



209 W. McKay Street
Carlsbad, New Mexico 88220
Tel. 432-701-2159
www.ntgenvironmental.com

May 28, 2024

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Site Characterization and Remediation Work Plan
Devon Energy Production Company
North Thistle 2-35 Federal #001H
Unit B, Section 02, Township 23S, Range 33E
Site Coordinates: 32.3395618, -103.5413391
Lea County, New Mexico
Incident ID: nAPP2409932604

Introduction

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this Site Characterization and Remediation Work Plan for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment, remedial action activities, and sample analysis results for the release number: nAPP2409932604 – North Thistle 2 35 Federal #001H (Site). The Site is in Unit Letter B, Section 02, of Township 23 South and Range 33 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.3395618° N latitude and 103.5413391° W longitude. The site location with respect to the nearest town is shown in Figure 1 and the topography of the area is shown in Figure 2.

Background

Based on the Release Notification C-141 Form, the release was discovered on April 7th, 2024, and was due to equipment failure on the main flowline. Upon discovery, the Site was shut-in, and repairs were ensued. The spill resulted in a release of approximately thirty (30) barrels (bbls) of crude oil of which twenty (20) bbls were recovered for an approximate net loss of ten (10) bbls of crude oil. The release area is shown in Figure 3.

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Mr. Mike Bratcher
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Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers (NMOSE) and USGS databases, there are no known water sources within a ½-mile radius of the location.

No other receptors (playas, wetlands, waterways, lakebeds, or ordinance boundaries) are located within each specific boundary or distance from the Site. According to the Karst Potential Map, the site is located within a Low Karst area. The Site characterization documentation (Points of Diversion, Karst Potential, Significant Watercourse Map, Wetlands Map, and FEMA Map) are attached to this report.

NTGE characterized the Site according to Table I, Closure Criteria for Soils Impacted by a Release, from the New Mexico Administrative Code (NMCA) Title 19, Chapter 15, Part 29, Section 12 (NMAC 19.15.29.12).

General Site Characterization and Groundwater:

Site Characterization	Average Groundwater Depth (ft)
Low Karst	Unknown

Table 3.1 Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29.12 & 19.15.29.13)

Regulatory Standard	Chloride	TPH (GRO+DRO+MRO)	GRO+DRO	BTEX	Benzene
19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
Notes: --- = not defined					

Initial Soil Delineation Assessment Summary and Findings

On April 11th, 2024, NTGE conducted site assessment activities to assess the extent of impacts at the Site. Two (2) vertical sample points (V-1 and V-2) were installed within the area of concern. Sample collection was performed at one (1) ft. intervals from depths ranging from zero (0) to four and a half (4.5) feet below ground surface (ft bgs) with a geotechnical hand auger to characterize the extent of contaminants. Five (5) horizontal sample points (H-1 through H-5) were installed adjacent to the release area to characterize the lateral impacts. Soil samples were collected at zero (0) to half-foot (0.5) ft bgs with a geotechnical hand auger. The hand auger was decontaminated with Alconox and deionized water between soil borings to prevent cross-contamination. Sample locations are shown in Figure 3.

Soil samples were placed directly into laboratory provided samples containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, NM for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) (EPA method 8021B), total petroleum hydrocarbon (TPH) (EPA method 8015M), and chloride (EPA method SM4500Cl-B). The analytical results indicated that chloride concentrations exceeded the NMOCD regulatory limits in the areas of V-1 and V-2 from surface (0) to four and a half (4.5) ft bgs. The analytical

NTGE Project No.: 248613



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results indicate that TPH exceeded the NMOCD regulatory limits in the area of V-1 from surface (0) to a half (0.5) ft bgs.

On May 21st, 2024, NTGE returned to the Site to continue vertical delineation assessment of the release. Two (2) test pits (TP-1 and TP-2) were installed within the release area to further characterize the spill. Soil samples were collected with machinery equipment, at 1 ft intervals from depths ranging from five (5) and six (6) ft bgs. All soil samples were analyzed for BTEX (EPA method 8021B), TPH (EPA method 8015M), and chloride (EPA method SM4500Cl-B). Analytical results indicated that BTEX, TPH and Chloride concentrations were below the NMOCD regulatory limits for TP-1 and TP-2 at all intervals.

Analytical results are included in Table 1, while soil boring locations are shown in Figure 3. The initial C-141, laboratory reports containing analytical methods and chain-of-custody documents are attached to the report.


Proposed Work Plan

After receiving and evaluating the soil boring data NTGE proposes to excavate the areas of TP-1 and TP-2 to a depth of five (5) ft bgs to ensure that the impacted soil has been removed from the Site. Approximately four hundred fifty-nine (459) cubic yards of impacted material will be removed and transported offsite for disposal at an NMOCD approved landfill. The proposed excavation map is shown in Figure 4.

Confirmation samples will be taken with a five (5) point composite sample and represent an area no greater than 200 square feet to comply with NMAC 19.15.23.12 and 19.15.29.13. Discrete soil samples will be collected from the sidewalls and bottom of the excavation if any staining is observed. All confirmation samples will be taken to a certified laboratory and analyzed for BTEX by EPA Method 8021B, TPH by EPA Method 8015B Modified and chloride by SM4500 Cl-B. If any of the confirmation samples collected exhibit concentrations above regulatory standards set by NMAC 19.15.23.12 and 19.15.23.13, the areas will be further excavated until concentrations are below Table 3.1 Closure Criteria.

If you have any questions regarding this letter, please contact us at (432)-701-2159.

Sincerely,
NTG Environmental



Ethan Sessums
Project Manager

Attachments:

- Tables
- Figures
- Photographic Log
- Site Characterization Documentation
- Laboratory Reports and Chain-of-Custody Documents

NTGE Project No.: 248613



TABLES

Table 1
Summary of Soil Analytical Data - Initial Assessment Samples
North Thistle 2-35 Federal #001H
Devon Energy Production Company
Lea Co, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)		
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	---	---	100 mg/kg		600 mg/kg
Vertical Delineation Samples														
V-1	4/11/2024	0-0.5	0.208	1.07	0.532	2.02	3.83	53.4	251	304	37.7	342	22,400	
	4/11/2024	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,840	
	4/11/2024	2-2.5	0.18	0.085	<0.050	<0.150	0.265	<10.0	<10.0	<10.0	<10.0	<10.0	6,880	
	4/11/2024	3-3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,000	
	4/11/2024	4-4.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	11,400	
V-2	4/11/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	57.3	57.3	<10.0	57.3	20,000	
	4/11/2024	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,530	
	4/11/2024	2-2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,800	
	4/11/2024	3-3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,860	
	4/11/2024	4-4.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	9,860	
TP-1	5/21/2024	5-5.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32	
	5/21/2024	6-6.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80	
TP-2	5/21/2024	5-5.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352	
	5/21/2024	6-6.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256	
Horizontal Delineation Samples														
H-1	4/11/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128	
H-2	4/11/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416	
H-3	4/11/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	21.3	21.3	<10.0	21.3	160	
H-4	4/11/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	20	20	<10.0	20	336	
H-5	4/11/2024	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128	

Notes:

1. Values reported in mg/kg

2. < = Value Less Than Reporting Limit (RL)

3. Bold indicates Analyte Detected

4. BTEX analyses by EPA Method SW 8021B

 Sample Point Excavated

5. TPH analyses by EPA Method SW 8015 Mod.

6. GRO/DRO/MRO - Gasoline/Diesel/Motor Oil

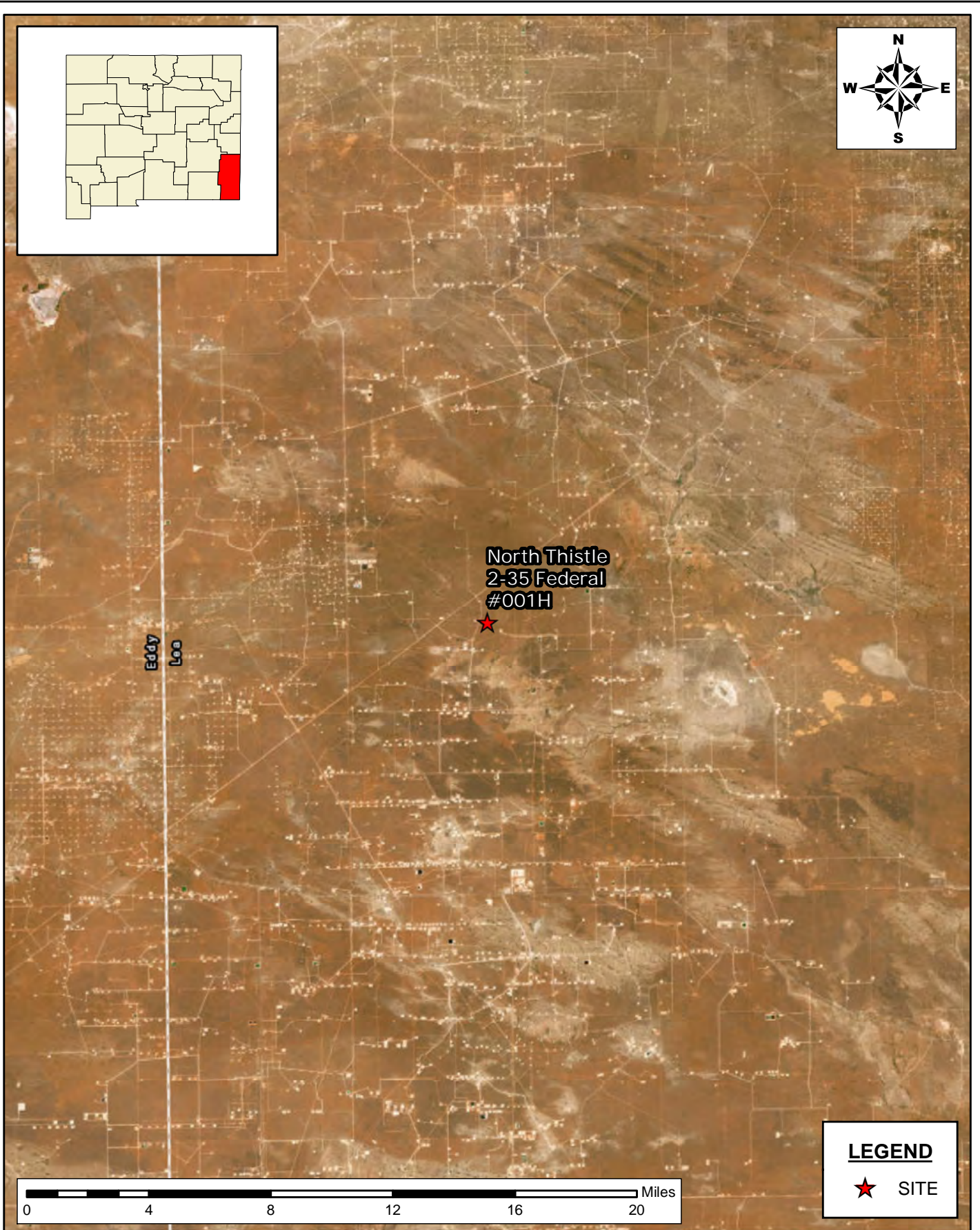
7. Yellow shaded cells indicate analytical samples that exceed the NMAC 19.15.29.12 Table I Closure Criteria for the site.

8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. --- Not Analyzed

FIGURES

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SITE LOCATION MAP
SITE CHARACTERIZATION AND REMEDIATION WORKPLAN
DEVON ENERGY PRODUCTION COMPANY
NORTH THISTLE 2-35 FED #001H
LEA COUNTY, NEW MEXICO

SCALE: As Shown Date: 4/11/2024 PROJECT #:248613

New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntgenviroinmental.com



NOTES:

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

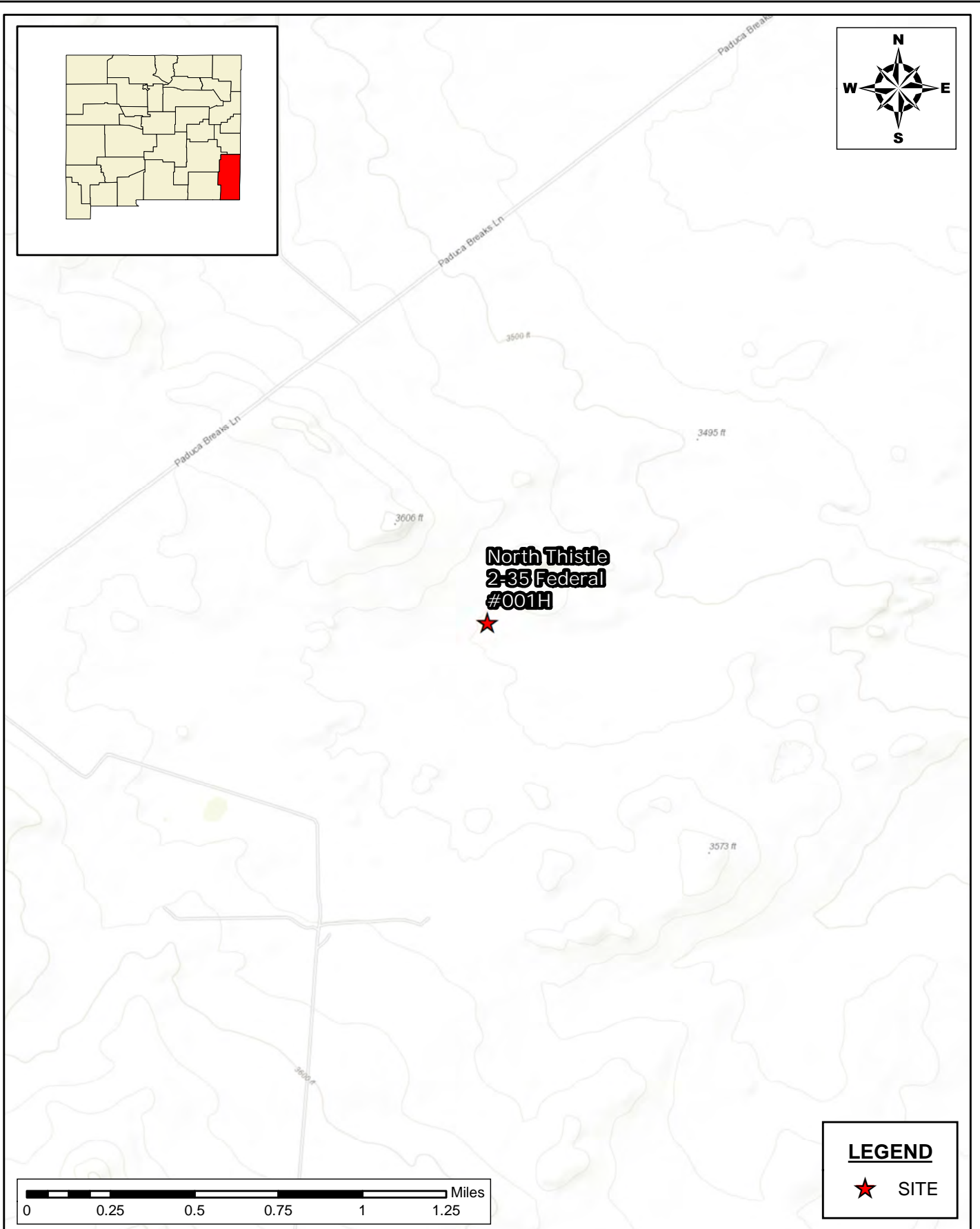
DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1

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TOPOGRAPHIC MAP
SITE CHARACTERIZATION AND REMEDIATION WORKPLAN
DEVON ENERGY PRODUCTION COMPANY
NORTH THISTLE 2-35 FED #001H
LEA COUNTY, NEW MEXICO

SCALE: As Shown Date: 4/11/2024 PROJECT #:248613



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1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983

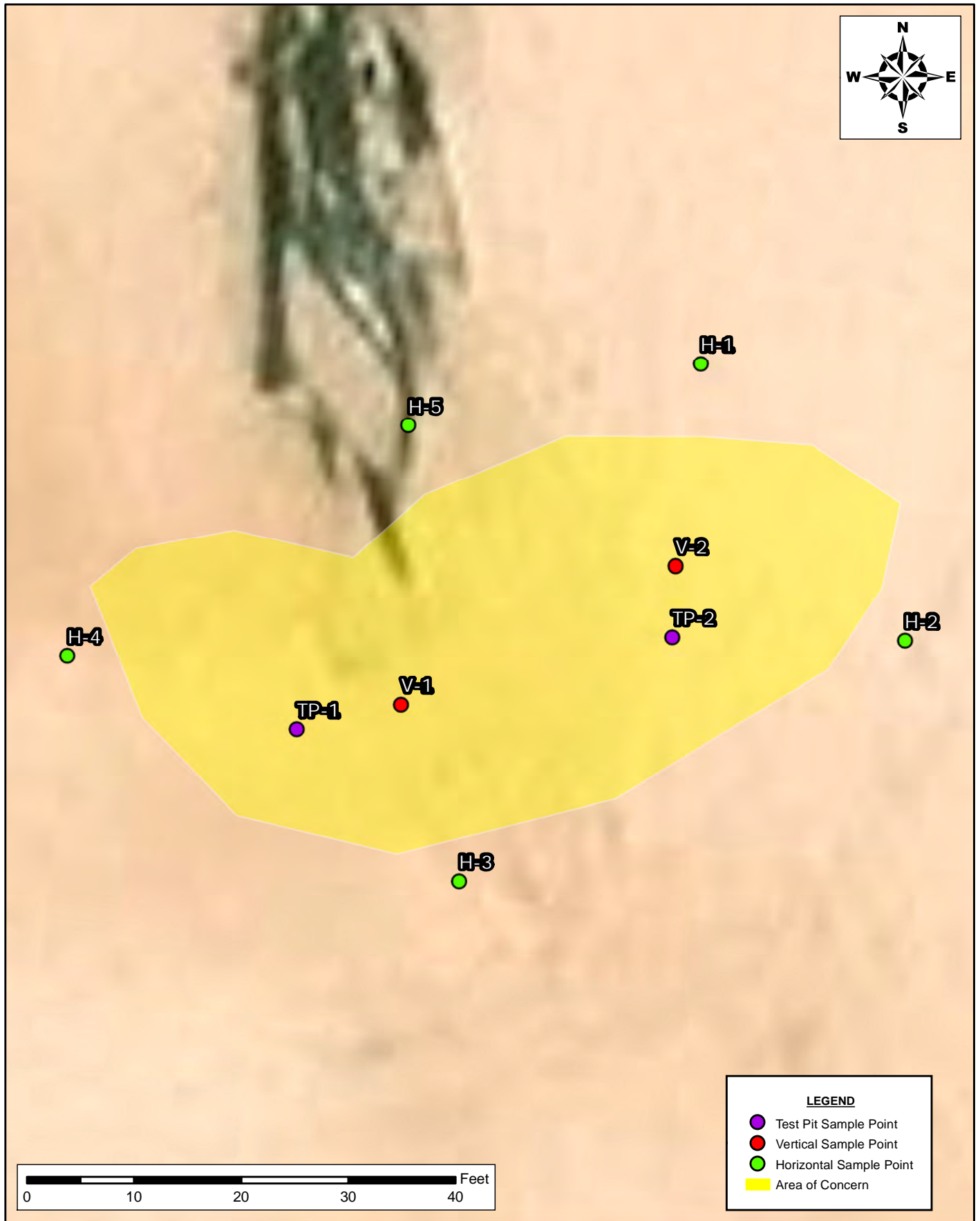
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FIGURE 2

SHEET NUMBER:

1 of 1

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INITIAL ASSESSMENT MAP
SITE CHARACTERIZATION AND REMEDIATION WORKPLAN
NORTH THISTLE 2-35 FED #001H
DEVON ENERGY PRODUCTION COMPANY
LEA COUNTY, NEW MEXICO

SCALE: AS SHOWN DATE: 05/28/2024 PROJECT #: 248613



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
F - 281.872.4521
Web: www.ntgenviroinmental.com

NOTES:

1. Base Image: ESRI Maps & Data 2017
2. Map Projection: NAD 1983

DRAWING NUMBER:

FIGURE 3

SHEET NUMBER:

1 of 1




Proposed Excavation Map

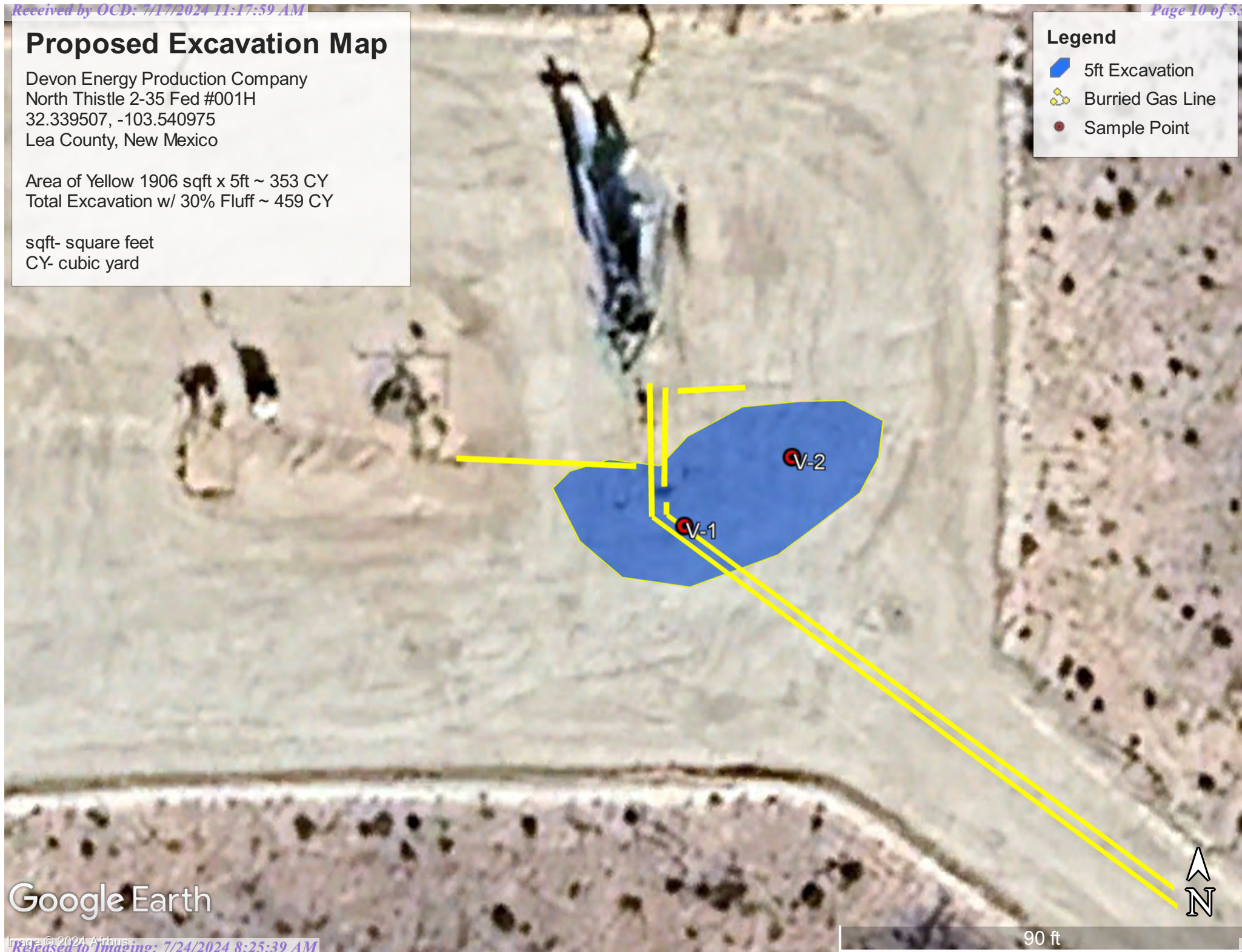
Devon Energy Production Company
North Thistle 2-35 Fed #001H
32.339507, -103.540975
Lea County, New Mexico

Area of Yellow 1906 sqft x 5ft ~ 353 CY
Total Excavation w/ 30% Fluff ~ 459 CY

sqft- square feet
CY- cubic yard

Legend

-  5ft Excavation
-  Buried Gas Line
-  Sample Point



Google Earth

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG
Devon Energy Production Company
North Thistle 2-35 Fed #001H

Photograph No. 4

Facility: North Thistle 2-35 Fed #001H

County: Lea County, New Mexico

Description:
Area of Concern

**Photograph No. 5**

Facility: North Thistle 2-35 Fed #001H

County: Lea County, New Mexico

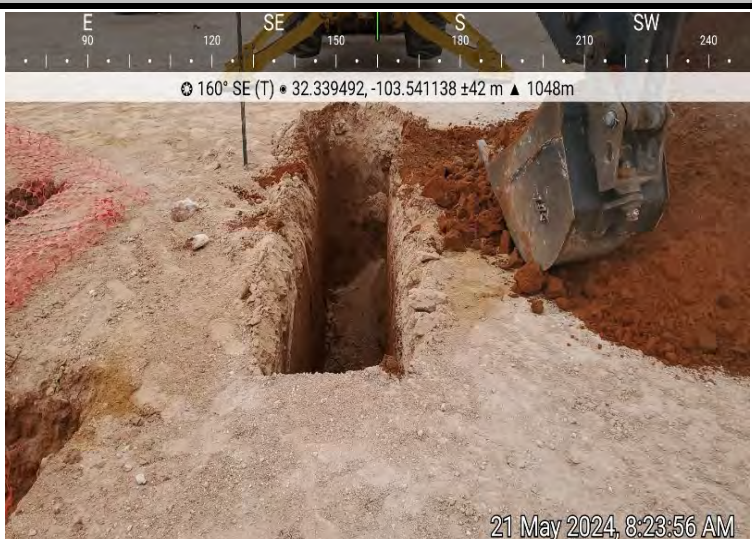
Description:
Area of Concern

**Photograph No. 6**

Facility: North Thistle 2-35 Fed #001H

County: Lea County, New Mexico

Description:
Test Pits



SITE CHARACTERIZATION INFORMATION

OCD Well Locations



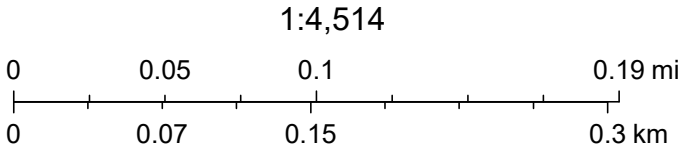
4/11/2024, 12:17:04 PM

Wells - Large Scale Incident Release

- Oil, Active
- Oil, New
- Produced Water Release
- Oil Release

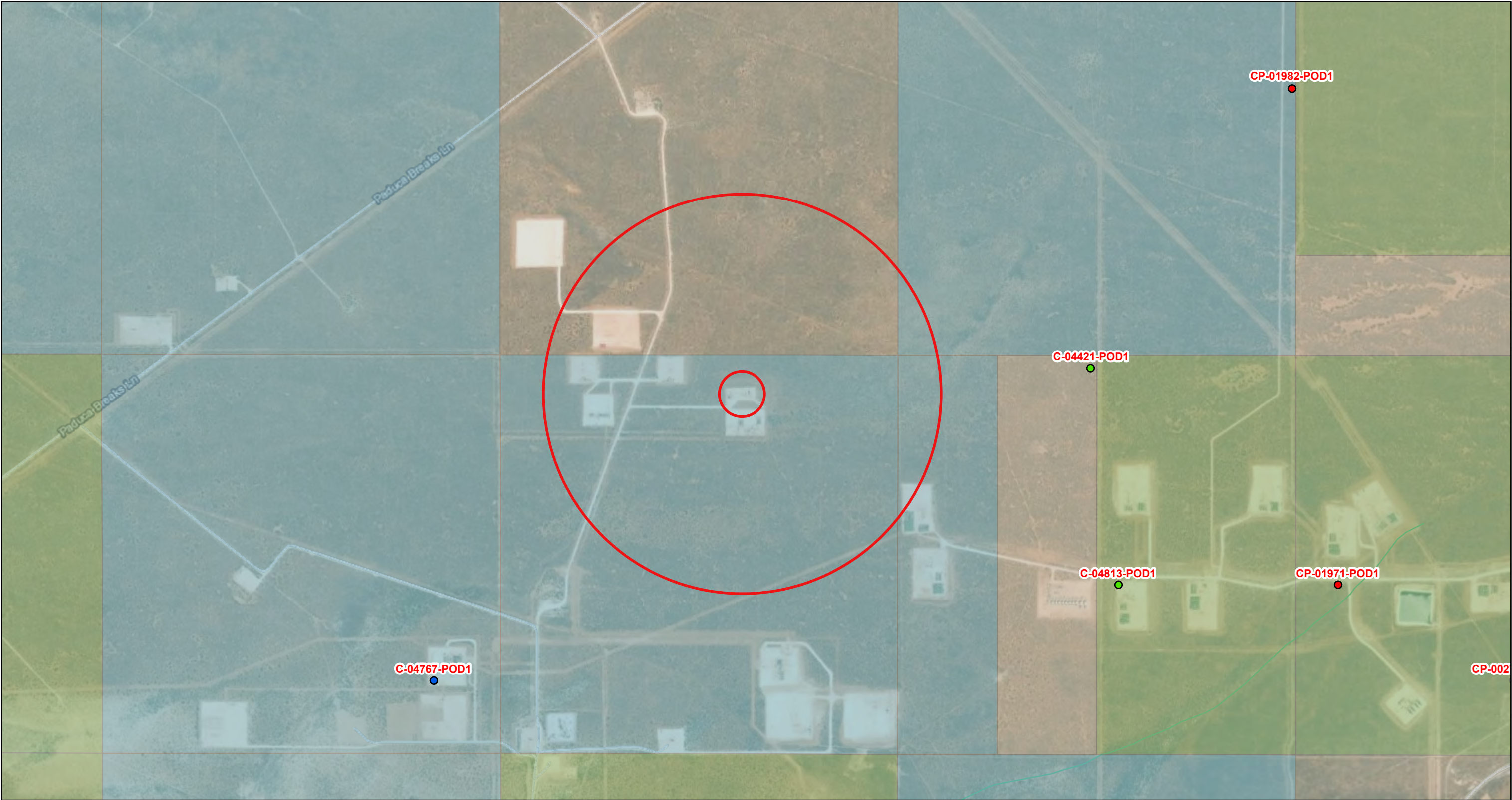
Karst Occurrence Potential

- Low
- PLSS Second Division
- PLSS First Division



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., USGS, OCD, Esri, HERE, Garmin, iPC, Maxar, BLM

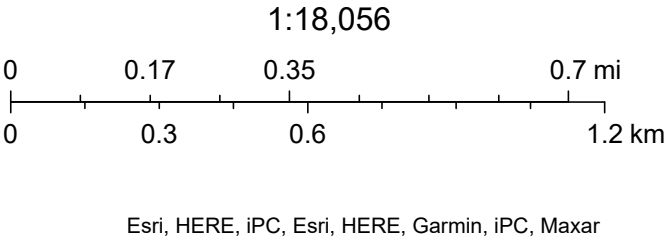
OSE POD Location Map



4/11/2024, 12:16:28 PM

- Override 1
- GIS WATERS PODs
- Active
- Pending
- Plugged
- OSE District Boundary




- Water Right Regulations
- Closure Area
- Artesian Planning Area
- New Mexico State Trust Lands
- Subsurface Estate
- Surface Estate
- Both Estates
- NHD Flowlines
- Stream River

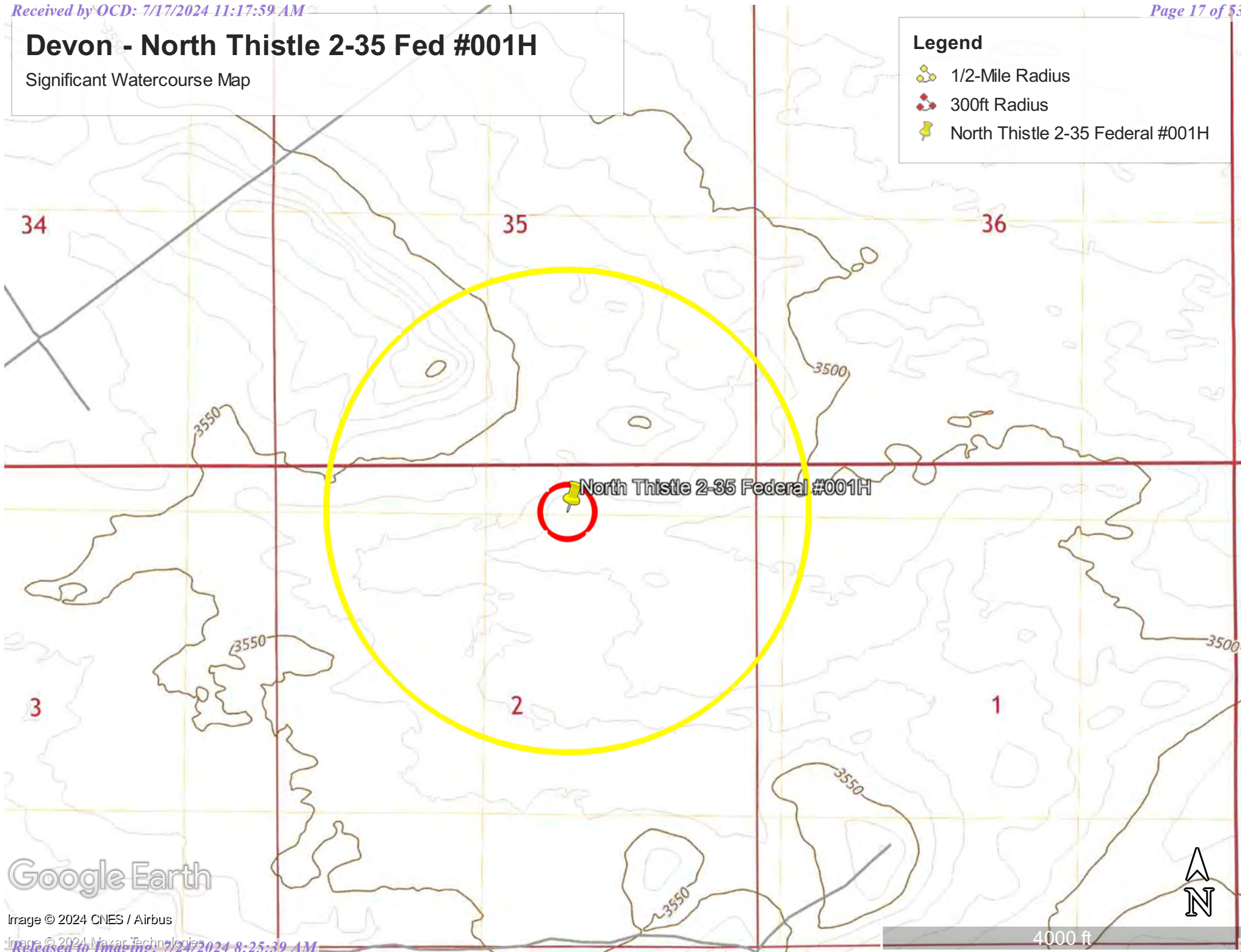


Devon - North Thistle 2-35 Fed #001H

Significant Watercourse Map

Legend

-  1/2-Mile Radius
-  300ft Radius
-  North Thistle 2-35 Federal #001H



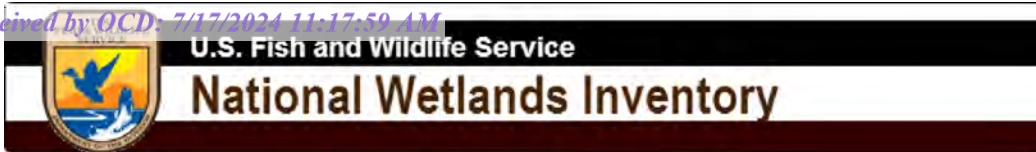
Google Earth

Image © 2024 CNES / Airbus

Image © 2024 Maxar Technologies

Released to Imaging: 7/24/2024 8:25:39 AM

4000 ft








Wetlands Inventory






April 11, 2024

Wetlands

-  Estuarine and Marine Deepwater
-  Estuarine and Marine Wetland

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

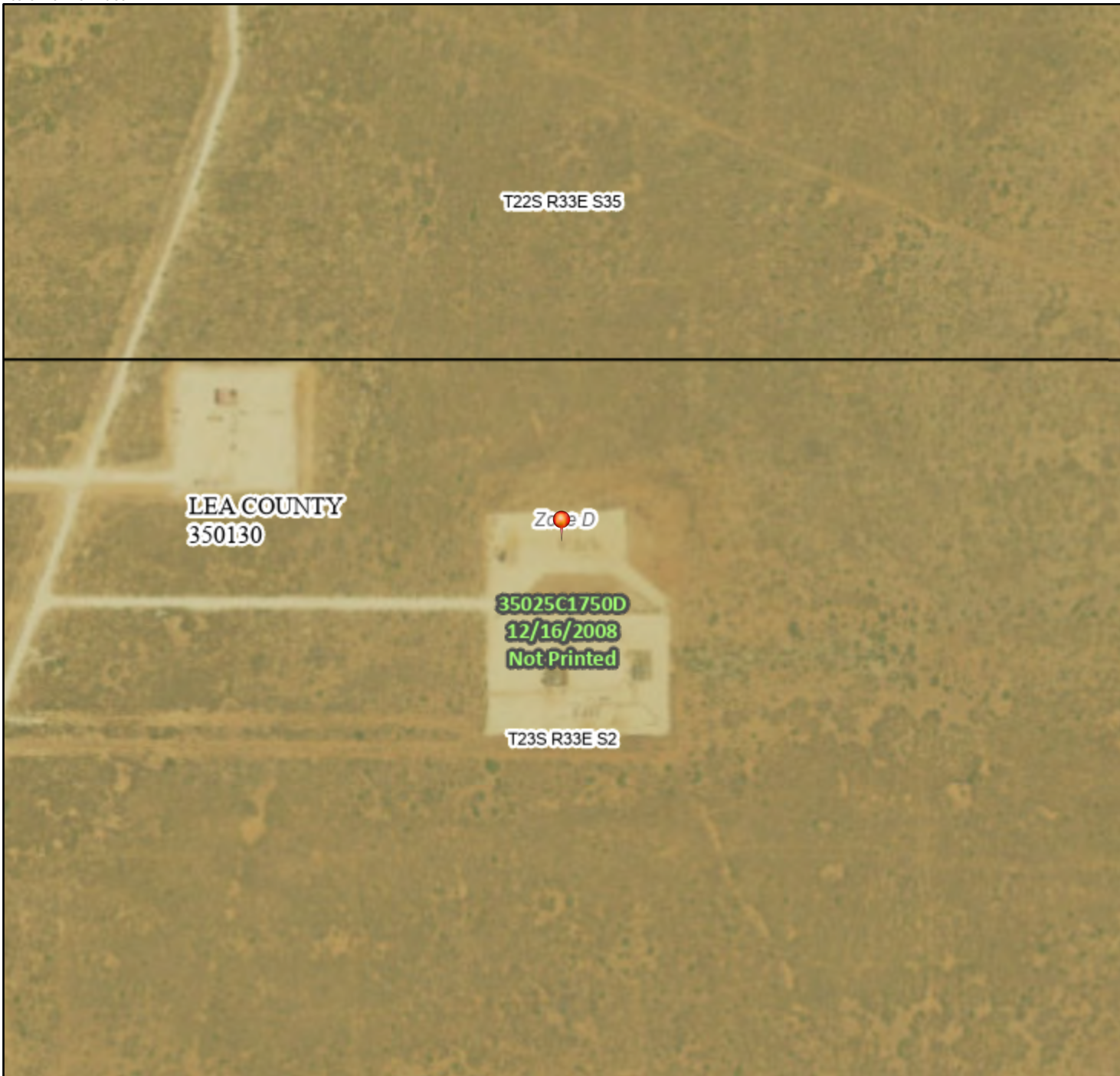
-  Lake
-  Other
-  Riverine

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

National Flood Hazard Layer FIRMette



103°32'48"W 32°20'38"N



1:6,000

103°32'10"W 32°20'7"N

Legend

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

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



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

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/11/2024 at 2:14 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 16, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: N THISTLE 2-35

Enclosed are the results of analyses for samples received by the laboratory on 04/11/24 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: V - 1 0-.5' (H241906-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.208	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	1.07	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	0.532	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	2.02	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	3.83	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22400	16.0	04/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	53.4	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	251	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	37.7	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: V - 1 1-1.5' (H241906-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTEx	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	04/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: V - 1 2-2.5' (H241906-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.180	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	0.085	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTEX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6880	16.0	04/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 96.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.9 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: V - 1 3-3.5' (H241906-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTEX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	04/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: V - 1 4-4.5' (H241906-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11400	16.0	04/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: V - 2 0-.5' (H241906-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTEX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20000	16.0	04/12/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	57.3	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: V - 2 1-1.5' (H241906-07)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6530	16.0	04/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: V - 2 2-2.5' (H241906-08)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	04/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: V - 2 3-3.5' (H241906-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTEX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 128 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	04/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: V - 2 4-4.5' (H241906-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTEx	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9860	16.0	04/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: H - 1 0-.5' (H241906-11)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: H - 2 0-.5' (H241906-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61		
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787		
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97		
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07		
Total BTX	<0.300	0.300	04/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	04/15/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: H - 3 0-.5' (H241906-13)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTEX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	191	95.4	200	0.0477	
DRO >C10-C28*	21.3	10.0	04/12/2024	ND	188	94.1	200	2.27	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: H - 4 0-.5' (H241906-14)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	203	102	200	0.0452	
DRO >C10-C28*	20.0	10.0	04/12/2024	ND	187	93.4	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 04/11/2024
 Reported: 04/16/2024
 Project Name: N THISTLE 2-35
 Project Number: NONE GIVEN
 Project Location: DEVON - LEA COUNTY

Sampling Date: 04/11/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: H - 5 0-.5' (H241906-15)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/12/2024	ND	2.09	105	2.00	3.61	
Toluene*	<0.050	0.050	04/12/2024	ND	2.13	107	2.00	0.787	
Ethylbenzene*	<0.050	0.050	04/12/2024	ND	2.26	113	2.00	2.97	
Total Xylenes*	<0.150	0.150	04/12/2024	ND	6.89	115	6.00	4.07	
Total BTX	<0.300	0.300	04/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/15/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/12/2024	ND	203	102	200	0.0452	
DRO >C10-C28*	<10.0	10.0	04/12/2024	ND	187	93.4	200	4.44	
EXT DRO >C28-C36	<10.0	10.0	04/12/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTC Project Manager: Ethan Sessions Address: 209 W McWay City: Carlsbad State: NM Zip: 88220 Phone #: 254-266-5456 Fax #: Project #: Project Name: N Thistle 2-35 Project Location: Lea County Sampler Name: Tyler Kimball				BILL TO P.O. #: 21324101 Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST																	
FOR LAB USE ONLY Lab I.D. H41K06		Sample I.D. 1 2 3 4 5 6 7 8 9 10 Y-1 0-.5 Y-1 1-1.5 Y-1 2-2.5 Y-1 3-3.5 Y-1 4-4.5 Y-2 0-.5 Y-2 1-1.5 Y-2 2-2.5 Y-2 3-3.5 Y-2 4-4.5		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE ICE/COOL OTHER:		SAMPLING DATE 4-11 TIME 9:00		ZPH Chlorides BTEX													
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C -0.3 Corrected Temp. °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) [Signature]		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C													
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS: Thermometer ID #140 Correction Factor 0°C Email: celey.keene@cardinallabsnm.com																							



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: NTCF Project Manager: Ethan Sessions Address: 209 W McKey City: Carlsbad State: NM Zip: 88220 Phone #: 254-266-5456 Fax #: Project #: Project Owner: Devon Project Name: NTHSHE 2-35 Project Location: Lea County Sampler Name: Tyler Kimball				BILL TO P.O. #: 21324101 Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST															
FOR LAB USE ONLY Lab I.D. H241906		Sample I.D.		MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE COOL OTHER:		SAMPLING DATE TIME 4-11 9:30		ILH Chlores BTEX											
11 12 13 14 15		H-1 0-.5 H-2 0-.5 H-3 0-.5 H-4 0-.5 H-5 0-.5		G (GRAB OR (COMP. # CONTAINERS 1 1		X		1 1		1 1											

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Relinquished By: [Signature] Relinquished By:		Date: 4-11-24 Time: 2:25 Date: Time:		Received By: [Signature] Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 0.3 Corrected Temp. °C		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No		CHECKED BY: (Initials) [Signature]	
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C		Thermometer ID #140 Correction Factor 0°C		REMARKS:	

FORM-008-R 3-4-07/11/23

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 28, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: NORTH THISTLE 2-35 FEDERAL #001H

Enclosed are the results of analyses for samples received by the laboratory on 05/21/24 10:01.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 05/21/2024
 Reported: 05/28/2024
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H
 Project Number: 248613
 Project Location: DEVON - LEA CO., NM

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TP - 1 5-5.5 (H242776-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2024	ND	1.94	97.2	2.00	4.08	
Toluene*	<0.050	0.050	05/21/2024	ND	1.97	98.7	2.00	3.62	
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.99	99.6	2.00	3.99	
Total Xylenes*	<0.150	0.150	05/21/2024	ND	5.89	98.2	6.00	3.14	
Total BTEX	<0.300	0.300	05/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/21/2024	ND	448	112	400	3.64	

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	198	98.8	200	3.07	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	183	91.7	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 05/21/2024
 Reported: 05/28/2024
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H
 Project Number: 248613
 Project Location: DEVON - LEA CO., NM

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TP - 1 6-6.5 (H242776-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/21/2024	ND	1.94	97.2	2.00	4.08		
Toluene*	<0.050	0.050	05/21/2024	ND	1.97	98.7	2.00	3.62		
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.99	99.6	2.00	3.99		
Total Xylenes*	<0.150	0.150	05/21/2024	ND	5.89	98.2	6.00	3.14		
Total BTEx	<0.300	0.300	05/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	198	98.8	200	3.07	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	183	91.7	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 05/21/2024
 Reported: 05/28/2024
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H
 Project Number: 248613
 Project Location: DEVON - LEA CO., NM

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TP - 2 5-5.5 (H242776-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/21/2024	ND	1.94	97.2	2.00	4.08		
Toluene*	<0.050	0.050	05/21/2024	ND	1.97	98.7	2.00	3.62		
Ethylbenzene*	<0.050	0.050	05/21/2024	ND	1.99	99.6	2.00	3.99		
Total Xylenes*	<0.150	0.150	05/21/2024	ND	5.89	98.2	6.00	3.14		
Total BTEX	<0.300	0.300	05/21/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	05/21/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	198	98.8	200	3.07	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	183	91.7	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Analytical Results For:

NTG ENVIRONMENTAL
 ETHAN SESSUMS
 701 TRADEWINDS BLVD. SUITE C
 MIDLAND TX, 79706
 Fax To:

Received: 05/21/2024
 Reported: 05/28/2024
 Project Name: NORTH THISTLE 2-35 FEDERAL #001H
 Project Number: 248613
 Project Location: DEVON - LEA CO., NM

Sampling Date: 05/21/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: TP - 2 6-6.5 (H242776-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2024	ND	2.05	102	2.00	3.68	
Toluene*	<0.050	0.050	05/22/2024	ND	2.05	103	2.00	1.34	
Ethylbenzene*	<0.050	0.050	05/22/2024	ND	2.10	105	2.00	0.0285	
Total Xylenes*	<0.150	0.150	05/22/2024	ND	6.24	104	6.00	0.334	
Total BTEX	<0.300	0.300	05/22/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	05/21/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/21/2024	ND	198	98.8	200	3.07	
DRO >C10-C28*	<10.0	10.0	05/21/2024	ND	183	91.7	200	5.12	
EXT DRO >C28-C36	<10.0	10.0	05/21/2024	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.2 % 49.1-148

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager






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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: 		Date: 5/21/24 Time: 1001		Received By: 		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address:	
Relinquished By:		Date: Time:		Received By:		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C: 39.2 Corrected Temp. °C:		Sample Condition: Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) 	
Sampler - UPS - Bus - Other:		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Thermometer ID #140 Correction Factor 0°C		Bacteria (only) Sample Condition: Cool <input type="checkbox"/> Yes <input type="checkbox"/> No Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C: Corrected Temp. °C:	

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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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 364864

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:
	6137
	Action Number:
	364864
Action Type:	
[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2409932604
Incident Name	NAPP2409932604 NORTH THISTLE 2 35 FEDERAL #001H @ 30-025-42831
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-42831] NORTH THISTLE 2 35 FEDERAL #001H

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NORTH THISTLE 2 35 FEDERAL #001H
Date Release Discovered	04/07/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Crude Oil Released: 30 BBL Recovered: 20 BBL Lost: 10 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A leak developed on an underground flowline and released oil onto the pad. The wells were shut in to stop the leak. 20 bbls were recovered.

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QUESTIONS, Page 2

Action 364864

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	364864
	Action Type:	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 07/17/2024
--	--

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QUESTIONS, Page 3

Action 364864

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364864
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 26 and 50 (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 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
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	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	22400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	342
GRO+DRO (EPA SW-846 Method 8015M)	304
BTEX (EPA SW-846 Method 8021B or 8260B)	4
Benzene (EPA SW-846 Method 8021B or 8260B)	1

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	08/22/2024
On what date will (or did) the final sampling or liner inspection occur	09/19/2024
On what date will (or was) the remediation complete(d)	09/26/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	1906
What is the estimated volume (in cubic yards) that will be remediated	459

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

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

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QUESTIONS, Page 4

Action 364864

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364864
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 07/17/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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

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

QUESTIONS, Page 5

Action 364864

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364864
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 364864

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364864
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

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CONDITIONS

Action 364864

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 364864
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	The remediation plan is approved as written. Devon has 90-days (October 22, 2024) to submit to OCD its appropriate or final remediation closure report.	7/24/2024