlands

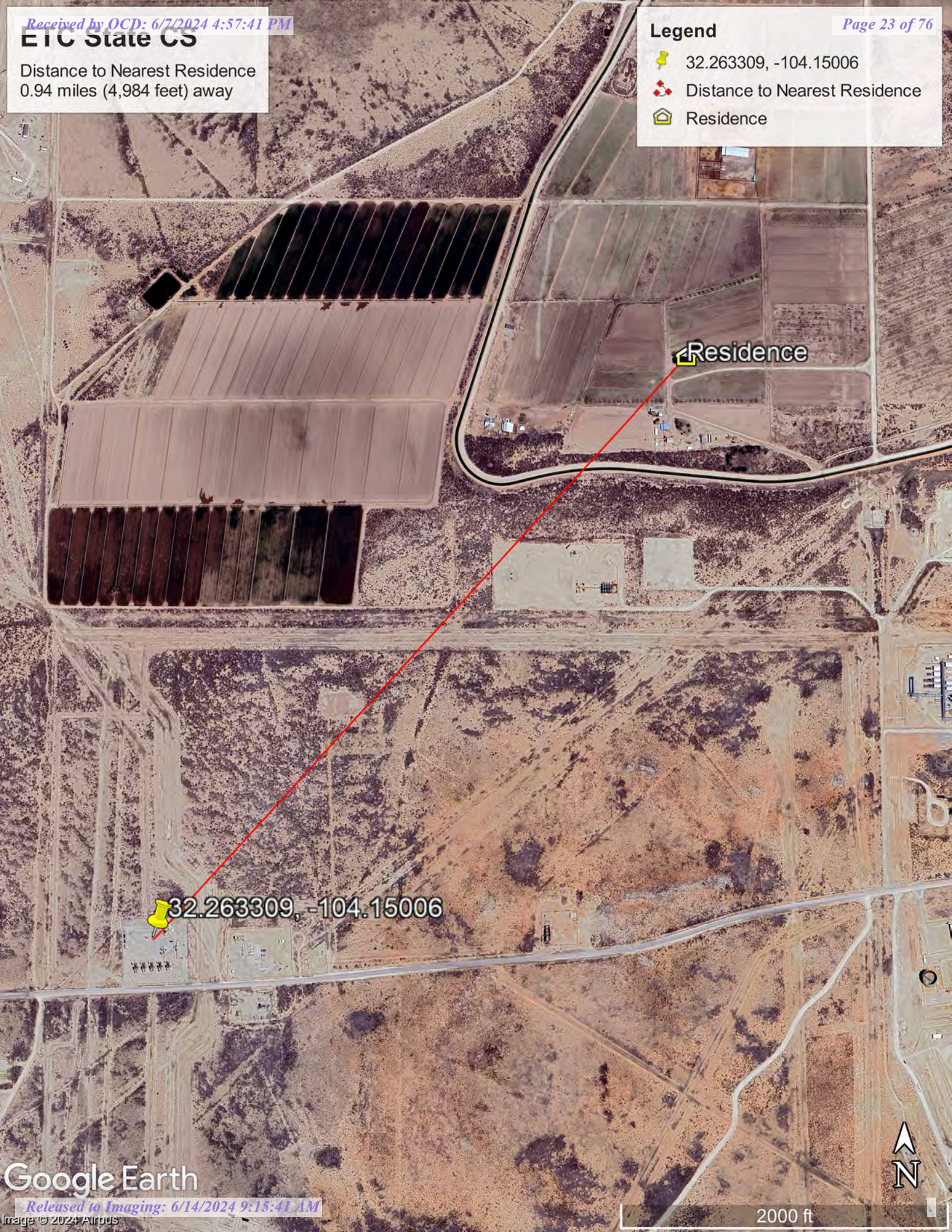
- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

ETC State CS

Distance to Nearest Residence
0.94 miles (4,984 feet) away



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(acre ft per annum) (R=POD has been replaced and no longer serves this file, C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in me

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q 64	q 16	q 4	Sec	Tws	Rng	X	Y
C 01473	CUB	IRR	354	WILLIAM D. COLWELL	ED	C 01473				Shallow	1	1	3	25	23S	27E	579919	3571254*
C 00054	CUB	IRR	0	ARTHUR LANCASTER	ED	C 00054					1	1	4	25	23S	27E	580727	3571263*
C 03031	C	DOL	3	ROBBY WALTERSCHEID	ED	C 03031				Shallow	1	3	3	35	23S	27E	578315	3569206*
C 04085	C	SAN	1	SUMMIT PERMIAN TRANS LLC	ED	C 04085 POD1	NA			Shallow	1	4	1	31	23S	28E	582039	3570027
C 04205	C	PRO	0	B & R TRUCKING	ED	C 04085 POD1	NA			Shallow	1	4	1	31	23S	28E	582039	3570027
C 04206	C	PRO	0	B & R TRUCKING	ED	C 04085 POD1	NA			Shallow	1	4	1	31	23S	28E	582039	3570027
C 04207	C	PRO	0	B & R TRUCKING	ED	C 04085 POD1	NA			Shallow	1	4	1	31	23S	28E	582039	3570027
C 02022	C	PRO	0	AMOCO PRODUCTION COMPANY	ED	C 02022				Shallow	1	4	3	31	23S	28E	581941	3569250*
C 02955	C	PRO	0	MARBOB ENERGY	ED	C 02955					1	4	3	31	23S	28E	581941	3569250*
C 03218	C	PRO	0	NADEL & GUSSMAN	ED	C 02022				Shallow	1	4	3	31	23S	28E	581941	3569250*
C 04085	C	SAN	1	SUMMIT PERMIAN TRANS LLC	ED	C 04085 POD2	NA			Shallow	2	4	1	31	23S	28E	582082	3569982
C 04572	C	DOM	1	ROBERTO FUSALVA	ED	C 04572 POD1	20F2C			Shallow	4	2	2	26	23S	27E	579665	3571950
C 04281	C	SAN	1	DAVID FRITSCHY	ED	C 04281 POD1	22157			Shallow	2	4	1	31	23S	28E	582192	3570055
C 02567	C	DOM	3	JEROME SMITH	ED	C 02567				Shallow	2	1	2	26	23S	27E	579314	3572049*
C 03108	CUB	STK	6	LOVING RANCH WATTS LAND AND CATTLE	ED	C 03108					1	3	2	31	23S	28E	582348	3570063*
C 03197	C	DOL	3	TANA MUNOZ	ED	C 03197					4	4	3	24	23S	27E	580520	3572274*
C 00010 A	CUB	IRR	28.8	WILLIAM E NYMAN	ED	C 00010				Shallow	1	2	2	25	23S	27E	581129	3572075*
C 00010 AA	CUB	IRR	375.615	NELDRA MORRIS	ED	C 00010 POD5					1	2	2	25	23S	27E	581129	3572075*
C 00010 ENLGD	CUB	IRR	90	BRUCE D PARDUE TRUSTEE	ED	C 00010 ENLGD					1	2	2	25	23S	27E	581129	3572075*
C 01936	C	PRO	0	AMOCO PRODUCTION COMPANY	ED	C 01936						3	2	31	23S	28E	582449	3569964*
C 04311	C	SAN	1	SENDERO CARLSBAD MIDSTREAM LLC	ED	C 04311 POD1	22215				2	1	4	31	23S	28E	582490	3569583
C 04037	C	SAN	1	TRAILHEAD ENGINEERING	ED	C 04037 POD1				Shallow	4	3	2	31	23S	28E	582575	3569872
C 03366	C	DOL	0	DAN MOORE	ED	C 03366 POD1					4	1	2	31	23S	28E	582597	3570199
C 02004	C	DOM	3	READ & STEVENS INC	ED	C 02004				Shallow		3	4	24	23S	27E	580825	3572378*
C 03196	C	DOL	3	DIANE WALTERS	ED	C 03196					3	1	3	24	23S	27E	579916	3572672*
C 01477	CUB	IRR	236.238	NEW MEXICO INTERSTATE STREAM COMMISSION	ED	C 01477				Shallow	1	3	3	19	23S	28E	581532	3572484*
C 00005	CUB	IRR	0	W H SWEARINGEN	ED	C 00005					1	1	4	23	23S	27E	579113	3572856*
C 00518	CUB	IRR	199.5	OTIS MUTUAL DOMESTIC WTR CONSUMERS & SEWER WORKS ASSOC	ED	C 00518 POD2				Shallow	2	4	4	22	23S	27E	578105	3572431*
C 00518 A	CUB	MDW	123.9	OTIS WATER USERS CO OP	ED	C 00518 POD2				Shallow	2	4	4	22	23S	27E	578105	3572431*
C 03219	CUB	EXP	0	OTIS WATER CO-OP	ED	C 00518 POD2				Shallow	2	4	4	22	23S	27E	578105	3572431*
C 00785	CUB	EXP	0	EDWARDO AREVALO	ED	C 00785							3	19	23S	28E	581834	3572586*
C 01537	C	DOL	0	DALTON R ALLISON	ED	C 01537					1	1	3	19	23S	28E	581531	3572887*
C 03390	C	DOM	1	MARY SUE MCDONALD	ED	C 03390 POD1				Shallow	1	4	2	23	23S	27E	579511	3573200
C 00518	CUB	IRR	199.5	OTIS MUTUAL DOMESTIC WTR CONSUMERS & SEWER WORKS ASSOC	ED	C 00518				Shallow	1	1	3	23	23S	27E	578310	3572840*
C 00518 A	CUB	MDW	123.9	OTIS WATER USERS CO OP	ED	C 00518				Shallow	1	1	3	23	23S	27E	578310	3572840*
C 03488	C	DOM	1	RAUL AGUIRRE II ONSUREZ	ED	C 03488 POD1				Shallow	4	3	1	23	23S	27E	578430	3573023
C 03067	C	DOM	0	BOB RAINES	ED	C 03067					3	3	1	23	23S	27E	578311	3573044*
C 00276	CUB	IRR	402.603	NEW MEXICO INTERSTATE STREAM	ED	C 00276 S				Shallow		1	1	24	23S	27E	580017	3573576*
C 00276 A	CUB	IRR	473.585	NEW MEXICO INTERSTATE STREAM	ED	C 00276 S				Shallow		1	1	24	23S	27E	580017	3573576*
C 01992	C	PRO	3	READ & STEVENS INC	ED	C 01992				Shallow	3	4	1	19	23S	28E	581929	3573094*
C 01244	C	DOL	3	BLAS L. URQUIDEZ	ED	C 01244				Shallow		4	4	06	24S	28E	582860	3567543*
C 01263	CUB	EXP	0	OT'S WATER USERS COOP.	ED	C 01263							1	23	23S	27E	578613	3573346*
SP 01349	CUB	IRR	2967.41	NM INTERSTATE STREAM COMM	ED	SP 01349						1	4	12	24S	27E	580832	3566301*
C 00276	CUB	IRR	402.603	NEW MEXICO INTERSTATE STREAM	ED	C 00276				Shallow	1	1	1	24	23S	27E	579944	3573670
C 00276 A	CUB	IRR	473.585	NEW MEXICO INTERSTATE STREAM	ED	C 00276				Shallow	1	1	1	24	23S	27E	579944	3573670
C 03128	C	PRO	0	YATES PETROLEUM	ED	C 00276				Shallow	1	1	1	24	23S	27E	579944	3573670

C 03155	C	PRO	0	PATTERSON DRILLING	ED	C 00276				Shallow	1	1	1	24	23S	27E	579944	3573670
C 03223	C	PRO	0	DUGAN INC.	ED	C 00276				Shallow	1	1	1	24	23S	27E	579944	3573670
C 03237	C	PRO	0	PATTERSON-UTI DRILLING COMPANY	ED	C 00276				Shallow	1	1	1	24	23S	27E	579944	3573670
C 03578	C	PRO	0	CASA OPERATING	ED	C 00276				Shallow	1	1	1	24	23S	27E	579944	3573670
C 03579	C	PRO	0	CASA OPERATING	ED	C 00276				Shallow	1	1	1	24	23S	27E	579944	3573670
C 03583	C	PRO	0	CASA OPERATING	ED	C 00276				Shallow	1	1	1	24	23S	27E	579944	3573670
C 02976	C	STK	3	GEORGE BRANTLEY	ED	C 02976				Shallow	4	2	3	12	24S	27E	580519	3566195*
C 02999	C	DOL	3	FRANK MARTINO	ED	C 02999				Shallow	2	1	2	23	23S	27E	579314	3573661*
SD 00431	CUB	IRR	840	POLLED ANGUS CATTLE COMPANY OF CARLSBAD	ED	SD 00431							2	10	24S	27E	577807	3566860*
C 01648	C	STK	3	GILBERTO B. PARRAZ	ED	C 01648				Shallow		2	3	29	23S	28E	583667	3571184*
C 02037	C	PRO	0	READ & STEVENS	ED	C 02037				Shallow		2	3	29	23S	28E	583667	3571184*
C 00231 A	CUB	MDW	201.6	MALAGA WATER USERS CO-OP	ED	C 00231 AS				Shallow	4	1	1	23	23S	27E	578512	3573447*
C 00498	CUB	IRR	9	YGNACIO LOPEZ	ED	C 00498				Shallow	4	1	1	23	23S	27E	578512	3573447*
C 00498 ENL	CUB	IRR	0	MALAGA WATER USERS ASSOCIATION	ED	C 00498				Shallow	4	1	1	23	23S	27E	578512	3573447*
C 03032	C	DOL	3	GEORGE BRANTLEY	ED	C 03032						4	1	4	12	24S	27E	580931	3566200*
C 03253	C	PRO	0	MEWBOURNE OIL	ED	C 03032						4	1	4	12	24S	27E	580931	3566200*
C 00232	CUB	IRR	280.5	L.T. LEWIS	ED	C 00232						1	3	2	07	24S	28E	582362	3566826*
C 00368	CUB	IRR	385.5	JERRY D ROSE	ED	C 00368				Shallow	3	3	3	13	23S	27E	579916	3573877*
C 03869	C	STK	3	DRAPER BRANTLEY JR	ED	C 03869 POD1						1	3	4	12	24S	27E	580677	3566039
C 01283	C	DOM	3	YGNACIO LOPEZ	ED	C 01283							1	1	23	23S	27E	578413	3573548*
C 00365	CUB	IRR	185.7	CARLETON JOE O	ED	SP 01927								4	12	24S	27E	581032	3566097*
C 00464	CUB	IRR	314.245	JACKIE DALE MCDONALD	ED	SP 01927								4	12	24S	27E	581032	3566097*
C 00513	CUB	IRR	1422	PARDUE LIMITED COMPANY	ED	SP 01927								4	12	24S	27E	581032	3566097*
C 00574	CUB	IRR	55.05	TOMMY JR. OR CARLA DUARTE	ED	SP 01927								4	12	24S	27E	581032	3566097*
C 00738	CUB	IRR	343.5	W.J. BURKHAM	ED	SP 01927								4	12	24S	27E	581032	3566097*
C 00750	CUB	IRR	74.7	BETH ANN BOTROS	ED	SP 01927								4	12	24S	27E	581032	3566097*
C 00764	CUB	IRR	117.9	MMV LLC.	ED	SP 01927								4	12	24S	27E	581032	3566097*
C 01082	CUB	IRR	240	DAMON U. BOND	ED	SP 01927								4	12	24S	27E	581032	3566097*
SD 01886	CUB	IRR	100	MONICA CALDERON	ED	SP 01927								4	12	24S	27E	581032	3566097*
SP 01927	CUB	CLS	0	UNITED STATES OF AMERICA	ED	SP 01927	C							4	12	24S	27E	581032	3566097*
SP 01927 1	CUB	IRR	2171.91	EDWARD F. JUDKINS	ED	SP 01927								4	12	24S	27E	581032	3566097*
SP 01927 2	CUB	IRR	796.367	ALBERT JOHNSON	ED	SP 01927								4	12	24S	27E	581032	3566097*
SP 01927 3	CUB	IRR	144.794	JULIAN SMITH	ED	SP 01927								4	12	24S	27E	581032	3566097*
SP 01927 4	CUB	MDW	2800	UNITED STATES OF AMERICA	ED	SP 01927								4	12	24S	27E	581032	3566097*
SP 01927 5	CUB	IRR	2413.209	D.R. HARKEY	ED	SP 01927								4	12	24S	27E	581032	3566097*
SP 01927 6	CUB	IRR	108.596	DANIEL BEACH	ED	SP 01927								4	12	24S	27E	581032	3566097*
SP 01927 7	CUB	IRR	5067.79	EDWARD F. JUDKIN	ED	SP 01927								4	12	24S	27E	581032	3566097*
C 01837	C	PRO	0	HEYCO	ED	C 01837									22	23S	27E	577395	3572916*
C 03260	C	STK	3	CLARAMAI R HAYHURST	ED	C 03260 POD1				Shallow	3	3	3	12	24S	27E	579994	3565935
C 03837	C	PRO	0	DEVON ENERGY CO	ED	C 03260 POD1				Shallow	3	3	3	12	24S	27E	579994	3565935
C 03838	C	PRO	0	DEVON ENERGY CO	ED	C 03260 POD1				Shallow	3	3	3	12	24S	27E	579994	3565935
C 03839	C	PRO	0	DEVON ENERGY CO	ED	C 03260 POD1				Shallow	3	3	3	12	24S	27E	579994	3565935
C 00492	CUB	IRR	0	LEWIS L T	ED	C 00492						3	3	4	13	23S	27E	580722	3573887*
C 03246	C	PRO	0	MARBOB ENERGY CORP.	ED	C 01986						3	4	3	12	24S	27E	581302	3566124
C 03300	C	PRO	0	YATES PETROLEUM	ED	C 01986						3	4	3	12	24S	27E	581302	3566124
C 03311	C	PRO	0	MARBOB ENERGY	ED	C 01986						3	4	3	12	24S	27E	581302	3566124
C 03353	C	PRO	0	MARBOB ENERGY	ED	C 01986						3	4	3	12	24S	27E	581302	3566124
C 03354	C	PRO	0	NOVA MUD	ED	C 01986						3	4	3	12	24S	27E	581302	3566124
C 00008	CUB	IRR	0	W H SWEARINGEN	ED	C 00008						3	3	4	14	23S	27E	579114	3573864*
C 00368	CUB	IRR	385.5	TRICIA M ROSE	ED	C 00368 S				Shallow		3	3	13	23S	27E	580017	3573978*
C 00368 A	CUB	IRR	243	IGNACIO G VASQUEZ	ED	C 00368 A							3	3	13	23S	27E	580017	3573978*
C 03055	C	DOL	0	GEORGE BRANTLEY	ED	C 03055						2	3	4	12	24S	27E	580930	3565995*

RA 00873	RA	IRR	0	JEFFREY P SCHULTZ	CH	RA 00873				1	2	1	10	24S	27E	577104	3567159*
C 01717	C	DOL	0	BILL TAYLOR	ED	C 01717				2	1	4	32	23S	28E	584173	3569669*
C 00007	CUB	IRR	0	W H SWEARINGEN	ED	C 00007				2	4	4	14	23S	27E	579715	3574070*
C 00108	CUB	IRR	0	T.W. BALL	ED	C 00108			Shallow	1	1	4	29	23S	28E	583974	3571285*
C 00231	CUB	IRR	111.6	FARM CREDIT BANK OF WITCHITA	ED	C 00231 S			Shallow	4	4	4	13	23S	27E	581326	3573891*
C 00231 A	CUB	MDW	201.6	MALAGA WATER USERS CO-OP	ED	C 00231 S			Shallow	4	4	4	13	23S	27E	581326	3573891*
C 00231 B	CUB	IRR	149.4	EMILLO R. & PAULINE F. VILLA	ED	C 00231 S			Shallow	4	4	4	13	23S	27E	581326	3573891*
C 02937	C	PRO	0	MEWBOURNE OIL COMPANY	ED	C 02937				3	4	3	12	24S	27E	580315	3565789*
C 02941	C	PRO	0	PATTERSON DRILLING	ED	C 02941				3	4	3	12	24S	27E	580315	3565789*
					ED	C 02941 POD1				3	4	3	12	24S	27E	580315	3565789*
C 00231	CUB	IRR	111.6	FARM CREDIT BANK OF WITCHITA	ED	C 00231			Shallow	3	3	3	18	23S	28E	581529	3573896*
C 00231 A	CUB	MDW	201.6	MALAGA WATER USERS CO-OP	ED	C 00231			Shallow	3	3	3	18	23S	28E	581529	3573896*
C 00231 B	CUB	IRR	149.4	EMILLO R. & PAULINE F. VILLA	ED	C 00231			Shallow	3	3	3	18	23S	28E	581529	3573896*
C 03147	C	MUL	3	GEORGE BRANTLEY	ED	C 03147				3	3	3	12	24S	27E	579884	3565715
C 03333	C	PRO	0	OGX RESOURCES LLC	ED	C 03147				3	3	3	12	24S	27E	579884	3565715
C 03352	C	PRO	0	NOVA MUD	ED	C 03147				3	3	3	12	24S	27E	579884	3565715
C 03037	C	DOL	3	GEORGE BRANTLEY	ED	C 03037			Shallow	4	3	4	12	24S	27E	580930	3565795*
C 00406	C	DOM	3	JAMES G. LAXSON	ED	C 00406			Shallow		1	1	08	24S	28E	583270	3567142*
C 03740	C	DOL	0	GEORGE BRANTLEY	ED	C 03740 POD1				4	4	4	12	24S	27E	581283	3565795
C 00312	CUB	IRR	221.862	NEW MEXICO INTERSTATE STREAM	ED	C 00312	NA		Shallow	3	3	1	20	23S	28E	583094	3573015
C 03082	C	DOM	3	MICHAEL L ROSS	ED	C 03082			Shallow	1	3	3	18	23S	28E	581529	3574096*
C 01701	CUB	IRR	0	MOLINA FELIPE	ED	C 01701				1	4	4	29	23S	28E	584379	3570879*
C 04363	C	DOM	1	SONIA TORRES	ED	C 04363 POD1	2245F			1	3	3	18	23S	28E	581521	3574121
C 04289	C	SAN	1	ORYX MIDSTREAM SERVICES	ED	C 04289 POD1	22177		Shallow	1	1	2	19	23S	28E	582387	3573717
C 01247	C	DOM	3	GUADALUPE GUEVARA	ED	C 01247						3	14	23S	27E	578615	3574152*
C 00347	CUB	EXP	0	BRANTLEY GEORGE	ED	C 00347			Shallow		1	1	13	24S	27E	580010	3565479*
C 01836	CUB	IRR	0	GEORGE BRANTLEY	ED	C 01836					1	1	13	24S	27E	580010	3565479*
C 03779	C	SAN	1	LEONEL TORRES	ED	C 03779 POD1			Shallow	2	3	3	18	23S	28E	581706	3574103
C 02971	CUB	IRR	240	REED KIMBLEY	ED	C 02971				3	4	2	29	23S	28E	584370	3571492*
C 04400	C	DOL	3	HB PROPERTIES LLC	ED	C 04400 POD1	2236B		Shallow	3	1	3	18	23S	28E	581496	3574309
C 02180	C	DOM	3	PATRICIA R. JONES	ED	C 02180			Shallow			3	18	23S	28E	581831	3574198*
C 03922	C	SAN	1	LEONEL TORRES	ED	C 03922 POD1			Shallow	3	2	3	18	23S	28E	581844	3574230
C 01646	CUB	IRR	0	GEORGE BRANTLEY	ED	C 01646 X						1	13	24S	27E	580221	3565275*
C 01943	C	STK	3	GARY THOMPSON	ED	C 01943						1	13	24S	27E	580221	3565275*
C 01731	C	STK	3	HECTOR N VALDEZ	ED	C 01731			Shallow		4	2	05	24S	28E	584483	3568367*
C 02697	C	MUL	3	KRISTY MAGBY	ED	C 02697			Shallow		1	3	18	23S	28E	581629	3574401*
C 03659	C	DOL	0	CRUZ ONSUREZ	ED	C 03659 POD1				2	2	4	29	23S	28E	584599	3571272
C 04045	CUB	EXP	0	VALERIE BRANSON	ED	C 04045 POD1			Shallow	3	3	2	14	23S	27E	579012	3574571
C 01646	CUB	IRR	0	GEORGE BRANTLEY	ED	C 01646 X 2						2	13	24S	27E	581045	3565286*
C 04223	C	SAN	1	LEONEL TORRES	ED	C 04223 POD1	206D7			4	2	3	18	23S	28E	582116	3574238
C 03606	CUB	EXP	0	VICTOR F. ONSUREZ	ED	C 03606 POD1				3	3	3	28	23S	28E	584810	3570765
C 01661	C	DOM	3	RANDALL M. CHRISTOPHER	ED	C 01661			Shallow		3	1	13	23S	27E	580014	3574783*
C 02451	C	DOL	0	CARMEN M VASQUEZ	ED	C 02451					4	1	13	23S	27E	580417	3574788*
C 01891	CUB	IRR	2233.727	NEW MEXICO INTERSTATE STREAM	ED	C 01892 S			Shallow	4	4	1	20	23S	28E	583746	3573110*
C 01891 A	CUB	IRR	1183.779	RUSTLER HILLS II LIMITED PARTNERSHIP	ED	C 01892 S			Shallow	4	4	1	20	23S	28E	583746	3573110*
C 01892	CUB	IRR	89.097	RUSTLER HILLS II LIMITED PARTNERSHIP	ED	C 01892 S			Shallow	4	4	1	20	23S	28E	583746	3573110*
C 00342	CUB	CLS	0	UNION OIL CO. OF CALIFORNIA	ED	C 00342		C			4	1	13	24S	27E	580432	3565080*
C 00348	C	DOM	3	CID	ED	C 00348							20	23S	28E	583849	3573002*
C 03706	C	STK	0	WINSTON BALLARD	ED	C 03706 POD1				3	4	4	22	21S	27E	584939	3569812
C 03831	C	DOM	1	MITCHELL BALLARD	ED	C 03831 POD1			Shallow	4	3	1	33	23S	28E	584939	3569812
C 03852	C	STK	3	MITCHELL BALLARD	ED	C 03852 POD1				2	1	3	33	23S	28E	584952	3569766
C 01963	C	DOL	0	WILLA L MCPHEARSON	ED	C 01963					4	4	07	24S	28E	582877	3565921*

SD 01886	CUB	IRR	100	DICK CALDERON	ED	SD 01886						4	4	07	24S	28E	582877	3565921*
C 03941	CUB	MON	0	ATKINS ENGR ASSOC INC	ED	C 03941 POD2						3	4	2	13	23S	27E	581152	3574745
					ED	C 03941 POD1					Shallow	3	4	2	13	23S	27E	581110	3574757
C 03753	C	DOL	3	LARRY G SCHROCK	ED	C 03753 POD1					Shallow	3	3	1	18	23S	28E	581515	3574658
C 04546	CUB	EXP	0	HENRY MCDONALD	ED	C 04546 POD1	NA					3	3	3	17	23S	28E	583065	3573857
C 04225	C	SAN	1	LEONEL TORRES	ED	C 04225 POD1	206F3				Shallow	2	2	3	18	23S	28E	582167	3574424
C 03766	C	PRO	0	JACK WAGON LLC	ED	C 03766 POD1	NA				Shallow	3	3	1	14	23S	27E	578373	3574609
C 03999	C	PRO	0	WATER SPUR LLC	ED	C 03766 POD1	NA				Shallow	3	3	1	14	23S	27E	578373	3574609
C 04000	C	PRO	0	WATER SPUR LLC	ED	C 03766 POD1	NA				Shallow	3	3	1	14	23S	27E	578373	3574609
C 04001	C	PRO	0	WATER SPUR LLC	ED	C 03766 POD1	NA				Shallow	3	3	1	14	23S	27E	578373	3574609
C 04174	C	PRO	0	CAZA OPERATING LLC	ED	C 03766 POD1	NA				Shallow	3	3	1	14	23S	27E	578373	3574609
C 04175	C	PRO	0	CAZA OPERATING LLC	ED	C 03766 POD1	NA				Shallow	3	3	1	14	23S	27E	578373	3574609
C 04176	C	PRO	0	CAZA OPERATING LLC	ED	C 03766 POD1	NA				Shallow	3	3	1	14	23S	27E	578373	3574609
C 01852	C	DOM	0	SAMUEL URQUIDEZ	ED	C 01852							4	20	23S	28E	584258	3572605*
C 00364	CUB	CLS	0	A.J. CRAWFORD	ED	C 00364		C				1	2	09	24S	27E	575997	3567043*
C 04224	C	SAN	1	LEONEL TORRES	ED	C 04224	206E9					2	2	3	18	23S	28E	582166	3574454
C 04689	CUB	EXP	0	HENRY MCDONALD	ED	C 04689 POD1	NA					3	3	3	17	23S	28E	583039	3573937

Record Count: 167

UTMNAD83 Radius Search (in meters):

Easting (X): 580052 **Northing (Y):** 3569939 **Radius:** 5000

Sorted by: Distance

***UTM location was derived from PLSS - see Help**

ETC State 03

Distance to Nearest Municipality
3.10 miles (16,342 feet) away

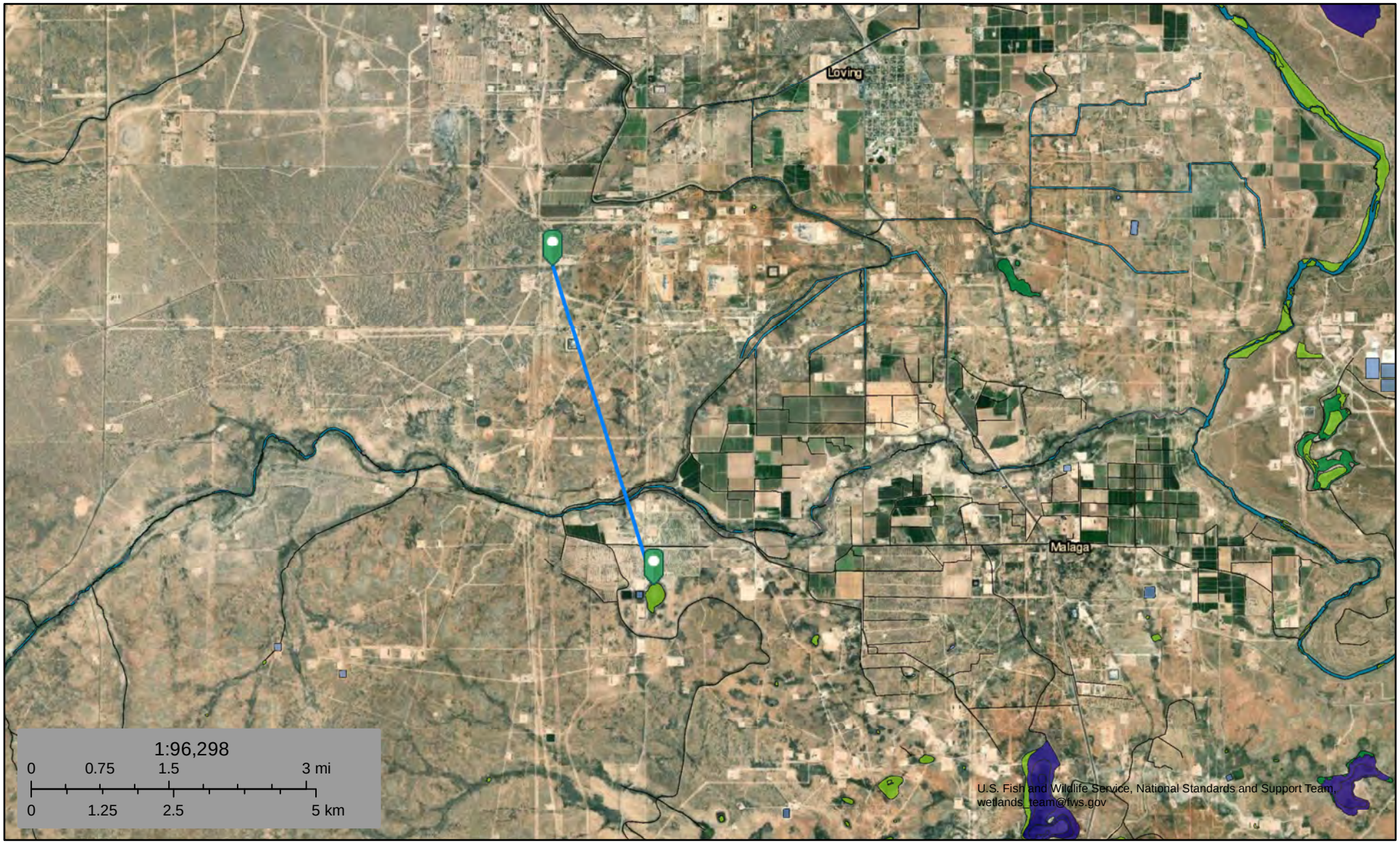
Legend

32.263309, -104.15006

Distance to Municipality

U.S. Fish and Wildlife Service
National Wetlands Inventory

Wetlands - 16,334 feet (3.09 miles) away



March 21, 2024

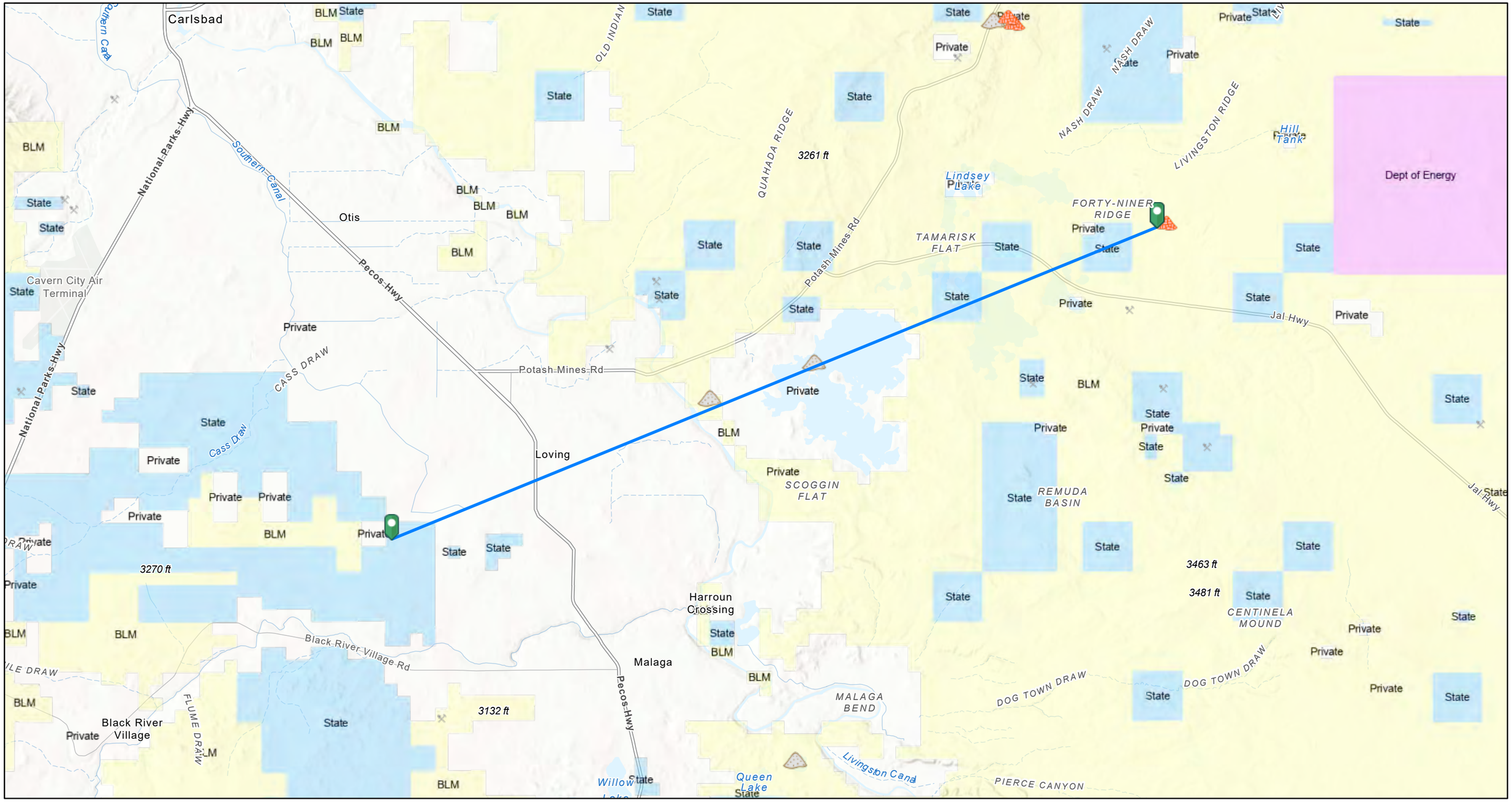
Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

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

National Wetlands Inventory (NWI)
This page was produced by the NWI mapper

Subsurface Mine - 88,150 feet (16.7 mi) away



3/21/2024, 12:01:02 PM

1:144,448

0 1.5 3 6 mi

0 2.5 5 10 km

Registered Mines

Aggregate, Stone etc.

Aggregate, Stone etc.

Aggregate, Stone etc.

Aggregate, Stone etc.

Potash

Salt

Land Ownership

BLM

DOE

P

S

U.S. BLM, Esri, NASA, NGA, USGS, Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

EMNRD MMD GIS Coordinator

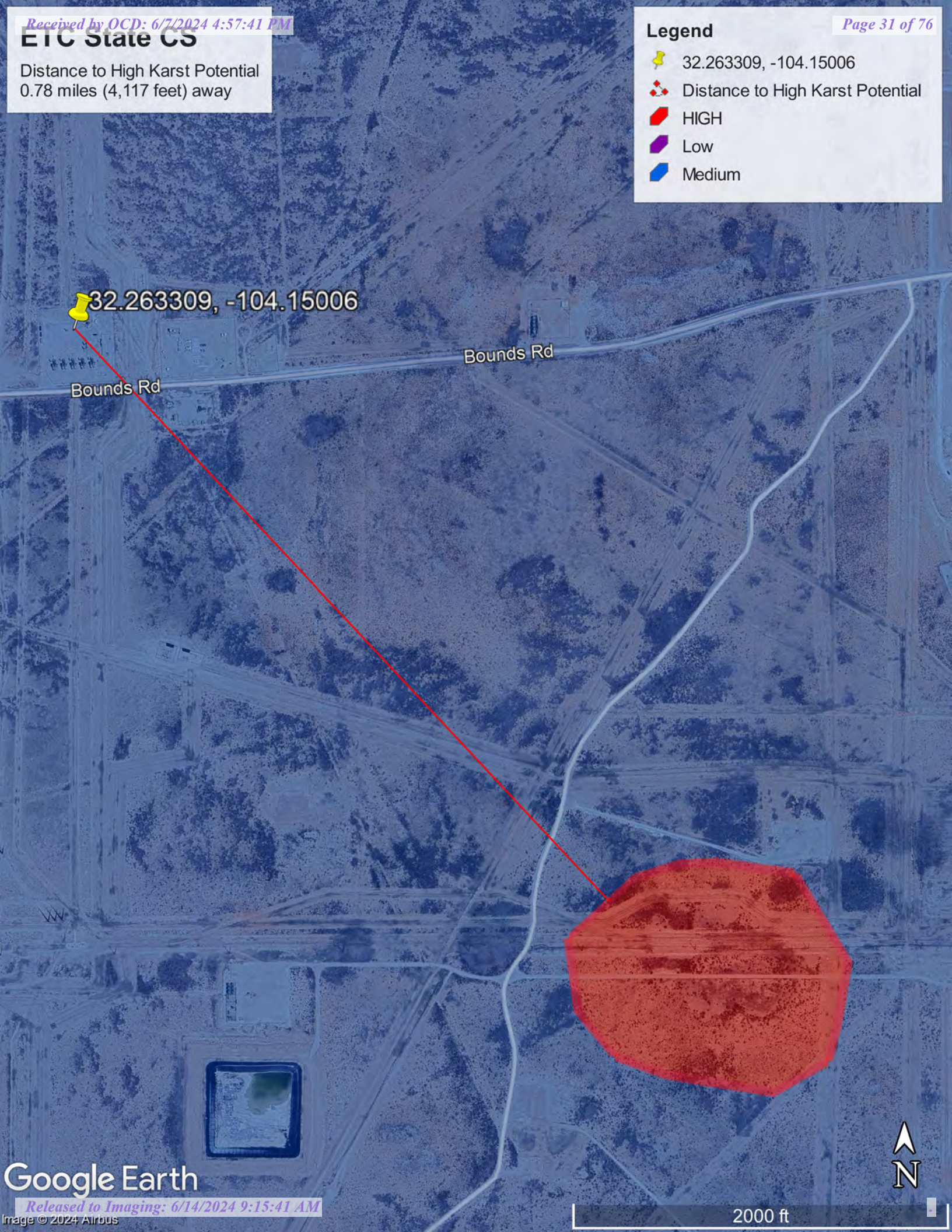
NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

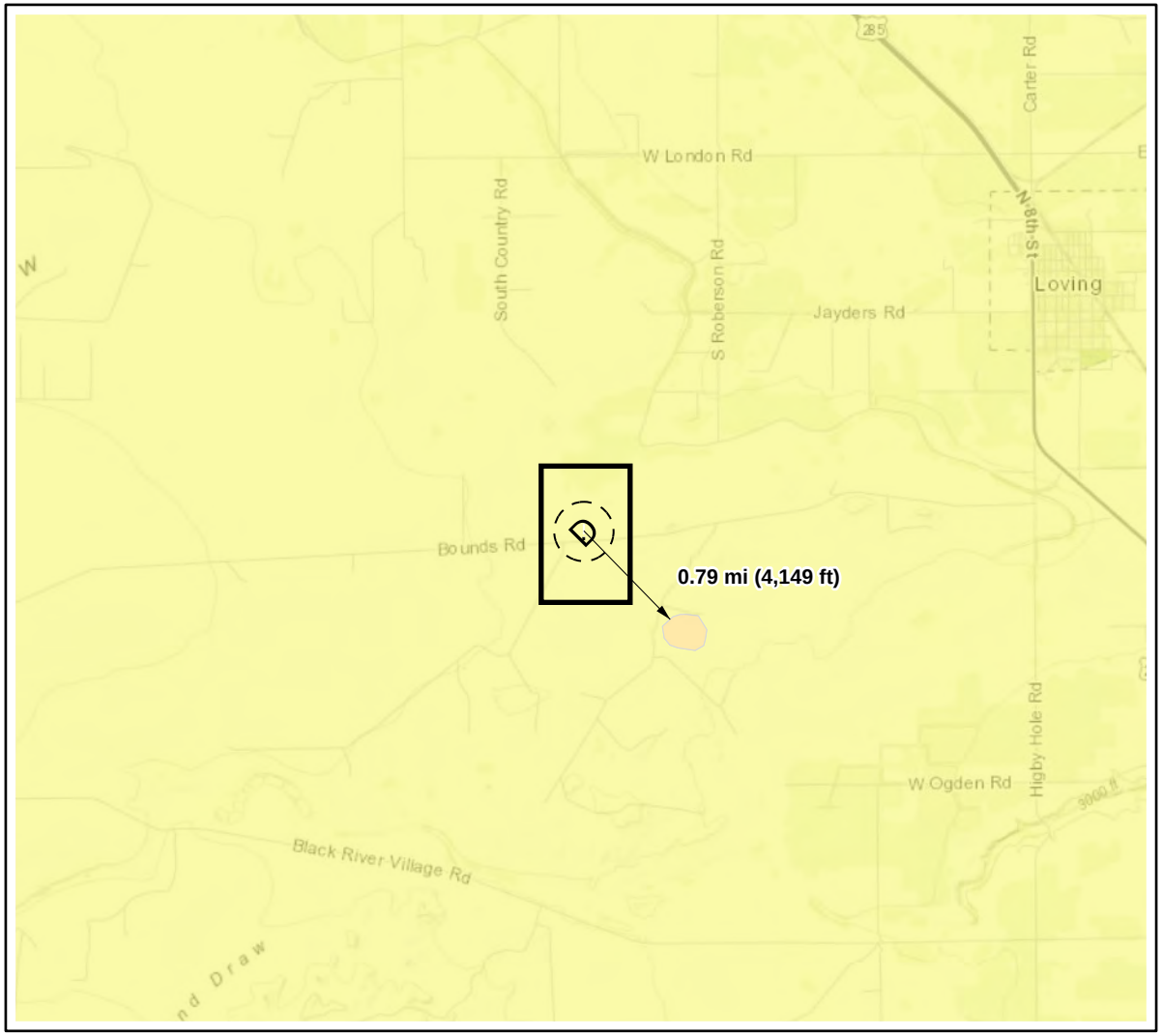
ETC State CS

Distance to High Karst Potential
0.78 miles (4,117 feet) away

Legend

- 32.263309, -104.15006
- Distance to High Karst Potential
- HIGH
- Low
- Medium





Overview Map
0 0.25 0.5 1 mi

Detail Map
0 150 300 600 ft

Karst Potential
- Critical
- High
- Medium
- Low

Site Location
Site Buffer (1000 ft.)

VERTEX

Map Center:
-104.150363° 32.264566°

NAD 1983 UTM Zone 13N
Date: Mar 22/24

Karst Potential Map
State CS

Figure:
X

ENERGY TRANSFER

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Inset Map, Esri 2022; Overview Map: Esri World Topographic. Karst potential data sources from Roswell Field Office, Bureau of Land Management, 2020 or United States Department of the Interior, Bureau of Land Management, (2018). Karst Potential.

VERSATILITY. EXPERTISE.

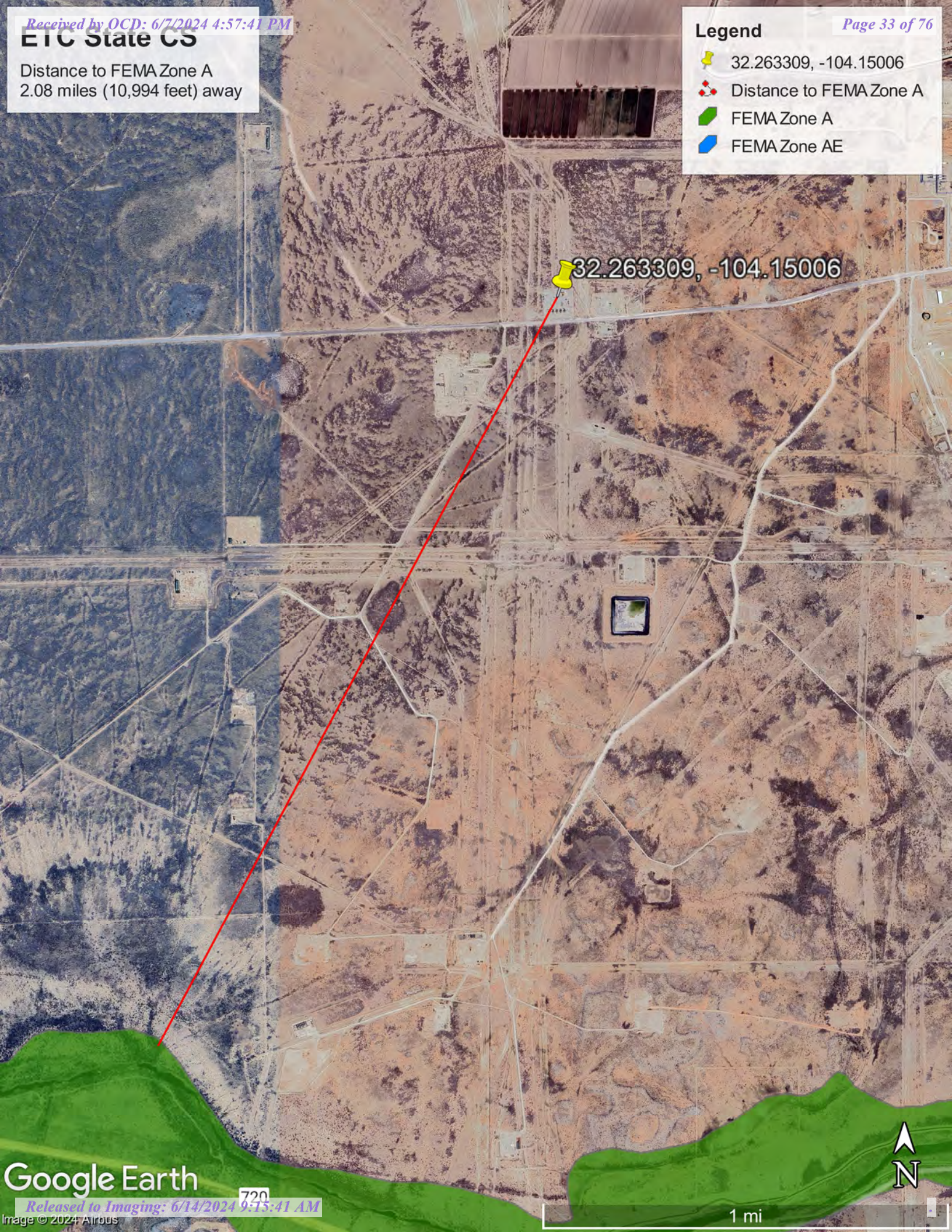
Document Path: G:\1-Projects_US PROJECTS\Energy Transfer Company\24E-01002\Project\24E-01002 - State CS.aprx

ETC State CS

Distance to FEMA Zone A
2.08 miles (10,994 feet) away

Legend

- 32.263309, -104.15006
- Distance to FEMA Zone A
- FEMA Zone A
- FEMA Zone AE



United States Department of Agriculture

NRCS

Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico

ETC State CS

March 21, 2024

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

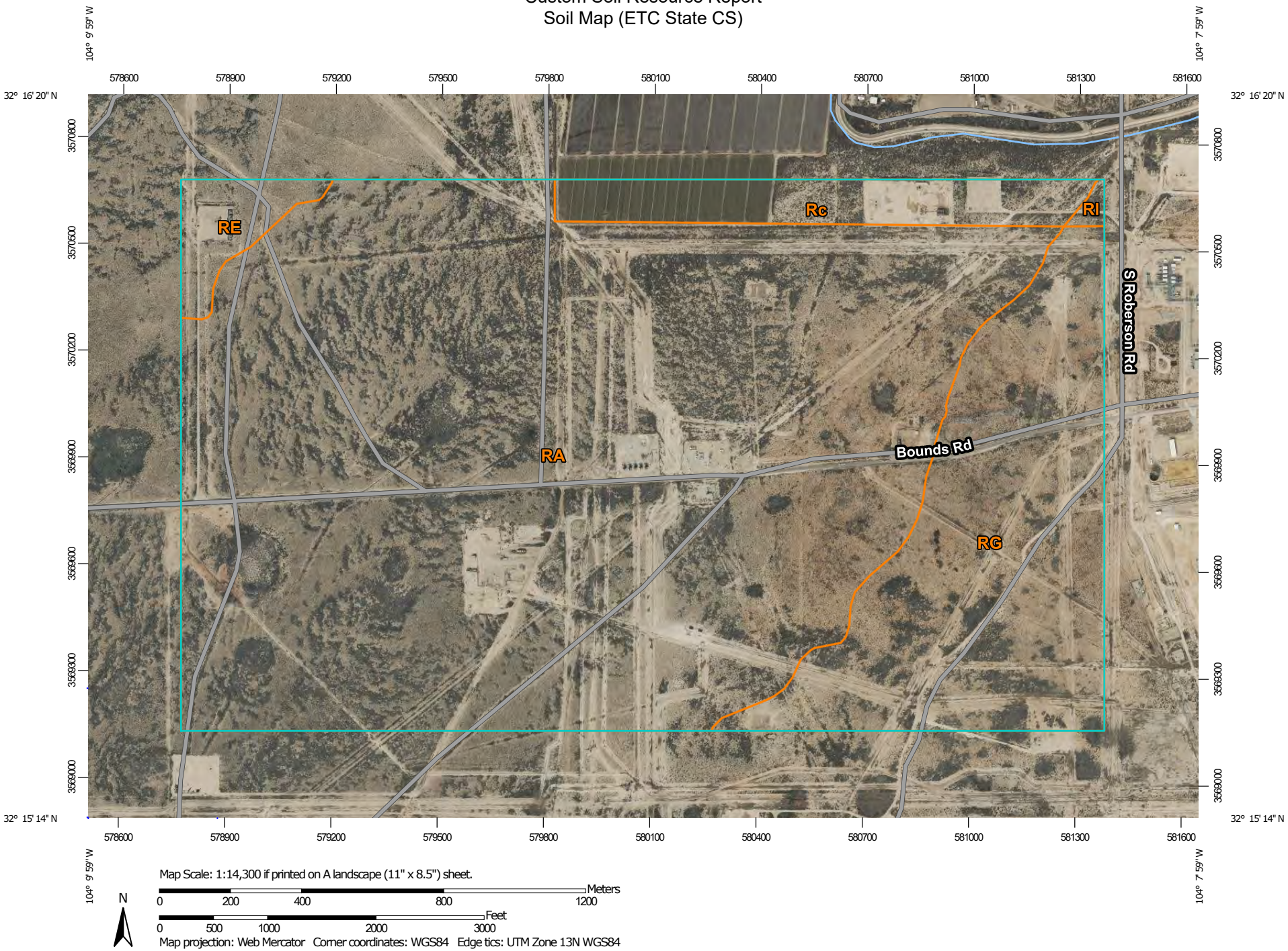
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map (ETC State CS)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

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

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

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

Map Unit Legend (ETC State CS)

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
RA	Reagan loam, 0 to 3 percent slopes	743.3	74.3%
Rc	Reagan loam, 0 to 1 percent slopes	46.2	4.6%
RE	Reagan-Upton association, 0 to 9 percent slopes	20.2	2.0%
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	189.2	18.9%
RI	Reeves loam, 0 to 1 percent slopes	2.0	0.2%
Totals for Area of Interest		**1,000.8**	**100.0%**

Map Unit Descriptions (ETC State CS)

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

RA—Reagan loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5c
Elevation: 1,100 to 4,400 feet
Mean annual precipitation: 7 to 14 inches
Mean annual air temperature: 60 to 70 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 98 percent
Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Upton

Percent of map unit: 1 percent

Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

Atoka

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Rc—Reagan loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w5l
Elevation: 1,100 to 5,300 feet
Mean annual precipitation: 7 to 15 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 200 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 97 percent
Minor components: 3 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 82 inches: loam

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6c
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Reeves

Percent of map unit: 1 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Upton

Percent of map unit: 1 percent
Ecological site: R070BC025NM - Shallow
Hydric soil rating: No

RE—Reagan-Upton association, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 1w5d
Elevation: 1,100 to 5,400 feet
Mean annual precipitation: 6 to 14 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 180 to 240 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reagan and similar soils: 70 percent
Upton and similar soils: 25 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reagan

Setting

Landform: Fan remnants, alluvial fans
Landform position (three-dimensional): Rise
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

H1 - 0 to 8 inches: loam

H2 - 8 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 40 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: R042CY153NM - Loamy
Hydric soil rating: No

Description of Upton

Setting

Landform: Ridges, fans
Landform position (three-dimensional): Side slope, rise
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from limestone

Typical profile

H1 - 0 to 9 inches: gravelly loam
H2 - 9 to 13 inches: gravelly loam
H3 - 13 to 21 inches: cemented
H4 - 21 to 60 inches: very gravelly loam

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Low to moderately high (0.01 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 75 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: D
Ecological site: R042CY159NM - Shallow Loamy
Hydric soil rating: No

Minor Components

Atoka
Percent of map unit: 3 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Pima
Percent of map unit: 2 percent
Ecological site: R070BC017NM - Bottomland
Hydric soil rating: No

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting
National map unit symbol: 1w5f
Elevation: 1,250 to 5,000 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 190 to 235 days
Farmland classification: Not prime farmland

Map Unit Composition
Reeves and similar soils: 55 percent
Gypsum land: 30 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting
Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile
H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities
Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches

Drainage class: Well drained
Runoff class: High
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: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8s
Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Largo

Percent of map unit: 5 percent
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent
Ecological site: R070BC033NM - Salty Bottomland
Hydric soil rating: No

Rl—Reeves loam, 0 to 1 percent slopes

Map Unit Setting

National map unit symbol: 1w5p
Elevation: 1,250 to 4,800 feet
Mean annual precipitation: 10 to 25 inches
Mean annual air temperature: 57 to 70 degrees F
Frost-free period: 120 to 225 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Reeves and similar soils: 98 percent
Minor components: 2 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills
Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope
Landform position (three-dimensional): Side slope, head slope, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Residuum weathered from gypsum

Typical profile

Ap - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
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: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): 3s
Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: B
Ecological site: R070BC007NM - Loamy
Hydric soil rating: No

Minor Components

Karro

Percent of map unit: 1 percent
Ecological site: R070BC030NM - Limy
Hydric soil rating: No

Cottonwood

Percent of map unit: 1 percent
Ecological site: R070BB006NM - Gyp Upland
Hydric soil rating: No

Soil Information for All Uses

Ecological Sites

Individual soil map unit components can be correlated to a particular ecological site. The Ecological Site Assessment section includes ecological site descriptions, plant growth curves, state and transition models, and selected National Plants database information.

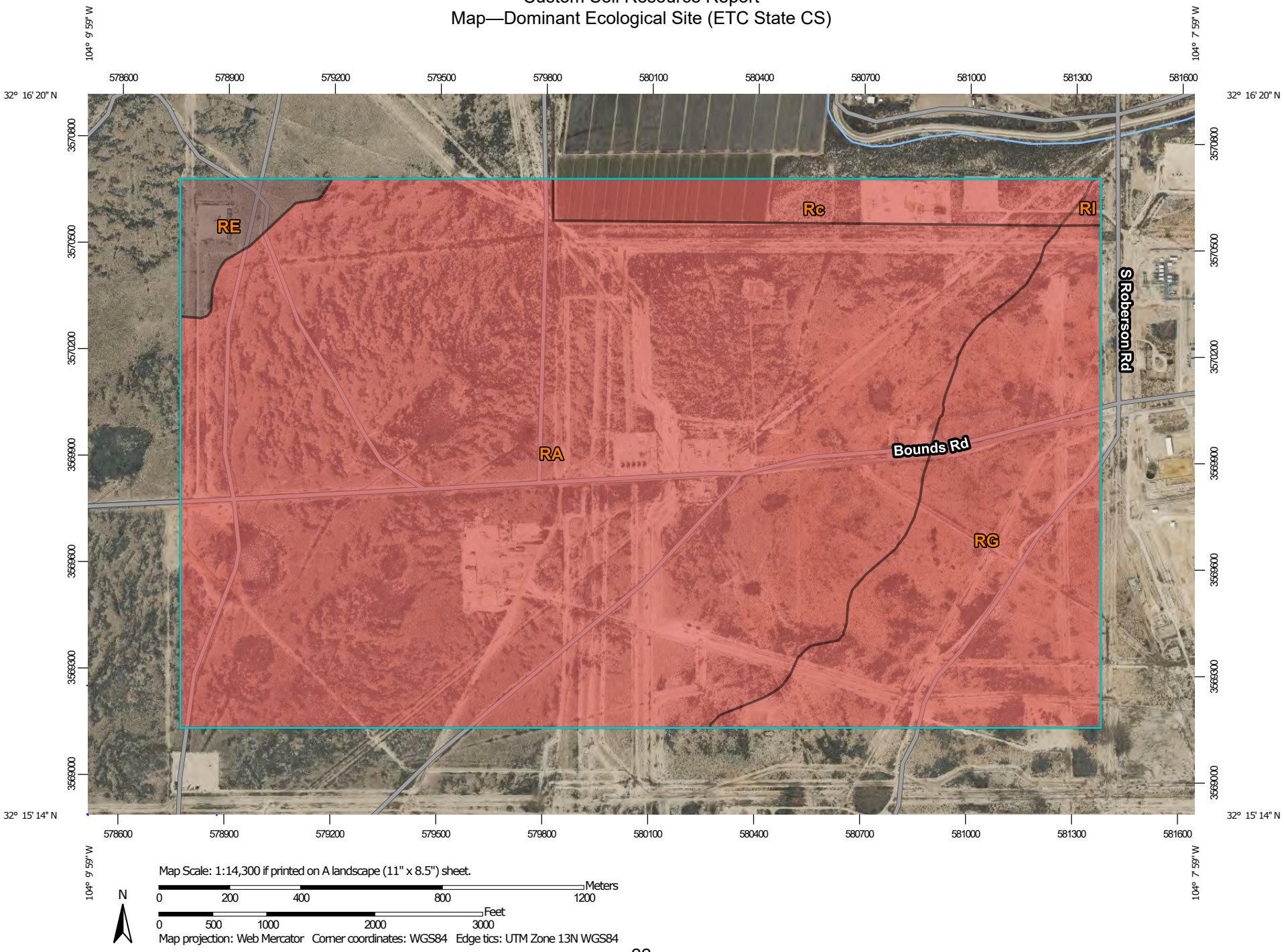
All Ecological Sites — (ETC State CS)

An "ecological site" is the product of all the environmental factors responsible for its development. It has characteristic soils that have developed over time; a characteristic hydrology, particularly infiltration and runoff, that has developed over time; and a characteristic plant community (kind and amount of vegetation). The vegetation, soils, and hydrology are all interrelated. Each is influenced by the others and influences the development of the others. For example, the hydrology of the site is influenced by development of the soil and plant community. The plant community on an ecological site is typified by an association of species that differs from that of other ecological sites in the kind and/or proportion of species or in total production.

An ecological site name provides a general description of a particular ecological site. For example, "Loamy Upland" is the name of a rangeland ecological site. An "ecological site ID" is the symbol assigned to a particular ecological site.

The map identifies the dominant ecological site for each map unit, aggregated by dominant condition. Other ecological sites may occur within each map unit. Each map unit typically consists of one or more components (soils and/or miscellaneous areas). Each soil component is associated with an ecological site. Miscellaneous areas, such as rock outcrop, sand dunes, and badlands, have little or no soil material and support little or no vegetation and therefore are not linked to an ecological site. The table below the map lists all of the ecological sites for each map unit component in your area of interest.

Custom Soil Resource Report
Map—Dominant Ecological Site (ETC State CS)



MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils

Soil Rating Polygons
- R042CY153NM
- R070BC007NM
- Not rated or not available

Soil Rating Lines
- R042CY153NM
- R070BC007NM
- Not rated or not available

Soil Rating Points
- R042CY153NM
- R070BC007NM
- Not rated or not available

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

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

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

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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

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

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 19, Sep 7, 2023

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

Date(s) aerial images were photographed: Nov 12, 2022—Dec 2, 2022

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

Table—Ecological Sites by Map Unit Component (ETC State CS)

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
RA	Reagan loam, 0 to 3 percent slopes	Reagan (98%)	R070BC007NM — Loamy	743.3	74.3%
		Atoka (1%)	R070BC007NM — Loamy		
		Upton (1%)	R070BC025NM — Shallow		
Rc	Reagan loam, 0 to 1 percent slopes	Reagan (97%)	R070BC007NM — Loamy	46.2	4.6%
		Reagan (1%)	R070BC007NM — Loamy		
		Reeves (1%)	R070BC007NM — Loamy		
		Upton (1%)	R070BC025NM — Shallow		
RE	Reagan-Upton association, 0 to 9 percent slopes	Reagan (70%)	R042CY153NM — Loamy	20.2	2.0%
		Upton (25%)	R042CY159NM — Shallow Loamy		
		Atoka (3%)	R070BC007NM — Loamy		
		Pima (2%)	R070BC017NM — Bottomland		
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	Reeves (55%)	R070BC007NM — Loamy	189.2	18.9%
		Gypsum land (30%)			
		Cottonwood (5%)	R070BC033NM — Salty Bottomland		
		Largo (5%)	R070BC007NM — Loamy		
		Reagan (5%)	R070BC007NM — Loamy		
RI	Reeves loam, 0 to 1 percent slopes	Reeves (98%)	R070BC007NM — Loamy	2.0	0.2%
		Cottonwood (1%)	R070BB006NM — Gyp Upland		
		Karro (1%)	R070BC030NM — Limy		
Totals for Area of Interest				**1,000.8**	**100.0%**

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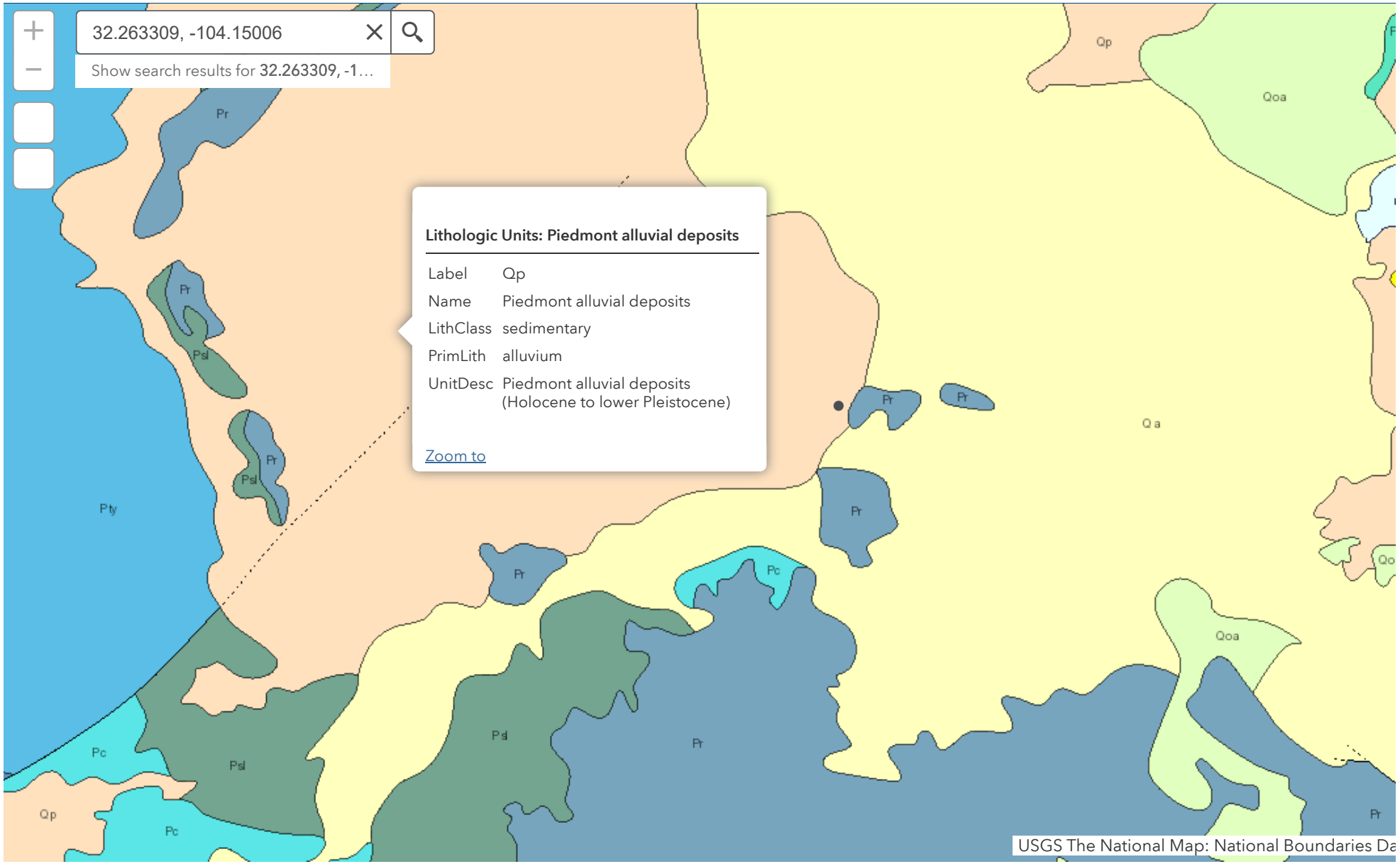
NMBGMR Interactive Resources Map



APPENDIX C

DAILY FIELD REPORT

Daily Site Visit Report

Client:	Energy Transfer Co	Inspection Date:	3/22/2024
Site Location Name:	State CS	Report Run Date:	3/22/2024 6:56 PM
Client Contact Name:	Lynn Acosta	API #:	
Client Contact Phone #:	575-997-6656		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	3/22/2024 11:26 AM
Departed Site	3/22/2024 12:23 PM

Daily Site Visit Report

Field Notes

12:49 Arrived on site and filled out paperwork. Met with ETC rep and walked the site

12:50 Rep said containment is scheduled to be powerwashed soon. Liner looks to be in good condition. No breaches or tears.

Next Steps & Recommendations

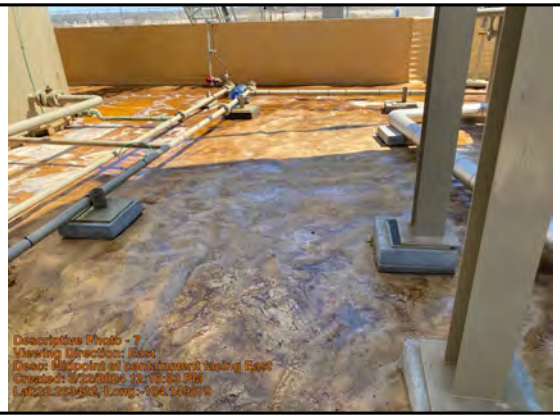
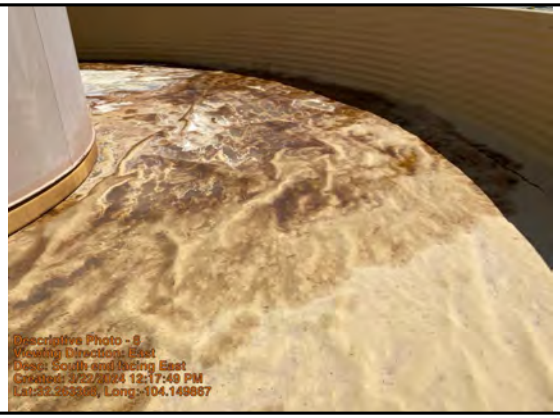
1

Daily Site Visit Report

Site Photos

Viewing Direction: Southwest	**Viewing Direction**: East
	
Facing southwest from the center of containment	Center of containment facing East
Viewing Direction: Southwest	**Viewing Direction**: East
	
Northern wall facing southwest	Northern wall facing East

Daily Site Visit Report

Viewing Direction: South	**Viewing Direction**: South
	
NW corner facing south	NE corner facing south
Viewing Direction: East	**Viewing Direction**: East
	
Midpoint of containment facing East	South end facing East

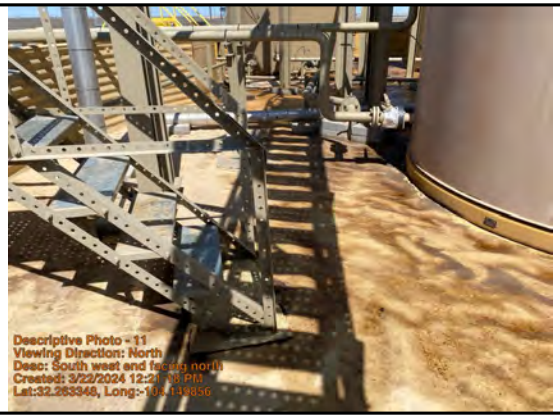
Daily Site Visit Report

Viewing Direction: West

South end facing west

Viewing Direction: North

South end facing north

Viewing Direction: North

South west end facing north

Daily Site Visit Report

Daily Site Visit Signature

Inspector: Angela Mohle

Signature: 

Signature

APPENDIX D

48-HOUR NOTIFICATION OF LINER INSPECTION

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

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

QUESTIONS

Action 325076

QUESTIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 325076
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2405157748**
Incident Name	**NAPP2405157748 STATE CS @ 0**
Incident Type	**Release Other**
Incident Status	**Initial C-141 Approved**

Location of Release Source	
Site Name	**State CS**
Date Release Discovered	**02/20/2024**
Surface Owner	**Private**

Liner Inspection Event Information *Please answer all the questions in this group.*	
What is the liner inspection surface area in square feet	2,000
Have all the impacted materials been removed from the liner	Yes
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	03/22/2024
Time liner inspection will commence	08:00 AM
Please provide any information necessary for observers to liner inspection	N/A
Please provide any information necessary for navigation to liner inspection site	32.262511° -104.150209°

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CONDITIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 325076
	Action Type: [NOTIFY] Notification Of Liner Inspection (C-141L)

CONDITIONS

Created By	Condition	Condition Date
lacosta	Failure to notify the OCD of liner inspections including any changes in date/time per the requirements of 19.15.29.11.A(5)(a)(ii) NMAC, may result in the inspection not being accepted.	3/20/2024

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QUESTIONS

Action 352208

QUESTIONS

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 352208
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2405157748**
Incident Name	**NAPP2405157748 STATE CS @ 0**
Incident Type	**Release Other**
Incident Status	**Remediation Closure Report Received**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	State CS
Date Release Discovered	02/20/2024
Surface Owner	Private

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	No
Condensate Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. | Tank (Any) | Condensate | Released: 100 BBL | Recovered: 100 BBL | Lost: 0 BBL.
Natural Gas Vented (Mcf) Details	*Not answered.*
Natural Gas Flared (Mcf) Details	*Not answered.*
Other Released Details	*Not answered.*
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Overflow from tank due to bad level indicator. All overflow captured in secondary containment, none to ground.

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QUESTIONS (continued)

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 352208
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*
Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.	

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

I hereby agree and sign off to the above statement	Name: Lynn Acosta Title: Enviromental Specialist Email: lynn.acosta@energytransfer.com Date: 06/07/2024

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QUESTIONS (continued)

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 352208
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 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	Yes
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	03/22/2024
On what date will (or did) the final sampling or liner inspection occur	03/22/2024
On what date will (or was) the remediation complete(d)	03/22/2024
What is the estimated surface area (in square feet) that will be remediated	0.1
What is the estimated volume (in cubic yards) that will be remediated	0.1
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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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 (continued)

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 352208
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
Is (or was) there affected material present needing to be removed	Yes
Is (or was) there a power wash of the lined containment area (to be) performed	Yes
OTHER (Non-listed remedial process)	*Not answered.*
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Lynn Acosta Title: Enviromental Specialist Email: lynn.acosta@energytransfer.com Date: 06/07/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

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QUESTIONS (continued)

Operator: ETC Texas Pipeline, Ltd. 8111 Westchester Drive Dallas, TX 75225	OGRID: 371183
	Action Number: 352208
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	**325076**
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	**03/22/2024**
Was all the impacted materials removed from the liner	**Yes**
What was the liner inspection surface area in square feet	**2000**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**Yes**
What was the total surface area (in square feet) remediated	0.1
What was the total volume (cubic yards) remediated	0.1
Summarize any additional remediation activities not included by answers (above)	No remediation needed as material was inside the lined containment. 3rd party consultant completed liner integrity with no findings.

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

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

I hereby agree and sign off to the above statement	Name: Lynn Acosta Title: Enviromental Specialist Email: lynn.acosta@energytransfer.com Date: 06/07/2024

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CONDITIONS

Action 352208

CONDITIONS

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	Action Number: 352208
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2405157748 STATE CS, thank you. This Remediation Closure Report is approved.	6/14/2024