



March 12, 2025

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Release Characterization and Remediation Work Plan
Chevron Mid Continent Business Unit
Sand Dunes 11 CS Release
Unit Letter M, Section 11, Township 24 South, Range 31 East
Eddy County, New Mexico
Incident ID# NAPP2426463181**

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by Chevron Mid Continent Business Unit (Chevron MCBU) to assess a release associated with the Sand Dunes 11 Compressor Station (CS) (fAPP2123762022). The release footprint is located in Public Land Survey System (PLSS) Unit Letter M, Section 11, Township 24 South, and Range 31 East, in Eddy County, New Mexico (Site). The approximate release point occurred at coordinates 32.227018°, -103.744919°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico initial C-141 Form, the release was discovered on September 18, 2024, and resulted in the release of 4 bbls of produced water and 1 bbls of crude oil, of which 0 bbls of produced water or crude oil were recovered. Based on the spill calculator, the release impacted approximately 3,350 square feet of lease pad area, in a congested area with aboveground production lines and compressors. The release extent is contained within an earthen berm. The initial response consisted of an approximate 6-inch scrape. The Initial NOR was submitted to the NMOCD on September 20, 2024, and the NMOCD assigned the Incident ID NAPP2426463181. The New Mexico Oil Conservation Division (NMOCD) approved the initial C-141 on October 2, 2024, the initial C-141 form is included in Appendix A.

LAND OWNERSHIP

According to the NMOCD Oil and Gas Map, the Site is located on federal lands managed by the Bureau of Land Management (BLM). The BLM will be notified prior to any remedial activities commencing for this incident.

SITE CHARACTERIZATION

A site characterization was performed and no sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, stream bodies, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.29 NMAC. The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within an 800-meter (approximately 1/2-mile) radius of the site. According to the NMOSE, there is one

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well within 0.75 miles (1,229 meters) with a total well depth of 110 feet. The site characterization is included in Appendix B.

REGULATORY FRAMEWORK

Based upon the on-pad release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization (on-pad release footprint), the depth to groundwater determination and in accordance with Table I of 19.15.29.12 NMAC, the RRALs for the Site are as follows:

Constituent	Site RRALs
Chloride	600 mg/kg
TPH (GRO+DRO+ORO)	100 mg/kg
BTEX	50 mg/kg
Benzene	10 mg/kg

SITE ASSESSMENT

On December 6, 2024, Tetra Tech was onsite to conduct assessment activities on behalf of Chevron MCBU. Assessment activities included installing a series of hand auger borings and trenches. Four (4) trenches (T-1 through T-4) were installed to 4 feet bgs using a backhoe to evaluate the vertical extents of the release. Nine (9) borings (AH-1 through AH-9) were installed to a depth of 1-foot bgs outside the release area footprint for horizontal delineation. Photographic documentation of Site conditions at the time of the assessment is presented in Appendix C. A review of the onsite conditions indicated that the approximate release footprint may not have been as large or as defined as originally estimated, as several of the locations intended to serve as vertical bounds exhibited clean results. Conversely, several of the horizontal locations intended to serve as perimeter locations contained results which exceeded site RRALs.

As such, the analytical results for AH-5, AH-6 and AH-9 exceeded the RRALs for horizontal delineation for chloride (600 mg/kg). Therefore, Tetra Tech re-mobilized to the site on January 30, 2025, to install three (3) hand auger borings in these areas (AH-5R, AH-6R and AH-9R) to 3 ft bgs to vertically delineate the release area. Additionally, three (3) hand auger borings (AH-11 through 13) were installed to 1 ft bgs to complete horizontal delineation. Assessment sampling locations are presented in Figure 3. Photographic documentation of the Site conditions is included in Appendix C.

A total of twenty-seven (27) samples were collected from the seventeen (17) hand auger boring/trench locations and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed for chlorides via EPA Method 4500.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix D.

An extension was submitted via email to the NMOCD on December 17, 2024. This extension request was approved by NMOCD for a new due date of March 17, 2025. The extension request is included in Appendix E.

SUMMARY OF RESULTS

The laboratory analytical results from the December 2024 and January 2025 assessment sampling activities are summarized in Table 1. Horizontal delineation was achieved. Vertical delineation was achieved at the 2-3 interval at AH-5R and AH-6R. The results from AH-9R and AH-11 exhibited anomalous results which exceeded the site RRALs for TPH (100 mg/kg) and were assumed to be historical impacts unrelated to the subject line incident. Nonetheless, these areas will be delineated during the ensuing remedial action described below. All other analytical results were below the applicable Site RRALs.

REMEDIATION WORK PLAN

The release area footprint is located amidst compressor stations and aboveground production equipment. Based on the analytical results, Chevron MCBU proposes to remove material exceeding the site RRALs (as well as areas exhibiting surface staining) as shown in Figure 4. Surficial staining in the areas of T-1 and T-2 will be scraped to a depth of 3 inches (surficial results from this area were below site RRALs). The release point and the area of AH-11 are located in congested areas either beneath or adjacent to aboveground production lines, compressors, production equipment, and an electrical line, therefore, soils will be excavated by hand digging/hydrovac to the maximum extent practical.

The area of AH-9 and AH-9R will be excavated to an approximate depth of 3.5 feet below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below site RRALs. The areas of AH-5, AH-5R, AH-6, AH-6R will be excavated to 1.5 ft below the surrounding surface or until a representative sample from the walls and bottom of the excavation is below the Site RRALs. During the proposed remedial activities AH-9, AH-9R and AH-11 will be vertically delineated through floor confirmation sampling. Areas in close proximity to pressurized lines or other production equipment will be hand-dug to the maximum extent practicable. Exclusion zones will be established near any pressurized lines and electrical lines.

Excavated soils will be transported offsite and disposed of at an NMOCD-approved or permitted facility. The responsible party will notify the OCD two (2) business days prior to conducting final confirmation sampling pursuant to 19.15.29.12.D(1)(a) NMAC, using a Notification of Sampling (C-141N) application. The proposed excavation encompasses an area of approximately 1,989 square feet. Confirmation bottom and sidewall samples representative of no more than 200 square feet will be collected for verification of remedial activities. Nine (9) floor samples and eight (8) sidewall samples are proposed to be analyzed for TPH, BTEX, and chlorides as shown in Figure 6. Once results are received, the excavation will then be backfilled with clean material to surface grade. The estimated volume of material to be remediated is approximately 55 cubic yards.

SITE RECLAMATION

This release is within an active pad; therefore, reclamation (reseeding) activities are not proposed within this work plan. However, once acceptable confirmation sample results are received, the excavation will be backfilled with clean material that is non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg, as analyzed by EPA Method 300.0 or Method 4500.

CONCLUSION

Based on the results of the 2024 and 2025 release assessment and the site characterization, Chevron MCBU will remediate soils within the release extent impacted with TPH and Chloride above Site RRALs. The proposed remediation activities will be conducted within 90 days of acceptance of the proposed plan. If you have any questions concerning the additional assessment activities for the Site or the proposed remediation work plan, please call me at (512) 596-8201.

Sincerely,
Tetra Tech, Inc.



Lisbeth Chavira
Project Manager



Christian M. Llull, P.G.
Program Manager

cc:
Mr. Joe Tyler – Chevron MCBU

LIST OF ATTACHMENTS

Figures:

- Figure 1 – Overview Map
- Figure 2 – Topographic Map
- Figure 3 – Approximate Release Extent and Site Assessment
- Figure 4 – Proposed Remediation Extent
- Figure 5 – Alternative Confirmation Sampling Plan

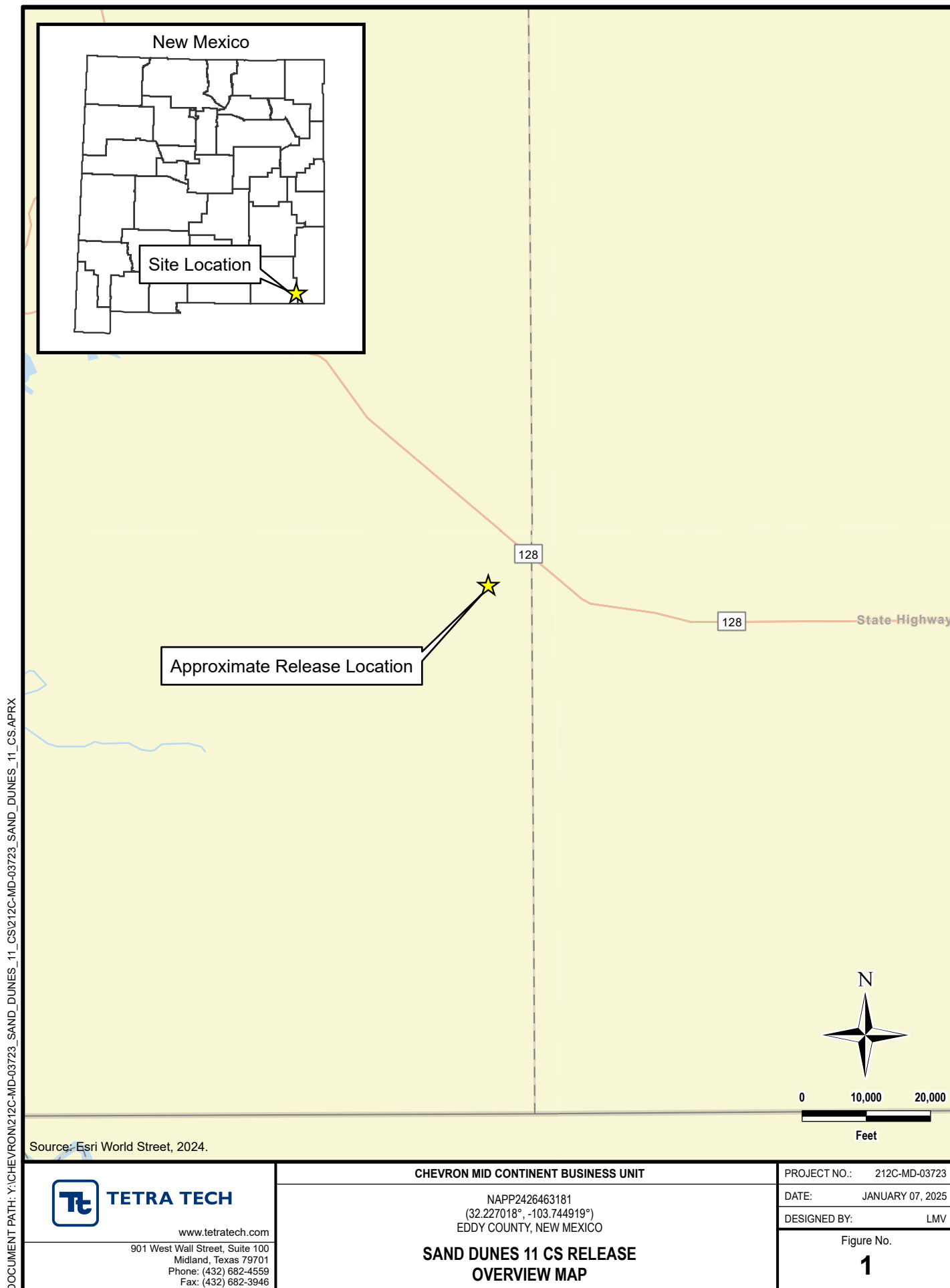
Tables:

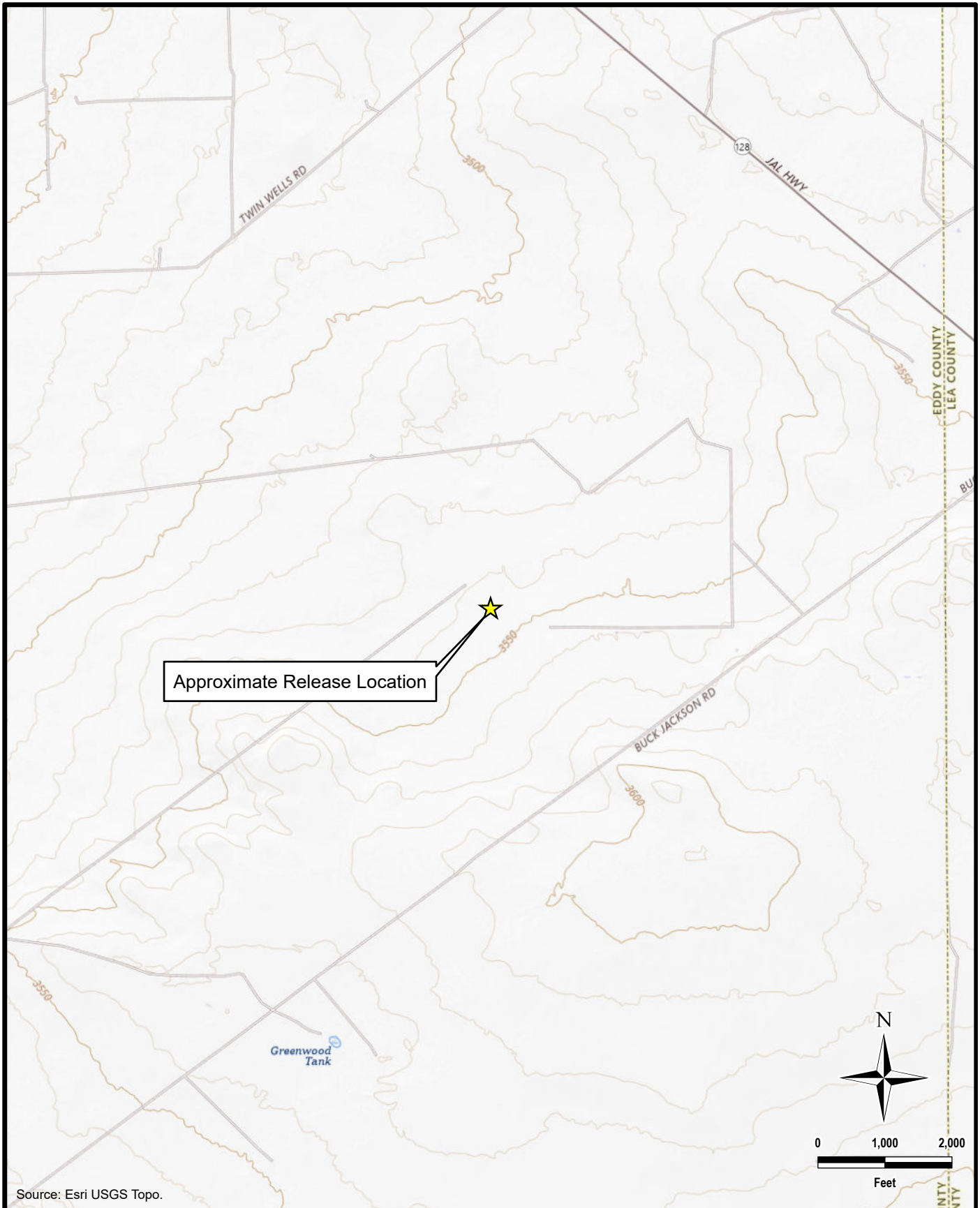
- Table 1 – Summary of Analytical Results –2024/2025 Soil Assessment

Appendices:


- Appendix A – C-141 Forms
- Appendix B – Site Characterization Data
- Appendix C – Photographic Documentation
- Appendix D – Laboratory Analytical Data
- Appendix E – Regulatory Correspondence

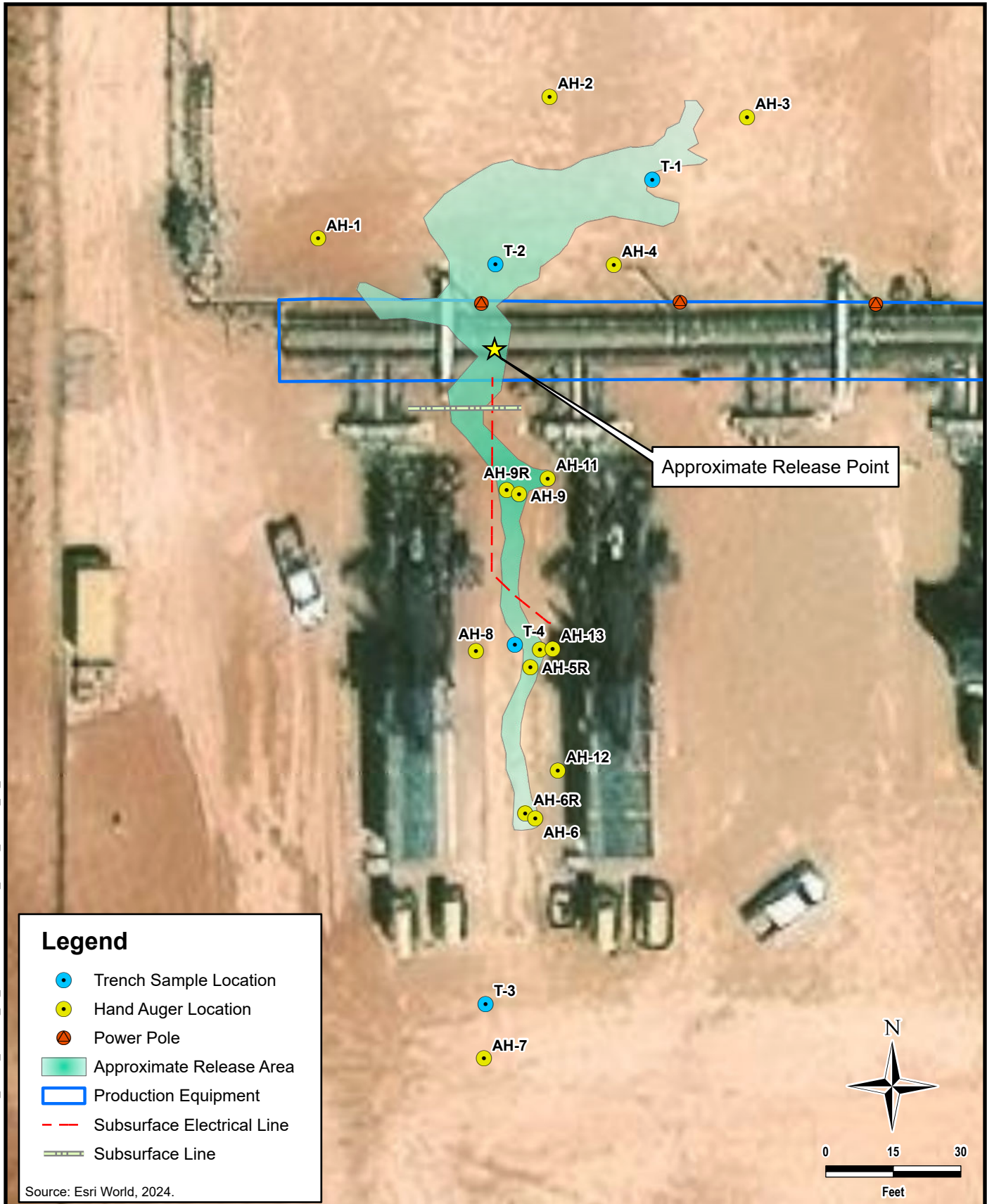
FIGURES





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 TETRA TECH www.tetrattech.com 901 West Wall Street, Suite 100 Midland, Texas 79701 Phone: (432) 682-4559 Fax: (432) 682-3946	CHEVRON MID CONTINENT BUSINESS UNIT		PROJECT NO.: 212C-MD-03723
	NAPP2426463181 (32.227018°, -103.744919°) EDDY COUNTY, NEW MEXICO		DATE: JANUARY 07, 2025
	SAND DUNES 11 CS RELEASE TOPOGRAPHIC MAP		DESIGNED BY: LMV
			Figure No. 2



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CHEVRON MID CONTINENT BUSINESS UNIT

NAPP2426463181
(32.227018°, -103.744919°)
EDDY COUNTY, NEW MEXICO

**SAND DUNES 11 CS RELEASE
APPROXIMATE RELEASE EXTENT AND SAMPLING LOCATIONS**

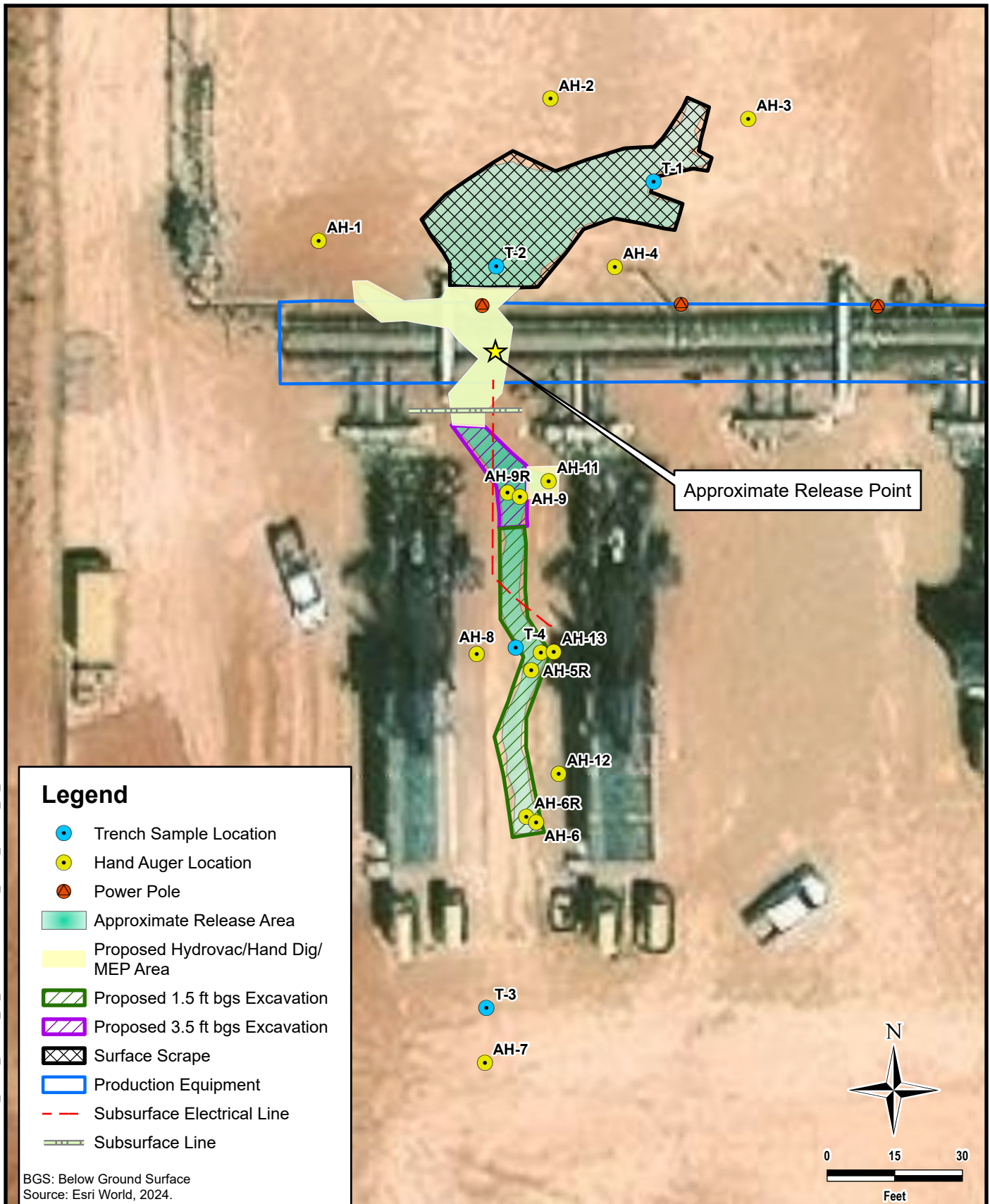
PROJECT NO.: 212C-MD-03723

DATE: MARCH 04, 2025

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Figure No.

3



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CHEVRON MID CONTINENT BUSINESS UNIT

NAPP2426463181
(32.227018°, -103.744919°)
EDDY COUNTY, NEW MEXICO

**SAND DUNES 11 CS RELEASE
PROPOSED REMEDIATION EXTENT**

PROJECT NO.: 212C-MD-03723

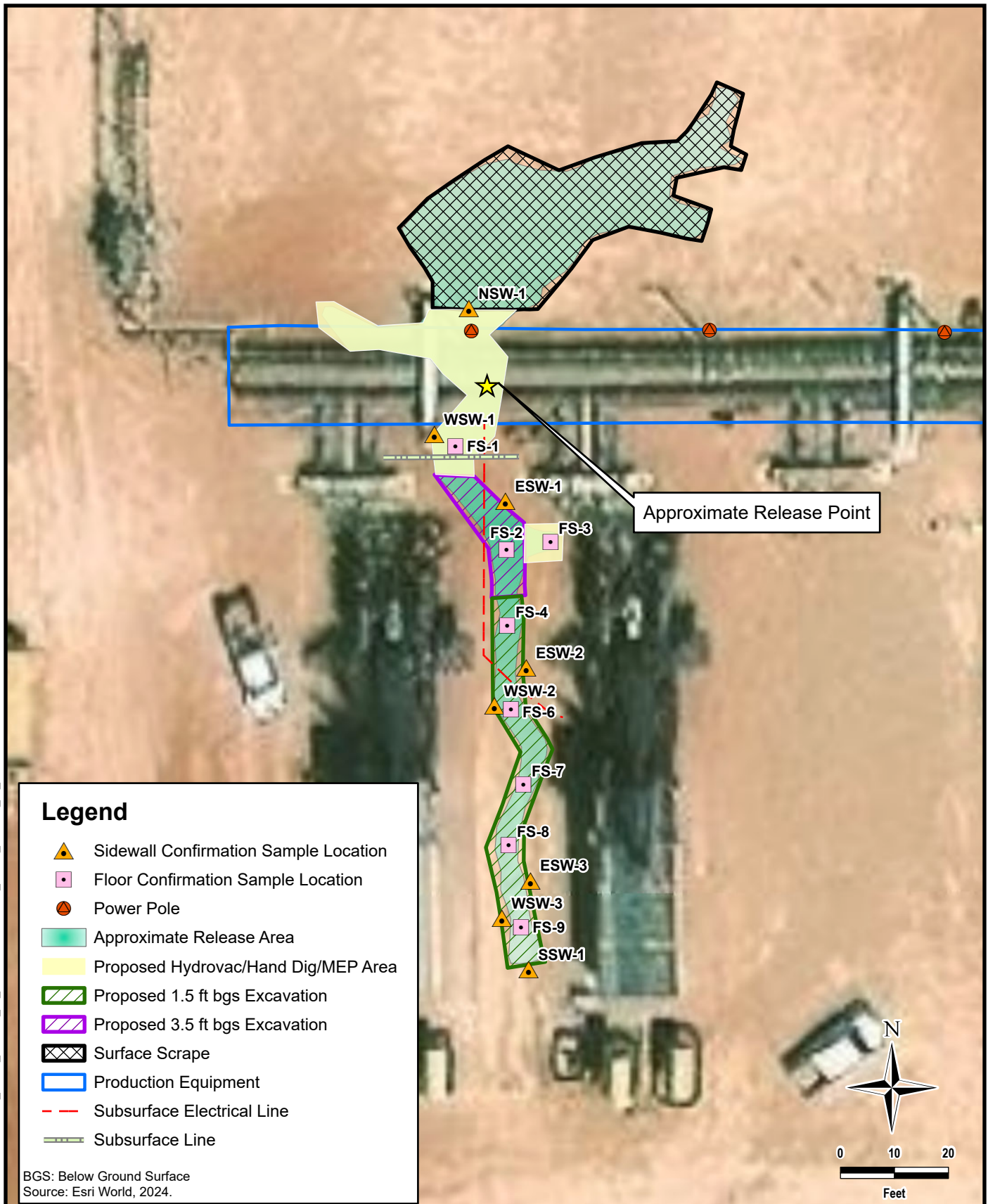
DATE: MARCH 04, 2025

DESIGNED BY: LMV

Figure No.

4

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CHEVRON MID CONTINENT BUSINESS UNIT

NAPP2426463181
(32.227018°, -103.744919°)
EDDY COUNTY, NEW MEXICO

**SAND DUNES 11 CS RELEASE
CONFIRMATION SAMPLING PLAN**

PROJECT NO.: 212C-MD-03723

DATE: MARCH 04, 2025

DESIGNED BY: LMV

Figure No.

5

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TABLES

TABLE 1
SUMMARY OF ANALYTICAL RESULTS
SOIL ASSESSMENT- NAPP2426463181
CHEVRON
MCBU - SAND DUNES 11CS RELEASE
EDDY COUNTY, NM

Sample ID	Sample Date	Sample Depth	Field Screening Results		Chloride		BTEX ²										TPH ³							
			Chloride	PID			Benzene		Toluene		Ethylbenzene		Total Xylenes		Total BTEX		GRO		DRO		EXT DRO		Total TPH (GRO+DRO+EXT DRO)	
		ft. bgs			ppm	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg	Q	mg/kg		Q
T-1	12/6/2024	0-1	102		<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	110		<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	137		32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
T-2	12/6/2024	0-1	602		160		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	256		16		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	175		32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
T-3	12/6/2024	0-1	475		208		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	146		32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	83		<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
T-4	12/6/2024	0-1	-		64		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		2-3	187		32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
		3-4	153		32		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-1	12/6/2024	0-1	483		240		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-2	12/6/2024	0-1	368		128		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-3	12/6/2024	0-1	296		448		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-4	12/6/2024	0-1	707		48		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-5	12/6/2024	0-1	700		880		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-5R	1/30/2025	2-3	-		16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-6	12/6/2024	0-1	1003		640		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-6R	1/30/2025	2-3	-		16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-7	12/6/2024	0-1	305		80		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-8	12/6/2024	0-1	1007		272		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-9	12/6/2024	0-1	516		816		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-9R	1/30/2025	2-3	-		<16.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		22.6		112		134.6	
AH-11	1/30/2025	0-1	-		64.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		69.9		196		265.9	
AH-12	1/30/2025	0-1	-		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	
AH-13	1/30/2025	0-1	-		32.0		<0.050		<0.050		<0.050		<0.150		<0.300		<10.0		<10.0		<10.0		-	

NOTES:

- ft. Feet
- bgs Below ground surface
- mg/kg Milligrams per kilogram
- TPH Total Petroleum Hydrocarbons
- GRO Gasoline range organics
- DRO Diesel range organics
- 1 Method SM4500Cl-B
- 2 Method 8021B
- 3 Method 8015M

Bold and italicized values indicate exceedance of proposed RRALs and Reclamation Requirements.

Shaded rows indicate intervals proposed for excavation.

APPENDIX A C-141 Forms

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 388596

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 388596
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2426463181
Incident Name	NAPP2426463181 SAND DUNES 11 CS @ 0
Incident Type	Produced Water Release
Incident Status	Initial C-141 Received
Incident Facility	[fAPP2123762022] Sand Dunes 11 CS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Sand Dunes 11 CS
Date Release Discovered	09/18/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
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	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Produced Water Released: 4 BBL Recovered: 0 BBL Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

QUESTIONS, Page 2

Action 388596

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 388596
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as 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	Not answered.

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

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

I hereby agree and sign off to the above statement	Name: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 10/02/2024
--	--

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QUESTIONS, Page 3

Action 388596

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 388596
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Not answered.
What method was used to determine the depth to ground water	Not answered.
Did this release impact groundwater or surface water	Not answered.
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	Not answered.
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Not answered.
An occupied permanent residence, school, hospital, institution, or church	Not answered.
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Not answered.
Any other fresh water well or spring	Not answered.
Incorporated municipal boundaries or a defined municipal fresh water well field	Not answered.
A wetland	Not answered.
A subsurface mine	Not answered.
An (non-karst) unstable area	Not answered.
Categorize the risk of this well / site being in a karst geology	Not answered.
A 100-year floodplain	Not answered.
Did the release impact areas not on an exploration, development, production, or storage site	Not answered.

Remediation Plan

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

Requesting a remediation plan approval with this submission	No
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 388596

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 388596
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	10/2/2024

Area	Shape	Length (ft)	Width (ft)	Standing Depth (ft)	Soil Penetration (ft)	Standing Volume	In-Soil Volume	Total Volume
1	Rectangle	85.0	25.0	0.0000	0.0627	0.00	3.56	3.56
2	Triangle	25.0	24.0	0.0000	0.0627	0.00	0.50	0.50
3	Rectangle	25.0	25.0	0.0000	0.0627	0.00	1.05	1.05
4								
5								
6								
7								
8								
9								
10								
Total Volume (bbl)							5.11	

Click on
the
shape
box and
select
shape

Conversion Table	
Inches	Feet
1 inch	0.0833
2 inches	0.1667
3 inches	0.2500
4 inches	0.3333
5 inches	0.4167
6 inches	0.5000
7 inches	0.5833
8 inches	0.6667
9 inches	0.7500
10 inches	0.8333
11 inches	0.9167
1/256 inch	0.0003
1/128 inch	0.0007
1/64 inch	0.0013
1/32 inch	0.0026
1/16 inch	0.0052
1/8 inch	0.0104
1/4 inch	0.0208
3/8 inch	0.0313
1/2 inch	0.0417
5/8 inch	0.0521
3/4 inch	0.0625
7/8 inch	0.0729

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

APPENDIX B

Site Characterization Data

OCD Land Ownership



12/6/2024, 12:11:36 PM

Mineral Ownership

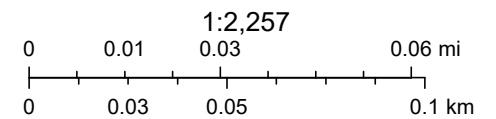


A-All minerals are owned by U.S.

Land Ownership



BLM



U.S. BLM, Maxar, Microsoft, Esri, HERE, Garmin, iPC



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are smallest to largest)

(meters)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 04687 POD1		CUB	ED	SE	NE	SW	12	24S	31E	619481.4	3566450.0		1229	110		
C 02460		C	ED			SW	02	24S	31E	617496.0	3568022.0 *		1895	320		
C 02460 POD2		C	ED			SW	02	24S	31E	617496.0	3568022.0 *		1895	320		
C 04576 POD1		CUB	ED	NW	NE	NW	23	24S	31E	617699.5	3564324.7		2042	910	850	60
C 02440		C	ED		NE	SW	10	24S	31E	616103.0	3566599.0 *		2181	350		
C 02464		C	ED	NE	SW	NW	02	24S	31E	617644.7	3568581.6		2374	320	205	115
C 04388 POD1		C	ED	SW	NE	NW	23	24S	31E	617546.3	3564006.4		2391	910	868	42
C 02405		CUB	ED		SE	NW	02	24S	31E	617690.0	3568631.0 *		2411	275	160	115
C 04672 POD 1		CUB	ED	NE	NW	SE	01	24S	31E	619762.2	3568286.5		2498	110		
C 04508 POD1		CUB	ED	SE	SE	SW	15	24S	31E	616298.3	3564493.0		2660	110		

Average Depth to Water: 520 feet

Minimum Depth: 160 feet

Maximum Depth: 868 feet

Record Count: 10

Basin/County Search:

County: ED

UTM Filters (in meters):

Easting: 618262.29

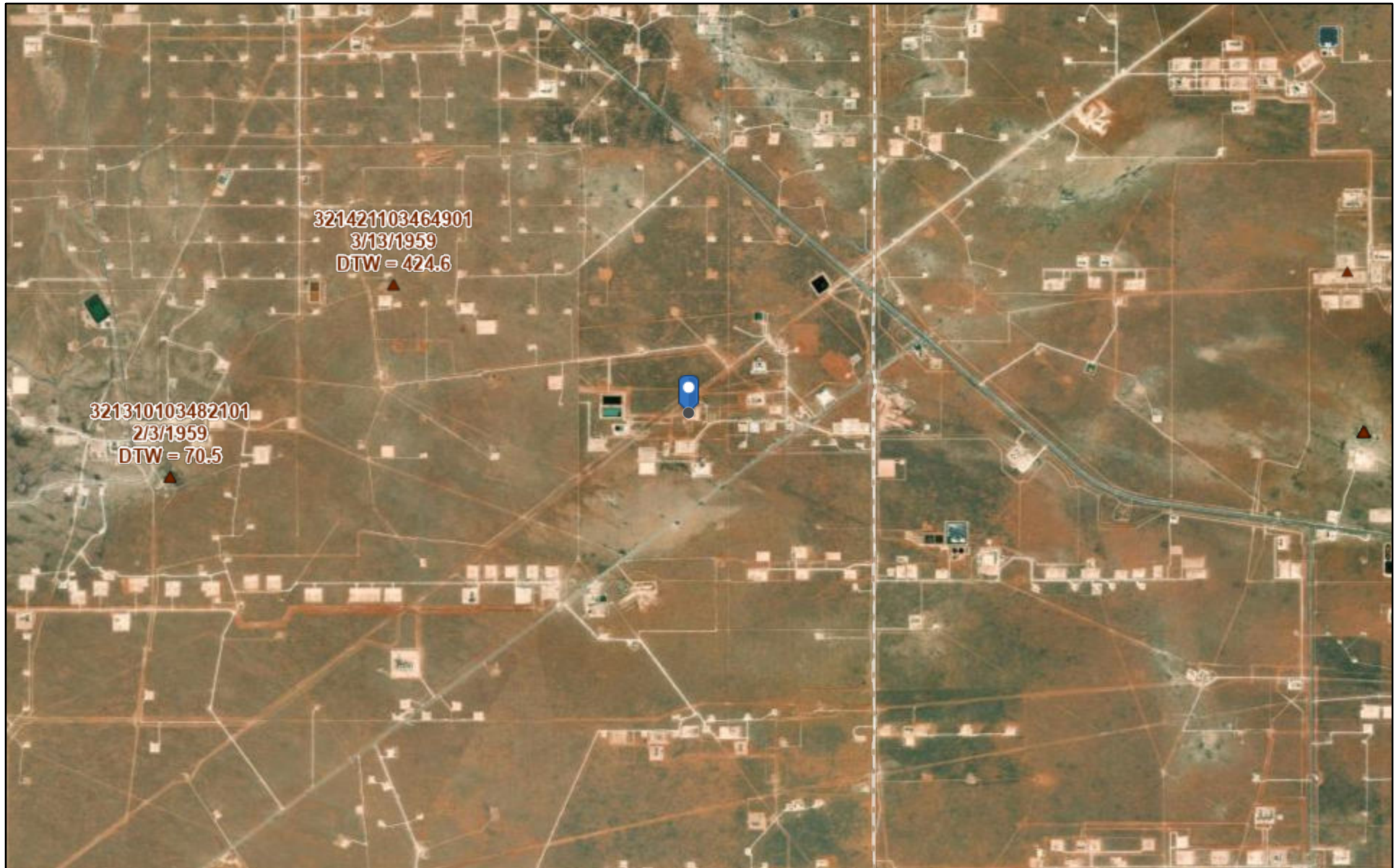
Northing: 3566288.43

Radius: 003000

* UTM location was derived from PLSS - see Help

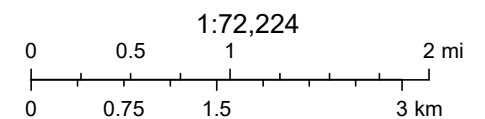
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

USGS Groundwater Wells



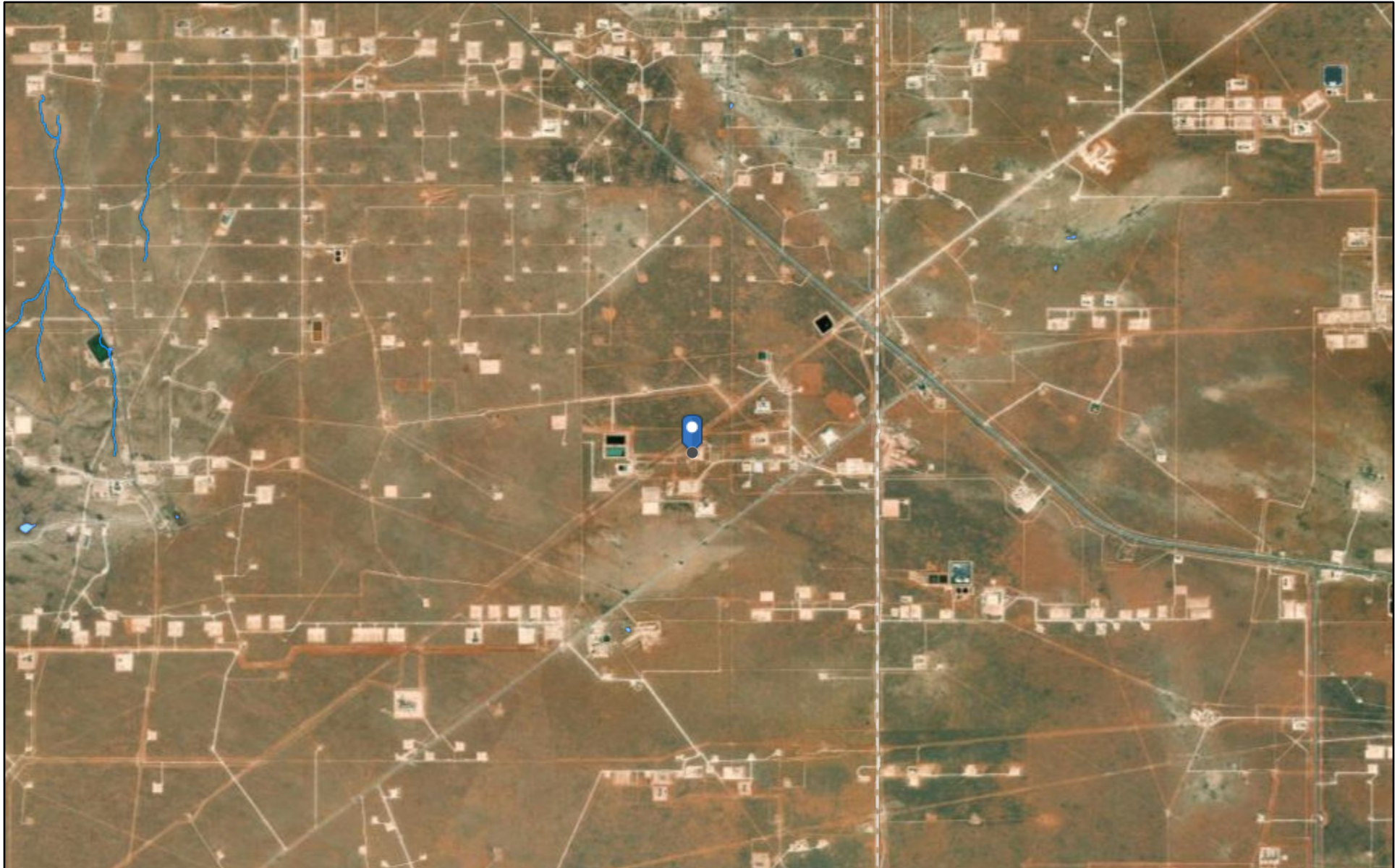
12/6/2024, 12:32:31 PM

▲ USGS Historical GW Wells





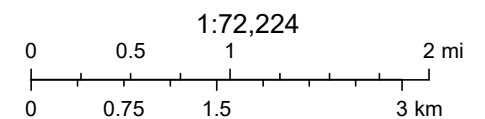
Esri, HERE, Garmin, Earthstar Geographics, USGS

OCD Water Bodys



12/6/2024, 12:16:15 PM

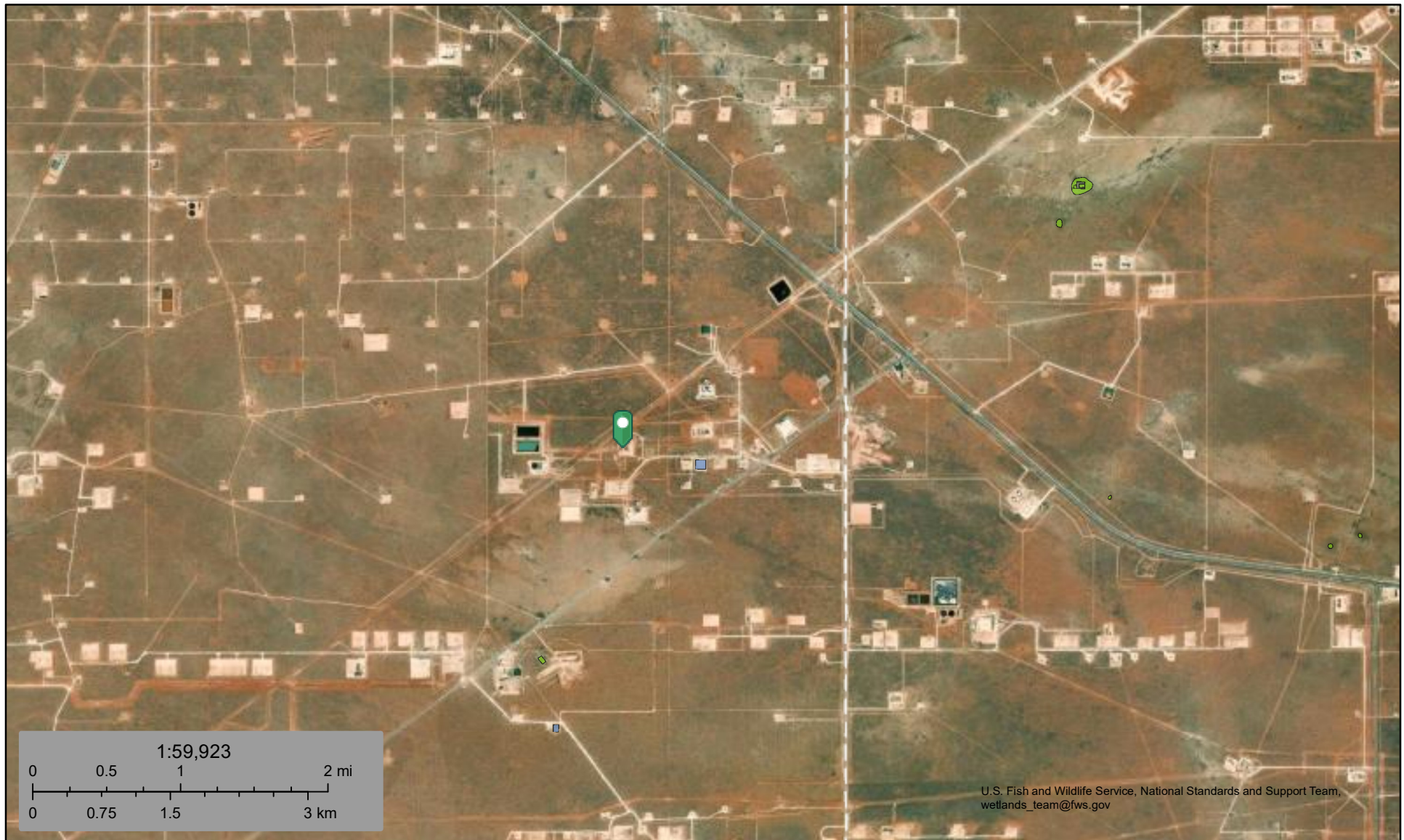
-  OSW Water Bodys
-  OSE Streams



Esri, HERE, Garmin, Earthstar Geographics, NM OSE



National Wetlands Inventory



December 6, 2024

Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

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

- Lake
- Other
- Riverine

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

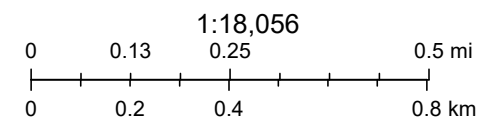
OCD Karst Potential



12/6/2024, 12:17:40 PM

Karst Occurrence Potential

Low



BLM, OCD, New Mexico Tech, Esri, HERE, Garmin, IPC, Maxar

National Flood Hazard Layer FIRMette



103°45'W 32°13'53"N



0 250 500 1,000 1,500 2,000 Feet

1:6,000

103°44'23"W 32°13'22"N

Released to Imaging: 3/24/2025 11:46:13 AM

Basemap Imagery Source: USGS National Map 2023

Legend

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

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



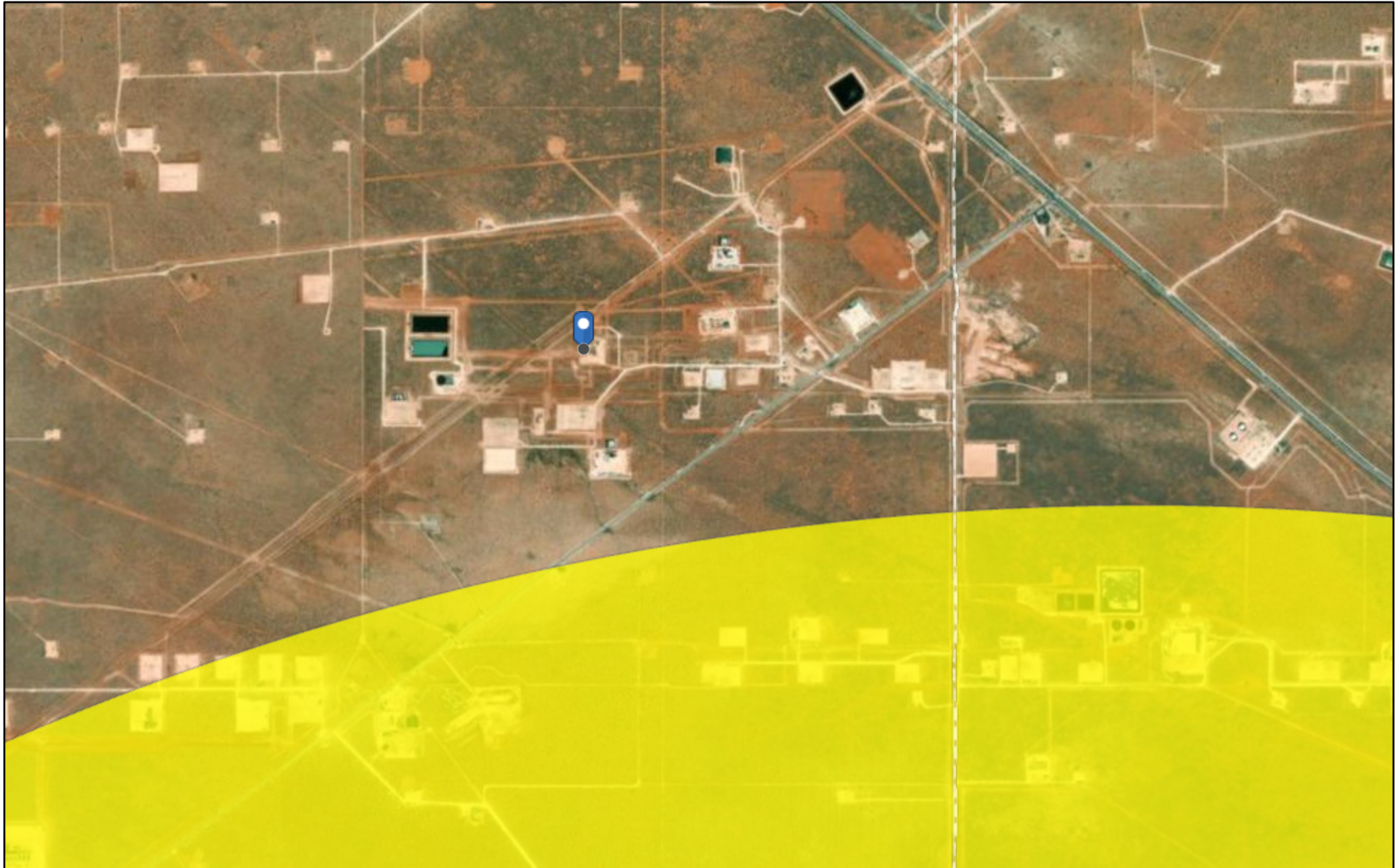
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 12/6/2024 at 6:22 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

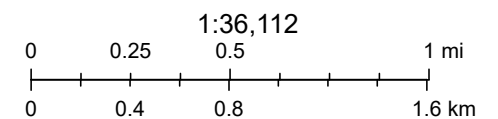
OCD Induced Seismicity



12/6/2024, 12:18:54 PM

Seismic Response 3.0 to 3.4

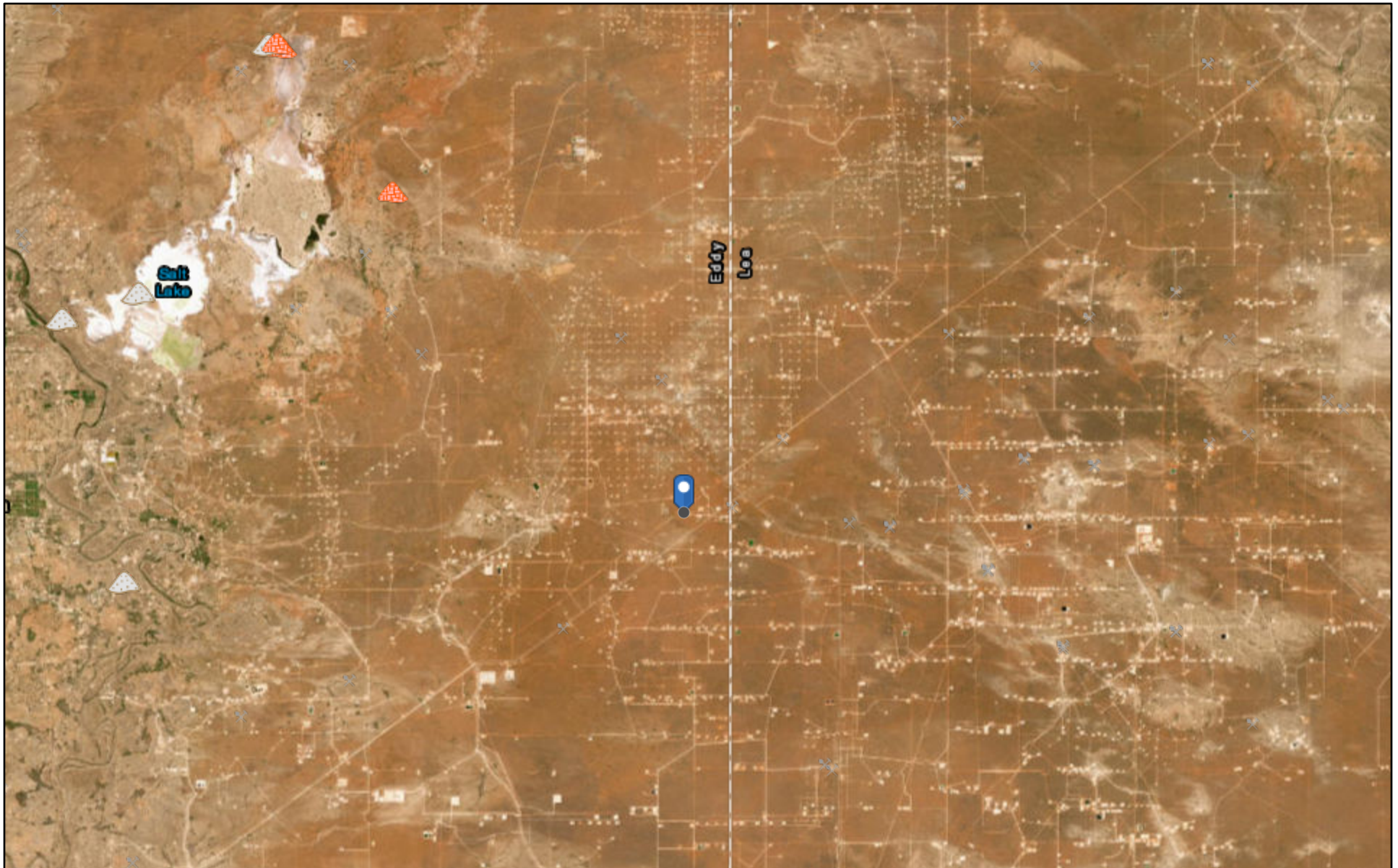
 10 mi.



Oil Conservation Division (OCD), Energy, Minerals and Natural Resources
Department (EMNRD), Esri, HERE, Garmin, Maxar

New Mexico Oil Conservation Division

Active Mines in New Mexico



12/6/2024, 12:20:32 PM

Registered Mines

Aggregate, Stone etc.



Aggregate, Stone etc.



Aggregate, Stone etc.

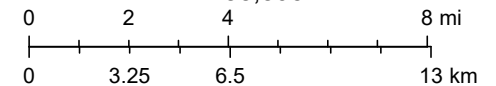


Potash



Salt

1:288,895



U.S. BLM, Esri, HERE, Garmin, Earthstar Geographics

APPENDIX C

Laboratory Analytical Data



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

December 13, 2024

CHRISTIAN LLULL

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: MCBU - SAND DUNES 11CS RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/09/24 12:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	12/09/2024	Sampling Date:	12/06/2024
Reported:	12/13/2024	Sampling Type:	Soil
Project Name:	MCBU - SAND DUNES 11CS RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03723	Sample Received By:	Shalyn Rodriguez
Project Location:	CHEVRON - EDDY CO NM		

Sample ID: T1 (0-1') (H247447-01)

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	12/09/2024	ND	1.97	98.7	2.00	5.84	
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27	
Total BTEX	<0.300	0.300	12/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2024	ND	448	112	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	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T1 (2-3') (H247447-02)

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	12/09/2024	ND	1.97	98.7	2.00	5.84	
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27	
Total BTEX	<0.300	0.300	12/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/10/2024	ND	448	112	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	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T1 (3-4') (H247447-03)

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	12/09/2024	ND	1.97	98.7	2.00	5.84	
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27	
Total BTEX	<0.300	0.300	12/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/10/2024	ND	448	112	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	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 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:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T2 (0-1') (H247447-05)

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	12/09/2024	ND	1.97	98.7	2.00	5.84	
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64	
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27	
Total BTEX	<0.300	0.300	12/09/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/10/2024	ND	448	112	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	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T2 (2-3') (H247447-06)

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	12/09/2024	ND	1.97	98.7	2.00	5.84		
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64		
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27		
Total BTEX	<0.300	0.300	12/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/10/2024	ND	448	112	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	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T2 (3-4') (H247447-07)

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	12/09/2024	ND	1.97	98.7	2.00	5.84		
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64		
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27		
Total BTEX	<0.300	0.300	12/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/10/2024	ND	448	112	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	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	12/09/2024	Sampling Date:	12/06/2024
Reported:	12/13/2024	Sampling Type:	Soil
Project Name:	MCBU - SAND DUNES 11CS RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03723	Sample Received By:	Shalyn Rodriguez
Project Location:	CHEVRON - EDDY CO NM		

Sample ID: T3 (0-1') (H247447-09)

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	12/09/2024	ND	1.97	98.7	2.00	5.84		
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64		
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27		
Total BTEX	<0.300	0.300	12/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/10/2024	ND	448	112	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	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					

Surrogate: 1-Chlorooctane 95.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	12/09/2024	Sampling Date:	12/06/2024
Reported:	12/13/2024	Sampling Type:	Soil
Project Name:	MCBU - SAND DUNES 11CS RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C - MD - 03723	Sample Received By:	Shalyn Rodriguez
Project Location:	CHEVRON - EDDY CO NM		

Sample ID: T3 (2-3') (H247447-10)

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	12/09/2024	ND	1.97	98.7	2.00	5.84		
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64		
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27		
Total BTEX	<0.300	0.300	12/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/10/2024	ND	448	112	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	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T3 (3-4') (H247447-11)

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	12/09/2024	ND	1.97	98.7	2.00	5.84		
Toluene*	<0.050	0.050	12/09/2024	ND	2.01	101	2.00	4.32		
Ethylbenzene*	<0.050	0.050	12/09/2024	ND	2.04	102	2.00	3.64		
Total Xylenes*	<0.150	0.150	12/09/2024	ND	6.11	102	6.00	3.27		
Total BTEX	<0.300	0.300	12/09/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/10/2024	ND	448	112	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	12/09/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/09/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/09/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T4 (0-1') (H247447-13)

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	12/10/2024	ND	1.97	98.7	2.00	5.84	
Toluene*	<0.050	0.050	12/10/2024	ND	2.01	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.04	102	2.00	3.64	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.11	102	6.00	3.27	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/10/2024	ND	448	112	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	12/10/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T4 (2-3') (H247447-14)

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	12/10/2024	ND	1.97	98.7	2.00	5.84	
Toluene*	<0.050	0.050	12/10/2024	ND	2.01	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.04	102	2.00	3.64	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.11	102	6.00	3.27	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 87.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.6 % 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:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: T4 (3-4') (H247447-15)

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	12/10/2024	ND	1.97	98.7	2.00	5.84	
Toluene*	<0.050	0.050	12/10/2024	ND	2.01	101	2.00	4.32	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.04	102	2.00	3.64	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.11	102	6.00	3.27	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	232	116	200	2.96	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	206	103	200	3.26	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 92.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH 1 (0-1') (H247447-17)

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	12/10/2024	ND	2.19	110	2.00	6.97		
Toluene*	<0.050	0.050	12/10/2024	ND	2.11	106	2.00	6.07		
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.14	107	2.00	5.21		
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.40	107	6.00	5.40		
Total BTEx	<0.300	0.300	12/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	225	113	200	2.44	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	210	105	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH 2 (0-1') (H247447-18)

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	12/10/2024	ND	2.19	110	2.00	6.97		
Toluene*	<0.050	0.050	12/10/2024	ND	2.11	106	2.00	6.07		
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.14	107	2.00	5.21		
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.40	107	6.00	5.40		
Total BTEX	<0.300	0.300	12/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	12/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	225	113	200	2.44	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	210	105	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 127 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH 3 (0-1') (H247447-19)

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	12/10/2024	ND	2.19	110	2.00	6.97	
Toluene*	<0.050	0.050	12/10/2024	ND	2.11	106	2.00	6.07	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.14	107	2.00	5.21	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.40	107	6.00	5.40	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	225	113	200	2.44	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	210	105	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 133 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH 4 (0-1') (H247447-20)

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	12/10/2024	ND	2.19	110	2.00	6.97		
Toluene*	<0.050	0.050	12/10/2024	ND	2.11	106	2.00	6.07		
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.14	107	2.00	5.21		
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.40	107	6.00	5.40		
Total BTEX	<0.300	0.300	12/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	12/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	225	113	200	2.44	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	210	105	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 128 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH 5 (0-1') (H247447-21)

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	12/10/2024	ND	2.19	110	2.00	6.97	
Toluene*	<0.050	0.050	12/10/2024	ND	2.11	106	2.00	6.07	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.14	107	2.00	5.21	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.40	107	6.00	5.40	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	12/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	225	113	200	2.44	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	210	105	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH 6 (0-1') (H247447-22)

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	12/10/2024	ND	2.19	110	2.00	6.97		
Toluene*	<0.050	0.050	12/10/2024	ND	2.11	106	2.00	6.07		
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.14	107	2.00	5.21		
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.40	107	6.00	5.40		
Total BTEX	<0.300	0.300	12/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	12/10/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	225	113	200	2.44	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	210	105	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 125 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH 7 (0-1') (H247447-23)

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	12/10/2024	ND	2.19	110	2.00	6.97	
Toluene*	<0.050	0.050	12/10/2024	ND	2.11	106	2.00	6.07	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.14	107	2.00	5.21	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.40	107	6.00	5.40	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	225	113	200	2.44	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	210	105	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Analytical Results For:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH 8 (0-1') (H247447-24)

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	12/10/2024	ND	2.19	110	2.00	6.97	
Toluene*	<0.050	0.050	12/10/2024	ND	2.11	106	2.00	6.07	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.14	107	2.00	5.21	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.40	107	6.00	5.40	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	12/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	225	113	200	2.44	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	210	105	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 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:

TETRA TECH
 CHRISTIAN LLULL
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received: 12/09/2024
 Reported: 12/13/2024
 Project Name: MCBU - SAND DUNES 11CS RELEASE
 Project Number: 212C - MD - 03723
 Project Location: CHEVRON - EDDY CO NM

Sampling Date: 12/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: AH 9 (0-1') (H247447-25)

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	12/10/2024	ND	2.19	110	2.00	6.97	
Toluene*	<0.050	0.050	12/10/2024	ND	2.11	106	2.00	6.07	
Ethylbenzene*	<0.050	0.050	12/10/2024	ND	2.14	107	2.00	5.21	
Total Xylenes*	<0.150	0.150	12/10/2024	ND	6.40	107	6.00	5.40	
Total BTEX	<0.300	0.300	12/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	12/10/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/10/2024	ND	225	113	200	2.44	
DRO >C10-C28*	<10.0	10.0	12/10/2024	ND	210	105	200	6.66	
EXT DRO >C28-C36	<10.0	10.0	12/10/2024	ND					

Surrogate: 1-Chlorooctane 130 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

+ Cardinal cannot accept verbal changes. Please email changes to celev.keene@cardinallabsnm.com

Company Name: Tetra Tech

Project Manager: Christian Lluji

Address: 8911 Capital of Texas Hwy, Suite 2310

City: Austin State: TX Zip:

Phone #: (512) 565-0190 Fax #:

Project #: 212C-MD-03723 Project Owner: Chevron

Project Name: MCBU-Sand Dunes 11CS Release

Project Location: Eddy County, New Mexico

Sampler Name: Robert Davis

FOR LAB USE ONLY

Lab I.D.	Sample I.D.

Sample I.D.

1647447

T3 (3-4)

TS (5-6)

T4 (0-1)

74 (2-3)

79 (3-4)

14 (5-6)

damages. Cardinal's liability and client's

shall not be liable for incidental or consequential damages or related to the performance of such services.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 25 of 26

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hold

Released to Imaging: 3/24/2025 11:46:13 AM



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3/3

Company Name: Tetra Tech		P.O. #:		BILL TO		ANALYSIS REQUEST											
Project Manager: Christian Llull		Company: Tetra Tech															
Address: 8911 Capital of Texas Hwy, Suite 2310		Attn: Christian Llull															
City: Austin		Address: Email															
Phone #: (512) 565-0190		City:															
Fax #: (512) 565-0190		State:															
Project #: 212C-MD-05723		Project Owner: Chevron															
Project Name: MCBV - Sand Dunes ILCs Release		City:															
Project Location: Eddy County, New Mexico		State:															
Sample Name: Robert Davis		Phone #:															
FOR LAB USE ONLY		Fax #:															
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		MATRIX		PRESERV		SAMPLING	
17		AH 1 (0-1)		6		1		X		X		X		X		X	
18		AH 2 (0-1)		6		1		X		X		X		X		X	
19		AH 3 (0-1)		6		1		X		X		X		X		X	
20		AH 4 (0-1)		6		1		X		X		X		X		X	
21		AH 5 (0-1)		6		1		X		X		X		X		X	
22		AH 6 (0-1)		6		1		X		X		X		X		X	
23		AH 7 (0-1)		6		1		X		X		X		X		X	
24		AH 8 (0-1)		6		1		X		X		X		X		X	
25		AH 9 (0-1)		6		1		X		X		X		X		X	
1847447																	
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Relinquished By:		Date:		Received By:		Date:		Time:		Time:		Time:		Time:		Time:	
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY: (initials)		Turnaround Time:		Standard		Bacteria (only)		Sample Condition		Observed Temp. °C	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Cool Intact				Thermometer ID #140		Rush		Cool Intact		Observed Temp. °C		Corrected Temp. °C	
FORM 0001 3-3-2005/24		2.4		Yes		SE		Correction Factor -0.6°C		No		No		No		No	
Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com																	



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

February 05, 2025

LISBETH CHAVIRA

TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: SAND DUNES 11 CS RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/30/25 14:09.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 LISBETH CHAVIRA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/30/2025	Sampling Date:	01/30/2025
Reported:	02/05/2025	Sampling Type:	Soil
Project Name:	SAND DUNES 11 CS RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03723	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY CO NM		

Sample ID: AH - 5R (2-3') (H250574-02)

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	01/31/2025	ND	2.08	104	2.00	2.03	
Toluene*	<0.050	0.050	01/31/2025	ND	2.17	109	2.00	1.64	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.20	110	2.00	1.20	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.70	112	6.00	0.481	
Total BTX	<0.300	0.300	01/31/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	01/31/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	179	89.5	200	0.652	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	185	92.5	200	0.451	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:

TETRA TECH
 LISBETH CHAVIRA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/30/2025	Sampling Date:	01/30/2025
Reported:	02/05/2025	Sampling Type:	Soil
Project Name:	SAND DUNES 11 CS RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03723	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY CO NM		

Sample ID: AH - 6R (2-3') (H250574-04)

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	01/31/2025	ND	2.08	104	2.00	2.03		
Toluene*	<0.050	0.050	01/31/2025	ND	2.17	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.20	110	2.00	1.20		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.70	112	6.00	0.481		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	01/31/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2025	ND	179	89.5	200	0.652	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	185	92.5	200	0.451	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 98.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 LISBETH CHAVIRA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/30/2025	Sampling Date:	01/30/2025
Reported:	02/05/2025	Sampling Type:	Soil
Project Name:	SAND DUNES 11 CS RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03723	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY CO NM		

Sample ID: AH - 9R (2-3') (H250574-06)

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	01/31/2025	ND	2.08	104	2.00	2.03		
Toluene*	<0.050	0.050	01/31/2025	ND	2.17	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.20	110	2.00	1.20		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.70	112	6.00	0.481		
Total BTEx	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	01/31/2025	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	01/31/2025	ND	179	89.5	200	0.652	
DRO >C10-C28*	22.6	10.0	01/31/2025	ND	185	92.5	200	0.451	
EXT DRO >C28-C36	112	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

TETRA TECH
 LISBETH CHAVIRA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/30/2025	Sampling Date:	01/30/2025
Reported:	02/05/2025	Sampling Type:	Soil
Project Name:	SAND DUNES 11 CS RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03723	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY CO NM		

Sample ID: AH - 11 (0-1') (H250574-07)

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	01/31/2025	ND	2.08	104	2.00	2.03		
Toluene*	<0.050	0.050	01/31/2025	ND	2.17	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.20	110	2.00	1.20		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.70	112	6.00	0.481		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	64.0	16.0	01/31/2025	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	01/31/2025	ND	179	89.5	200	0.652	
DRO >C10-C28*	69.9	10.0	01/31/2025	ND	185	92.5	200	0.451	
EXT DRO >C28-C36	196	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.0 % 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:

TETRA TECH
 LISBETH CHAVIRA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/30/2025	Sampling Date:	01/30/2025
Reported:	02/05/2025	Sampling Type:	Soil
Project Name:	SAND DUNES 11 CS RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03723	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY CO NM		

Sample ID: AH - 12 (0-1') (H250574-08)

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	01/31/2025	ND	2.08	104	2.00	2.03	
Toluene*	<0.050	0.050	01/31/2025	ND	2.17	109	2.00	1.64	
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.20	110	2.00	1.20	
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.70	112	6.00	0.481	
Total BTEX	<0.300	0.300	01/31/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	01/31/2025	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	01/31/2025	ND	179	89.5	200	0.652	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	185	92.5	200	0.451	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

TETRA TECH
 LISBETH CHAVIRA
 901 WEST WALL STREET , STE 100
 MIDLAND TX, 79701
 Fax To: (432) 682-3946

Received:	01/30/2025	Sampling Date:	01/30/2025
Reported:	02/05/2025	Sampling Type:	Soil
Project Name:	SAND DUNES 11 CS RELEASE	Sampling Condition:	Cool & Intact
Project Number:	212C-MD-03723	Sample Received By:	Tamara Oldaker
Project Location:	CHEVRON - EDDY CO NM		

Sample ID: AH - 13 (0-1') (H250574-09)

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	01/31/2025	ND	2.08	104	2.00	2.03		
Toluene*	<0.050	0.050	01/31/2025	ND	2.17	109	2.00	1.64		
Ethylbenzene*	<0.050	0.050	01/31/2025	ND	2.20	110	2.00	1.20		
Total Xylenes*	<0.150	0.150	01/31/2025	ND	6.70	112	6.00	0.481		
Total BTEX	<0.300	0.300	01/31/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	01/31/2025	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	01/31/2025	ND	179	89.5	200	0.652	
DRO >C10-C28*	<10.0	10.0	01/31/2025	ND	185	92.5	200	0.451	
EXT DRO >C28-C36	<10.0	10.0	01/31/2025	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 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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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manager: Lisbeth Chavira		P.O. #:		BILL TO		ANALYSIS REQUEST													
Address: 8911 Capital Of Texas Hwy, Suite 2310		Company: Tetra Tech																	
City: Austin		Attn: Lisbeth Chavira																	
Phone #: (512) 565-0190		Address: EMAIL																	
Fax #:		City:																	
Project #: 212C-MD-03723		State:																	
Project Name: Sand Dunes 11 CS Release		Zip:																	
Project Location: Eddy County, New Mexico		Phone #:																	
Sample Name: Colton Bickersstaff		Fax #:																	
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH 8015M	BTEX 8021B	Chloride SM4500CI-B	HOLD	
1	AH-5R (0-1)	G	1										1/30/2025						X
2	AH-5R (2-3)	G	1										1/30/2025		X				
3	AH-6R (0-1)	G	1										1/30/2025						
4	AH-6R (2-3)	G	1										1/30/2025						
5	AH-9R (0-1)	G	1										1/30/2025						
6	AH-9R (2-3)	G	1										1/30/2025						
7	AH-11 (0-1)	G	1										1/30/2025						
8	AH-12 (0-1)	G	1										1/30/2025						
9	AH-13 (0-1)	G	1										1/30/2025						

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Relinquished By: Colton Bickersstaff **Date:** 1/30/2025 **Received By:** Melissa Adams **Date:** 1/30/2025

Relinquished By: Colton Bickersstaff **Date:** 1/30/2025 **Received By:** Melissa Adams **Date:** 1/30/2025

Delivered By: (Circle One) **Observed Temp. °C** 5.1 **Corrected Temp. °C** 4.5

Sampler: UPS - Bus - Other: **Sample Condition** ☒ Cool ☐ Intact ☐ No ☐ No

Checked By: VC **Thermometer ID #140** **Correction Factor 0°C** -0.6°C

Remarks: PLEASE HOLD ANALYSIS ON AH-SR (0-1), AH-SR (0-1) AND AH-SR (0-1).

Verbal Result: ☐ Yes ☐ No **Add'l Phone #:**

Thermometer Time: ☐ Standard ☒ Backlit (only) Sample Condition ☐ No ☐ Yes ☐ No ☐ Yes

Thermometer ID #140 **Correction Factor 0°C** -0.6°C ☐ No ☐ No ☐ No ☐ No

FORM-006 R 3.2 10/07/21

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

APPENDIX D

Photographic Documentation



TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	Site Signage.	1
	SITE NAME	Sand Dunes 11 CS Release	10/18/2024



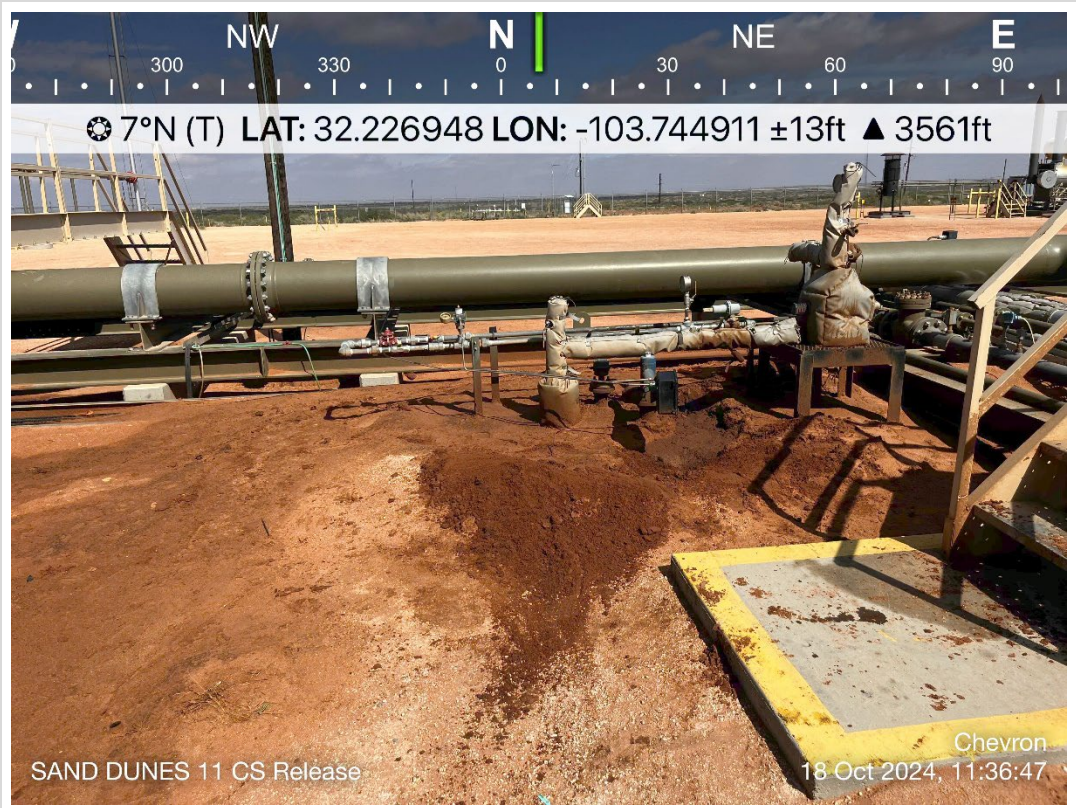
TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View north. View of release footprint and site compressors.	2
	SITE NAME	Sand Dunes 11 CS Release	10/18/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View south. View of release footprint and site compressors.	3
	SITE NAME	Sand Dunes 11 CS Release	10/18/2024



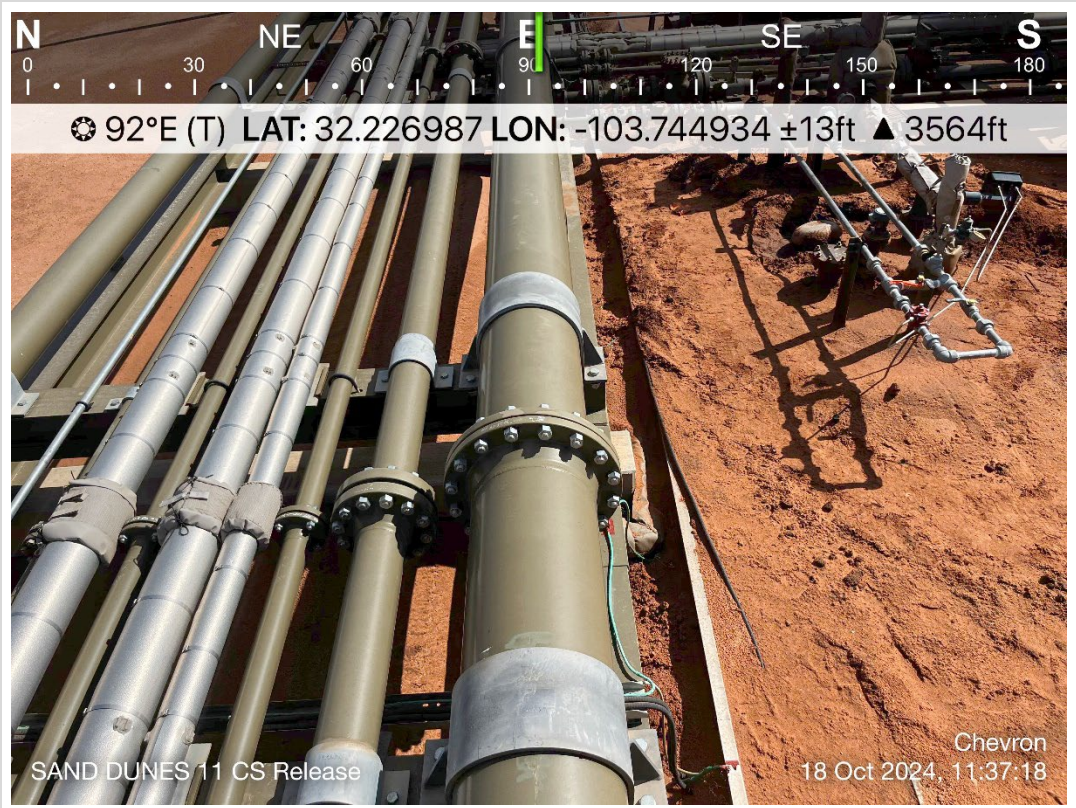
TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View south. View north. View of release footprint and site compressors.	4
	SITE NAME	Sand Dunes 11 CS Release	10/18/2024



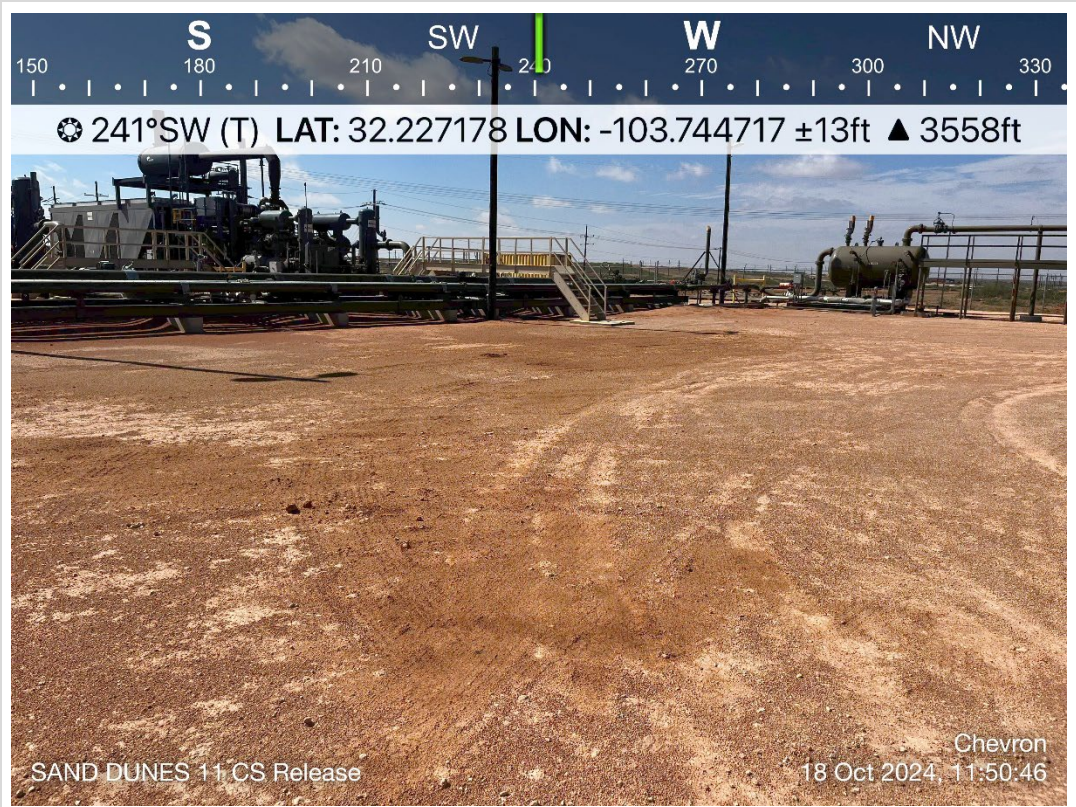
TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View north. View of release point. View of production equipment.	5
	SITE NAME	Sand Dunes 11 CS Release	10/18/2024



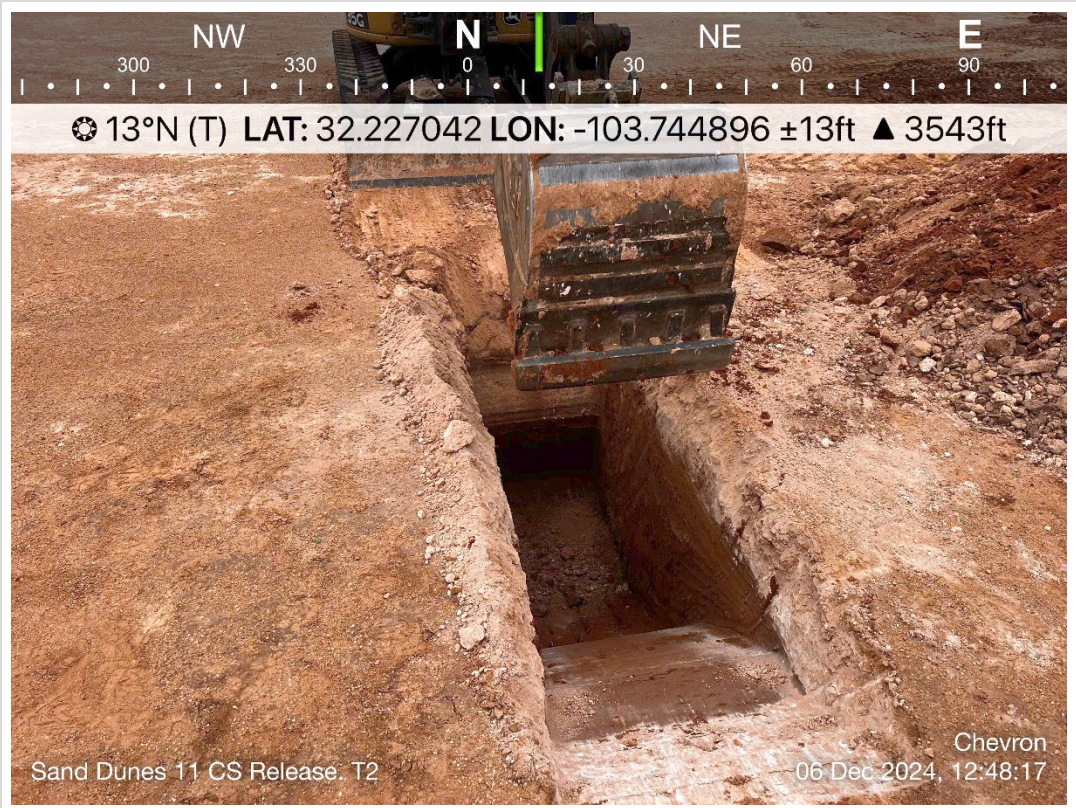
TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View east. View of north release footprint.	6
	SITE NAME	Sand Dunes 11 CS Release	10/18/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View east. View of aboveground production lines.	7
	SITE NAME	Sand Dunes 11 CS Release	10/18/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View southwest. View of north release footprint.	8
	SITE NAME	Sand Dunes 11 CS Release	10/18/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View north. View of assessment activities.	9
	SITE NAME	Sand Dunes 11 CS Release	12/6/2024



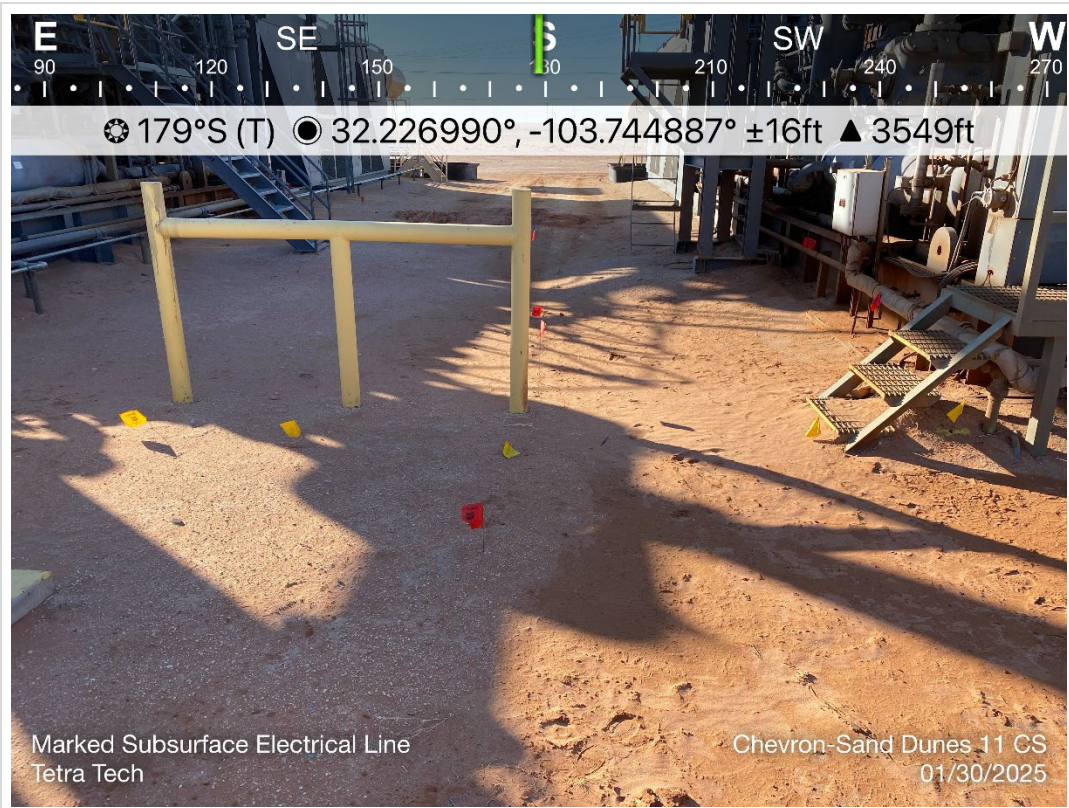
TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View northwest. View of assessment activities.	10
	SITE NAME	Sand Dunes 11 CS Release	12/6/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View south. View of assessment activities.	11
	SITE NAME	Sand Dunes 11 CS Release	12/6/2024



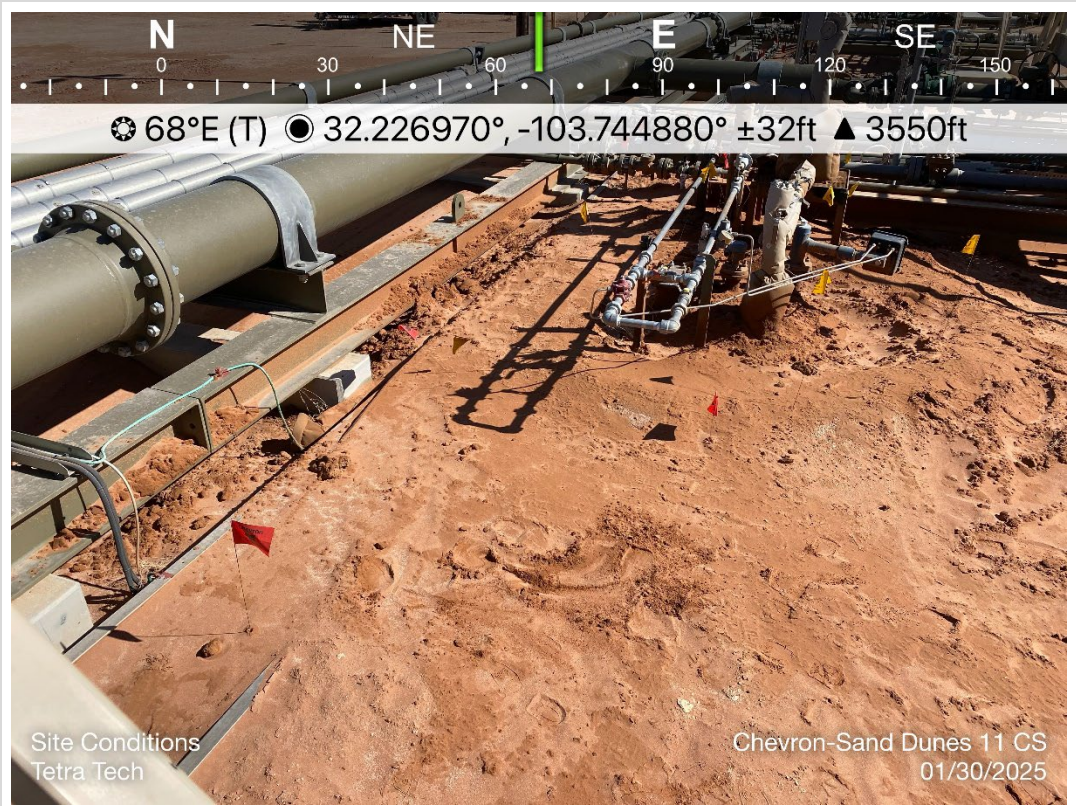
TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View west. View of assessment activities.	12
	SITE NAME	Sand Dunes 11 CS Release	12/6/2024



TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View south. View subsurface line and electrical line.	13
	SITE NAME	Sand Dunes 11 CS Release	1/30/2025



TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View east. Surface flange and subsurface steel line. Unknown liquid tote.	14
	SITE NAME	Sand Dunes 11 CS Release	1/30/2025



TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View northeast. View of aboveground production line. View of subsurface lines.	15
	SITE NAME	Sand Dunes 11 CS Release	1/30/2025



TETRA TECH, INC. PROJECT NO. 212C-MD-03723	DESCRIPTION	View east. View of aboveground production line. View of subsurface lines.	16
	SITE NAME	Sand Dunes 11 CS Release	1/30/2025

APPENDIX E

Regulatory Correspondence

OCD Permitting

Home Searches Incidents Incident Details

NAPP2426463181 SAND DUNES 11 CS @ 0

General Incident Information

Site Name:

SAND DUNES 11 CS

Well:

Facility:

[\[APP2123762022\]](#) Sand Dunes 11 CS

Operator:

[\[4323\]](#) CHEVRON U S A INC

Status:

Initial C-141 Approved, Pending submission of Site Characterization / Remediation Plan OR Remediation Closure Report from the operator

Type:

Produced Water Release

Severity:

Minor

Surface Owner:

Federal

District:

Artesia

County:

Eddy (15)

Incident Location:

M-11-24S-31E 0 FNL 0 FEL

Lat/Long:

32.227111,-103.744528 NAD83

Directions:

- Quic
- [Gene](#)
 - [Mater](#)
 - [Event](#)
 - [Order](#)
 - [Actior](#)

- Asso
- [Facilit](#)
 - [Incide](#)

- New
- [New f](#)
 - [New I](#)
 - [New C](#)
 - [New f](#)
 - [New 6](#)
 - [New 1](#)
 - [New \](#)

Notes

Source of Referral:

Industry Rep

Action / Escalation:

Resulted In Fire:

☐

Resulted In Injury:

☐

Endangered Public Health:

☐

Will or Has Reached Watercourse:

☐

Fresh Water Contamination:

☐

Property Or Environmental Damage:

☐

Contact Details

Contact Name:

Contact Title:

Event Dates

Date of Discovery:

09/18/2024

Initial C-141 Report Due:

10/3/2024

Remediation Closure Report Due:

03/17/2025

Incident Dates

Type	Action	Received	Denied	Approved
Initial C-141 Report	[388596]	10/02/2024		10/02/2024
Notification	[385532]	09/20/2024		09/20/2024

Compositional Analysis of Vented and/or Flared Natural Gas

No Compositional Analysis Found

Searches Operator Data Hearing Fee Application

Overflow - Tank, Pit, Etc.	Tank (Any)	Produced Water	<input type="checkbox"/>	4	0	4	BBL
Overflow - Tank, Pit, Etc.	Tank (Any)	Crude Oil	<input type="checkbox"/>	1	0	1	BBL
The concentration of dissolved chloride in the produced water >10,000 mg/l: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							

Incident Events

Date	Detail
12/17/2024	Extension request approved, Due date 03/17/2025
12/17/2024	Chevron would like to request a 90-day extension (until March 17, 2025) to complete assessment and remedial activities and associated reporting for the Sand Dunes 11 CS Release Site (NAPP2426463181). As of this week, Chevron has safely completed assessment activities at the Site to evaluate the status of the identified open incident # NAPP2426463181, however, a path forward has not yet been established. Given the complexities of this release footprint and site, including numerous surface and subsurface utilities within the release footprint, assessment and delineation work at the project site must be completed safely and in accordance with established Chevron MCBU policies and procedures. Additional time is required to proceed to remediation of soils to meet the standards of Table I of 19.15.29.12 NMAC or other applicable remediation standards and restore and reclaim the area pursuant to 19.15.29.13 NMAC.
10/02/2024	The (10/02/2024, C-141) application [388596] was accepted by OCD. The operator was emailed with details of this event.
10/02/2024	An application [388596] was submitted to OCD for review. It was submitted, indicating that it was an: [C-141] Application for administrative approval of a release notification and corrective action The operator was emailed confirmation of this event.
09/30/2024	The (10/02/2024, C-141) application [388596] was assigned to this incident.
09/20/2024	The (09/20/2024, NOR) application [385532] was assigned to this incident.
09/20/2024	New incident created by the operator, upon the submission of notification of release.
09/18/2024	Release discovered by the operator.

Incident Severity

Major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
--	--

Incident Corrective Actions

Initial Response

<input checked="" type="checkbox"/> The source of the release has been stopped.
<input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.
<input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
<input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.

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

Searches Operator Data Hearing Fee Application

On what date will (or did) the final sampling occur?

On what date will (or was) the remediation complete(d)

Release is indicated as not yet fully delineated. Any Deferral Requests received may not be granted for this incident.

No remediation closure report data was found for this incident.

No reclamation report data was found for this incident.

No re-vegetation report data was found for this incident.

Orders

No Orders Found

New Mexico Energy, Minerals and Natural Resources Department | Copyright 2012
1220 South St, Francis Drive | Santa Fe, NM 87505 | P: (505) 476-3200 | F: (505) 476-3220

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 442931

QUESTIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 442931
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2426463181
Incident Name	NAPP2426463181 SAND DUNES 11 CS @ 0
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Facility	[fAPP2123762022] Sand Dunes 11 CS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SAND DUNES 11 CS
Date Release Discovered	09/18/2024
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
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	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Overflow - Tank, Pit, Etc. Tank (Any) Produced Water Released: 4 BBL Recovered: 0 BBL Lost: 4 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 2

Action 442931

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 442931
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: Kennedy Lincoln Title: Environmental Specialist Email: kennedy.lincoln@chevron.com Date: 10/02/2024
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Sante Fe Main Office
Phone: (505) 476-3441

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

QUESTIONS, Page 3

Action 442931

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 442931
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>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.</i>	
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	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<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>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
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)	816
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	266
GRO+DRO (EPA SW-846 Method 8015M)	23
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<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>	
On what estimated date will the remediation commence	09/01/2025
On what date will (or did) the final sampling or liner inspection occur	09/02/2025
On what date will (or was) the remediation complete(d)	09/04/2025
What is the estimated surface area (in square feet) that will be reclaimed	1989
What is the estimated volume (in cubic yards) that will be reclaimed	55
What is the estimated surface area (in square feet) that will be remediated	1989
What is the estimated volume (in cubic yards) that will be remediated	55
<i>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.</i>	
<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 4

Action 442931

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID:
	4323
	Action Number:
	442931
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]
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: loyd Tyler Title: Environmental Specialist Email: loyd.tyler@chevron.com Date: 03/17/2025
<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 442931

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 442931
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 442931

QUESTIONS (continued)

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 442931
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

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CONDITIONS

Action 442931

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 442931
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards for site assessment/characterization/proven depth to water determination. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Confirmation samples should be collected every 200 ft2. The surface scrape area in the north end of the spill requires confirmation sampling. The work will need to occur in 90 days after the work plan has been reviewed.	3/24/2025