

Rio Blanco 4 CTB 2

11/2/2023

OCD Incident nAPP2330725341

Spill Volume(Bbls) Calculator	
<i>Inputs in blue, Outputs in red</i>	
Contaminated Soil measurement	
Area (square feet)	Depth(inches)
<u>3365.509</u>	<u>0.250</u>
Cubic Feet of Soil Impacted	<u>70.115</u>
Barrels of Soil Impacted	<u>12.50</u>
Soil Type	Clay/Sand
Barrels of Oil Assuming 100% Saturation	<u>1.87</u>
Saturation	Damp no fluid when squeezed
Estimated Barrels of Oil Released	<u>0.19</u>
Free Standing Fluid Only	
Area (square feet)	Depth(inches)
<u>3365.509</u>	<u>0.250</u>
Standing fluid	<u>12.498</u>
<u>Total fluids spilled</u>	<u>14.373</u>

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

May 2, 2024

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

Re: Closure Report
Devon Energy Production Company
Rio Blanco 4 CTB 2
Unit F, Section 4, Township 23S, Range 34E
Site Coordinates: 32.3361266°, -103.4753081°
Lea County, New Mexico
Incident ID: nAPP2330725341

1. Introduction

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this closure report for submittal to the New Mexico Oil Conservation Division (NMCOD) District 2 Office in Artesia, New Mexico to document site assessment and sample analysis results for Rio Blanco 4 CTB 2 (Site). The Site is located in Unit Letter F, Section 4, of Township 23 South and Range 34 East in Lea County, New Mexico. The GPS coordinates for the release site are 32.3361266° N latitude and 103.4753081° 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.

2. Background

Based on the Release Notification C-141 Form, the release occurred on November 2nd, 2023, when a high line pressure caused a gasket on the 10" trunk polyline to fail. Upon discovery, the Site was shut-in and repairs ensued. The spill resulted in a release of approximately fourteen (14) barrels (bbl) of produced water of which twelve (12) bbls were recovered for an approximate net loss of two (2) bbl of produced water. The release area is shown in Figure 3. The Release Notification portions of Form C-141 for incident number nAPP2330725341 is attached to this report along with the Remediation and Site characterization portions of Form C-141.

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Mr. Mike Bratcher
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3. Groundwater and Site Characterization

Based on a review of the New Mexico Office of State Engineers and USGS databases, there are two (2) water wells located within a ½-mile radius of the site. The closest well (CP-01845) is located approximately 0.4 miles Northwest of Site with a reported depth to groundwater of approximately 293 feet. 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) is attached to the 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	293

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)	TPH (GRO+MRO)	BTEX	Benzene
19.15.29.13 Restoration, Reclamation and Re-Vegetation (Impacted Area 0-4 Feet)	600 mg/kg	100 mg/kg	---	50 mg/kg	10 mg/kg
19.15.23.12 Remediation and Closure Criteria for Soils Impacted by a Release (>4 Feet)	20,000 mg/kg	2,500 mg/kg	1,000 mg/kg	50 mg/kg	10 mg/kg
Notes: --- = not defined					

4. Initial Soil Delineation Assessment Summary and Findings

On November 8th, 2023, NTGE conducted site assessment activities to assess the extent of impacts at the Site. A total of five (5) vertical sample points (V-1 through V-5) and seven (7) horizontal sample points (H-1 through H-7) were installed within and adjacent to the release area in order to characterize the impact. Soil samples were collected at 0.5 feet (ft) and in one (1) ft intervals to a maximum depth of one and a half (1.5) ft below grade surface (bgs), with a geotechnical hand auger. The samples were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA method 8260B, total petroleum hydrocarbon (TPH) by method 8015M, and chloride by EPA 300.0/9056A by Cardinal Laboratories in Hobbs, New Mexico. The analytical results indicated that chloride concentrations exceeded the NMOC regulatory limits in the areas of V-2, V-3, and V-5 at a depth of 0.5 ft bgs. Analytical results are included in Table 1, while sampling locations are shown in Figure 3.

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May 2, 2024
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5. Remedial Actions Activities and Confirmation Sampling

After receiving and evaluating the soil boring data, Devon excavated the vicinity of V-2, V-3, and V-5 to one (1) foot in depth to ensure that the impacted soil has been removed.

On April 24th, 2024, NTGE was on site to collect a total of fourteen (14) composite base samples (CS-1 through CS-14) and four (4) composite sidewall samples (SW-1 through SW-4) to ensure impacted soil was removed. Soil samples were placed directly into laboratory provided sample containers, placed on ice, and transported under proper chain-of-custody protocol to Cardinal Laboratories in Hobbs, New Mexico. The five-point confirmation samples were collected every 200 square feet and analyzed for TPH, BTEX, and chloride. Analytical results indicated that all samples were below NMOCD regulatory criterion for the Site. The final excavation extent and confirmation sample locations are shown in Figure 4. Analytical results of all confirmation samples are included in Table 2 with laboratory reports attached.

6. Closure Request

Based on the assessment and subsequent remedial action activities, the Site is compliant with the regulatory limits and no further actions are required at the site. Devon formally requests a no further action designation at this time.

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

Sincerely,
NTG Environmental



Ethan Sessums
Project Manager

Attachments:

- Table
- Figures
- Initial C-141/Remediation C-141
- Site Characterization Documentation
- Photographic Log
- Laboratory Reports and Chain-of-Custody Documents

TABLES

Table 1
Summary of Soil Analytical Data - Initial Assessment Samples
Rio Blanco 4 CTB 2
Devon Energy Production Company
Lea Co, New Mexico

Sample ID	Sample Date	Depth (ft bgs)	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH					Chloride
								GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)	
			(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	---	---	1,000 mg/kg	---	2,500 mg/kg	20,000 mg/kg
Vertical Delineation Samples													
V-1	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
	11/8/2023	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80
V-2	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,600
	11/8/2023	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64
V-3	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,800
	11/8/2023	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
V-4	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
	11/8/2023	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32
V-5	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,160
	11/8/2023	1-1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
Horizontal Delineation Samples													
H-1	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
H-2	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
H-3	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96
H-4	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48
H-5	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16
H-6	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
H-7	11/8/2023	0-6"	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176

Notes:

- Values reported in mg/kg
- < = Value Less Than Reporting Limit (RL)
- Bold indicates Analyte Detected
- BTEX analyses by EPA Method SW 8021B

- TPH analyses by EPA Method SW 8015 Mod.
- 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).

- Not Analyzed

SP-1 Sample Point Excavated

Table 2
Summary of Soil Analytical Data - Confirmation Samples
Rio Blanco 4 CTB 2
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)	GRO (C6-C10)	DRO (C10-C28)	GRO + DRO (C6-C28)	MRO (C28-C35)	Total GRO/DRO/MRO (C6-C35)		
			Table I Closure Criteria for Soil ≤ 50 feet Depth to Groundwater 19.15.29 NMAC											
			10 mg/kg	---	---	---	50 mg/kg	---	---	1,000 mg/kg	---	2,500 mg/kg		20,000 mg/kg
Vertical Delineation Samples														
CS-1	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
CS-2	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
CS-3	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
CS-4	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
CS-5	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
CS-6	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
CS-7	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
CS-8	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
CS-9	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
CS-10	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
CS-11	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0	
CS-12	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
CS-13	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
CS-14	4/24/2024	1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
Horizontal Delineation Samples														
SW-1	4/24/2024	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
SW-2	4/24/2024	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0	
SW-3	4/24/2024	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0	
SW-4	4/24/2024	0-1'	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0	

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

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.

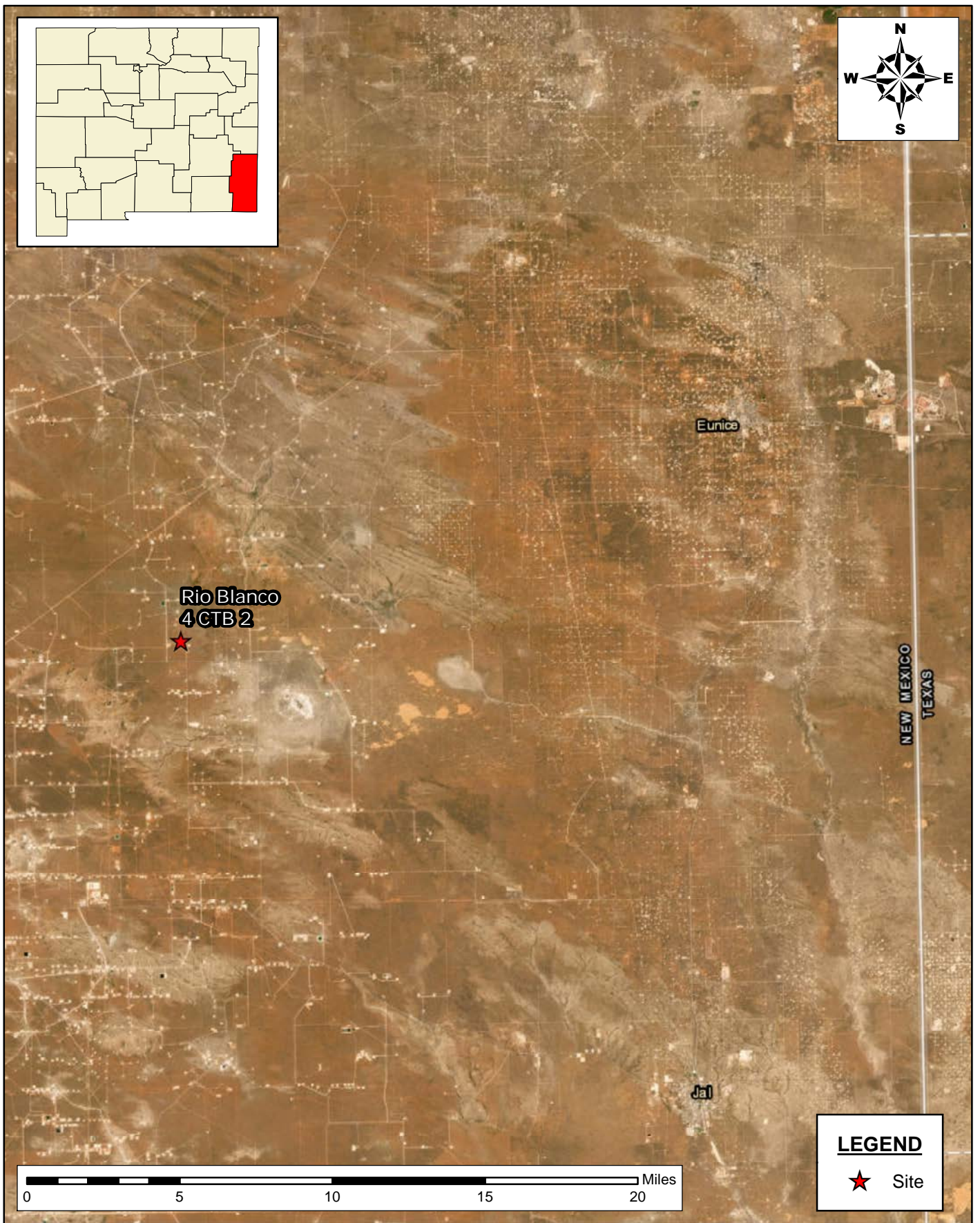
8. Peach shaded cells indicate analytical samples that exceed the NMAC 19.15.29.13 Table I Closure Criteria for the site (Surface to 4 Feet Below Grade).

9. --- Not Analyzed

SP-1 Sample Point Excavated

FIGURES

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SITE LOCATION MAP
SITE CHARACTERIZATION AND REMEDIATION WORK PLAN
DEVON ENERGY PRODUCTION COMPANY
RIO BLANCO 4 CTB 2
LEA COUNTY, NEW MEXICO

SCALE: As Shown Date: 11/14/2023 PROJECT #: 237987

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

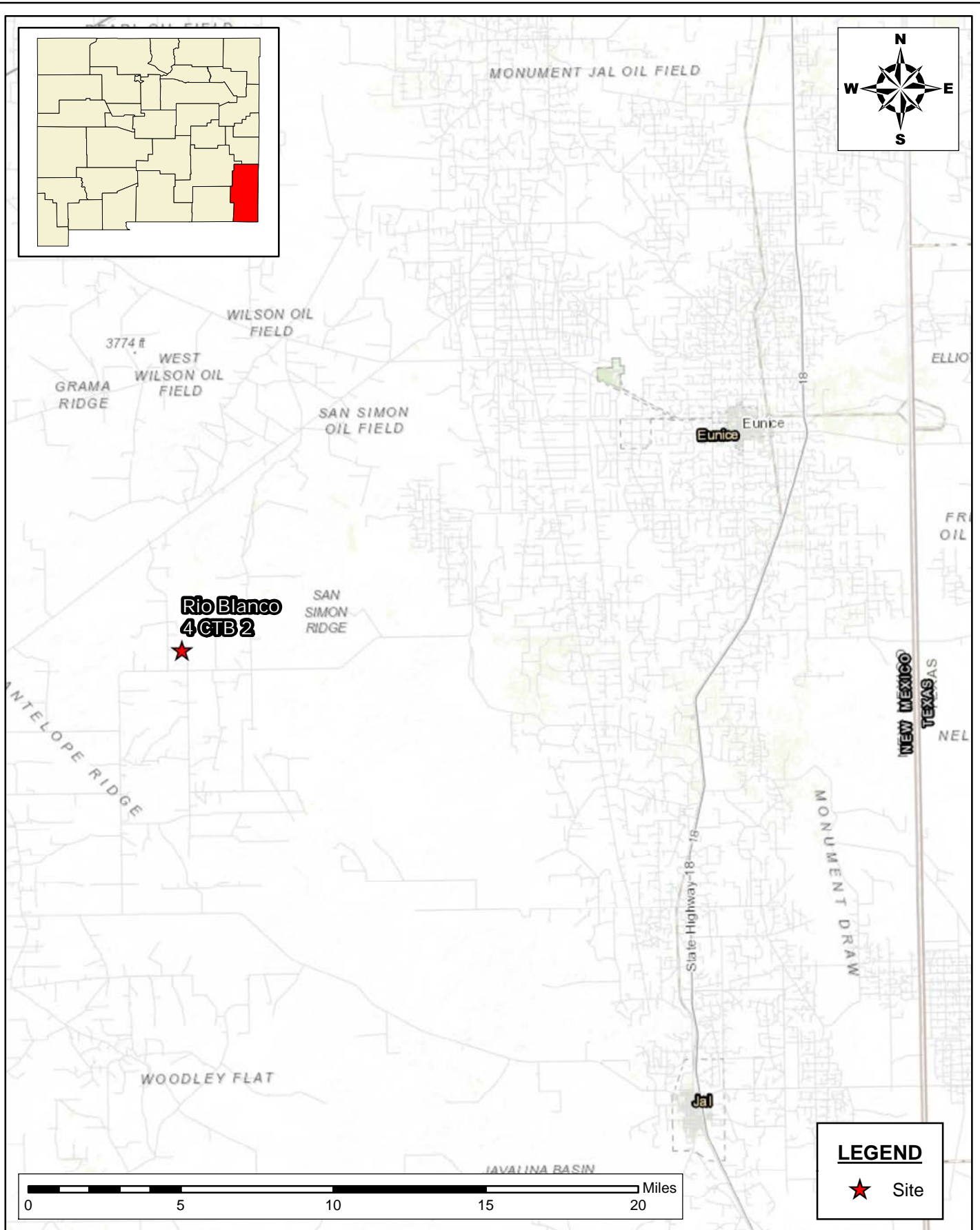
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FIGURE 1

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1 of 1

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TOPOGRAPHIC MAP
 SITE CHARACTERIZATION AND REMEDIATION WORK PLAN
 DEVON ENERGY PRODUCTION COMPANY
 RIO BLANCO 4 CTB 2
 LEA COUNTY, NEW MEXICO

SCALE: As Shown Date: 11/14/2023 PROJECT #: 237987

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 Houston, Texas 77060
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NOTES:

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

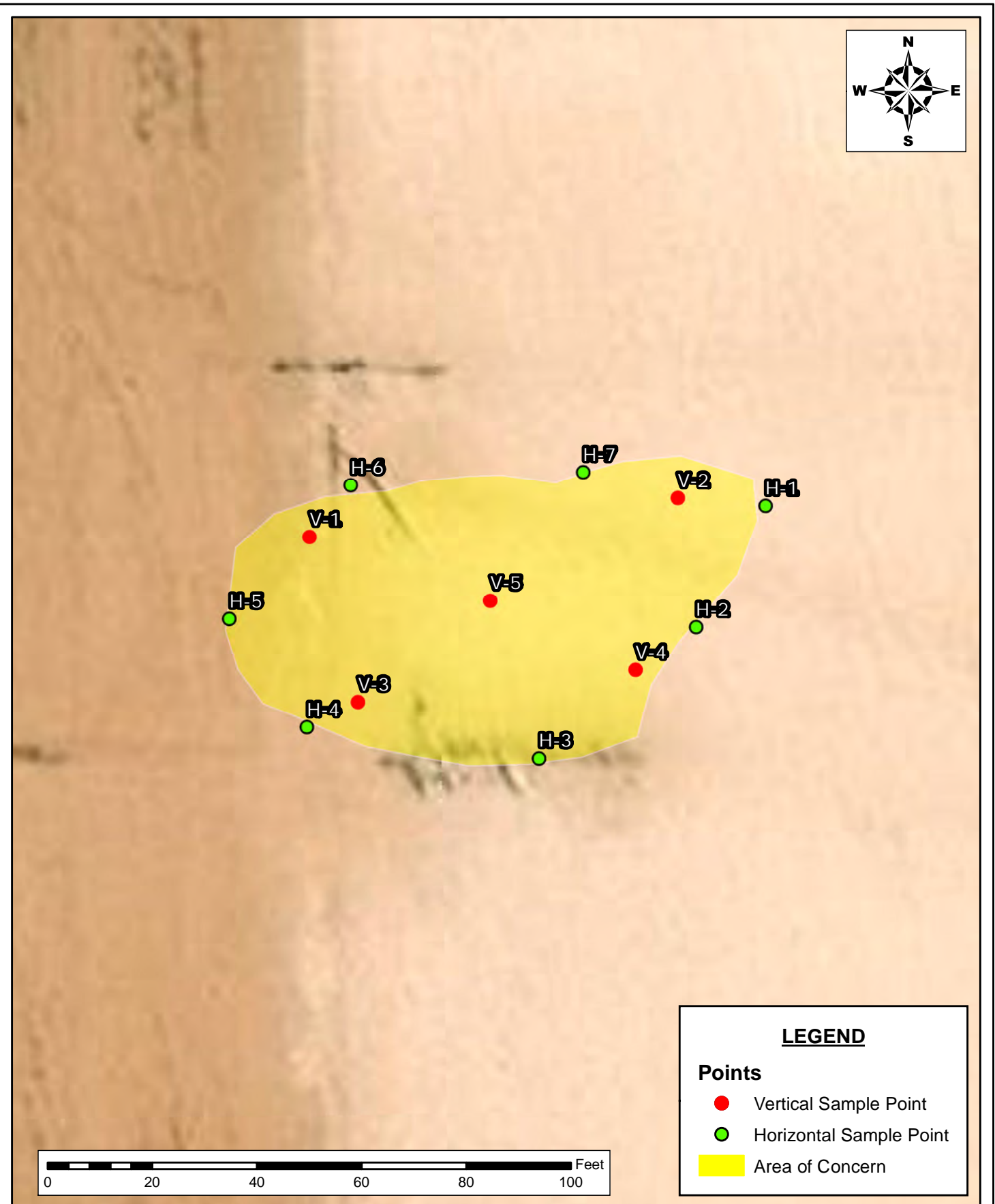
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FIGURE 2

SHEET NUMBER:

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INITIAL ASSESSMENT MAP SITE CHARACTERIZATION AND REMEDIATION WORKPLAN DEVON ENERGY PRODUCITON COMPANY RIO BLANCO 4 CTB 2 LEA COUNTY, NEW MEXICO		
SCALE: As Shown	Date: 4/11/2024	PROJECT #: 237987

The logo for NTG Environmental. It features a circular emblem on the left containing a stylized globe with a leaf-like shape on top. To the right of the emblem, the letters "NTG" are written in a large, bold, blue sans-serif font. Below "NTG", the word "ENVIRONMENTAL" is written in a smaller, blue, all-caps sans-serif font.

New Tech Global Environmental, LLC

911 Regional Park Drive

Houston, Texas 77060

T - 281.872.9300

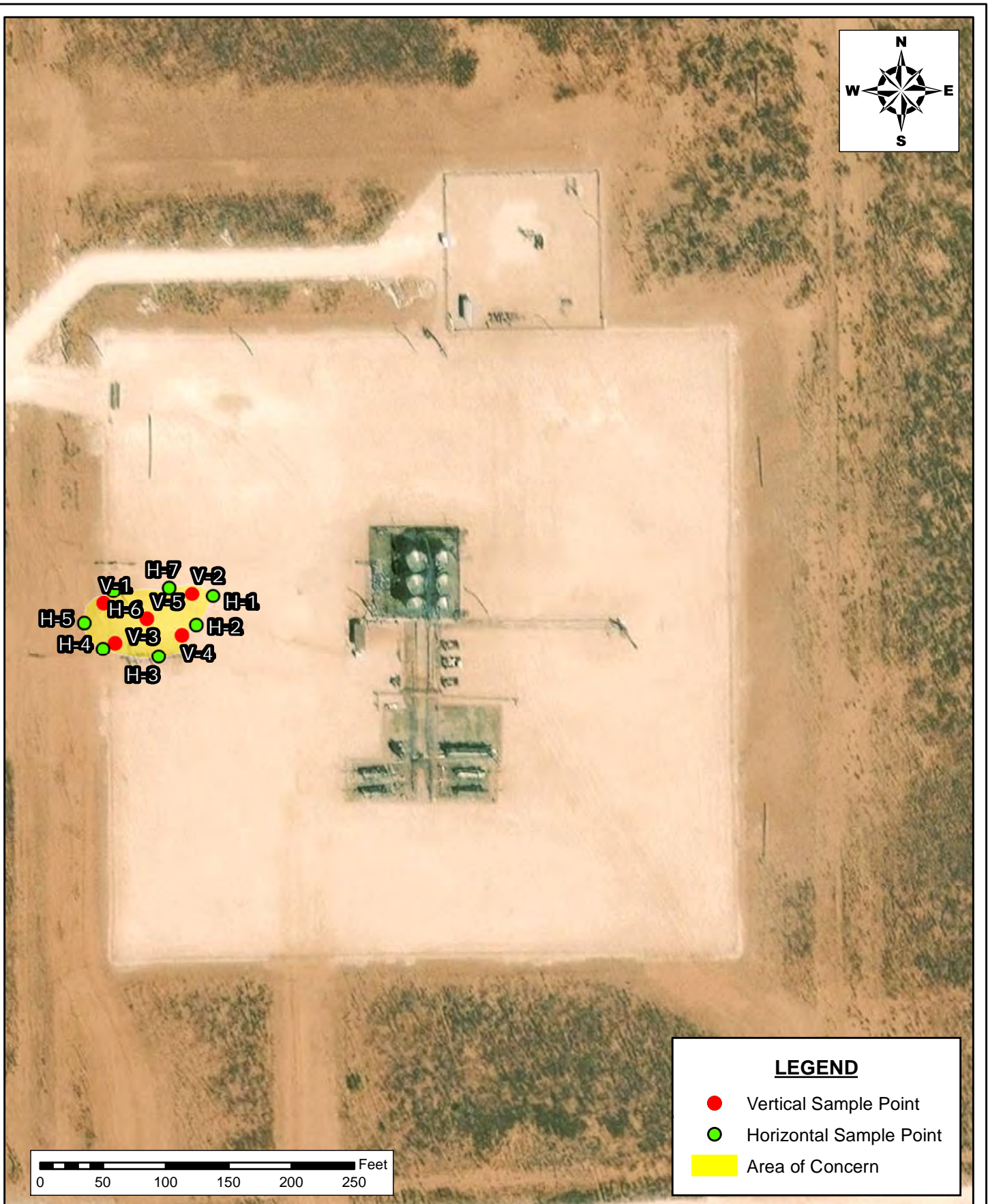
F - 281.872.4521

Web: www.ntgenviromental.com

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

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FIGURE 3
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1 of 1

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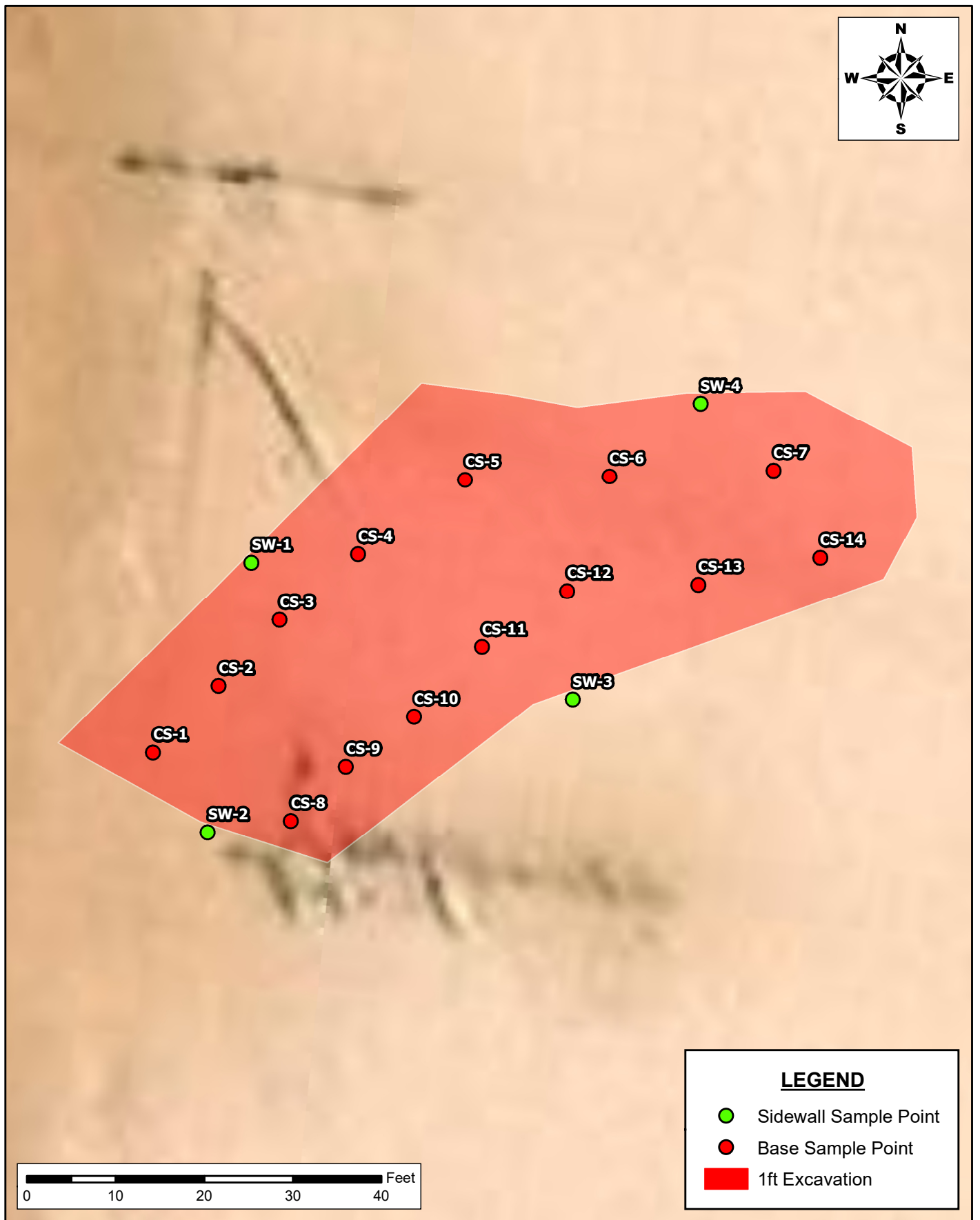
INITIAL ASSESSMENT MAP SITE CHARACTERIZATION AND REMEDIATION WORKPLAN DEVON ENERGY PRODUCITON COMPANY RIO BLANCO 4 CTB 2 LEA COUNTY, NEW MEXICO		
SCALE: As Shown	Date: 4/11/2024	PROJECT #: 237987

 New Tech Global Environmental, LLC 911 Regional Park Drive Houston, Texas 77060 T - 281.872.9300 F - 281.872.4521 Web: www.ntgenviroinmental.com
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NOTES: 1. Base Image: ESRI Maps & Data 2013 2. Map Projection: NAD 1983
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CONFIRMATION SAMPLING MAP
CLOSURE REPORT
DEVON ENERGY PRODUCTION COMPANY
RIO BLANCO 4 CTB 2
LEA COUNTY, NEW MEXICO



New Tech Global Environmental, LLC
911 Regional Park Drive
Houston, Texas 77060
T - 281.872.9300
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NOTES:

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

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FIGURE 4

SHEET NUMBER:

1 of 1

SCALE: AS SHOWN DATE: 04/29/2024 PROJECT #: 238001

INITIAL C-141

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response


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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dale Woodall	Date: _____
email: dale.woodall@dvn.com	Telephone: 575-748-1838
<u>OCD Only</u>	
Received by: Shelly Wells	Date: 11/7/2023



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	
21200	CP 01845 POD1	4	4	3	33	22S	34E	643396	3579337	
<hr/>										
Driller License: 1706		Driller Company:				ELITE DRILLERS CORPORATION				
Driller Name:		WALLACE, BRYCE J.EL.L W.								
Drill Start Date: 10/09/2023		Drill Finish Date:				10/13/2023		Plug Date:		
Log File Date: 11/08/2023		PCW Rcv Date:							Source: Shallow	
Pump Type:		Pipe Discharge Size:							Estimated Yield: 60 GPM	
Casing Size: 8.90		Depth Well:				880 feet		Depth Water: 293 feet		
<hr/>										
Water Bearing Stratifications:					Top	Bottom	Description			
					247	385	Sandstone/Gravel/Conglomerate			
					385	590	Sandstone/Gravel/Conglomerate			
					590	605	Sandstone/Gravel/Conglomerate			
					605	745	Sandstone/Gravel/Conglomerate			
					745	830	Sandstone/Gravel/Conglomerate			
					830	850	Sandstone/Gravel/Conglomerate			
<hr/>										
Casing Perforations:					Top	Bottom				
					480	880				
<hr/>										

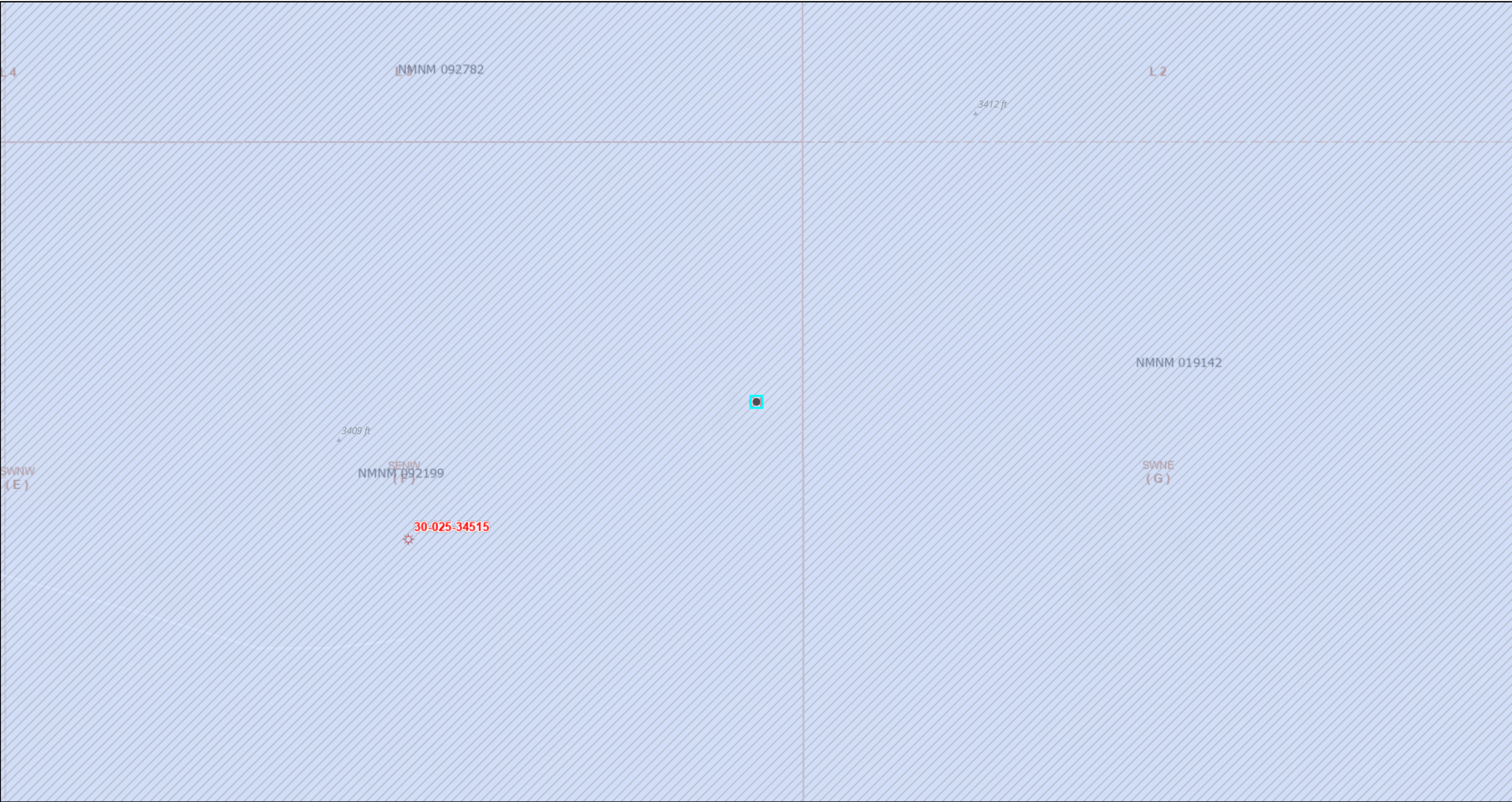
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/27/24 3:32 PM

POINT OF DIVERSION SUMMARY

SITE CHARACTERIZATION INFORMATION

Karst Potential Map



11/14/2023, 9:13:40 AM

Wells - Large Scale

Karst Occurrence Potential

PLSS Second Division

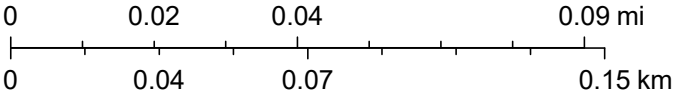
PLSS First Division

Gas, Plugged

Low

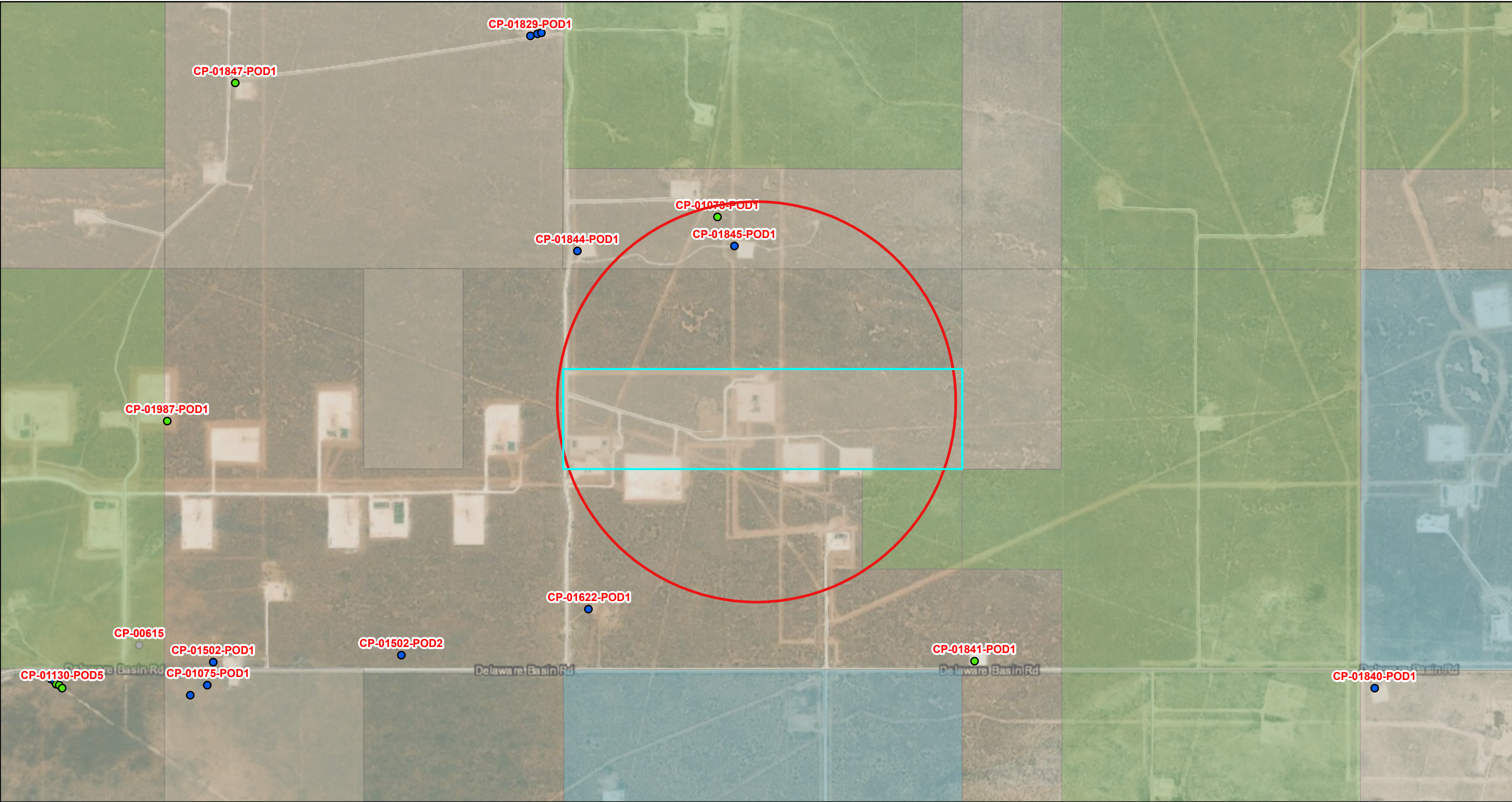
Authorized

1:2,257



BLM, OCD, New Mexico Tech, U.S. Department of Interior, Bureau of Land Management (BLM), Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri Community Maps Contributors, New Mexico State

OSE POD Location Map



3/27/2024, 3:35:34 PM

- Override 1

GIS WATERS PODs

Active

Pending
- OSE District Boundary

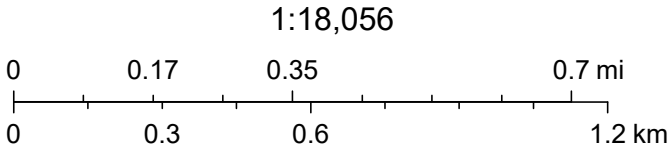
Water Right Regulations

Closure Area
- New Mexico State Trust Lands

Subsurface Estate

Surface Estate
- Artesian Planning Area

Both Estates



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



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
CP	01073 POD1			3	33	22S	34E	643328	3579453

Driller License:	Driller Company:		
Driller Name:			
Drill Start Date:	Drill Finish Date:	Plug Date:	
Log File Date:	PCW Rcv Date:	Source:	Shallow
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size:	Depth Well:	Depth Water:	

Meter Number:	18288	Meter Make:	SEAMETRICS
Meter Serial Number:	042018001249	Meter Multiplier:	1.0000
Number of Dials:	8	Meter Type:	Diversion
Unit of Measure:	Barrels 42 gal.	Return Flow Percent:	
Usage Multiplier:		Reading Frequency:	Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount Online
01/01/2019	2019	0	A	RPT	Initial Meter reading report	0
03/31/2019	2019	179455	A	RPT		23.131
07/01/2019	2019	416686	A	RPT		30.577
10/01/2019	2019	629154	A	RPT		27.386
01/07/2020	2019	629154	A	RPT		0
04/01/2020	2020	832204	A	RPT		26.172
07/02/2020	2020	832204	A	RPT		0
10/09/2020	2020	1399931	A	RPT		73.176
01/07/2021	2020	1399931	A	RPT		0
10/05/2021	2021	1399931	A	ad		0

01/10/2022	2022	1399931	A	ad	0
04/08/2022	2022	1399931	A	ad	0
07/10/2022	2022	1399931	A	ad	0
10/10/2022	2022	1399931	A	ad	0
07/03/2023	2023	1399931	A	ad	0
10/09/2023	2023	1399931	A	ad	0

**YTD Meter Amounts:			Year	Amount
			2019	81.094
			2020	99.348
			2021	0
			2022	0
			2023	0

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

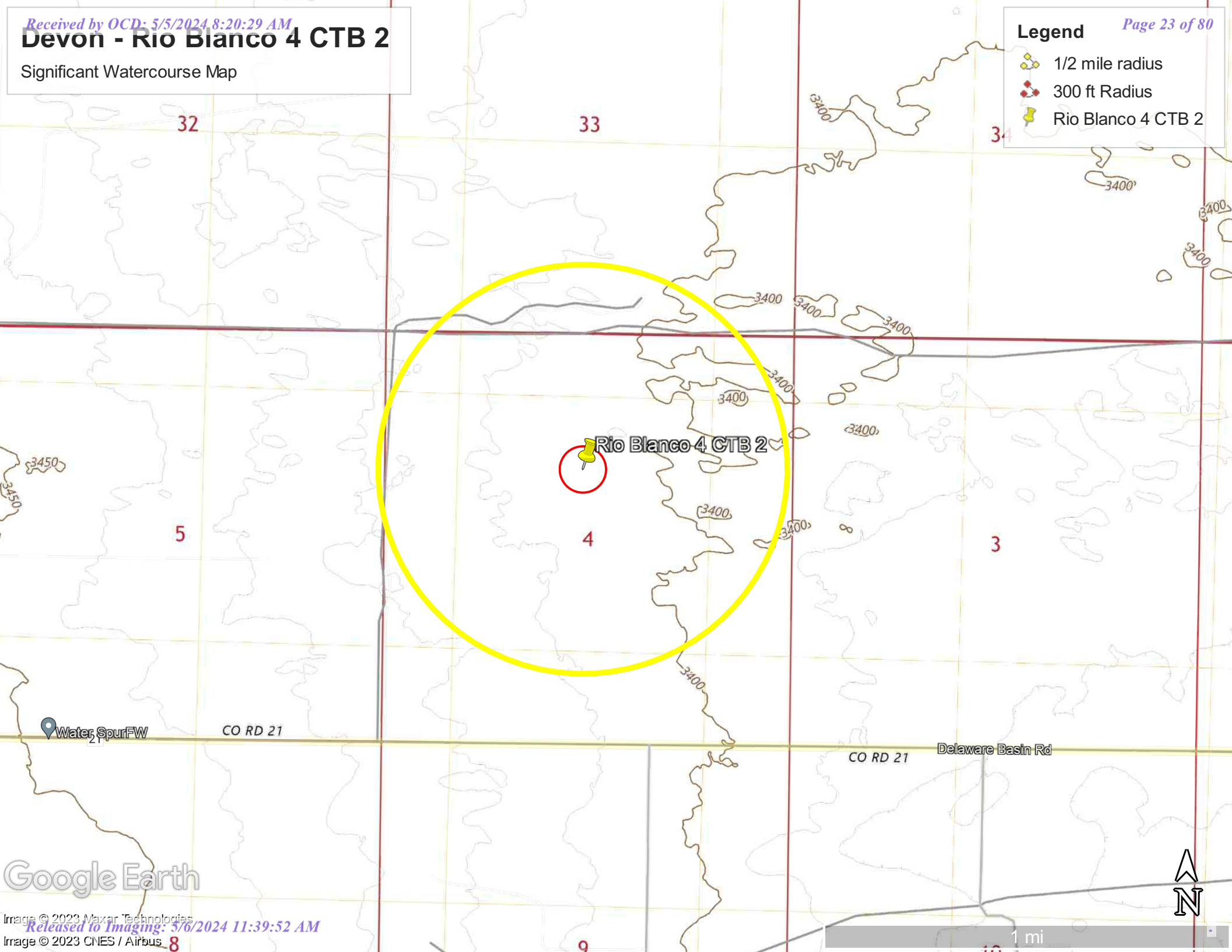
11/14/23 9:25 AM POINT OF DIVERSION SUMMARY

Devon - Rio Blanco 4 CTB 2

Significant Watercourse Map

Legend

- 1/2 mile radius
- 300 ft Radius
- Rio Blanco 4 CTB 2



Google Earth

National Flood Hazard Layer FIRMMette



103°28'50"W 32°20'25"N



1:6,000

103°28'12"W 32°19'55"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 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



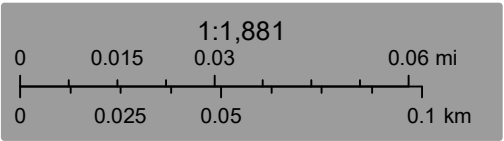
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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 **11/14/2023 at 11:11 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

Devon - Rio Blanco 4 CTB 2



U.S. Fish and Wildlife Service, National Standards and Support Team,
wetlands_team@fws.gov

November 14, 2023

Wetlands

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

PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG
Devon Energy Production Company
Rio Blanco 4 CTB 2

Photograph No. 1

Facility: Rio Blanco 4 CTB 2

County: Lea County, New Mexico

Description:
Area of excavation.

**Photograph No. 2**

Facility: Rio Blanco 4 CTB 2

County: Lea County, New Mexico

Description:
Area of excavation.

**Photograph No. 3**

Facility: Rio Blanco 4 CTB 2

County: Lea County, New Mexico

Description:
Area of excavation.



PHOTOGRAPHIC LOG
Devon Energy Production Company
Rio Blanco 4 CTB 2

Photograph No. 4

Facility: Rio Blanco 4 CTB 2

County: Lea County, New Mexico

Description:
View of excavation

**Photograph No. 5**

Facility: Rio Blanco 4 CTB 2

County: Lea County, New Mexico

Description:
View of excavation

**Photograph No. 6**

Facility: Rio Blanco 4 CTB 2

County: Lea County, New Mexico

Description:
View of excavation



LABORATORY REPORTS AND CHAIN-OF-CUSTODY DOCUMENTS



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

November 13, 2023

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RIO BLANCO 4 CTB 2

Enclosed are the results of analyses for samples received by the laboratory on 11/08/23 13:54.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 written in a cursive style with a large, stylized 'C' and 'K'.

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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H 1 (0-6") (H236131-01)

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	11/10/2023	ND	2.18	109	2.00	4.82	
Toluene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	6.30	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.34	117	2.00	7.32	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	7.08	118	6.00	6.72	
Total BTX	<0.300	0.300	11/10/2023	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	160	16.0	11/09/2023	ND	400	100	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	11/09/2023	ND	194	97.0	200	3.37	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	193	96.6	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

Cardinal Laboratories

*=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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H 2 (0-6") (H236131-02)

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	11/10/2023	ND	2.18	109	2.00	4.82		
Toluene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	6.30		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.34	117	2.00	7.32		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	7.08	118	6.00	6.72		
Total BTEx	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	144	16.0	11/09/2023	ND	400	100	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	11/09/2023	ND	194	97.0	200	3.37	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	193	96.6	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H 3 (0-6") (H236131-03)

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	11/10/2023	ND	2.18	109	2.00	4.82		
Toluene*	<0.050	0.050	11/10/2023	ND	2.20	110	2.00	6.30		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.34	117	2.00	7.32		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	7.08	118	6.00	6.72		
Total BTEX	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	96.0	16.0	11/09/2023	ND	400	100	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	11/09/2023	ND	194	97.0	200	3.37	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	193	96.6	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					

Surrogate: 1-Chlorooctane 129 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H 4 (0-6") (H236131-04)

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	11/10/2023	ND	2.20	110	2.00	2.28		
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63		
Total BTEX	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	48.0	16.0	11/09/2023	ND	400	100	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	11/09/2023	ND	194	97.0	200	3.37	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	193	96.6	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					

Surrogate: 1-Chlorooctane 132 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H 5 (0-6") (H236131-05)

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	11/10/2023	ND	2.20	110	2.00	2.28		
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63		
Total BTEx	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	16.0	16.0	11/09/2023	ND	400	100	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	11/09/2023	ND	194	97.0	200	3.37	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	193	96.6	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 130 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H 6 (0-6") (H236131-06)

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	11/10/2023	ND	2.20	110	2.00	2.28	
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	304	16.0	11/09/2023	ND	400	100	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	11/09/2023	ND	194	97.0	200	3.37	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	193	96.6	200	2.57	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 129 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: H 7 (0-6") (H236131-07)

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	11/10/2023	ND	2.20	110	2.00	2.28	
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	176	16.0	11/09/2023	ND	432	108	400	7.69	

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	11/09/2023	ND	177	88.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	171	85.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 1 (0-6") (H236131-08)

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	11/10/2023	ND	2.20	110	2.00	2.28		
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63		
Total BTEx	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	192	16.0	11/09/2023	ND	432	108	400	7.69		

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	11/09/2023	ND	177	88.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	11/09/2023	ND	171	85.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/09/2023	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 1 (1-1.5') (H236131-09)

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	11/10/2023	ND	2.20	110	2.00	2.28		
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63		
Total BTEX	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	80.0	16.0	11/09/2023	ND	432	108	400	7.69		

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	11/10/2023	ND	177	88.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	171	85.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 2 (0-6") (H236131-10)

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	11/10/2023	ND	2.20	110	2.00	2.28		
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63		
Total BTEX	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	2600	16.0	11/09/2023	ND	432	108	400	7.69		

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	11/10/2023	ND	177	88.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	171	85.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 2 (1-1.5') (H236131-11)

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	11/10/2023	ND	2.20	110	2.00	2.28		
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63		
Total BTEx	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	64.0	16.0	11/09/2023	ND	432	108	400	7.69		

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	11/10/2023	ND	177	88.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	171	85.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 3 (0-6") (H236131-12)

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	11/10/2023	ND	2.20	110	2.00	2.28		
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63		
Total BTEx	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	6800	16.0	11/09/2023	ND	432	108	400	7.69		

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	11/10/2023	ND	177	88.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	171	85.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 3 (1-1.5') (H236131-13)

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	11/10/2023	ND	2.20	110	2.00	2.28		
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63		
Total BTEx	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	48.0	16.0	11/09/2023	ND	432	108	400	7.69		

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	11/10/2023	ND	177	88.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	171	85.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 4 (0-6") (H236131-14)

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	11/10/2023	ND	2.20	110	2.00	2.28		
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63		
Total BTEx	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	11/09/2023	ND	432	108	400	7.69		

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	11/10/2023	ND	177	88.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	171	85.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 4 (1-1.5') (H236131-15)

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	11/10/2023	ND	2.20	110	2.00	2.28	
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	32.0	16.0	11/09/2023	ND	432	108	400	7.69	

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	11/10/2023	ND	177	88.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	171	85.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 5 (0-6") (H236131-16)

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	11/10/2023	ND	2.20	110	2.00	2.28		
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55		
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52		
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63		
Total BTEX	<0.300	0.300	11/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 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	4160	16.0	11/09/2023	ND	432	108	400	7.69		

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	11/10/2023	ND	177	88.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	171	85.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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: 11/08/2023
 Reported: 11/13/2023
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 226002
 Project Location: DEVON - LEA CO, NM

Sampling Date: 11/07/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: V 5 (1-1.5') (H236131-17)

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	11/10/2023	ND	2.20	110	2.00	2.28	
Toluene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.55	
Ethylbenzene*	<0.050	0.050	11/10/2023	ND	2.19	109	2.00	2.52	
Total Xylenes*	<0.150	0.150	11/10/2023	ND	6.75	113	6.00	2.63	
Total BTEX	<0.300	0.300	11/10/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	96.0	16.0	11/09/2023	ND	432	108	400	7.69		

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	11/10/2023	ND	177	88.7	200	0.648	
DRO >C10-C28*	<10.0	10.0	11/10/2023	ND	171	85.3	200	1.34	
EXT DRO >C28-C36	<10.0	10.0	11/10/2023	ND					

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 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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A handwritten signature in black ink, appearing to read "C. 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

[illegible]

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

April 26, 2024

ETHAN SESSUMS

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: RIO BLANCO 4 CTB 2

Enclosed are the results of analyses for samples received by the laboratory on 04/25/24 12:08.

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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 1 1' (H242209-01)

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	04/25/2024	ND	2.21	110	2.00	1.17	
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07	
Total BTX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 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	<16.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.4 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 2 1' (H242209-02)

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	04/25/2024	ND	2.21	110	2.00	1.17		
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29		
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22		
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07		
Total BTX	<0.300	0.300	04/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.2 % 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	<16.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 3 1' (H242209-03)

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	04/25/2024	ND	2.21	110	2.00	1.17		
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29		
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22		
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07		
Total BTEX	<0.300	0.300	04/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 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	<16.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 4 1' (H242209-04)

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	04/25/2024	ND	2.21	110	2.00	1.17	
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 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	<16.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.6 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 5 1' (H242209-05)

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	04/25/2024	ND	2.21	110	2.00	1.17	
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 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	<16.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 86.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 6 1' (H242209-06)

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	04/25/2024	ND	2.21	110	2.00	1.17		
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29		
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22		
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07		
Total BTX	<0.300	0.300	04/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 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	<16.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 7 1' (H242209-07)

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	04/25/2024	ND	2.21	110	2.00	1.17		
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29		
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22		
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07		
Total BTX	<0.300	0.300	04/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 89.7 % 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	<16.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 78.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 8 1' (H242209-08)

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	04/25/2024	ND	2.21	110	2.00	1.17		
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29		
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22		
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07		
Total BTEX	<0.300	0.300	04/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 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	32.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 9 1' (H242209-09)

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	04/25/2024	ND	2.21	110	2.00	1.17	
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.0 % 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	32.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 86.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 10 1' (H242209-10)

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	04/25/2024	ND	2.21	110	2.00	1.17	
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.5 % 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	32.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.3 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 11 1' (H242209-11)

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	04/25/2024	ND	2.21	110	2.00	1.17		
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29		
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22		
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07		
Total BTEX	<0.300	0.300	04/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 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	16.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 12 1' (H242209-12)

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	04/25/2024	ND	2.21	110	2.00	1.17	
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 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	32.0	16.0	04/26/2024	ND	432	108	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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 13 1' (H242209-13)

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	04/25/2024	ND	2.21	110	2.00	1.17	
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.0 % 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	04/26/2024	ND	416	104	400	7.41	

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	04/25/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/25/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/25/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.9 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: CS - 14 1' (H242209-14)

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	04/25/2024	ND	2.21	110	2.00	1.17	
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.1 % 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	<16.0	16.0	04/26/2024	ND	416	104	400	7.41	

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	04/26/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.8 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 0-1' (H242209-15)

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	04/25/2024	ND	2.21	110	2.00	1.17		
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29		
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22		
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07		
Total BTEX	<0.300	0.300	04/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.7 % 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	04/26/2024	ND	416	104	400	7.41		

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	04/26/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 2 0-1' (H242209-16)

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	04/25/2024	ND	2.21	110	2.00	1.17	
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 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	04/26/2024	ND	416	104	400	7.41	

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	04/26/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 0-1' (H242209-17)

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	04/25/2024	ND	2.21	110	2.00	1.17		
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29		
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22		
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07		
Total BTEx	<0.300	0.300	04/25/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 90.8 % 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	<16.0	16.0	04/26/2024	ND	416	104	400	7.41		

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	04/26/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 86.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.1 % 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: 04/25/2024
 Reported: 04/26/2024
 Project Name: RIO BLANCO 4 CTB 2
 Project Number: 238001
 Project Location: DEVON - LEA CO, NM

Sampling Date: 04/24/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4 0-1' (H242209-18)

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	04/25/2024	ND	2.21	110	2.00	1.17	
Toluene*	<0.050	0.050	04/25/2024	ND	2.14	107	2.00	1.29	
Ethylbenzene*	<0.050	0.050	04/25/2024	ND	2.09	105	2.00	1.22	
Total Xylenes*	<0.150	0.150	04/25/2024	ND	6.14	102	6.00	1.07	
Total BTEX	<0.300	0.300	04/25/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 90.9 % 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	16.0	16.0	04/26/2024	ND	416	104	400	7.41	

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	04/26/2024	ND	203	101	200	1.22	
DRO >C10-C28*	<10.0	10.0	04/26/2024	ND	184	91.9	200	2.43	
EXT DRO >C28-C36	<10.0	10.0	04/26/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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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, Lab Director/Quality Manager

Work Order No.:



42209

Page 1 of 2

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	

ANALYSIS REQUEST										Preservative Codes		
Project Name:	Project Number:	Turn Around	Pres. Code							None: NO	DI Water: H ₂ O	
Project Location	Lea Co. NM	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush								Cool: Cool	MeOH: Me	
Sampler's Name:	Ethan Sessums	Due Date:	TAT starts the day received by the lab. if received by 4:30pm							HCL: HC	HNO ₃ : HN	
PO #:	21252978									H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT												
Received In tact:	Temp Blank:	Yes (No)	Wet Ice:	Yes (No)								
Cooler Custody Seals:	Yes (No)	N/A	Thermometer ID:	140								
Sample Custody Seals:	Yes (No)	N/A	Correction Factor:									
Total Containers:	18		Temperature Reading:	3.0°C								
			Corrected Temperature:									
Sample Identification	Depth (ft bgs)	Date	Time	Soil	Water	Grab/Comp	# of Cont	Parameters				
CS-1	1'	4/24/2024		X		COMP	1	X	X	X		
CS-2	1'	4/24/2024		X		COMP	1	X	X	X		
CS-3	1'	4/24/2024		X		COMP	1	X	X	X		
CS-4	1'	4/24/2024		X		COMP	1	X	X	X		
CS-5	1'	4/24/2024		X		COMP	1	X	X	X		
CS-6	1'	4/24/2024		X		COMP	1	X	X	X		
CS-7	1'	4/24/2024		X		COMP	1	X	X	X		
CS-8	1'	4/24/2024		X		COMP	1	X	X	X		
CS-9	1'	4/24/2024		X		COMP	1	X	X	X		
CS-10	1'	4/24/2024		X		COMP	1	X	X	X		
HOLD												
Sample Comments												

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4-25-24 12:08			



Chain of Custody

Work Order No: 1842204

Page 2 of 2

Project Manager:	Ethan Sessums	Bill to: (if different)	Date Woodall
Company Name:	NTG Environmental	Company Name:	Devon
Address:	209 W McKay St	Address:	
City, State ZIP:	Carlsbad, NM 88220	City, State ZIP:	
Phone:	432-701-2159	Email:	esessums@ntgglobal.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:		Rio Blanco 4 CTB 2		Turn Around		Pres. Code		ANALYSIS REQUEST												Preservative Codes															
Project Number		238001		<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush																None: NO DI Water: H ₂ O															
Project Location		Lea Co, NM		Due Date		24hr														Cool: Cool MeOH: Me															
Sampler's Name:		Ethan Sessums		TAT starts the day received by the lab, if received by 4:30pm																HCL: HC HNO ₃ : HN															
PO #		21252978																		H ₂ SO ₄ : H ₂ NaOH: Na															
SAMPLE RECEIPT				Temp Blank:		Yes No		Wet Ice:		Yes No														H ₃ PO ₄ : HP											
Received Intact:		Yes No		Thermometer ID:		140														NaHSO ₄ : NABIS															
Cooler Custody Seals:		Yes No N/A		Correction Factor:																Na ₂ S ₂ O ₃ : NaSO ₃															
Sample Custody Seals:		Yes No N/A		Temperature Reading:		3.0°C														Zn Acetate+NaOH: Zn															
Total Containers:		18		Corrected Temperature:																NaOH+Ascorbic Acid: SAPC															
Sample Identification		Depth (ft bgs)		Date		Time		Soil		Water		Grab/Comp		# of Cont														Sample Comments							
CS-11		1'		4/24/2024				X				COMP		1		X		X		X														11	
CS-12		1'		4/24/2024				X				COMP		1		X		X		X														12	
CS-13		1'		4/24/2024				X				COMP		1		X		X		X														13	
CS-14		1'		4/24/2024				X				COMP		1		X		X		X														14	
SW-1		0-1'		4/24/2024				X				COMP		1		X		X		X														15	
SW-2		0-1'		4/24/2024				X				COMP		1		X		X		X														16	
SW-3		0-1'		4/24/2024				X				COMP		1		X		X		X														17	
SW-4		0-1'		4/24/2024				X				COMP		1		X		X		X														18	

Additional Comments:

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4/25/24 1208			

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 340861

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 340861
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2330725341
Incident Name	NAPP2330725341 RIO BLANCO 4 CTB 2 @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2306723951] RIO BLANCO 4 CTB 2

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	RIO BLANCO 4 CTB 2
Date Release Discovered	11/02/2023
Surface Owner	Private

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Gasket Produced Water Released: 14 BBL Recovered: 12 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
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)	high line pressure caused a gasket on the 10" trunk polyline to give way. all valves were shut to stop the leak transfer pumps turned off. 12 bbls recovered

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Action 340861

QUESTIONS (continued)

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Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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	12 bbls recovered

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@dmn.com Date: 05/05/2024
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Action 340861

QUESTIONS (continued)

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	6137
	Action Number:
	340861
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 100 and 500 (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	Greater than 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	Yes

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)	6800
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	04/16/2024
On what date will (or did) the final sampling or liner inspection occur	04/24/2024
On what date will (or was) the remediation complete(d)	05/22/2024
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	2727
What is the estimated volume (in cubic yards) that will be remediated	121

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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Action 340861

QUESTIONS (continued)

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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: 05/05/2024
<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>	

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QUESTIONS, Page 5

Action 340861

QUESTIONS (continued)

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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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Action 340861

QUESTIONS (continued)

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QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	335901
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/24/2024
What was the (estimated) number of samples that were to be gathered	30
What was the sampling surface area in square feet	2700

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	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2727
What was the total volume (cubic yards) remediated	121
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	see report

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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 05/05/2024
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Action 340861

QUESTIONS (continued)

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[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 340861

CONDITIONS

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CONDITIONS

Created By	Condition	Condition Date
scwells	None	5/6/2024