



CLOSURE AND RECLAMATION REQUEST REPORT

Site Information:

Tomcat 21 Federal #1

Incident Number: nRM2016146439

Lea County, New Mexico

Unit I, Section 1, Township 23 South, Range 32 East

(32.30251, -103.6711)

Prepared For:

Devon Energy Production Company, LP

5315 Buena Vista Dr.

Carlsbad, NM 88220

SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Devon Energy Production Company, LP (Devon), presents the following Closure and Reclamation Request Report (CRRR) detailing confirmation excavation soil sampling activities and subsequent reclamation activities to address an inadvertent release of produced water associated with Incident Number nRM2016146439 at the Tomcat 21 Federal #1 (Site). Based on completed remedial actions and laboratory analytical results from final confirmation soil sampling activities at the Site, Devon is requesting No Further Remedial Action (NFRA).

SITE BACKGROUND

The Site is associated with oil and gas exploration and production operations located on State Land, managed by the New Mexico State Land Office (NMSLO). The subject release occurred approximately 1-mile northeast of production well, assigned (API 30-025-33356) (Figure 1 in Appendix A).

On May 24, 2020, a 4-inch poly flowline developed a hole and resulted in approximately 68 barrels (bbls) of produced water to be released onto a Right-Of-Way (ROW), hereafter referred to as the Area of Concern (AOC). Due to the remote location and of the release and the sandy nature of the soil, no fluids were recovered. Devon immediately notified the NMSLO and NMOCD via email on May 25, 2020, and reported the release on a Corrective Action Form C-141 (Form C-141), which was received by the NMOCD June 9, 2020, and was assigned Incident Number nRM2016146439.

Etech prepared a Characterization Variance Request (CVR) proposing to remediate to Table I depth to groundwater (DTW) standards of greater than 100 feet below ground surface (bgs) based on recent regional DTW data, which was submitted on March 24, 2025. The NMOCD approved the CVR on March 26, 2025.

Following the CVR approval by the NMOCD, a Site Characterization and Remediation Plan (SCRP) was prepared and submitted to the NMOCD on August 20, 2025, which outlined subsequent corrective measures to address identified impacts exceeding the Site Closure Criteria. The SCRP ([497402](#)) was subsequently approved by the NMOCD on September 9, 2025, with the following conditions:

- *Remediation plan is approved as written except with the following conditions; 1. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, EOG must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 2. Devon has 90-days (December 4, 2025) to submit to OCD its appropriate or final remediation closure report.*

On September 8, 2025, the SCRP was also submitted to the NMSLO and was subsequently approved on September 16, 2025, with the following conditions:

- *Workplan introduction states that release occurred at the Tomcat site but site map illustrates release from a pipeline in the pasture not located at the Tomcat site. Later narrative discusses correct location of release. The workplan documents communication w/ OCD regarding a DTW variance request. This was not discussed with ECO and we were not given the opportunity to weigh in. Based on our own desktop review, ECO will agree to the DTW determination of greater than 100 ft.*

- ECO agrees with NMOCD conditions of approval for backfill sampling - Backfill must match natural soil horizons. NMSLO seed mix was not proposed, and soil profile was not discussed. Based on Web Soil Survey data, Sandy seed mix must be used on State Trust Land.
- ECO agrees to NMOCD's closure deadline of December 4, 2025.

On December 3, 2025, Etech requested a 90-day extension for additional time to review laboratory results and prepare a comprehensive Closure and Reclamation Request report to the NMOCD. The extension request was approved on December 4, 2025, extending the deadline to March 4, 2026.

SITE CHARACTERIZATION AND APPROVED CLOSURE CRITERIA

As previously described on the CVR and SCRPs, the Site was characterized according to Table I in 19.15.29.12 of the New Mexico Administrative Code (NMAC), considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic freshwater well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

None of the potential receptors are within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in Figure 1A, Figure 1B, and Figure 1C in Appendix A. All referenced regional boring and/or well records are included in Appendix B.

Based on the results from the desktop review detailed in the CVR and SCRPs, the following Closure Criteria were applied and approved by the NMOCD:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]
Chloride	Environmental Protection Agency (EPA) 300.0	20,000 milligrams per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-Gasoline Range Organics (GRO)+ TPH-Diesel Range Organics	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8260B	50 mg/kg

[†]The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13

NMSLO COMPLIANCE

Based on a desktop review, the AOC is on a ROW located on an active NMSLO oil and gas lease (V043400004), currently managed by Devon. The AOC had the potential to impact adjacent ROWs in the area, so a Right-of-Entry (ROE) for remediation (RE-7442) was filed on February 27, 2025, and subsequently approved by the NMSLO Commercial Resources Division on March 14, 2025. A reissue of RE-7442 was filed on September 10, 2025, and was subsequently renewed on October 17, 2025, by the NMSLO Commercial Resources Division.

The Site's climate is mostly semi-arid to arid, featuring low rainfall and plenty of sunshine. According to the United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Soil Survey, most of the soil profile is comprised of Pyotite and Dune land with slopes ranging from 0 to 9 percent slope (Figure 1D). The soils' drainage ranges from well-drained to excessively drained. Additional soil characteristics and ecological descriptions are provided in the complete USDA NRCS Soil Survey and NRCS Ecological Site Descriptions in Appendix C.

CULTURAL PROPERTIES PROTECTION RULE

In accordance with the NMSLO Cultural Properties Protection (CPP) Rule (19.2.24 NMAC), Etech, on behalf of Devon, consulted with Lone Mountain Archaeological Services, Inc. (Lone Mountain) and determined that an intensive pedestrian survey would be required for undisturbed areas at the Site. On January 16, 2025, Lone Mountain conducted the survey and found no archaeological sites or historic properties. As such, Devon was authorized to proceed as proposed with remediation activities. A copy of the NMCRIIS Cultural Resources Cover Sheet (Activity Number: 157605) is provided in Appendix D.

BIOLOGICAL SENSITIVE AREAS

A desktop review was conducted in accordance with the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS), which identified that the Lesser Prairie Chicken (*Tympanuchus pallidicinctus*) Habitat Evaluation Area intersected the Area of Potential Effect (APE). Under the established Timing Limitation Stipulation, to minimize potential impacts on this species, all work activities on the Site were restricted during the critical nesting and breeding period from March 1st to June 15th. During this period, no work was conducted between 0300 and 0900 to reduce disturbances from noise and human activity. Notably, the APE area is categorized by the New Mexico Crucial Habitat Assessment Tool (NM CHAT) ranking 4, where 1 represents the most critical habitat and 6 the least (Figure 1E).

Given the AOC's proximity to a Federal Land boundary, Etech, on behalf of Devon, consulted with a Bureau of Land Management (BLM) botanist to assess the area. The botanist conducted a review and confirmed that no other Special Status Species (SSPS) were identified within the vicinity of the Site. Consequently, the BLM concluded that no further biological surveys were necessary at this time. The complete email correspondence documenting this evaluation can be referenced in Appendix K.

CONFIRMATIONSOIL SAMPLING ACTIVITIES

From October 31, 2025, to November 2, 2025, Etech directed the removal of identified soil impacts via heavy equipment in accordance with the proposed corrective actions outlined in the approved SCRPs and further driven by field screening results for volatile organic compounds (VOCs) utilizing

a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Following the completion of excavation activities, Etech collected 5-point composite confirmation excavation soil samples (FS01 through FS29 and SW01 through SW10) at a frequency of one sample per 200 square feet (sqft). Each composite consisted of five equal aliquots homogenized in a 1-gallon resealable plastic bag. The samples were then placed on ice and transported under strict chain-of-custody procedures to Envirotech, Inc. (Envirotech) in Farmington, New Mexico for analysis of COCs.

Approximately 1,472 cubic yards (CY) of impacted soil were removed from the Site and transported to Lea Land landfill disposal facility under Devon approved manifests. The excavation extents and location of excavation confirmation soil samples are shown in [Figure 2 in Appendix A](#). Photographic documentation of excavation activities is included in [Appendix F](#).

CONFIRMATION LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated that concentrations of COCs for all final confirmation excavation soil samples were below the applicable Site Closure Criteria. Laboratory analytical results are summarized in [Table 1](#), included in [Appendix G](#). The executed chain-of-custody forms and laboratory analytical results are provided in [Appendix H](#).

RECLAMATION

On November 17, 2025, the excavation areas (approximately 5,678 sq ft) were backfilled with approximately 1,472 CY of clean, locally sourced soil, and the Site was restored as close as practicable to its pre-existing grade to prevent ponding of water and erosion. Based on the soil profile for the Site, the areas will be reseeded with NMSLO Sandy (S) seed mixture, which will be hand-broadcasted over the entire disturbed area during the next favorable season, in accordance with NMSLO guidelines ([Appendix I](#)). The selected seed blend will provide the maximum results of vegetation regrowth and ground surface coverage to match pre-existing conditions at the Site. Site inspections will be performed annually to assess the revegetation progress and evaluate the Site for the presence or absence of primary and/or secondary noxious weeds. Upon confirmation that the percentage of vegetation cover and the life-form ratio fulfill the NMOCD and NMSLO definitions of "revegetation", a Revegetation Report will be prepared and submitted to the NMOCD and NMSLO requesting approval of the Site restoration. If no growth is shown within a year of the next favorable growing season, the Site will be reseeded accordingly. If noxious weeds are identified, Devon will address them accordingly.

Prior to initiating excavation backfilling activities, Etech collected four 5-point composite soil samples from the backfill stockpile (STKP01 through STKP04) to ensure non-waste containing, uncontaminated, earthen material would be used to backfill the excavation(s). The stockpile composite soil samples were collected, handled, and analyzed as previously described.

Concurrently with backfilling activities, Etech assessed the backfill material for its capacity to host vegetative growth. Two 5-point composite soil samples were collected as previously described from the backfilled excavations used as soil cover material for the excavation areas (SC01 and SC02). The soil samples were field screened for VOCs and chloride and qualitatively evaluated for nutrient density of pH, Nitrogen (N), Phosphorus (P), and Potassium (K) utilizing a HoldAll® Soil Test Kit according to the operating manual, which is included in [Appendix J](#).

Field screening and laboratory analytical results indicated the backfill material appears to correlate with surrounding soil conditions currently supporting native vegetative growth, as summarized in

Table 1, Table 2, and Table 3 included in Appendix G. The location of the reclaimed area is shown in Figure 3 in Appendix A. Photographic documentation of restoration activities is included in Appendix F.

CLOSURE REQUEST

Based on laboratory analytical results, Devon believes that residual soil impacts have been excavated and removed from the Site and the remediation area subsequently reclaimed “as close to its original state” as possible. Concentrations of COCs for all confirmation excavation soil samples were below the Site Closure Criteria and/or reclamation standard. As such, NFRA appears warranted at this time, and this CRRR associated with Incident Number nRM2016146439 should be respectfully considered for Closure by NMOCD and NMSLO.

If you have any questions or comments, please do not hesitate to contact Erick Herrera at (432) 305-6416 or erick@etechnv.com or Joseph S. Hernandez at (432) 305-6413 or joseph@etechnv.com. Appendix K provides correspondence and email notification receipts associated with the subject release.

Sincerely,

Etech Environmental and Safety Solutions, Inc.



Erick Herrera
Operations Manager, EGTG
Consultant, Geologist



Joseph S. Hernandez
Division Director, EGTG (TX and NM)
Environmental and Geoscience Technical Group

cc: Jim Raley, Devon
New Mexico Oil Conservation Division
New Mexico State Land Office

Appendices:

- Appendix A:** Figure 1: Site Map
 - Figure 1A: Site Characterization Map – Groundwater
 - Figure 1B: Site Characterization Map – Surficial Receptors
 - Figure 1C: Site Characterization Map – Subsurface Receptors
 - Figure 1D: Site Characterization Map – Surficial Receptors Soils
 - Figure 1E: Site Characterization Map – Surficial Receptors Biological
- Figure 2: Delineation Soil Sampling Locations

Figure 3: Excavation Soil Sampling Locations

Figure 4: Future Revegetation Areas

- Appendix B:** Referenced Well Records
- Appendix C:** USDA NRCS Web Soil Survey
- Appendix D:** NMSLO Cultural Cover Sheet
- Appendix E:** US Fish & Wildlife Service Threatened and Endangered Species Report
- Appendix F:** Photographic Log
- Appendix G:** Tables
- Appendix H:** Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix I:** NMSLO Site Seed Mixture
- Appendix J:** HoldAll® Operating Manual
- Appendix K:** Correspondence & Notifications

| Appendix A

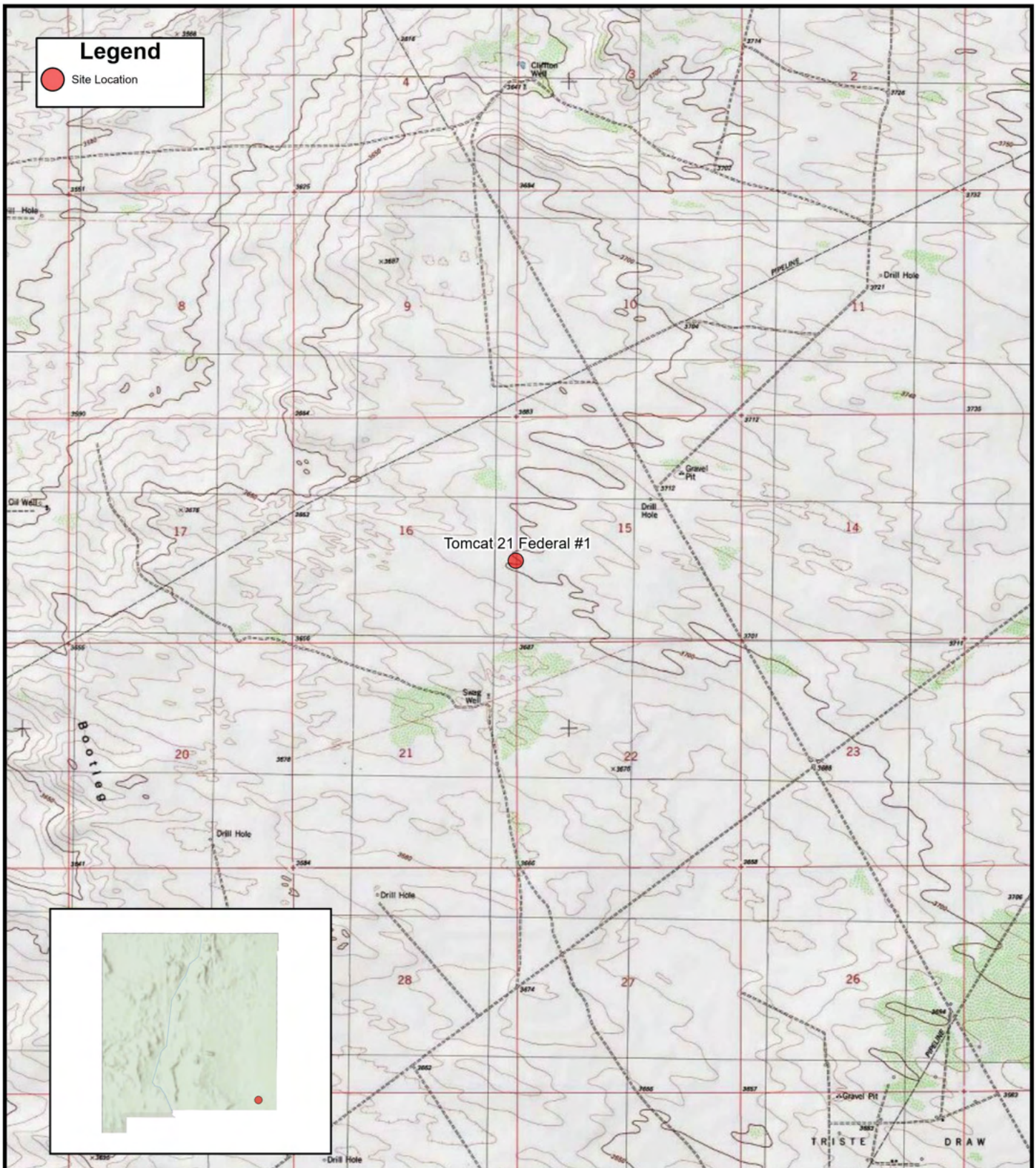


FIGURE 1

Site Location Map

Devon Energy Production Company, LP
Tomcat 21 Federal #1
Unit I Sec 16 T23S R32E
Lea County, New Mexico



0 2,100 4,200 Feet

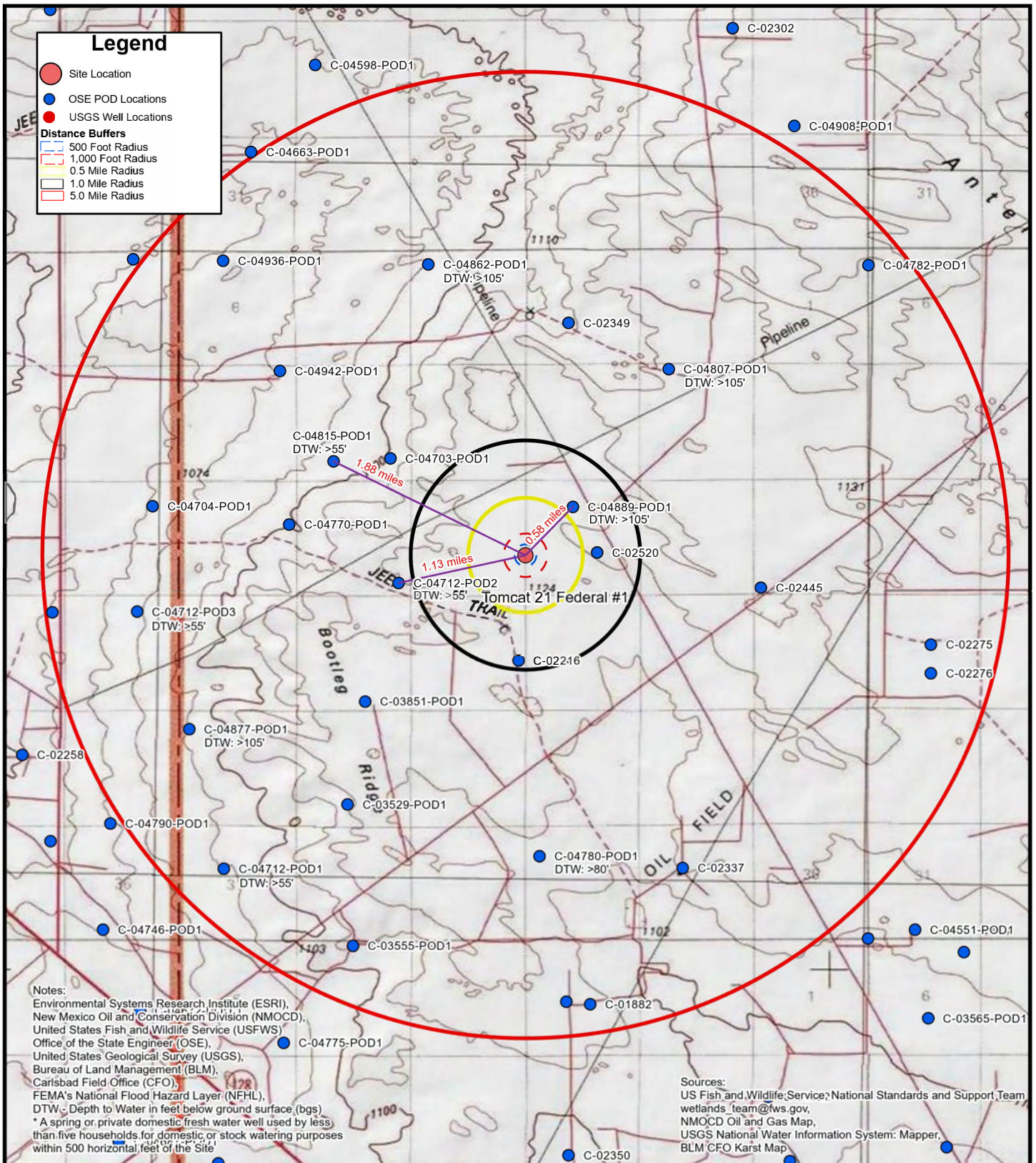
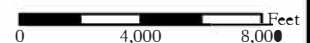


FIGURE 1A
Site Characterization Map
Groundwater

Devon Energy Production Company, LP
Tomcat 21 Federal #1
Unit I Sec 16 T23S R32E
Lea County, New Mexico



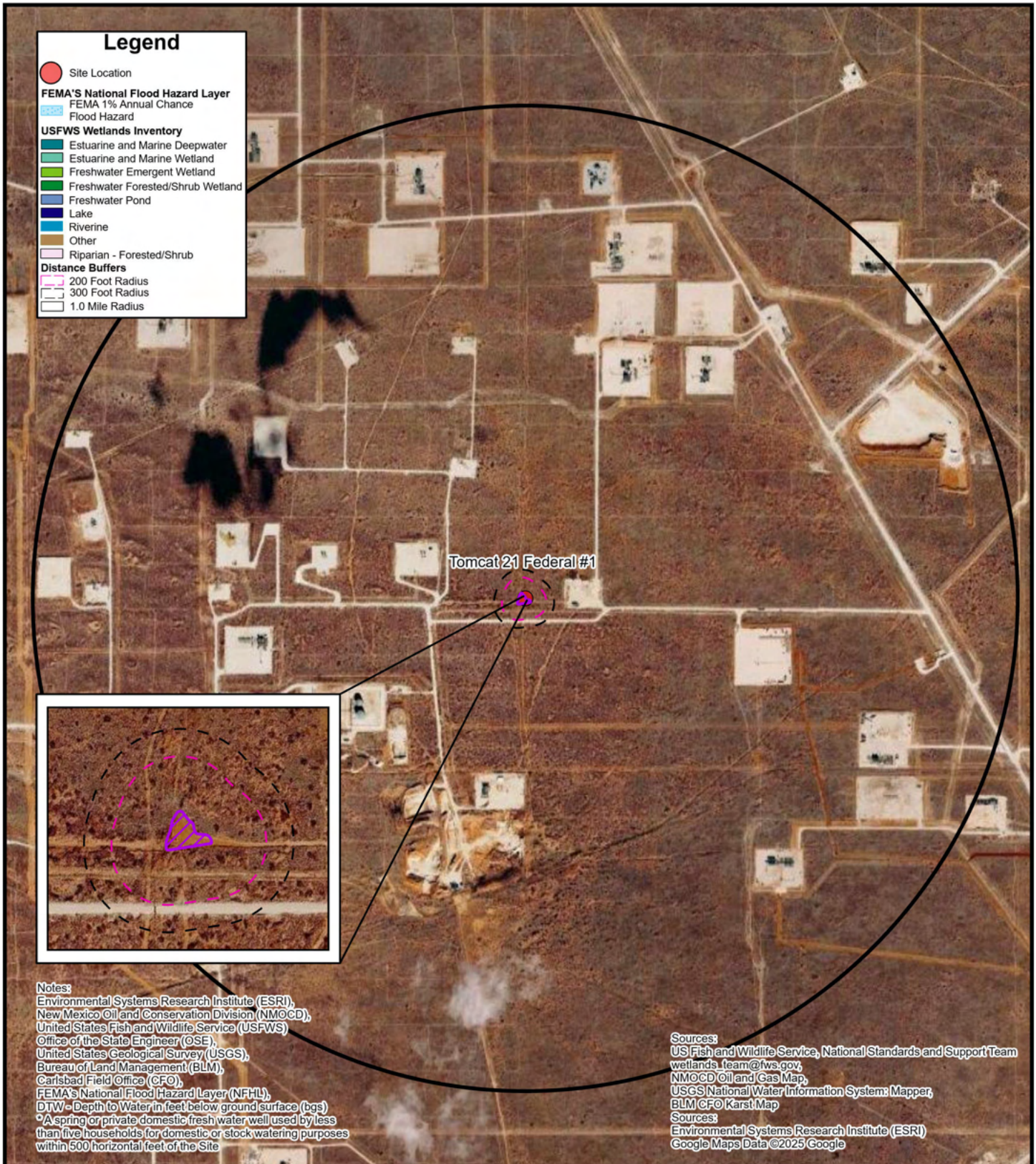
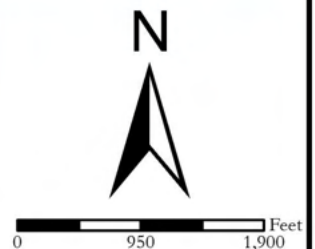


FIGURE 1B
Site Characterization Map
Surficial Receptors

Devon Energy Production Company, LP
 Tomcat 21 Federal #1
 Unit I Sec 16 T23S R32E
 Lea County, New Mexico



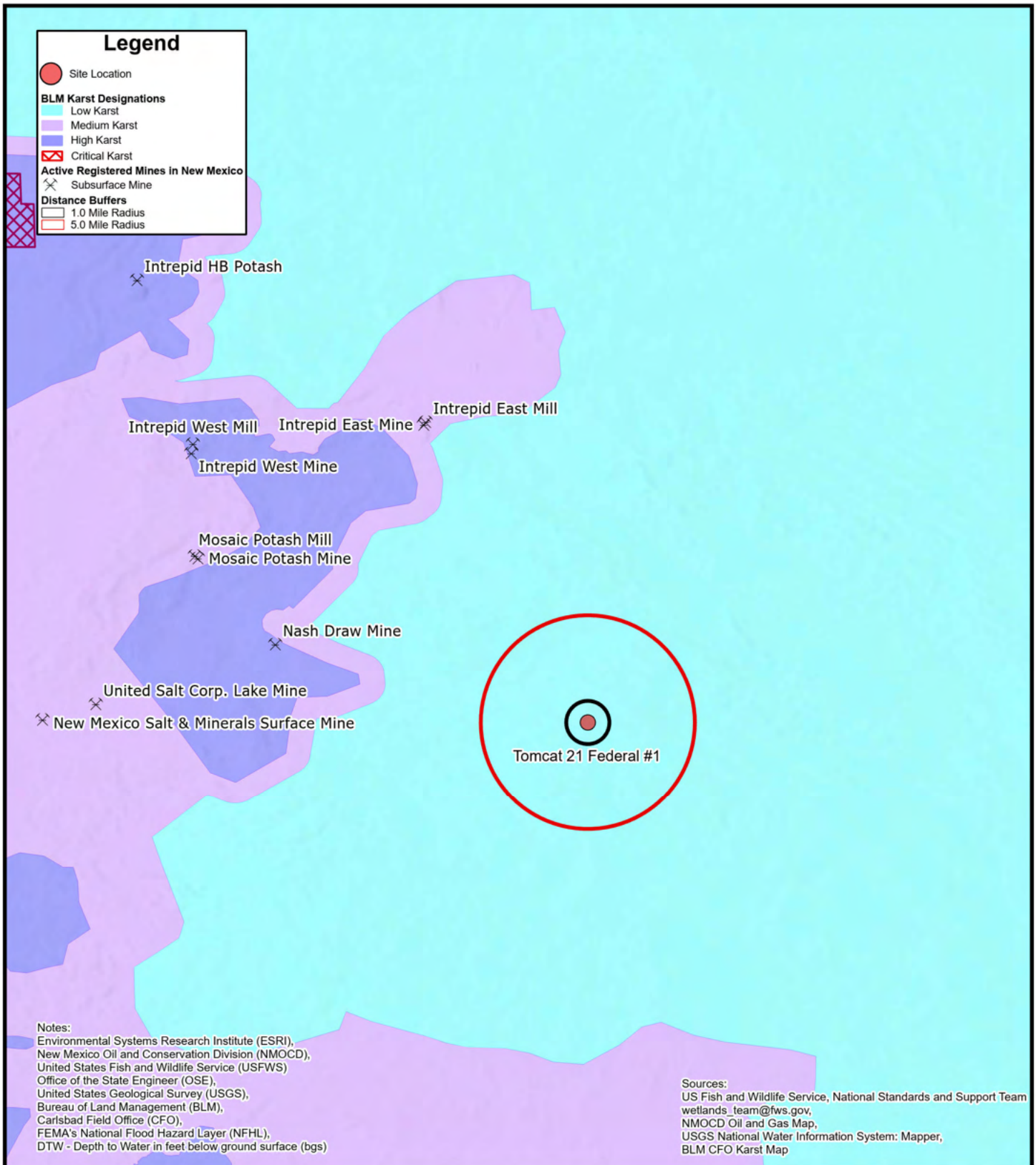
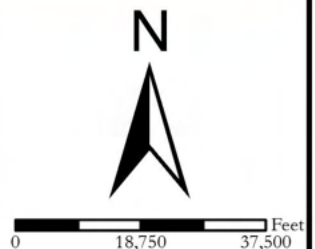


FIGURE 1C
Site Characterization Map
Subsurface Receptors

Devon Energy Production Company, LP
 Tomcat 21 Federal #1
 Unit I Sec 16 T23S R32E
 Lea County, New Mexico



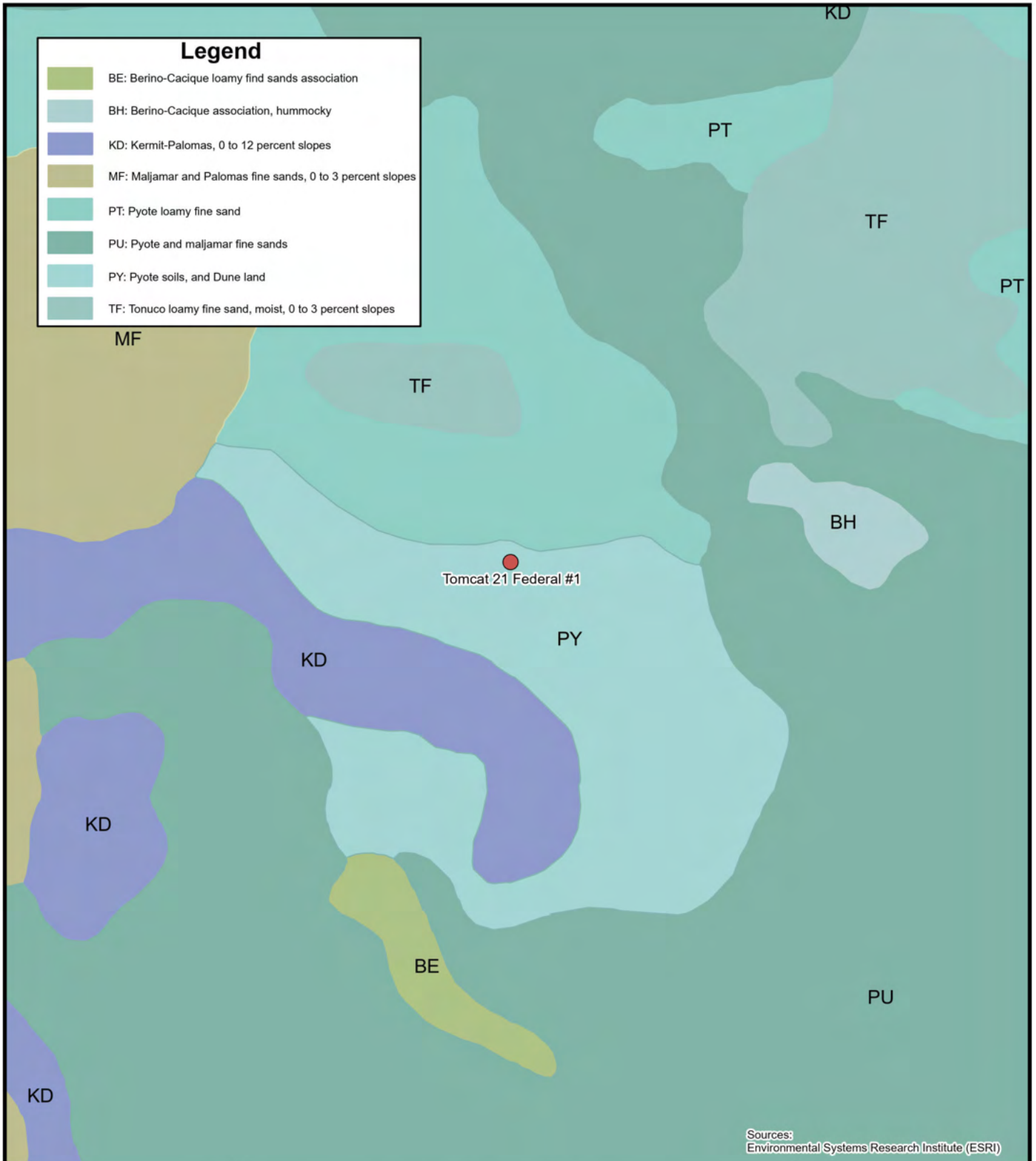
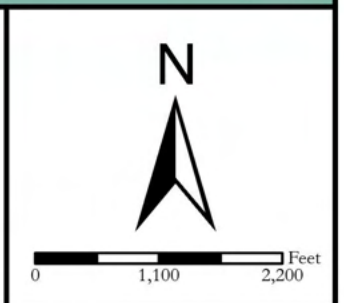


FIGURE 1D
**Site Characterization Map
Surficial Receptors - Soils**
Devon Energy Production Company, LP
Tomcat 21 Federal #1
Unit 1 Sec 16 T23S R32E
Lea County, New Mexico



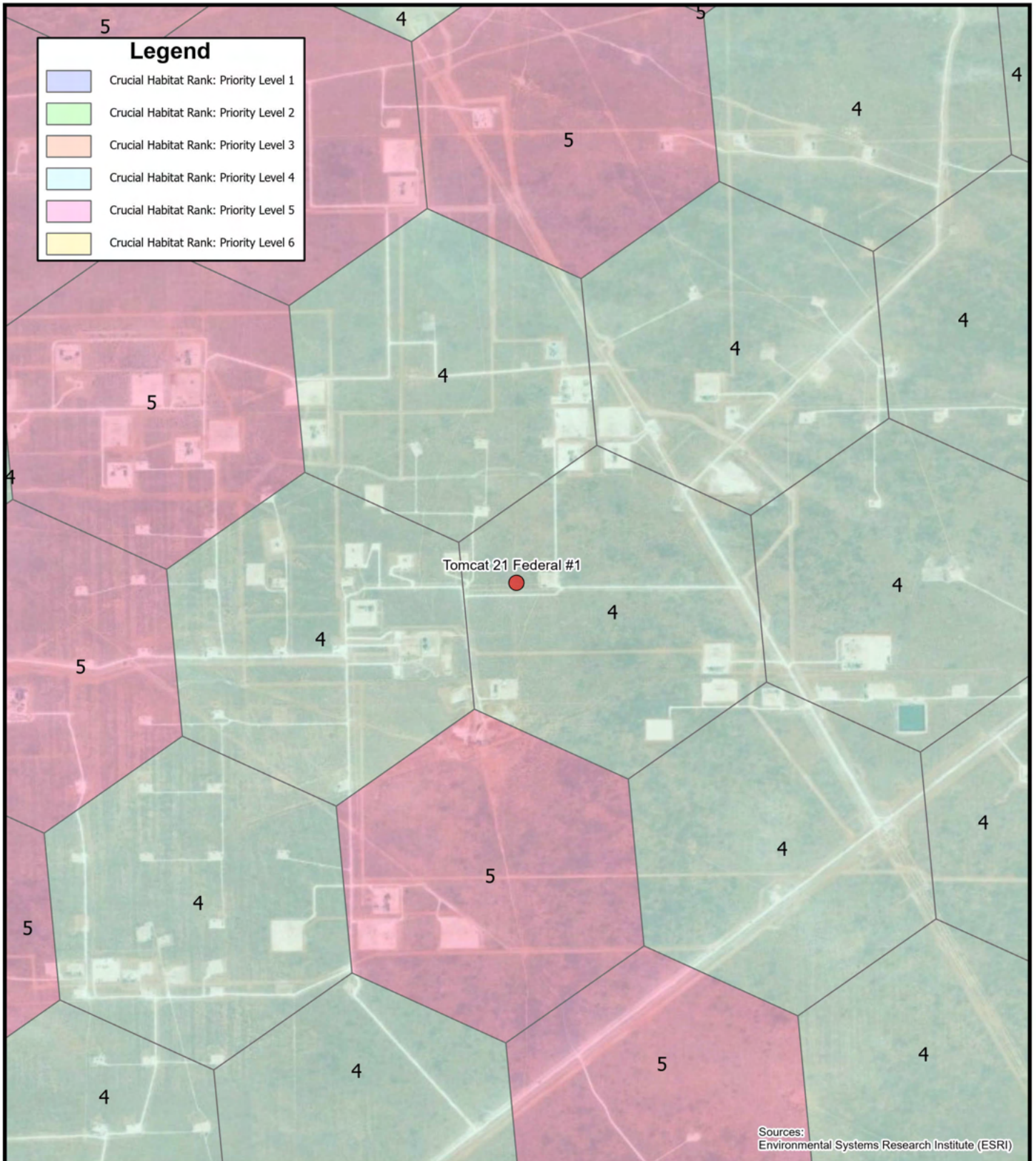


FIGURE 1E

**Site Characterization Map
Surficial Receptors - Biological**

Devon Energy Production Company, LP
Tomcat 21 Federal #1
Unit 1 Sec 16 T23S R32E
Lea County, New Mexico



0 1,750 3,500 Feet

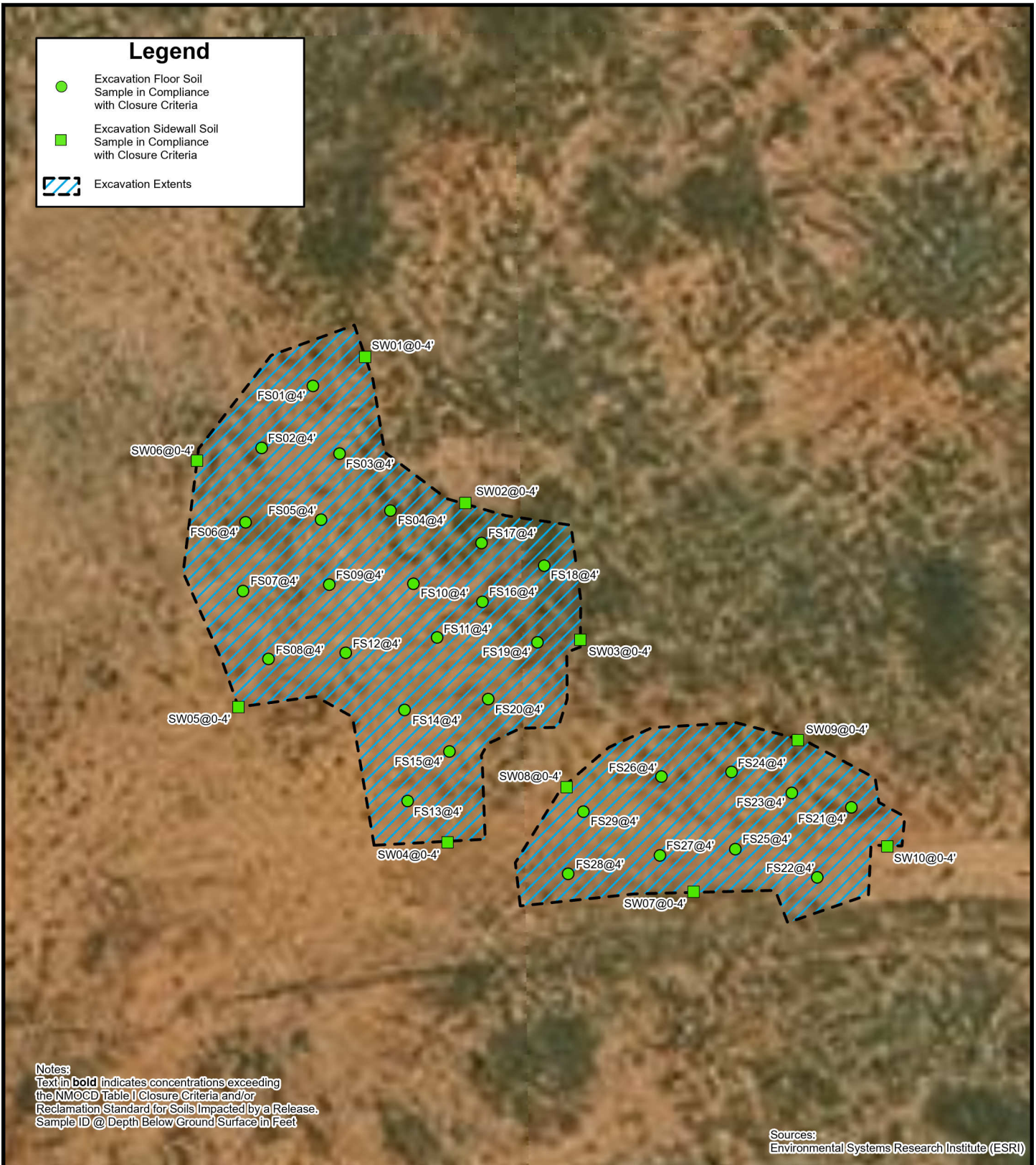
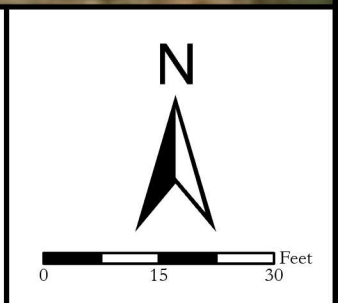


FIGURE 2
Excavation Soil Sample Locations

Devon Energy Production Company, LP
 Tomcat 21 Federal #1
 Unit 1 Sec 16 T23S R32E
 Lea County, New Mexico



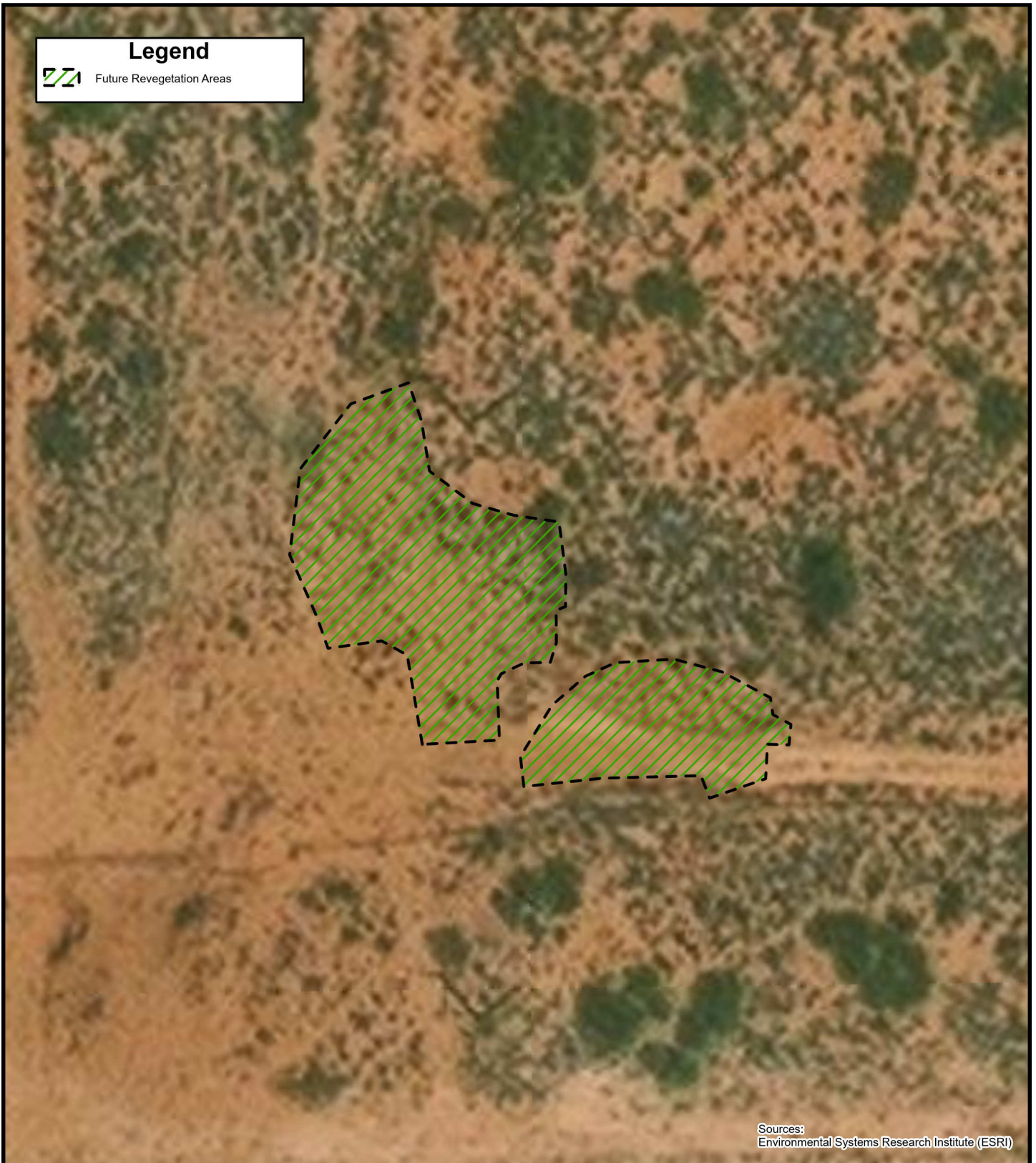
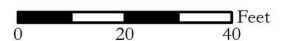


FIGURE 3

Future Revegetation Areas

Devon Energy Production Company, LP
Tomcat 21 Federal #1
Unit 1 Sec 16 T23S R32E
Lea County, New Mexico



| Appendix B

P.O. Box 62228 Midland TX 79711 Tel: 432-563-2200 Fax: 432-563-2213



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1		WELL TAG ID NO. N/A		OSE FILE NO(S). C-04889 POD1			
	WELL OWNER NAME(S) Devon Energy Production Company, LP				PHONE (OPTIONAL) 575-689-7597			
	WELL OWNER MAILING ADDRESS 5315 Buena Vista Dr				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32		MINUTES 18	SECONDS 30.96	N		* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84
		LONGITUDE 103		39	50.45	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit C, Section 15, Township 23S, Range 32E, Lea County, NM								

2. DRILLING & CASING INFORMATION	LICENSE NO. WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc		
	DRILLING STARTED 10/21/2024	DRILLING ENDED 10/21/2024	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
0	105	5.00	Soil Boring					

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				N/A		

OSE DII ROSWELL NM
16 DEC '24 04:10:29

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 04/30/19)		
FILE NO.	C-04889	POD NO.	1	TRN NO.	768314
LOCATION	23S. 32E. 1S. 421	WELL TAG ID NO.	—	PAGE 1 OF 2	

DEPTH (feet bgl)	THICKNESS (feet)		COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			
0	10	10	Sand with Silt, Red to Medium Brown, Coarse to Very Fine	Y ✓ N	
10	20	10	Sand with Gravel, Light Brown to Tan, Medium to Coarse with Gravel	Y ✓ N	
20	30	10	Gravel with Sand, White to Tan, Small to Large with Medium to Coarse	Y ✓ N	
30	40	10	Sand with Gravel, Medium to Light Brown, Coarse to Fine with Gravel	Y ✓ N	
40	50	10	Sand with Gravel, Light Brown to Tan, Coarse to Fine with Gravel	Y ✓ N	
50	60	10	Silty Sand, Light Brown to Red, Coarse to Very Fine	Y ✓ N	
60	70	10	Inter-bedded Sandstone and Sand, Medium Brown, Medium to Coarse	Y ✓ N	
70	80	10	Clayey Sand, Dark to Medium Brown, Medium to Fine Grained	Y ✓ N	
80	90	10	Clayey Sand, Dark to Medium Brown, Medium to Fine Grained	Y ✓ N	
90	100	10	Clayey Sand, Dark Red to Medium Brown, Medium to Fine Grained	Y ✓ N	
100	105	5	Silty Sand, Light Brown to Tan, Coarse to Fine Grained	Y ✓ N	
105	105	0	Silty Sand, Tan to Green, Coarse to Fine Grained	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:				TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					

4. HYDROGEOLOGIC LOG OF WELL

5. TEST; RIG SUPERVISION

WELL TEST TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.

OSE DII ROSWELL NM
16 DEC '24 AM 10:29

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:
Scott Scarborough

6. SIGNATURE

BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.

Scott Scarborough 12/13/2024
SIGNATURE OF DRILLER / PRINT SIGNED NAME DATE

FOR OSE INTERNAL USE

FILE NO. C-04889 POD NO. 1 TRN NO. 768314

235. 82E. 15. 421

WR-20 WELL RECORD & LOG (Version 04/30/2019)



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4712 POD 2		WELL TAG ID NO.		OSE FILE NO(S) C-4712	
	WELL OWNER NAME(S) Harvard Petroleum Company				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS P.O. Box 936				CITY Roswell	STATE NM
					ZIP 88202	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 17	SECONDS 56.4	N * ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84	
	LONGITUDE -103	41	24.2	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE						

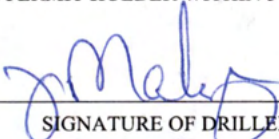
2. DRILLING & CASING INFORMATION	LICENSE NO. 1833	NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources		
	DRILLING STARTED 3-9-2023	DRILLING ENDED 3-9-2023	DEPTH OF COMPLETED WELL (FT) 55	BORE HOLE DEPTH (FT) 55	DEPTH WATER FIRST ENCOUNTERED (FT) Dry		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) Dry	DATE STATIC MEASURED Dry	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
				None			

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 09/22/2022)		
FILE NO.	C-4712-POD 2	POD NO.	2	TRN NO.	743189
LOCATION	Mon 23.32.17.444			WELL TAG ID NO.	_____
					PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)		ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO			Y	N	
	0	35	35	White Caliche	Y	(N)	
	35	55	55	Red Fine Sand Dry	Y	(N)	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
					Y	N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): Dry		

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
		MISCELLANEOUS INFORMATION: hole would not stay open past 35' Plugged no water
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: OSE DJJ APR 4 2023 PML:23	

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:	
		 SIGNATURE OF DRILLER / PRINT SIGNEE NAME

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO. C-4712-POD 2	POD NO. 2	TRN NO. 743189	
LOCATION Mon 23.32.17.444	WELL TAG ID NO.		PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 743189
File Nbr: C 04712
Well File Nbr: C 04712 POD2

Apr. 04, 2023

VERTEX RESOURCES
P.O. BOX 936
ROSWELL, NM 88202

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink that reads "Maret Thompson".

Maret Thompson
(575) 622-6521

drywell



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04815 POD 1		WELL TAG ID NO.		OSE FILE NO(S) C-4815-POD1	
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE NM
					ZIP 88240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 18	SECONDS 51.8	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND
	LONGITUDE	-103	41	59.4	W	* DATUM REQUIRED: WGS 84
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE						

2. DRILLING & CASING INFORMATION	LICENSE NO. 1833	NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources			
	DRILLING STARTED 4-16-24	DRILLING ENDED 4-16-24	DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) 0'	DATE STATIC MEASURED 4-16-24		
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:					CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>		
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	45	6"	PVC 2" SCH40	Thread	2"	SCH40	N/A
	45	55	6"	PVC 2" SCH40	Thread	2"	SCH40	.02

OSE OIT APR 25 2024 PM 2:37

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				None pulled and plugged		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)			
FILE NO.	C-04815	POD NO.	1	TRN NO.	757440
LOCATION	236.32E.08.143	WELL TAG ID NO.		PAGE 1 OF 2	

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 757440
File Nbr: C 04815
Well File Nbr: C 04815 POD1

Apr. 25, 2024

CHANCE DIXON
VERTEX RESOURCE SERVICES INC
3101 BOYD DRIVE
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 03/14/2024.

The Well Record was received in this office on 04/25/2024, stating that it had been completed on 04/16/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/14/2025.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script that reads "Rodolfo Chavez".

Rodolfo Chavez
(575) 622-6521

drywell



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 04889 POD1		CUB	LE	SE	NE	NW	15	23S	32E	625771.5	3575426.3	●	949	105		
C 02216		CUB	LE	NE	NE	SE	21	23S	32E	625035.0	3573261.0 *	●	1483	585	400	185
C 04712 POD2		CUB	LE	SE	SE	SE	17	23S	32E	623331.9	3574331.5	●	1827	55		
C 04815 POD1		CUB	LE	NW	SE	SW	08	23S	32E	622391.9	3576025.7	●	3008	55		
C 03851 POD1		CUB	LE	SW	SW	SE	20	23S	32E	622879.6	3572660.0	●	3053	1392	713	679
C 04807 POD1		CUB	LE	NW	NE	NW	11	23S	32E	627099.7	3577375.0	●	3298	105		
C 02349		CUB	ED	SE	NE	SW	03	23S	32E	625677.9	3578003.4	●	3309	525		
C 04780 POD1		CUB	LE	NW	SW	NW	34	23S	32E	625363.6	3570521.7	●	4227	80		
C 04862 POD1		CUB	LE	NE	NW	NW	04	23S	32E	623697.0	3578798.5	●	4296	105	78	27
C 03529 POD1		C	LE	NE	SE	SW	29	23S	32E	622651.2	3571212.5	●	4303	550		
C 04704 POD1		CUB	ED	SW	NE	NE	13	23S	31E	619854.4	3575363.5	●	5295			
C 04877 POD1		CUB	LE	SE	NW	NW	30	23S	32E	620404.8	3572240.0	●	5331	105		
C 04712 POD3		CUB	ED	SE	NW	NE	24	23S	31E	619650.7	3573877.9	●	5530	55		
C 02275		CUB	LE	SW	SW	NE	19	23S	33E	630843.0	3573557.0 *	●	5851	650	400	250
C 02276		CUB	LE	SW	NW	SE	19	23S	33E	630848.0	3573154.0 *	●	5950	650	400	250
C 03555 POD1		C	LE	NE	NE	NW	05	24S	32E	622748.5	3569233.6	●	5994	600	380	220
C 04712 POD1		CUB	LE	NW	SE	NW	31	23S	32E	620917.2	3570289.2	●	6118	55		
C 03527 POD1		C	LE	NW	NE	SW	03	24S	32E	625769.7	3568487.2	●	6289	500		
C 04774 POD1		CUB	ED	SE	NE	NE	23	23S	31E	618456.0	3573856.4	●	6715	105		
C 04663 POD1		CUB	LE	SW	NW	NE	31	22S	32E	621181.3	3580341.4	●	6841	110		
C 04726 POD1		CUB	ED	NW	NW	SE	01	23S	31E	619538.3	3578821.3	●	6907			
C 04790 POD1		CUB	ED	SE	SE	SW	25	23S	31E	619309.4	3570904.8	●	6957	55		
C 04598 POD1		CUB	LE	NE	SW	NW	29	22S	32E	622069.2	3581570.2	●	7475	56		
C 04712 POD4		CUB	ED	NW	SE	SW	14	23S	31E	617535.4	3574316.2	●	7589	55		
C 04551 POD1		CUB	LE	SE	SE	SW	31	23S	33E	630671.0	3569556.5	●	7601			
C 02258		C	ED		SW	NE	26	23S	31E	618055.0	3571853.0 *	●	7626	662		
C 04775 POD1		CUB	LE	SE	SE	SE	06	24S	32E	621789.3	3567860.4	●	7642	105		
C 02277		CUB	LE	NE	SW	SE	20	23S	33E	632663.0	3572970.0 *	●	7755	550	400	150
C 04855 POD1		CUB	ED	NE	SW	SW	11	23S	31E	617417.6	3575936.7	●	7787	105		
C 04746 POD1		CUB	ED	SW	SE	SW	36	23S	31E	619225.7	3569417.8	●	7937	105		

Average Depth to Water: **395 feet**

Minimum Depth: **78 feet**

Maximum Depth: **713 feet**

Record Count: 30

| Appendix C

P.O. Box 62228 Midland TX 79711 Tel: 432-563-2200 Fax: 432-563-2213



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

Custom Soil Resource Report for Lea County, New Mexico



February 24, 2026

Preface

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

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

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

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

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

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

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How Soil Surveys Are Made

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

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

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

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

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

Custom Soil Resource Report

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

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

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

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

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

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

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

Custom Soil Resource Report

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

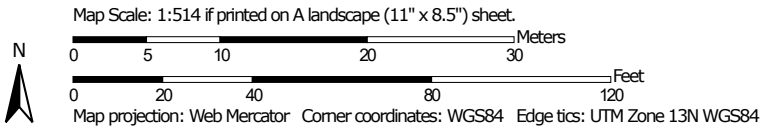
Soil Map

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

Custom Soil Resource Report Soil Map




Soil Map may not be valid at this scale.



Custom Soil Resource Report


MAP LEGEND


Area of Interest (AOI)

 Area of Interest (AOI)


Soils


 Soil Map Unit Polygons


 Soil Map Unit Lines


 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit


 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop


 Saline Spot

 Sandy Spot

 Severely Eroded Spot


 Sinkhole


 Slide or Slip

 Sodic Spot


 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other


 Special Line Features

Water Features

 Streams and Canals


Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

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

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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

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

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

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

Soil Survey Area: Lea County, New Mexico
 Survey Area Data: Version 22, Sep 9, 2025

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

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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

Custom Soil Resource Report

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
PY	Pyote soils and Dune land	1.4	100.0%
Totals for Area of Interest		1.4	100.0%

Map Unit Descriptions

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

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

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

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

Custom Soil Resource Report

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

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

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

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

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

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

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

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

Custom Soil Resource Report

Lea County, New Mexico**PY—Pyote soils and Dune land****Map Unit Setting**

National map unit symbol: dmqr
Landscape: Sandhills
Elevation: 3,000 to 4,400 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 64 degrees F
Frost-free period: 190 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Pyote and similar soils: 46 percent
Dune land: 44 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pyote**Setting**

Landscape: Sandhills
Landform: Depressions
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 30 inches: fine sand
Bt - 30 to 60 inches: fine sandy loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 2.0
Available water supply, 0 to 60 inches: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Ecological site: R070BD003NM - Loamy Sand

Custom Soil Resource Report

Hydric soil rating: No

Description of Dune Land

Setting

Landscape: Sandhills

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Convex, linear

Across-slope shape: Convex

Parent material: Sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 6 inches: fine sand

C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8

Hydrologic Soil Group: A

Hydric soil rating: No

Minor Components

Kermit

Percent of map unit: 5 percent

Ecological site: R070BC022NM - Sandhills

Hydric soil rating: No

Maljamar, fine sand

Percent of map unit: 3 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

Soil Information for All Uses

Ecological Sites

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

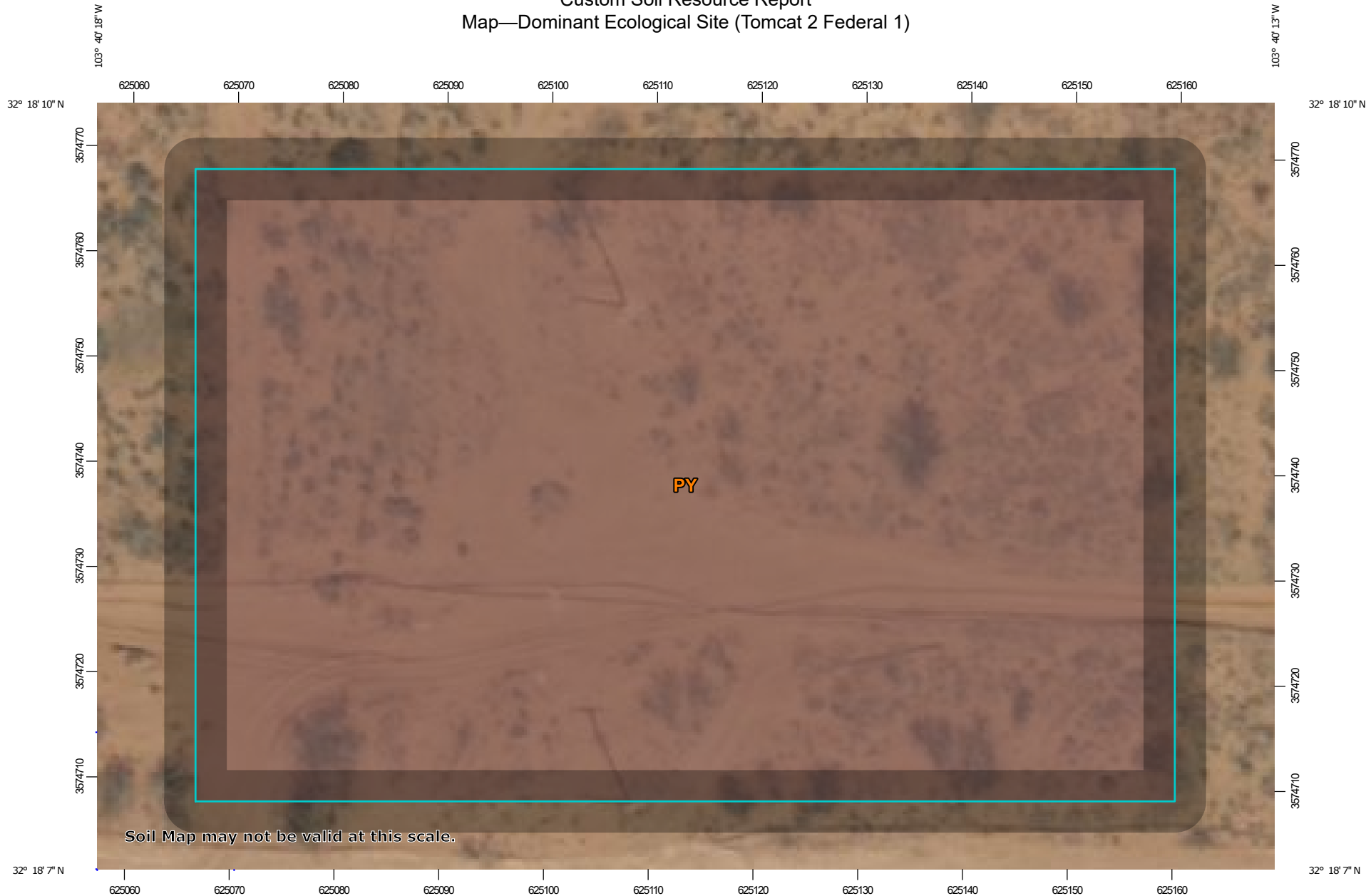
All Ecological Sites — (Tomcat 2 Federal 1)

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

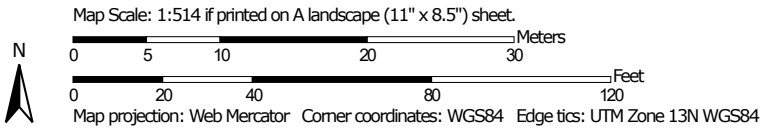
An ecological site name provides a general description of a particular ecological site. For example, "Loamy Upland" is the name of a rangeland ecological site. An "ecological site ID" is the symbol assigned to a particular ecological site.

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

Custom Soil Resource Report Map—Dominant Ecological Site (Tomcat 2 Federal 1)




Soil Map may not be valid at this scale.



Custom Soil Resource Report



MAP LEGEND

Area of Interest (AOI)



 Area of Interest (AOI)

Soils



Soil Rating Polygons

 R070BD003NM
 Not rated or not available


Soil Rating Lines

 R070BD003NM
 Not rated or not available






Soil Rating Points

 R070BD003NM
 Not rated or not available

Water Features

 Streams and Canals

Transportation

 Rails
 Interstate Highways
 US Routes
 Major Roads
 Local Roads

Background

 Aerial Photography

MAP INFORMATION

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

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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

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

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

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

Soil Survey Area: Lea County, New Mexico
 Survey Area Data: Version 22, Sep 9, 2025

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

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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

Custom Soil Resource Report

**Table—Ecological Sites by Map Unit Component
(Tomcat 2 Federal 1)**

Map unit symbol	Map unit name	Component name (percent)	Ecological site	Acres in AOI	Percent of AOI
PY	Pyote soils and Dune land	Pyote (46%)	R070BD003NM — Loamy Sand	1.4	100.0%
		Dune land (44%)			
		Kermit (5%)	R070BC022NM — Sandhills		
		Maljamar, fine sand (3%)	R070BD003NM — Loamy Sand		
		Wink (2%)	R070BD003NM — Loamy Sand		
Totals for Area of Interest				1.4	100.0%

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Custom Soil Resource Report

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Ecological site R070BD003NM Loamy Sand

Accessed: 02/24/2026

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.

Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Associated sites

R070BD004NM	Sandy Sandy
R070BD005NM	Deep Sand Deep Sand

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site is on uplands, plains, dunes, fan piedmonts and in inter dunal areas. The parent material consists of mixed alluvium and or eolian sands derived from sedimentary rock. Slope range on this site range from 0 to 9 percent with the average of 5 percent.

Low stabilized dunes may occur occasionally on this site. Elevations range from 2,800 to 5,000 feet.

Table 2. Representative physiographic features

Landforms	(1) Fan piedmont (2) Alluvial fan (3) Dune
Elevation	2,800–5,000 ft
Slope	0–9%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity-short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer. The average frost-free season is 207 to 220 days. The last killing frost being late March or early April and the first killing frost being in later October or early November. Temperature and rainfall both favor warm season perennial plant growth. In years of abundant spring moisture, annual forbs and cool season grasses can make up an important component of this site. Strong winds blow from the southwest from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from <http://www.wrcc.sage.dri.edu/summary/climsmnm.html> web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are moderately deep or very deep. Surface textures are loamy fine sand, fine sandy loam, loamy very fine sand or gravelly sandy loam.

Subsurface is a loamy fine sand, coarse sandy loam, fine sandy loam or loam that averages less than 18 percent clay and less than 15 percent carbonates.

Substratum is a fine sandy loam or gravelly fine sandy loam with less than 15 percent gravel and with less than 40 percent calcium carbonate. Some layers high in lime or with caliche fragments may occur at depths of 20 to 30 inches.

These soils, if unprotected by plant cover and organic residue, become wind blown and low hummocks are formed.

Minimum and maximum values listed below represent the characteristic soils for this site.

Characteristic soils are:

Maljamar

Berino

Parjarito

Palomas

Wink

Pyote

Table 4. Representative soil features

Surface texture	(1) Fine sand (2) Fine sandy loam (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to somewhat excessively drained
Permeability class	Moderate to moderately rapid
Soil depth	40–72 in
Surface fragment cover ≤3"	0–10%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	5–7 in
Calcium carbonate equivalent (0-40in)	3–40%
Electrical conductivity (0-40in)	2–4 mmhos/cm

Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–8.4
Subsurface fragment volume <=3" (Depth not specified)	4–12%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

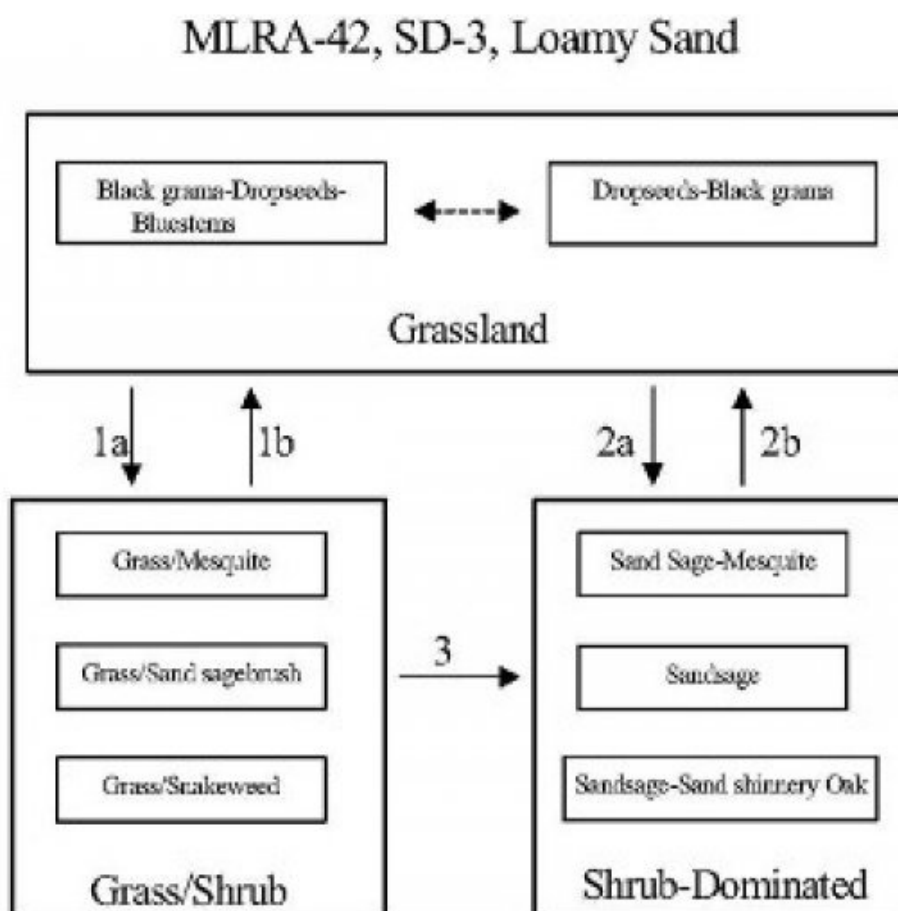
Overview

The Loamy Sand site intergrades with the Deep Sand and Sandy sites (SD-3). These sites can be differentiated by surface soil texture and depth to a textural change. Loamy Sand and Deep Sand sites have coarse textured (sands and loamy sand) surface soils while Sandy sites have moderately coarse textured (sandy loam and fine sandy loam) surfaces. Although Loamy Sand and Deep Sand sites have similar surface textures, the depth to a textural change is different—Loamy Sand sub-surface textures typically increase in clay at approximately 20 to 30 inches, and Deep Sand sites not until around 40 inches.

The historic plant community of Loamy Sand sites is dominated by black grama (*Bouteloua eriopoda*), dropseeds (*Sporobolus flexuosus*, *S. contractus*, *S. cryptandrus*), and bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), with scattered shinnery oak (*Quercus havardii*) and sand sage (*Artemisia filifolia*). Perennial and annual forb abundance and distribution are dependent on precipitation. Litter and to a lesser extent, bare ground, are a significant proportion of ground cover while grasses compose the remainder. Decreases in black grama indicate a transition to either a grass/shrub or shrub-dominated state. The grass/shrub state is composed of grasses/honey mesquite (*Prosopis glandulosa*), grasses/broom snakeweed (*Gutierrezia sarothrae*), or grasses/sand sage. The shrub-dominated state occurs after a severe loss of grass cover and a prevalence of sand sage with secondary shinnery oak and mesquite. Heavy grazing intensity and/or drought are influential drivers in decreasing black grama and bluestems and subsequently increasing shrub cover, erosion, and bare patches. Historical fire suppression also encourages shrub pervasiveness and a competitive advantage over grass species (McPherson 1995). Brush and grazing management, however, may reverse grass/shrub and shrub-dominated states toward the grassland-dominated historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram):



- 1a. Drought, over grazing, fire suppression.
- 1b. Brush control, prescribed grazing

- 2.a Severe loss of grass cover, fire suppression, erosion.
- 2b. Brush control, seeding, prescribed grazing.

- 3. Continued loss of grass cover, erosion.

**State 1
Historic Climax Plant Community**

**Community 1.1
Historic Climax Plant Community**

Grassland: The historic plant community is a uniformly distributed grassland dominated by black grama, dropseeds, and bluestems. Sand sage and shinnery oak are evenly dispersed throughout the grassland due to the coarse soil surface texture. Perennial and annual forbs are common but their abundance and distribution are reflective of precipitation. Bluestems initially, followed by black grama, decrease with drought and heavy grazing intensity. Historical fire frequency is unknown but likely occurred enough to remove small shrubs to the competitive advantage of grass species. Fire suppression, drought conditions, and excessive grazing drive most grass species out of competition with shrub species. Diagnosis: Grassland dominated by black grama, dropseeds, and bluestems. Shrubs, such as sand sage, shinnery oak, and mesquite are dispersed throughout the grassland. Forbs are present and populations fluctuate with precipitation variability.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	442	833	1224
Forb	110	208	306
Shrub/Vine	98	184	270
Total	650	1225	1800

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	28%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	50%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	22%

Figure 5. Plant community growth curve (percent production by month). NM2803, R042XC003NM-Loamy Sand-HCPC. SD-3 Loamy Sand - Warm season plant community .

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

**State 2
Grass/Shrub**

**Community 2.1
Grass/Shrub**

Grass/Shrub



- *Blade grass/Mesquite community, with some dropseeds, threeawns, and scattered sand shiner oak
- * Grass cover low to moderate

Grass/Shrub State: The grass/shrub state is dominated by communities of grasses/mesquite, grasses/snakeweed, or grasses/sand sage. Decreases in black grama and bluestem species lead to an increase in bare patches and mesquite which further competes with grass species. An increase of dropseeds and threeawns occurs. Grass distribution becomes more patchy with an absence or severe decrease in black grama and bluestems. Mesquite provides nitrogen and soil organic matter to co-dominant grasses (Ansley and Jacoby 1998, Ansley et al. 1998). Mesquite mortality when exposed

to fire is low due to aggressive resprouting abilities. Herbicide application combined with subsequent prescribed fire may be more effective in mesquite reduction (Britton and Wright 1971). Diagnosis: This state is dominated by an increased abundance of communities including grass/mesquite, grass/snakeweed, or grass/sand sage. Dropseeds and threeawns have a patchy distribution. Transition to Grass/Shrub State (1a): The historic plant community begins to shift toward the grass/shrub state as drivers such as drought, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by a decrease in black grama with a subsequent increase of dropseeds, threeawns, mesquite, and snakeweed. Snakeweed has been documented to outcompete black grama especially under conditions of fire suppression and drought (McDaniel et al. 1984). Key indicators of approach to transition: • Loss of black grama cover • Surface soil erosion • Bare patch expansion • Increased dropseed/threeawn and mesquite, snakeweed, or sand sage abundances Transition to Historic Plant Community (1b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community.

State 3

Shrub Dominated

Community 3.1

Shrub Dominated

Shrub-Dominated State: The shrub-dominated state results from a severe loss of grass cover. This state's primary species is sand sage. Shinnery oak and mesquite also occur; however, grass cover is limited to intershrub distribution. Sand sage stabilizes light sandy soils from wind erosion, which enhances protected grass/forb cover (Davis and Bonham 1979). However, shinnery oak also responds to the sandy soils with dense stands due to an aggressive rhizome system. Shinnery oak's extensive root system promotes competitive exclusion of grasses and forbs. Sand sage, shinnery oak, and mesquite can be controlled with herbicide (Herbel et al. 1979, Pettit 1986). Transition to Shrub-Dominated (2a): Severe loss of grass species with increased erosion and fire suppression will result in a transition to a shrub-dominated state with sand sage, Shin oak, and honey mesquite directly from the grassland-dominated state. Key indicators of approach to transition: • Severe loss of grass species cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite abundance Transition to Historic Plant Community (2b): Brush and grazing management may restore the grassland component and reverse shrub or grass/shrub dominated states back toward the historic plant community. In addition, seeding with native grass species will augment the transition to a grassland-dominated state. Transition to Shrub-Dominated (3): If the grass/shrub site continues to lose grass cover with soil erosion, the site will transition to a shrub-dominated state with sand sage, shinnery oak, and honey mesquite. Key indicators of approach to transition: • Continual loss of dropseeds/threeawns cover • Surface soil erosion • Bare patch expansion • Increased sand sage, shinnery oak, and mesquite/dropseed/threeawn

and mesquite/snakeweed abundance

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass/Grasslike					
1	Warm Season			61–123	
	little bluestem	SCSC	<i>Schizachyrium scoparium</i>	61–123	–
2	Warm Season			37–61	
	sand bluestem	ANHA	<i>Andropogon hallii</i>	37–61	–
3	Warm Season			37–61	
	cane bluestem	BOBA3	<i>Bothriochloa barbinodis</i>	37–61	–
	silver bluestem	BOSA	<i>Bothriochloa saccharoides</i>	37–61	–
4	Warm Season			123–184	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	123–184	–
	bush muhly	MUPO2	<i>Muhlenbergia porteri</i>	123–184	–
5	Warm Season			123–184	
	thin paspalum	PASE5	<i>Paspalum setaceum</i>	123–184	–
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	123–184	–
	fringed signalgrass	URCI	<i>Urochloa ciliatissima</i>	123–184	–
6	Warm Season			123–184	
	spike dropseed	SPCO4	<i>Sporobolus contractus</i>	123–184	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	123–184	–
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	123–184	–
7	Warm Season			61–123	
	hooded windmill grass	CHCU2	<i>Chloris cucullata</i>	61–123	–
	Arizona cottontop	DICA8	<i>Digitaria californica</i>	61–123	–
9	Other Perennial Grasses			37–61	
	Grass, perennial	2GP	<i>Grass, perennial</i>	37–61	–
Shrub/Vine					
8	Warm Season			37–61	
	New Mexico feathergrass	HENE5	<i>Hesperostipa</i>	37–61	–

			<i>neomexicana</i>		
	giant dropseed	SPGI	<i>Sporobolus giganteus</i>	37–61	–
10	Shrub			61–123	
	sand sagebrush	ARFI2	<i>Artemisia filifolia</i>	61–123	–
	Havard oak	QUHA3	<i>Quercus havardii</i>	61–123	–
11	Shrub			34–61	
	fourwing saltbush	ATCA2	<i>Atriplex canescens</i>	37–61	–
	featherplume	DAFO	<i>Dalea formosa</i>	37–61	–
12	Shrub			37–61	
	jointfir	EPHED	<i>Ephedra</i>	37–61	–
	littleleaf ratany	KRER	<i>Krameria erecta</i>	37–61	–
13	Other Shrubs			37–61	
	Shrub (>.5m)	2SHRUB	<i>Shrub (>.5m)</i>	37–61	–
Forb					
14	Forb			61–123	
	leatherweed	CRPOP	<i>Croton pottsii var. pottsii</i>	61–123	–
	Indian blanket	GAPU	<i>Gaillardia pulchella</i>	61–123	–
	globemallow	SPHAE	<i>Sphaeralcea</i>	61–123	–
15	Forb			12–37	
	woolly groundsel	PACA15	<i>Packera cana</i>	12–37	–
16	Forb			61–123	
	touristplant	DIWI2	<i>Dimorphocarpa wislizeni</i>	61–123	–
	woolly plantain	PLPA2	<i>Plantago patagonica</i>	61–123	–
17	Other Forbs			37–61	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	37–61	–

Animal community

This Ecological Site provides habitat which supports a resident animal community that is characterized by pronghorn antelope, desert cottontail, spotted ground squirrel, black-tailed prairie dog, yellow faced pocket gopher, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, roadrunner, meadowlark, burrowing owl, white necked raven, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake, dusty hognose snake and ornate box turtle.

Where mesquite has invaded, most resident birds and scissor-tailed flycatcher, morning dove and Swainson's hawk, nest. Vesper and grasshopper sparrows utilize the site during migration.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations

Soil Series Hydrologic Group

Berino B

Kinco A

Maljamar B

Pajarito B

Palomas B

Wink B

Pyote A

Recreational uses

This site offers recreation potential for hiking, borseback riding, nature observation, photography and hunting. During years of abundant spring moisture, this site displays a colorful array of wildflowers during May and June.

Wood products

This site has no potential for wood products.

Other products

This site is suitable for grazing by all kinds and classes of livestock at any time of year. In cases where this site has been invaded by brush species it is especially suited for goats. Mismanagement of this site will cause a decrease in species such as the bluestems, black grama, bush muhly, plains bristlegrass, New Mexico feathergrass, Arizona cottontop and fourwing saltbush. A corresponding increase in the dropseeds, windmill grass, fall witchgrass, silver bluestem, sand sagebrush, shiner oak and ephedra will occur. This will also cause an increase in bare ground which will increase soil erodibility. This site will respond well to a system of management that rotates the season of use.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM

100 - 76 2.3 – 3.5

75 – 51 3.0 – 4.5

50 – 26 4.6 – 9.0

25 – 0 9.1 +

Inventory data references

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

Literature Cited:

Ansley, R. J.; Jacoby, P. W. 1998. Manipulation of fire intensity to achieve mesquite management goals in north Texas. In: Pruden, Teresa L.; Brennan, Leonard A., eds. Fire in ecosystem management: shifting the paradigm from suppression to prescription: Proceedings, Tall Timbers fire ecology conference; 1996 May 7-10; Boise, ID. No. 20. Tallahassee, FL: Tall Timbers Research Station: 195-204.

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Britton, Carlton M.; Wright, Henry A. 1971. Correlation of weather and fuel variables to mesquite damage by fire. *Journal of Range Management* 24:136-141.

Davis, Joseph H., III and Bonham, Charles D. 1979. Interference of sand sagebrush canopy with needleandthread. *Journal of Range Management* 32(5):384-386.

Herbel, C. H, Steger, R, Gould, W. L. 1974. Managing semidesert ranges of the Southwest Circular 456. Las Cruces, NM: New Mexico State University, Cooperative Extension Service. 48 p.

McDaniel, Kirk C.; Pieper, Rex D.; Loomis, Lyn E.; Osman, Abdelgader A. 1984. Taxonomy and ecology of perennial snakeweeds in New Mexico. Bulletin 711. Las Cruces, NM: New Mexico State University, Agricultural Experiment Station. 34 p.

McPherson, Guy R. 1995. The role of fire in the desert grasslands. In: McClaran, Mitchel P.; Van Devender, Thomas R., eds. *The desert grassland*. Tucson, AZ: The University of Arizona Press: 130-151.

Pettit, Russell D. 1986. Sand shinnery oak: control and management. Management Note 8. Lubbock, TX: Texas Tech University, College of Agricultural Sciences, Department of Range and Wildlife Management. 5 p.

Contributors

Don Sylvester
 Quinn Hodgson

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

Indicators

1. **Number and extent of rills:**

2. **Presence of water flow patterns:**

3. **Number and height of erosional pedestals or terracettes:**

4. **Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):**

5. **Number of gullies and erosion associated with gullies:**

6. **Extent of wind scoured, blowouts and/or depositional areas:**

7. **Amount of litter movement (describe size and distance expected to travel):**

8. **Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):**

9. **Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):**

10. **Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:**

11. **Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):**

12. **Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):**

Dominant:

Sub-dominant:

Other:

Additional:

13. **Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):**

14. **Average percent litter cover (%) and depth (in):**

15. **Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):**

16. **Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:**

17. **Perennial plant reproductive capability:**

| Appendix D

P.O. Box 62228 Midland TX 79711 Tel: 432-563-2200 Fax: 432-563-2213



Stephanie Garcia Richard, Commissioner of Public Lands
State of New Mexico

NMSLO Cultural Resources Cover Sheet Exhibit A

NMCRIS Activity Number: 157605

(if applicable)

Exhibit Type (select one)

ARMS Inspection/Review - Summarize the results (select one):

- (A) The entire area of potential effect or project area has been previously surveyed to current standards and **no cultural properties** were found within the survey area.
- (B) The entire area of potential effect or project area has been previously surveyed to current standards and **cultural properties were found** within the survey area.
- (C) The entire area of potential effect or project area has **not** been previously surveyed or **has not been surveyed** to current standards. A complete archaeological survey will be conducted and submitted for review.

Archaeological Survey

Findings:

Negative - No further archaeological review is required.

Positive - Have avoidance and protection measures been devised? Select one:

Comments:

Project Details:

NMSLO Lease Number (if available): GO2355, VO43400004,

Cultural Resources Consultant: Lone Mountain Archaeological Services, Inc.

Project Proponent (Applicant): E-tech Environmental

Project Title/Description: Tomcat 21 ROW Remediation

Project Location:

County(ies): Lea

PLSS/Section/Township/Range): S15-16/T23S/R32E

For NMSLO Agency Use Only:

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

No person may alter the wording of the questions or layout of the cover sheet. The completion of this cover sheet by itself does not authorize anyone to engage in new surface disturbing activity before the review and approvals required by the Cultural Properties Protections Rule.

Form Revised 12 22

| Appendix E

P.O. Box 62228 Midland TX 79711 Tel: 432-563-2200 Fax: 432-563-2213

IPaC

U.S. Fish & Wildlife Service

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Lea County, New Mexico



Local office

New Mexico Ecological Services Field Office

☎ (505) 346-2525

📅 (505) 346-2542

2105 Osuna Road Ne
Albuquerque, NM 87113-1001

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

-
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information. IPaC only shows species that are regulated by USFWS (see FAQ).
 2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Birds

NAME	STATUS
Lesser Prairie-chicken <i>Tympanuchus pallidicinctus</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1924	Endangered
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> No critical habitat has been designated for this species. https://ecos.fws.gov/ecp/species/1923	EXPN

Clams

NAME	STATUS
Texas Hornshell <i>Popenaias popeii</i> Wherever found There is proposed critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/919	Endangered

Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found There is proposed critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/9743	Proposed Threatened

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

Bald and Golden Eagles are protected under the Bald and Golden Eagle Protection Act ² and the Migratory Bird Treaty Act (MBTA) ¹. Any person or organization who plans or conducts activities that may result in impacts to Bald or Golden Eagles, or their nests, should follow appropriate regulations and implement required avoidance and minimization measures, as described in the various links on this page.

The [data](#) in this location indicates that no eagles have been observed in this area. This does not mean eagles are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the [Supplemental Information on Migratory Birds and Eagles document](#) to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine if eagles may be present (e.g. your local FWS field office, state surveys, your own surveys).

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds <https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf>
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

Bald & Golden Eagles FAQs

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply).

Proper interpretation and use of your eagle report

On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort line or no data line (red horizontal) means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests

might be present). The list and associated information help you know what to look for to confirm presence and helps guide you in knowing when to implement avoidance and minimization measures to eliminate or reduce potential impacts from your project activities or get the appropriate permits should presence be confirmed.

How do I know if eagles are breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If an eagle on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Migratory birds

The Migratory Bird Treaty Act (MBTA) ¹ prohibits the take (including killing, capturing, selling, trading, and transport) of protected migratory bird species without prior [authorization](#) by the Department of Interior U.S. Fish and Wildlife Service (FWS).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Eagle Management <https://www.fws.gov/program/eagle-management>
- Measures for avoiding and minimizing impacts to birds <https://www.fws.gov/library/collections/avoiding-and-minimizing-incident-take-migratory-birds>
- Nationwide avoidance and minimization measures for birds
- Supplemental Information for Migratory Birds and Eagles in IPaC <https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action>

The [data](#) in this location indicates that no migratory birds of concern have been observed in this area. This does not mean [birds of concern](#) are not present in your project area, especially if the area is difficult to survey. Please review the 'Steps to Take When No Results Are Returned' section of the [Supplemental Information on Migratory Birds and Eagles document](#) to determine if your project is in a poorly surveyed area. If it is, you may need to rely on other resources to determine what migratory birds of concern may be present (e.g. your local FWS field office, state surveys, your own surveys).

Migratory Bird FAQs

Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Avoidance & Minimization Measures for Birds](#) describes measures that can help avoid and minimize impacts to all birds at any location year-round. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is one of the most effective ways to minimize impacts. To see when birds are most likely to occur and breed in your project area, view the Probability of Presence Summary. [Additional measures](#) or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location, such as those listed under the Endangered Species Act or the [Bald and Golden Eagle Protection Act](#) and those species marked as "Vulnerable". See the FAQ "What are the

levels of concern for migratory birds?" for more information on the levels of concern covered in the IPaC migratory bird species list.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) with which your project intersects. These species have been identified as warranting special attention because they are BCC species in that area, an eagle ([Bald and Golden Eagle Protection Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, and to verify survey effort when no results present, please visit the [Rapid Avian Information Locator \(RAIL\) Tool](#).

Why are subspecies showing up on my list?

Subspecies profiles are included on the list of species present in your project area because observations in the AKN for **the species** are being detected. If the species are present, that means that the subspecies may also be present. If a subspecies shows up on your list, you may need to rely on other resources to determine if that subspecies may be present (e.g. your local FWS field office, state surveys, your own surveys).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating, or resident), you may query your location using the [RAIL Tool](#) and view the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your IPaC migratory bird species list has a breeding season associated with it (indicated by yellow vertical bars on the phenology graph in your "IPaC PROBABILITY OF PRESENCE SUMMARY" at the top of your results list), there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and

3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Bald and Golden Eagle Protection Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially BCC species. For more information on avoidance and minimization measures you can implement to help avoid and minimize migratory bird impacts, please see the FAQ "Tell me more about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Proper interpretation and use of your migratory bird report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please look carefully at the survey effort (indicated by the black vertical line) and for the existence of the "no data" indicator (a red horizontal line). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list does not represent all birds present in your project area. It is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list and associated information help you know what to look for to confirm presence and helps guide implementation of avoidance and minimization measures to eliminate or reduce potential impacts from your project activities, should presence be confirmed. To learn more about avoidance and minimization measures, visit the FAQ "Tell me about avoidance and minimization measures I can implement to avoid or minimize impacts to migratory birds".

Interpreting the Probability of Presence Graphs

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. A taller bar indicates a higher probability of species presence. The survey effort can be used to establish a level of confidence in the presence score.

How is the probability of presence score calculated? The calculation is done in three steps:

The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.

The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season ()

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data ()

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.

Facilities

Wildlife refuges and fish hatcheries

Refuge and fish hatchery information is not available at this time

Wetlands in the National Wetlands Inventory (NWI)

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

This location did not intersect any wetlands mapped by NWI.

NOTE: This initial screening does **not** replace an on-site delineation to determine whether wetlands occur. Additional information on the NWI data is provided below.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

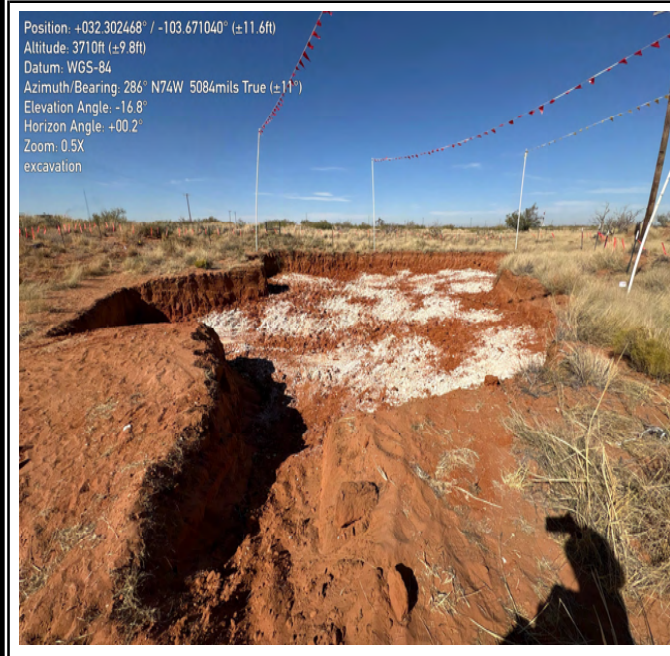
Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

| Appendix F

P.O. Box 62228 Midland TX 79711 Tel: 432-563-2200 Fax: 432-563-2213



PHOTOGRAPHIC LOG
Devon Production Company, LP
Tomcat 21 Federal #1
Incident Number: nRM2016146439



Photograph 1 **Date: 11/03/2025**
Description: Northwestern view of the northern excavation.



Photograph 2 **Date: 11/03/2025**
Description: Southwestern view of northern excavation.



Photograph 3 **Date: 11/03/2025**
Description: Northwestern view of southern excavation.



Photograph 4 **Date: 11/04/2025**
Description: Southeastern view of southern excavation.



PHOTOGRAPHIC LOG
Devon Production Company, LP
Tomcat 21 Federal #1
Incident Number: nRM2016146439

Position: +032.302392° / -103.671306° (±11.5ft)
Altitude: 3709ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 054° N54E 0960mils True (±11°)
Elevation Angle: -09.3°
Horizon Angle: -00.5°
Zoom: 0.5X
tomcat 21 ROW



Photograph 5 **Date: 12/16/2025**
Description: Northeastern view of the backfilled northern excavation.

Position: +032.302451° / -103.671040° (±11.6ft)
Altitude: 3712ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 295° N65W 5244mils True (±11°)
Elevation Angle: -16.2°
Horizon Angle: -00.3°
Zoom: 0.5X
tomcat 21 ROW



Photograph 6 **Date: 12/16/2025**
Description: Northwestern view of the backfilled southern excavation.

Position: +032.301957° / -103.671177° (±11.6ft)
Altitude: 3713ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 203° S23W 3609mils True (±11°)
Elevation Angle: -58.6°
Horizon Angle: +01.9°
Zoom: 0.5X
tomcat 21 ROW SC02



Photograph 7 **Date: 12/16/2025**
Description: View of nutrient testing activities for soil cover soil samples (SC01).

Position: +032.301942° / -103.671196° (±15.6ft)
Altitude: 3712ft (±13.2ft)
Datum: WGS-84
Azimuth/Bearing: 212° S32W 3769mils True (±11°)
Elevation Angle: -57.9°
Horizon Angle: +06.9°
Zoom: 0.5X
tomcat 21 ROW SC02



Photograph 8 **Date: 12/16/2025**
Description: View of nutrient testing activities for soil cover soil samples (SC02).

| Appendix G

P.O. Box 62228 Midland TX 79711 Tel: 432-563-2200 Fax: 432-563-2213



**Table 1
CONFIRMATION EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS
Devon Energy Production Company, LP
Tomcat 21 Federal #1
Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Excavation Soil Samples - Incident Number nRM2016146439										
FS01	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,020
FS02	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,700
FS03	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,200
FS04	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,850
FS05	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,060
FS06	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,190
FS07	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,310
FS08	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,910
FS09	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,160
FS10	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	7,980
FS11	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,430
FS12	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,900
FS13	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,680
FS14	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,600
FS15	11/03/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	998
FS16	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	10,000
FS17	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,940
FS18	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	12,600
FS19	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,420
FS20	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,700
FS21	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,450
FS22	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,570
FS23	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,850
FS24	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,970
FS25	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,910
FS26	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,180
FS27	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	7,100



**Table 1
CONFIRMATION EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS
Devon Energy Production Company, LP
Tomcat 21 Federal #1
Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS28	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	8,670
FS29	11/04/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	11,800
SW01*	11/03/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	102
SW02*	11/03/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	54.5
SW03*	11/03/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	30.9
SW04*	11/03/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	45.0
SW05*	11/03/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	98.8
SW06*	11/03/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	179
SW07*	11/03/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	107
SW08*	11/03/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	235
SW09*	11/03/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	206
SW10*	11/03/2025	0-4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	142

Notes:
 bgs: below ground surface
 mg/kg: milligrams per kilogram
 BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
 GRO: Gasoline Range Organics
 DRO: Diesel Range Organics
 ORO: Oil Range Organics
 TPH: Total Petroleum Hydrocarbon
 NMOCD: New Mexico Oil Conservation Division
 NMAC: New Mexico Administrative Code
 Text in "grey" represents excavated soil samples
 Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard* for Soils Impacted by a Release
 * * * Soil sample was collected in the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13, if exceeding the reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH.



**Table 2
BACKFILL SOIL SAMPLE ANALYTICAL RESULTS
Devon Energy Production Company, LP
Tomcat 21 Federal #1
Lee County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Backfill Stockpile Soil Samples - nRM2016146439										
STKP01	10/20/2025	-	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
STKP02	10/20/2025	-	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
STKP03	10/20/2025	-	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
STKP04	10/20/2025	-	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0

Notes:
 bgs: below ground surface
 mg/kg: milligrams per kilogram
 BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
 GRO: Gasoline Range Organics
 DRO: Diesel Range Organics
 ORO: Oil Range Organics
 TPH: Total Petroleum Hydrocarbon
 NMOCD: New Mexico Oil Conservation Division
 NMAC: New Mexico Administrative Code
 Text in "grey" represents excavated soil samples
 "-" symbol: sample depth is not applicable
 Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard¹ for Soils Impacted by a Release
¹ ** The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.



**Table 3
SOIL SAMPLE FIELD SCREENING RESULTS
Devon Energy Production Company, LP
Tomcat 21 Federal #1
Lea County, New Mexico**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Nitrogen	Potash	Phosphorous	PH (ppm)	VOCs (ppm)	Chloride (ppm)
Reclamation Soil Samples								
BG01	12/16/2025	0-0.25	Very Low	Low	Low	7.5	0.3	<128
SC01	12/16/2025	0-0.25	Very Low	Low	Low	7.5	0.2	<128
SC02	12/16/2025	0-0.25	Very Low	Low	Low	7.5	0.4	<128

Notes:
bgs: below ground surface
ppm: parts per million

| Appendix H

P.O. Box 62228 Midland TX 79711 Tel: 432-563-2200 Fax: 432-563-2213

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E511052

Job Number: 01058-0007

Received: 11/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/12/25



Anna Byers
333 W Sheridan Avenue
Oklahoma City, OK 73102-5010

Project Name: TOMCAT 21 FEDERAL #001
Workorder: E511052
Date Received: 11/7/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2025 8:00:00AM, under the Project Name: TOMCAT 21 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 FEDERAL #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
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Sample Summary

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/25 17:42
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS01 4'	E511052-01A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS02 4'	E511052-02A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS03 4'	E511052-03A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS04 4'	E511052-04A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS05 4'	E511052-05A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS06 4'	E511052-06A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS07 4'	E511052-07A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS08 4'	E511052-08A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS09 4'	E511052-09A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS10 4'	E511052-10A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS11 4'	E511052-11A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS12 4'	E511052-12A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS13 4'	E511052-13A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS14 4'	E511052-14A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
FS15 4'	E511052-15A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS01 4'

E511052-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		113 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		98.2 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	3020	40.0	2	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS02 4'

E511052-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		111 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		94.4 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	3700	40.0	2	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS03 4'

E511052-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		98.4 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	4200	40.0	2	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS04 4'

E511052-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		97.7 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	3850	40.0	2	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS05 4'

E511052-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		99.7 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	4060	40.0	2	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS06 4'

E511052-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	3190	40.0	2	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS07 4'

E511052-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		114 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	4310	40.0	2	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS08 4'

E511052-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		113 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	1910	40.0	2	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS09 4'

E511052-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		99.6 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	8160	100	5	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS10 4'

E511052-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		113 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		99.6 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	7980	100	5	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS11 4'

E511052-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		113 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	8430	100	5	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS12 4'

E511052-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		113 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/11/25	
<i>Surrogate: n-Nonane</i>		97.8 %	61-141	11/07/25	11/11/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	1900	40.0	2	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS13 4'

E511052-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		111 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/11/25	
<i>Surrogate: n-Nonane</i>						
		101 %	61-141	11/07/25	11/11/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	4680	40.0	2	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS14 4'

E511052-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/11/25	
<i>Surrogate: n-Nonane</i>		98.3 %	61-141	11/07/25	11/11/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	8600	100	5	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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FS15 4'

E511052-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		113 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/11/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/11/25	
<i>Surrogate: n-Nonane</i>						
		97.9 %	61-141	11/07/25	11/11/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	998	20.0	1	11/10/25	11/10/25	



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545145-BLK1)

Prepared: 11/07/25 Analyzed: 11/11/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.37		8.00		105	70-130			

LCS (2545145-BS1)

Prepared: 11/07/25 Analyzed: 11/11/25

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	4.85	0.0250	5.00		97.0	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.91	0.0250	5.00		98.2	70-130			
p,m-Xylene	9.90	0.0500	10.0		99.0	70-130			
Total Xylenes	14.8	0.0250	15.0		98.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.47		8.00		106	70-130			

Matrix Spike (2545145-MS1)

Source: E511051-03

Prepared: 11/07/25 Analyzed: 11/11/25

Benzene	5.19	0.0250	5.00	ND	104	70-130			
Ethylbenzene	4.90	0.0250	5.00	ND	98.0	70-130			
Toluene	5.10	0.0250	5.00	ND	102	70-130			
o-Xylene	4.97	0.0250	5.00	ND	99.3	70-130			
p,m-Xylene	10.0	0.0500	10.0	ND	100	70-130			
Total Xylenes	15.0	0.0250	15.0	ND	99.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.42		8.00		105	70-130			

Matrix Spike Dup (2545145-MSD1)

Source: E511051-03

Prepared: 11/07/25 Analyzed: 11/11/25

Benzene	4.78	0.0250	5.00	ND	95.5	70-130	8.38	27	
Ethylbenzene	4.54	0.0250	5.00	ND	90.8	70-130	7.70	26	
Toluene	4.70	0.0250	5.00	ND	94.0	70-130	8.10	20	
o-Xylene	4.59	0.0250	5.00	ND	91.8	70-130	7.93	25	
p,m-Xylene	9.28	0.0500	10.0	ND	92.8	70-130	7.58	23	
Total Xylenes	13.9	0.0250	15.0	ND	92.4	70-130	7.70	26	
Surrogate: 4-Bromochlorobenzene-PID	8.46		8.00		106	70-130			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545145-BLK1)

Prepared: 11/07/25 Analyzed: 11/11/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.63		8.00		108	70-130			

LCS (2545145-BS2)

Prepared: 11/07/25 Analyzed: 11/11/25

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		8.00		109	70-130			

Matrix Spike (2545145-MS2)

Source: E511051-03

Prepared: 11/07/25 Analyzed: 11/11/25

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.63		8.00		108	70-130			

Matrix Spike Dup (2545145-MSD2)

Source: E511051-03

Prepared: 11/07/25 Analyzed: 11/11/25

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.5	70-130	11.1	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.74		8.00		109	70-130			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545150-BLK1)

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	43.1		50.0		86.1	61-141			

LCS (2545150-BS1)

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	231	25.0	250		92.5	66-144			
Surrogate: <i>n</i> -Nonane	44.9		50.0		89.8	61-141			

Matrix Spike (2545150-MS1)

Source: E511052-01

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.7	56-156			
Surrogate: <i>n</i> -Nonane	47.1		50.0		94.2	61-141			

Matrix Spike Dup (2545150-MSD1)

Source: E511052-01

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.4	56-156	0.752	20	
Surrogate: <i>n</i> -Nonane	48.2		50.0		96.4	61-141			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:42:02PM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2546028-BLK1)

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride	ND	20.0							
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LCS (2546028-BS1)

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride	260	20.0	250		104	90-110			
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Matrix Spike (2546028-MS1)

Source: E511052-15

Prepared: 11/10/25 Analyzed: 11/11/25

Chloride	1190	20.0	250	998	75.3	80-120			M2
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Matrix Spike Dup (2546028-MSD1)

Source: E511052-15

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride	1200	20.0	250	998	81.5	80-120	1.31	20	
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QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/25 17:42
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M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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





Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.				E511052		010584007					X	X			
Project Manager: Anna Byers				City, State, Zip: Carlsbad, NM, 88220															
Address: 13000 W County Rd 100				Phone: 575-885-7502															
City, State, Zip: Odessa, TX, 79765				Email: ilm.raley@dvn.com															
Phone: 432-305-6415				Miscellaneous: WO: 1007085301; PN: 19304;															
Email: NMTXGeoGroup@etechev.com				IN: nRM2016146439															
Sample Information										Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DEQ/OKO by 8015	GRD/OKO by 8015	BTEX by 8021	VOC by 8160	Chloride 300.0	TEL0 1009 - TX	RCRA 8 Metals	SEM - NH	SEM - NH	SDWA	CWA	RCRA	
12:29	11/03/25	S	1	FS01	4'	1								X					
12:35	11/03/25	S	1	FS02	4'	2								X					
12:38	11/03/25	S	1	FS03	4'	3								X					
12:45	11/03/25	S	1	FS04	4'	4								X					
12:50	11/03/25	S	1	FS05	4'	5								X					
12:55	11/03/25	S	1	FS06	4'	6								X					
13:00	11/03/25	S	1	FS07	4'	7								X					
13:05	11/03/25	S	1	FS08	4'	8								X					
13:12	11/03/25	S	1	FS09	4'	9								X					
13:18	11/03/25	S	1	FS10	4'	10								X					
Additional Instructions:																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Sevana Anderson																			
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on Ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N							
<i>Sevana Anderson</i>		11/06/2025		7:35		<i>Michelle Gonzales</i>		11-06-25		0735									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
<i>Michelle Gonzales</i>		11-06-25		1230		<i>Nathan Gonzales</i>		11-06-25		1230									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
<i>Nathan Gonzales</i>		11-06-25		1640		<i>Cassidy Boy</i>		11-06-25		1640									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
<i>Cassidy Boy</i>		11-06-25		2:15		<i>Clutha Mow</i>		11-7-25		800									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA																			
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Envirotech Analytical Laboratory

Printed: 11/7/2025 10:45:31AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	11/07/25 08:00	Work Order ID:	E511052
Phone:	(575) 748-0176	Date Logged In:	11/06/25 16:54	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	11/13/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E511053

Job Number: 01058-0007

Received: 11/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/13/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/13/25



Anna Byers
333 W Sheridan Avenue
Oklahoma City, OK 73102-5010

Project Name: TOMCAT 21 FEDERAL #001
Workorder: E511053
Date Received: 11/7/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2025 8:00:00AM, under the Project Name: TOMCAT 21 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 FEDERAL #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/25 11:35
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS16 4'	E511053-01A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS17 4'	E511053-02A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS18 4'	E511053-03A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS19 4'	E511053-04A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS20 4'	E511053-05A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 11:35:26AM
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FS16 4'

E511053-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.7 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.2 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2545149
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/08/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	11/07/25	11/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	10000	200	10	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 11:35:26AM
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FS17 4'

E511053-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.6 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.4 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2545149
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/08/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	11/07/25	11/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	8940	100	5	11/10/25	11/11/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 11:35:26AM
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FS18 4'

E511053-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.8 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.0 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2545149
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/08/25	
<i>Surrogate: n-Nonane</i>		103 %	61-141	11/07/25	11/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	12600	200	10	11/10/25	11/11/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 11:35:26AM
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FS19 4'

E511053-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.2 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.0 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2545149
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/08/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	11/07/25	11/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	4420	40.0	2	11/10/25	11/11/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 11:35:26AM
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FS20 4'

E511053-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.1 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: NV		Batch: 2545149
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/08/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/08/25	
<i>Surrogate: n-Nonane</i>		101 %	61-141	11/07/25	11/08/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: TP		Batch: 2546028
Chloride	4700	40.0	2	11/10/25	11/11/25	



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 11:35:26AM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545146-BLK1)

Prepared: 11/07/25 Analyzed: 11/10/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

LCS (2545146-BS1)

Prepared: 11/07/25 Analyzed: 11/10/25

Benzene	4.45	0.0250	5.00		89.0	70-130			
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.55	0.0250	5.00		90.9	70-130			
o-Xylene	4.59	0.0250	5.00		91.9	70-130			
p,m-Xylene	9.23	0.0500	10.0		92.3	70-130			
Total Xylenes	13.8	0.0250	15.0		92.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

Matrix Spike (2545146-MS1)

Source: E511054-07

Prepared: 11/07/25 Analyzed: 11/10/25

Benzene	4.27	0.0250	5.00	ND	85.3	70-130			
Ethylbenzene	4.33	0.0250	5.00	ND	86.7	70-130			
Toluene	4.38	0.0250	5.00	ND	87.5	70-130			
o-Xylene	4.47	0.0250	5.00	ND	89.4	70-130			
p,m-Xylene	8.90	0.0500	10.0	ND	89.0	70-130			
Total Xylenes	13.4	0.0250	15.0	ND	89.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.8	70-130			

Matrix Spike Dup (2545146-MSD1)

Source: E511054-07

Prepared: 11/07/25 Analyzed: 11/10/25

Benzene	4.41	0.0250	5.00	ND	88.1	70-130	3.19	27	
Ethylbenzene	4.45	0.0250	5.00	ND	89.1	70-130	2.71	26	
Toluene	4.50	0.0250	5.00	ND	89.9	70-130	2.71	20	
o-Xylene	4.59	0.0250	5.00	ND	91.7	70-130	2.49	25	
p,m-Xylene	9.14	0.0500	10.0	ND	91.4	70-130	2.62	23	
Total Xylenes	13.7	0.0250	15.0	ND	91.5	70-130	2.58	26	
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 11:35:26AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545146-BLK1)

Prepared: 11/07/25 Analyzed: 11/10/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

LCS (2545146-BS2)

Prepared: 11/07/25 Analyzed: 11/10/25

Gasoline Range Organics (C6-C10)	60.3	20.0	50.0		121	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

Matrix Spike (2545146-MS2)

Source: E511054-07

Prepared: 11/07/25 Analyzed: 11/10/25

Gasoline Range Organics (C6-C10)	58.1	20.0	50.0	ND	116	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike Dup (2545146-MSD2)

Source: E511054-07

Prepared: 11/07/25 Analyzed: 11/10/25

Gasoline Range Organics (C6-C10)	58.4	20.0	50.0	ND	117	70-130	0.536	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.7	70-130			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 11:35:26AM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545149-BLK1)

Prepared: 11/07/25 Analyzed: 11/07/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.5		50.0		99.0	61-141			

LCS (2545149-BS1)

Prepared: 11/07/25 Analyzed: 11/07/25

Diesel Range Organics (C10-C28)	245	25.0	250		97.9	66-144			
Surrogate: n-Nonane	49.3		50.0		98.6	61-141			

Matrix Spike (2545149-MS1)

Source: E511047-03

Prepared: 11/07/25 Analyzed: 11/11/25

Diesel Range Organics (C10-C28)	262	25.0	250	37.1	89.9	56-156			
Surrogate: n-Nonane	47.2		50.0		94.4	61-141			

Matrix Spike Dup (2545149-MSD1)

Source: E511047-03

Prepared: 11/07/25 Analyzed: 11/11/25

Diesel Range Organics (C10-C28)	272	25.0	250	37.1	93.8	56-156	3.70	20	
Surrogate: n-Nonane	48.0		50.0		96.0	61-141			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 11:35:26AM
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Anions by EPA 300.0/9056A

Analyst: TP

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2546028-BLK1)

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride ND 20.0

LCS (2546028-BS1)

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride 260 20.0 250 104 90-110

Matrix Spike (2546028-MS1)

Source: E511052-15

Prepared: 11/10/25 Analyzed: 11/11/25

Chloride 1190 20.0 250 998 75.3 80-120 M2

Matrix Spike Dup (2546028-MSD1)

Source: E511052-15

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride 1200 20.0 250 998 81.5 80-120 1.31 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/25 11:35
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M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Envirotech Analytical Laboratory

Printed: 11/7/2025 10:48:18AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	11/07/25 08:00	Work Order ID:	E511053
Phone:	(575) 748-0176	Date Logged In:	11/06/25 16:59	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	11/13/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E511054

Job Number: 01058-0007

Received: 11/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/12/25



Anna Byers
333 W Sheridan Avenue
Oklahoma City, OK 73102-5010

Project Name: TOMCAT 21 FEDERAL #001
Workorder: E511054
Date Received: 11/7/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2025 8:00:00AM, under the Project Name: TOMCAT 21 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 FEDERAL #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Sample Summary

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/25 17:44
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
FS21 4'	E511054-01A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS22 4'	E511054-02A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS23 4'	E511054-03A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS24 4'	E511054-04A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS25 4'	E511054-05A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS26 4'	E511054-06A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS27 4'	E511054-07A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS28 4'	E511054-08A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.
FS29 4'	E511054-09A	Soil	11/04/25	11/07/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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FS21 4'

E511054-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.4 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.9 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		97.8 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2546030
Chloride	2450	40.0	2	11/10/25	11/11/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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FS22 4'

E511054-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.1 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.0 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		98.8 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2546030
Chloride	4570	40.0	2	11/10/25	11/11/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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FS23 4'

E511054-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.5 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.5 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		99.1 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2546030
Chloride	2850	40.0	2	11/10/25	11/11/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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FS24 4'

E511054-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.9 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.9 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2546030
Chloride	2970	40.0	2	11/10/25	11/11/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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FS25 4'

E511054-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.1 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		96.6 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2546030
Chloride	4910	40.0	2	11/10/25	11/11/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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FS26 4'

E511054-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		98.3 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2546030
Chloride	5180	40.0	2	11/10/25	11/11/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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FS27 4'

E511054-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		98.0 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.7 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>						
		96.2 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: IY		Batch: 2546030
Chloride	7100	100	5	11/10/25	11/11/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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FS28 4'

E511054-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		99.1 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2546030
Chloride	8670	200	10	11/10/25	11/11/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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FS29 4'

E511054-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Benzene	ND	0.0250	1	11/07/25	11/10/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/10/25	
Toluene	ND	0.0250	1	11/07/25	11/10/25	
o-Xylene	ND	0.0250	1	11/07/25	11/10/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/10/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/10/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545146
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/10/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		89.7 %	70-130	11/07/25	11/10/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		97.6 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY		Batch: 2546030
Chloride	11800	200	10	11/10/25	11/11/25	



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545146-BLK1)

Prepared: 11/07/25 Analyzed: 11/10/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

LCS (2545146-BS1)

Prepared: 11/07/25 Analyzed: 11/10/25

Benzene	4.45	0.0250	5.00		89.0	70-130			
Ethylbenzene	4.50	0.0250	5.00		90.0	70-130			
Toluene	4.55	0.0250	5.00		90.9	70-130			
o-Xylene	4.59	0.0250	5.00		91.9	70-130			
p,m-Xylene	9.23	0.0500	10.0		92.3	70-130			
Total Xylenes	13.8	0.0250	15.0		92.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.5	70-130			

Matrix Spike (2545146-MS1)

Source: E511054-07

Prepared: 11/07/25 Analyzed: 11/10/25

Benzene	4.27	0.0250	5.00	ND	85.3	70-130			
Ethylbenzene	4.33	0.0250	5.00	ND	86.7	70-130			
Toluene	4.38	0.0250	5.00	ND	87.5	70-130			
o-Xylene	4.47	0.0250	5.00	ND	89.4	70-130			
p,m-Xylene	8.90	0.0500	10.0	ND	89.0	70-130			
Total Xylenes	13.4	0.0250	15.0	ND	89.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.90		8.00		98.8	70-130			

Matrix Spike Dup (2545146-MSD1)

Source: E511054-07

Prepared: 11/07/25 Analyzed: 11/10/25

Benzene	4.41	0.0250	5.00	ND	88.1	70-130	3.19	27	
Ethylbenzene	4.45	0.0250	5.00	ND	89.1	70-130	2.71	26	
Toluene	4.50	0.0250	5.00	ND	89.9	70-130	2.71	20	
o-Xylene	4.59	0.0250	5.00	ND	91.7	70-130	2.49	25	
p,m-Xylene	9.14	0.0500	10.0	ND	91.4	70-130	2.62	23	
Total Xylenes	13.7	0.0250	15.0	ND	91.5	70-130	2.58	26	
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545146-BLK1)

Prepared: 11/07/25 Analyzed: 11/10/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

LCS (2545146-BS2)

Prepared: 11/07/25 Analyzed: 11/10/25

Gasoline Range Organics (C6-C10)	60.3	20.0	50.0		121	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

Matrix Spike (2545146-MS2)

Source: E511054-07

Prepared: 11/07/25 Analyzed: 11/10/25

Gasoline Range Organics (C6-C10)	58.1	20.0	50.0	ND	116	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.39		8.00		92.4	70-130			

Matrix Spike Dup (2545146-MSD2)

Source: E511054-07

Prepared: 11/07/25 Analyzed: 11/10/25

Gasoline Range Organics (C6-C10)	58.4	20.0	50.0	ND	117	70-130	0.536	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.7	70-130			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545151-BLK1)

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	45.4		50.0		90.8	61-141			

LCS (2545151-BS1)

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	240	25.0	250		96.2	66-144			
Surrogate: <i>n</i> -Nonane	46.5		50.0		93.0	61-141			

Matrix Spike (2545151-MS1)

Source: E511050-04

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	245	25.0	250	ND	98.0	56-156			
Surrogate: <i>n</i> -Nonane	47.1		50.0		94.2	61-141			

Matrix Spike Dup (2545151-MSD1)

Source: E511050-04

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.8	56-156	1.75	20	
Surrogate: <i>n</i> -Nonane	47.9		50.0		95.8	61-141			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:44:58PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2546030-BLK1)

Prepared: 11/10/25 Analyzed: 11/11/25

Chloride ND 20.0

LCS (2546030-BS1)

Prepared: 11/10/25 Analyzed: 11/11/25

Chloride 257 20.0 250 103 90-110

Matrix Spike (2546030-MS1)

Source: E511054-08

Prepared: 11/10/25 Analyzed: 11/11/25

Chloride 8120 200 250 8670 NR 80-120 M4

Matrix Spike Dup (2546030-MSD1)

Source: E511054-08

Prepared: 11/10/25 Analyzed: 11/11/25

Chloride 8700 200 250 8670 9.91 80-120 6.80 20 M4

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
333 W Sheridan Avenue	Project Number:	01058-0007	Reported:
Oklahoma City OK, 73102-5010	Project Manager:	Anna Byers	11/12/25 17:44

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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





Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.				Lab WQ#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.				E511054		01058007					X	X			
Project Manager: Anna Byers				City, State, Zip: Carlsbad, NM, 88220															
Address: 13000 W County Rd 100				Phone: 575-885-7502															
City, State, Zip: Odessa, TX, 79765				Email: jlm.raley@dvn.com															
Phone: 432-305-6415				Miscellaneous: WO: 1007085301; PN: 19304;															
Email: NMTXGeoGroup@etechnv.com				IIN: nRM2016146439															

Sample Information										Analysis and Method										EPA Program		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TEOS 1000 - TX	NI - 4000 - TX	PCOA 8 Metals	NI - 3000	80300 - TX	SDWA	CWA	RCRA			
																	Compliance	Y	or	N		
																	PWSID #					
																	Sample Temp			Remarks		
9:26	11/04/25	S	1	FS21	4'	1									X					2.7		
9:35	11/04/25	S	1	FS22	4'	2									X						5.1	
9:42	11/04/25	S	1	FS23	4'	3									X						3.3	
9:49	11/04/25	S	1	FS24	4'	4									X						4.6	
10:05	11/04/25	S	1	FS25	4'	5									X						4.1	
10:08	11/04/25	S	1	FS26	4'	6									X						5.6	
10:10	11/04/25	S	1	FS27	4'	7									X						4.6	
10:15	11/04/25	S	1	FS28	4'	8									X						5.6	
10:20	11/04/25	S	1	FS29	4'	9									X						5.1	

SA

Additional Instructions:

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

Sampled by: <i>Sevana Anderson</i>										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> N											
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
<i>[Signature]</i>	11/06/2025	7:35	<i>Michelle Gonzales</i>	11-06-25	0735																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
<i>Michelle Gonzales</i>	11-06-25	1230	<i>Nathan Gonzales</i>	11-06-25	1230																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
<i>Nathan Gonzales</i>	11-06-25	1640	<i>Cassidy Boy</i>	11-06-25	1640																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																
<i>Cassidy Boy</i>	11-06-25	2115	<i>Carth Mor</i>	11-7-25	800																
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time																

Sample Matrix: S - Soil, Sl - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 11/7/2025 10:49:30AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Devon Energy - Carlsbad Date Received: 11/07/25 08:00 Work Order ID: E511054
Phone: (575) 748-0176 Date Logged In: 11/06/25 17:23 Logged In By: Noe Soto
Email: anna@etechnv.com Due Date: 11/13/25 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E511050

Job Number: 01058-0007

Received: 11/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/13/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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

Date Reported: 11/13/25



Anna Byers
333 W Sheridan Avenue
Oklahoma City, OK 73102-5010

Project Name: TOMCAT 21 FEDERAL #001
Workorder: E511050
Date Received: 11/7/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2025 8:00:00AM, under the Project Name: TOMCAT 21 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 FEDERAL #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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

Raina Schwanz
Laboratory Administrator
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Sample Summary

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/25 15:31
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW01 0-4'	E511050-01A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
SW02 0-4'	E511050-02A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
SW03 0-4'	E511050-03A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
SW04 0-4'	E511050-04A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
SW05 0-4'	E511050-05A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
SW06 0-4'	E511050-06A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 3:31:07PM
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SW01 0-4'

E511050-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Benzene	ND	0.0250	1	11/07/25	11/12/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/12/25	
Toluene	ND	0.0250	1	11/07/25	11/12/25	
o-Xylene	ND	0.0250	1	11/07/25	11/12/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/12/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		120 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.8 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>						
		96.1 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2546027
Chloride	102	20.0	1	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 3:31:07PM
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SW02 0-4'

E511050-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Benzene	ND	0.0250	1	11/07/25	11/12/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/12/25	
Toluene	ND	0.0250	1	11/07/25	11/12/25	
o-Xylene	ND	0.0250	1	11/07/25	11/12/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/12/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		119 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.6 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2546027
Chloride	54.5	20.0	1	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 3:31:07PM
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SW03 0-4'

E511050-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Benzene	ND	0.0250	1	11/07/25	11/12/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/12/25	
Toluene	ND	0.0250	1	11/07/25	11/12/25	
o-Xylene	ND	0.0250	1	11/07/25	11/12/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/12/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		119 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.2 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		97.1 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2546027
Chloride	30.9	20.0	1	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 3:31:07PM
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SW04 0-4'

E511050-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Benzene	ND	0.0250	1	11/07/25	11/12/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/12/25	
Toluene	ND	0.0250	1	11/07/25	11/12/25	
o-Xylene	ND	0.0250	1	11/07/25	11/12/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/12/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		118 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.4 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>						
		96.9 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2546027
Chloride	45.0	20.0	1	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 3:31:07PM
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SW05 0-4'

E511050-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Benzene	ND	0.0250	1	11/07/25	11/12/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/12/25	
Toluene	ND	0.0250	1	11/07/25	11/12/25	
o-Xylene	ND	0.0250	1	11/07/25	11/12/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/12/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		119 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.6 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		100 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2546027
Chloride	98.8	20.0	1	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 3:31:07PM
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SW06 0-4'

E511050-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Benzene	ND	0.0250	1	11/07/25	11/12/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/12/25	
Toluene	ND	0.0250	1	11/07/25	11/12/25	
o-Xylene	ND	0.0250	1	11/07/25	11/12/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/12/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/12/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		120 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2545144
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/12/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.9 %	70-130	11/07/25	11/12/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545151
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		97.6 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2546027
Chloride	179	20.0	1	11/10/25	11/10/25	



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 3:31:07PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545144-BLK1)

Prepared: 11/07/25 Analyzed: 11/12/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	9.39		8.00		117	70-130			

LCS (2545144-BS1)

Prepared: 11/07/25 Analyzed: 11/12/25

Benzene	4.46	0.0250	5.00		89.1	70-130			
Ethylbenzene	4.24	0.0250	5.00		84.8	70-130			
Toluene	4.34	0.0250	5.00		86.9	70-130			
o-Xylene	4.32	0.0250	5.00		86.4	70-130			
p,m-Xylene	8.65	0.0500	10.0		86.5	70-130			
Total Xylenes	13.0	0.0250	15.0		86.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.15		8.00		114	70-130			

Matrix Spike (2545144-MS1)

Source: E511046-04

Prepared: 11/07/25 Analyzed: 11/12/25

Benzene	4.15	0.0250	5.00	ND	83.0	70-130			
Ethylbenzene	4.00	0.0250	5.00	ND	80.1	70-130			
Toluene	4.08	0.0250	5.00	ND	81.5	70-130			
o-Xylene	4.11	0.0250	5.00	ND	82.2	70-130			
p,m-Xylene	8.21	0.0500	10.0	ND	82.1	70-130			
Total Xylenes	12.3	0.0250	15.0	ND	82.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	9.90		8.00		124	70-130			

Matrix Spike Dup (2545144-MSD1)

Source: E511046-04

Prepared: 11/07/25 Analyzed: 11/12/25

Benzene	4.01	0.0250	5.00	ND	80.2	70-130	3.48	27	
Ethylbenzene	3.86	0.0250	5.00	ND	77.3	70-130	3.56	26	
Toluene	3.92	0.0250	5.00	ND	78.5	70-130	3.81	20	
o-Xylene	3.95	0.0250	5.00	ND	78.9	70-130	4.08	25	
p,m-Xylene	7.91	0.0500	10.0	ND	79.1	70-130	3.68	23	
Total Xylenes	11.9	0.0250	15.0	ND	79.1	70-130	3.82	26	
Surrogate: 4-Bromochlorobenzene-PID	9.90		8.00		124	70-130			

QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 3:31:07PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545144-BLK1)

Prepared: 11/07/25 Analyzed: 11/12/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.45		8.00		93.2	70-130			

LCS (2545144-BS2)

Prepared: 11/07/25 Analyzed: 11/12/25

Gasoline Range Organics (C6-C10)	51.7	20.0	50.0		103	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike (2545144-MS2)

Source: E511046-04

Prepared: 11/07/25 Analyzed: 11/12/25

Gasoline Range Organics (C6-C10)	48.3	20.0	50.0	ND	96.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.48		8.00		93.6	70-130			

Matrix Spike Dup (2545144-MSD2)

Source: E511046-04

Prepared: 11/07/25 Analyzed: 11/12/25

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0	ND	95.3	70-130	1.36	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.7	70-130			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 3:31:07PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545151-BLK1)

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	45.4		50.0		90.8	61-141			

LCS (2545151-BS1)

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	240	25.0	250		96.2	66-144			
Surrogate: n-Nonane	46.5		50.0		93.0	61-141			

Matrix Spike (2545151-MS1)

Source: E511050-04

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	245	25.0	250	ND	98.0	56-156			
Surrogate: n-Nonane	47.1		50.0		94.2	61-141			

Matrix Spike Dup (2545151-MSD1)

Source: E511050-04

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.8	56-156	1.75	20	
Surrogate: n-Nonane	47.9		50.0		95.8	61-141			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/2025 3:31:07PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2546027-BLK1)

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride	ND	20.0							
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LCS (2546027-BS1)

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride	256	20.0	250		102	90-110			
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Matrix Spike (2546027-MS1)

Source: E511047-02

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride	1230	20.0	250	950	114	80-120			
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Matrix Spike Dup (2546027-MSD1)

Source: E511047-02

Prepared: 11/10/25 Analyzed: 11/11/25

Chloride	1170	20.0	250	950	89.5	80-120	5.10	20	
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QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/13/25 15:31
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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





Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.				E511050		01/257-0007					X	X			
Project Manager: Anna Byers				City, State, Zip: Carlsbad, NM, 88220															
Address: 13000 W County Rd 100				Phone: 575-885-7502															
City, State, Zip: Odessa, TX, 79765				Email: jim.raley@dvn.com															
Phone: 432-305-6415				Miscellaneous: WO: 1007085301; PN: 19304;															
Email: NMTXGeoGroup@etechenv.com				IN: nRM2016146439															

Sample Information										Analysis and Method								EPA Program		
Time Sampled	Date Sampled	Matrix	% of Container	Sample ID	Depth	Lab Number	DRO/PORO by 8015	GRO/PORO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TRIC 1000 - TX	RCRA 8 Metals	8600C - WA	8600C - TX	SDWA	CWA	RCRA		
11:05	11/03/25	S	1	SW01	0-4'	1								X						
12:20	11/03/25	S	1	SW02	0-4'	2								X						
11:20	11/03/25	S	1	SW03	0-4'	3								X						
11:30	11/03/25	S	1	SW04	0-4'	4								X						
12:25	11/03/25	S	1	SW05	0-4'	5								X						
11:50	11/03/25	S	1	SW06	0-4'	6								X						

Additional Instructions:

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

Sampled by: Savera Anderson						Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N					
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>Savera Anderson</i>	11/06/2025	7:35	<i>Michelle Gonzales</i>	11-06-25	0735						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>Michelle Gonzales</i>	11-06-25	1230	<i>Nathan Gonzales</i>	11-06-25	1230						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>Nathan Gonzales</i>	11-06-25	1640	<i>Cassidy Boy</i>	11-06-25	1640						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						
<i>Cassidy Boy</i>	11-06-25	2115	<i>Keith Man</i>	11-7-25	800						
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time						

Sample Matrix: S - Soil, Sl - Solid, Eg - Sludge, A - Aqueous, O - Other
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Envirotech Analytical Laboratory

Printed: 11/7/2025 10:42:07AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	11/07/25 08:00	Work Order ID:	E511050
Phone:	(575) 748-0176	Date Logged In:	11/06/25 16:44	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	11/13/25 17:00 (4 day TAT)		

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E511051

Job Number: 01058-0007

Received: 11/7/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 11/12/25

Anna Byers
333 W Sheridan Avenue
Oklahoma City, OK 73102-5010

Project Name: TOMCAT 21 FEDERAL #001
Workorder: E511051
Date Received: 11/7/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/7/2025 8:00:00AM, under the Project Name: TOMCAT 21 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 FEDERAL #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman
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Cell: 775-287-1762
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Sample Summary

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/25 17:39
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW07 0-4'	E511051-01A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
SW08 0-4'	E511051-02A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
SW09 0-4'	E511051-03A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.
SW10 0-4'	E511051-04A	Soil	11/03/25	11/07/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:39:40PM
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SW07 0-4'

E511051-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		94.2 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2546027
Chloride	107	20.0	1	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:39:40PM
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SW08 0-4'

E511051-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		111 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		91.8 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2546027
Chloride	235	20.0	1	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:39:40PM
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SW09 0-4'

E511051-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		106 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>		93.5 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2546027
Chloride	206	20.0	1	11/10/25	11/10/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:39:40PM
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SW10 0-4'

E511051-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Benzene	ND	0.0250	1	11/07/25	11/11/25	
Ethylbenzene	ND	0.0250	1	11/07/25	11/11/25	
Toluene	ND	0.0250	1	11/07/25	11/11/25	
o-Xylene	ND	0.0250	1	11/07/25	11/11/25	
p,m-Xylene	ND	0.0500	1	11/07/25	11/11/25	
Total Xylenes	ND	0.0250	1	11/07/25	11/11/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2545145
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/07/25	11/11/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		108 %	70-130	11/07/25	11/11/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2545150
Diesel Range Organics (C10-C28)	ND	25.0	1	11/07/25	11/10/25	
Oil Range Organics (C28-C36)	ND	50.0	1	11/07/25	11/10/25	
<i>Surrogate: n-Nonane</i>						
		96.3 %	61-141	11/07/25	11/10/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2546027
Chloride	142	20.0	1	11/10/25	11/11/25	



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:39:40PM
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Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545145-BLK1)

Prepared: 11/07/25 Analyzed: 11/11/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.37		8.00		105	70-130			

LCS (2545145-BS1)

Prepared: 11/07/25 Analyzed: 11/11/25

Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	4.85	0.0250	5.00		97.0	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.91	0.0250	5.00		98.2	70-130			
p,m-Xylene	9.90	0.0500	10.0		99.0	70-130			
Total Xylenes	14.8	0.0250	15.0		98.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.47		8.00		106	70-130			

Matrix Spike (2545145-MS1)

Source: E511051-03

Prepared: 11/07/25 Analyzed: 11/11/25

Benzene	5.19	0.0250	5.00	ND	104	70-130			
Ethylbenzene	4.90	0.0250	5.00	ND	98.0	70-130			
Toluene	5.10	0.0250	5.00	ND	102	70-130			
o-Xylene	4.97	0.0250	5.00	ND	99.3	70-130			
p,m-Xylene	10.0	0.0500	10.0	ND	100	70-130			
Total Xylenes	15.0	0.0250	15.0	ND	99.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.42		8.00		105	70-130			

Matrix Spike Dup (2545145-MSD1)

Source: E511051-03

Prepared: 11/07/25 Analyzed: 11/11/25

Benzene	4.78	0.0250	5.00	ND	95.5	70-130	8.38	27	
Ethylbenzene	4.54	0.0250	5.00	ND	90.8	70-130	7.70	26	
Toluene	4.70	0.0250	5.00	ND	94.0	70-130	8.10	20	
o-Xylene	4.59	0.0250	5.00	ND	91.8	70-130	7.93	25	
p,m-Xylene	9.28	0.0500	10.0	ND	92.8	70-130	7.58	23	
Total Xylenes	13.9	0.0250	15.0	ND	92.4	70-130	7.70	26	
Surrogate: 4-Bromochlorobenzene-PID	8.46		8.00		106	70-130			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:39:40PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545145-BLK1)

Prepared: 11/07/25 Analyzed: 11/11/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.63		8.00		108	70-130			

LCS (2545145-BS2)

Prepared: 11/07/25 Analyzed: 11/11/25

Gasoline Range Organics (C6-C10)	45.4	20.0	50.0		90.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.71		8.00		109	70-130			

Matrix Spike (2545145-MS2)

Source: E511051-03

Prepared: 11/07/25 Analyzed: 11/11/25

Gasoline Range Organics (C6-C10)	46.6	20.0	50.0	ND	93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.63		8.00		108	70-130			

Matrix Spike Dup (2545145-MSD2)

Source: E511051-03

Prepared: 11/07/25 Analyzed: 11/11/25

Gasoline Range Organics (C6-C10)	41.7	20.0	50.0	ND	83.5	70-130	11.1	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.74		8.00		109	70-130			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:39:40PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2545150-BLK1)

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	43.1		50.0		86.1	61-141			

LCS (2545150-BS1)

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	231	25.0	250		92.5	66-144			
Surrogate: <i>n</i> -Nonane	44.9		50.0		89.8	61-141			

Matrix Spike (2545150-MS1)

Source: E511052-01

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	247	25.0	250	ND	98.7	56-156			
Surrogate: <i>n</i> -Nonane	47.1		50.0		94.2	61-141			

Matrix Spike Dup (2545150-MSD1)

Source: E511052-01

Prepared: 11/07/25 Analyzed: 11/10/25

Diesel Range Organics (C10-C28)	249	25.0	250	ND	99.4	56-156	0.752	20	
Surrogate: <i>n</i> -Nonane	48.2		50.0		96.4	61-141			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/2025 5:39:40PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2546027-BLK1)

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride	ND	20.0							
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LCS (2546027-BS1)

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride	256	20.0	250		102	90-110			
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Matrix Spike (2546027-MS1)

Source: E511047-02

Prepared: 11/10/25 Analyzed: 11/10/25

Chloride	1230	20.0	250	950	114	80-120			
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Matrix Spike Dup (2546027-MSD1)

Source: E511047-02

Prepared: 11/10/25 Analyzed: 11/11/25

Chloride	1170	20.0	250	950	89.5	80-120	5.10	20	
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QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 11/12/25 17:39
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Envirotech Analytical Laboratory

Printed: 11/7/2025 10:43:41AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Devon Energy - Carlsbad Date Received: 11/07/25 08:00 Work Order ID: E511051
Phone: (575) 748-0176 Date Logged In: 11/06/25 16:45 Logged In By: Noe Soto
Email: anna@etechnv.com Due Date: 11/13/25 17:00 (4 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for client instruction.

Comments/Resolution

Large empty box for comments/resolution.

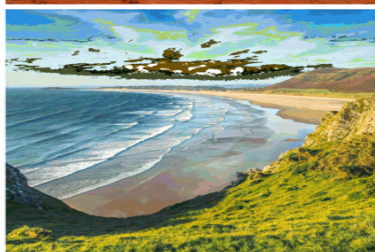
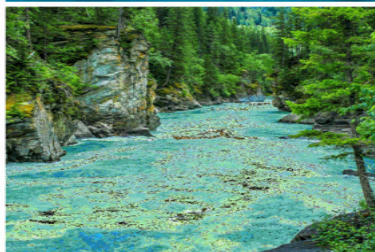
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

Report to:
Erick Herrera



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 ROW

Work Order: E510247

Job Number: 01058-0007

Received: 10/22/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
10/23/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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



Date Reported: 10/23/25

Erick Herrera
333 W Sheridan Avenue
Oklahoma City, OK 73102-5010

Project Name: TOMCAT 21 ROW
Workorder: E510247
Date Received: 10/22/2025 6:30:00AM

Erick Herrera,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/22/2025 6:30:00AM, under the Project Name: TOMCAT 21 ROW.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 ROW apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

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Cell: 775-287-1762
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Sample Summary

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 ROW Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 10/23/25 14:36
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
STKP01	E510247-01A	Soil	10/20/25	10/22/25	Glass Jar, 2 oz.
STKP02	E510247-02A	Soil	10/20/25	10/22/25	Glass Jar, 2 oz.
STKP03	E510247-03A	Soil	10/20/25	10/22/25	Glass Jar, 2 oz.
STKP04	E510247-04A	Soil	10/20/25	10/22/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 ROW Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 10/23/2025 2:36:57PM
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STKP01
E510247-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2543057	
Benzene	ND	0.0250	1	10/22/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/22/25	10/22/25	
Toluene	ND	0.0250	1	10/22/25	10/22/25	
o-Xylene	ND	0.0250	1	10/22/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/22/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/22/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.3 %	70-130	10/22/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2543057	
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.6 %	70-130	10/22/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2543055	
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/25	10/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/25	10/22/25	
<i>Surrogate: n-Nonane</i>		102 %	61-141	10/22/25	10/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2543061	
Chloride	ND	20.0	1	10/22/25	10/22/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 ROW Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 10/23/2025 2:36:57PM
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STKP02
E510247-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543057
Benzene	ND	0.0250	1	10/22/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/22/25	10/22/25	
Toluene	ND	0.0250	1	10/22/25	10/22/25	
o-Xylene	ND	0.0250	1	10/22/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/22/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/22/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.0 %	70-130	10/22/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543057
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		89.7 %	70-130	10/22/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/25	10/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/25	10/22/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	10/22/25	10/22/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2543061
Chloride	ND	20.0	1	10/22/25	10/22/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 ROW Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 10/23/2025 2:36:57PM
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STKP03
E510247-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543057
Benzene	ND	0.0250	1	10/22/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/22/25	10/22/25	
Toluene	ND	0.0250	1	10/22/25	10/22/25	
o-Xylene	ND	0.0250	1	10/22/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/22/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/22/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		91.6 %	70-130	10/22/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2543057
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.3 %	70-130	10/22/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2543055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/25	10/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/25	10/22/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	10/22/25	10/22/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2543061
Chloride	ND	20.0	1	10/22/25	10/22/25	



Sample Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 ROW Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 10/23/2025 2:36:57PM
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STKP04
E510247-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg		Analyst: BA		Batch: 2543057
Benzene	ND	0.0250	1	10/22/25	10/22/25	
Ethylbenzene	ND	0.0250	1	10/22/25	10/22/25	
Toluene	ND	0.0250	1	10/22/25	10/22/25	
o-Xylene	ND	0.0250	1	10/22/25	10/22/25	
p,m-Xylene	ND	0.0500	1	10/22/25	10/22/25	
Total Xylenes	ND	0.0250	1	10/22/25	10/22/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.2 %	70-130	10/22/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: BA		Batch: 2543057
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/22/25	10/22/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.1 %	70-130	10/22/25	10/22/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KH		Batch: 2543055
Diesel Range Organics (C10-C28)	ND	25.0	1	10/22/25	10/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	10/22/25	10/22/25	
<i>Surrogate: n-Nonane</i>		99.0 %	61-141	10/22/25	10/22/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: DT		Batch: 2543061
Chloride	ND	20.0	1	10/22/25	10/22/25	



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 ROW Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 10/23/2025 2:36:57PM
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Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543057-BLK1)

Prepared: 10/22/25 Analyzed: 10/22/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

LCS (2543057-BS1)

Prepared: 10/22/25 Analyzed: 10/22/25

Benzene	3.90	0.0250	5.00		78.0	70-130			
Ethylbenzene	3.66	0.0250	5.00		73.2	70-130			
Toluene	3.81	0.0250	5.00		76.2	70-130			
o-Xylene	3.78	0.0250	5.00		75.7	70-130			
p,m-Xylene	7.51	0.0500	10.0		75.1	70-130			
Total Xylenes	11.3	0.0250	15.0		75.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.50		8.00		93.8	70-130			

Matrix Spike (2543057-MS1)

Source: E510247-04

Prepared: 10/22/25 Analyzed: 10/22/25

Benzene	4.17	0.0250	5.00	ND	83.5	70-130			
Ethylbenzene	3.91	0.0250	5.00	ND	78.2	70-130			
Toluene	4.07	0.0250	5.00	ND	81.5	70-130			
o-Xylene	4.03	0.0250	5.00	ND	80.5	70-130			
p,m-Xylene	8.01	0.0500	10.0	ND	80.0	70-130			
Total Xylenes	12.0	0.0250	15.0	ND	80.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.33		8.00		91.6	70-130			

Matrix Spike Dup (2543057-MSD1)

Source: E510247-04

Prepared: 10/22/25 Analyzed: 10/22/25

Benzene	4.41	0.0250	5.00	ND	88.2	70-130	5.57	27	
Ethylbenzene	4.12	0.0250	5.00	ND	82.4	70-130	5.20	26	
Toluene	4.30	0.0250	5.00	ND	86.0	70-130	5.35	20	
o-Xylene	4.26	0.0250	5.00	ND	85.2	70-130	5.63	25	
p,m-Xylene	8.44	0.0500	10.0	ND	84.4	70-130	5.25	23	
Total Xylenes	12.7	0.0250	15.0	ND	84.6	70-130	5.37	26	
Surrogate: 4-Bromochlorobenzene-PID	7.64		8.00		95.5	70-130			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 ROW Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 10/23/2025 2:36:57PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543057-BLK1)

Prepared: 10/22/25 Analyzed: 10/22/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.8	70-130			

LCS (2543057-BS2)

Prepared: 10/22/25 Analyzed: 10/22/25

Gasoline Range Organics (C6-C10)	42.8	20.0	50.0		85.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.90		8.00		86.2	70-130			

Matrix Spike (2543057-MS2)

Source: E510247-04

Prepared: 10/22/25 Analyzed: 10/22/25

Gasoline Range Organics (C6-C10)	47.6	20.0	50.0	ND	95.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	70-130			

Matrix Spike Dup (2543057-MSD2)

Source: E510247-04

Prepared: 10/22/25 Analyzed: 10/22/25

Gasoline Range Organics (C6-C10)	48.2	20.0	50.0	ND	96.5	70-130	1.29	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.40		8.00		92.5	70-130			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 ROW Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 10/23/2025 2:36:57PM
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Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543055-BLK1)

Prepared: 10/22/25 Analyzed: 10/22/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	49.5		50.0		99.1	61-141			

LCS (2543055-BS1)

Prepared: 10/22/25 Analyzed: 10/22/25

Diesel Range Organics (C10-C28)	283	25.0	250		113	66-144			
Surrogate: <i>n</i> -Nonane	53.4		50.0		107	61-141			

Matrix Spike (2543055-MS1)

Source: E510246-01

Prepared: 10/22/25 Analyzed: 10/22/25

Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	56-156			
Surrogate: <i>n</i> -Nonane	51.0		50.0		102	61-141			

Matrix Spike Dup (2543055-MSD1)

Source: E510246-01

Prepared: 10/22/25 Analyzed: 10/22/25

Diesel Range Organics (C10-C28)	276	25.0	250	ND	110	56-156	0.986	20	
Surrogate: <i>n</i> -Nonane	51.1		50.0		102	61-141			



QC Summary Data

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 ROW Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 10/23/2025 2:36:57PM
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Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2543061-BLK1)

Prepared: 10/22/25 Analyzed: 10/22/25

Chloride ND 20.0

LCS (2543061-BS1)

Prepared: 10/22/25 Analyzed: 10/22/25

Chloride 253 20.0 250 101 90-110

Matrix Spike (2543061-MS1)

Source: E510247-02

Prepared: 10/22/25 Analyzed: 10/22/25

Chloride 250 20.0 250 ND 100 80-120

Matrix Spike Dup (2543061-MSD1)

Source: E510247-02

Prepared: 10/22/25 Analyzed: 10/22/25

Chloride 249 20.0 250 ND 99.6 80-120 0.365 20

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad 333 W Sheridan Avenue Oklahoma City OK, 73102-5010	Project Name: TOMCAT 21 ROW Project Number: 01058-0007 Project Manager: Erick Herrera	Reported: 10/23/25 14:36
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ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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





Chain of Custody

Client Information				Invoice Information				Lab Use Only				TAT				State				
Client: <u>Devon Energy Production Company, LP</u>				Company: <u>Devon Energy Production Co.</u>				Lab WO#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX	
Project Name: <u>TOMCAT 21 ROW</u>				Address: <u>5315 Buena Vista Dr.</u>				<u>E510247</u>		<u>01058-007</u>		<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>				
Project Manager: <u>Erick Herrera</u>				City, State, Zip: <u>Carlsbad, NM, 88220</u>																
Address: <u>13000 W Country Rd 100</u>				Phone: <u>575-885-7502</u>																
City, State, Zip: <u>Odessa, TX 79765</u>				Email: <u>jim.raley@divn.com</u>																
Phone: <u>432/305/6415</u>				Miscellaneous: <u>PN 14304</u>																
Email: <u>NMTX Geogroup@Etechenv.com</u>				IN: <u>ARM2016146439</u> WO: <u>1007085301</u>																
Sample Information							Analysis and Method							EPA Program						
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DIRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TEEQ 1005 - TX	RCRA 8 Metals	BGDQC - NM	BGDQC - TX	SDWA	CWA	RCRA		
																Compliance	Y	or	N	
																PWSID #				
																Sample Temp			Remarks	
17:42	10/20/2025	S	1	STKP01		1										X			1.4	
17:45	10/20/2025	S	1	STKP02		2										X			1.7	
17:58	10/20/2025	S	1	STKP03		3										X			2.8	
18:00	10/20/2025	S	1	STKP04		4										X			1.4	
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																				
Sampled by: <u>ETHAN JASO</u>																				
Relinquished by: (Signature) <u>Ethan Jaso</u>				Date 10-21-2025		Time 10:25		Received by: (Signature) <u>Mariessa Gonzalez</u>				Date 10-21-25		Time 1030		Samples requiring thermal preservation must be received on ice the day they are sampled or received packed on ice at a temp above 0 but less than 6°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N				
Relinquished by: (Signature) <u>Mariessa Gonzalez</u>				Date 10-21-25		Time 1415		Received by: (Signature) <u>Andrew Musso</u>				Date 10-21-25		Time 1415						
Relinquished by: (Signature) <u>Andrew Musso</u>				Date 10-21-25		Time 1920		Received by: (Signature) <u>Noe Soto</u>				Date 10-21-25		Time 1920						
Relinquished by: (Signature) <u>Noe Soto</u>				Date 10-21-25		Time 2330		Received by: (Signature) <u>Noe Soto</u>				Date 10-22-25		Time 0630						
Sample Matrix: S - Soil, sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA										
Note: Samples are discarded 14 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																				

Envirotech Analytical Laboratory

Printed: 10/22/2025 12:11:51PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client: Devon Energy - Carlsbad Date Received: 10/22/25 06:30 Work Order ID: E510247
Phone: (575) 748-0176 Date Logged In: 10/21/25 15:22 Logged In By: Caitlin Mars
Email: Due Date: 10/22/25 17:00 (0 day TAT)

Chain of Custody (COC)

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

Carrier: Courier

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

Comments/Resolution

Sample Turn Around Time (TAT)

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

Sample Cooler

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

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

- 13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

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

Field Label

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

Sample Preservation

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

Multiphase Sample Matrix

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

Subcontract Laboratory

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

Client Instruction

Empty box for Client Instruction

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

Date



envirotech Inc.

| Appendix I

P.O. Box 62228 Midland TX 79711 Tel: 432-563-2200 Fax: 432-563-2213

NMSLO Seed Mix

Sandy (S)

SANDY (S) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sand bluestem	Elida, VNS, So.	2.0	F
Little bluestem	Cimarron, Pastura	3.0	F
Black grama	VNS, Southern	1.0	D
Sand dropseed	VNS, Southern	4.0	S
Plains bristlegrass	VNS, Southern	2.0	D
Forbs:			
Firewheel (Gaillardia)	VNS, Southern	1.0	D
Annual Sunflower	VNS, Southern	1.0	D
Shrubs:			
Fourwing Saltbush	VNS, Southern	1.0	F
		Total PLS/acre	16.0

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
 VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at <http://plants.usda.gov>.



| Appendix J

P.O. Box 62228 Midland TX 79711 Tel: 432-563-2200 Fax: 432-563-2213

HoldAll[®]
Decorative Plant Accessories

40 TESTS
DIRECTIONS INSIDE

SOIL TEST KIT



Plants & Flowers



Grasses & Lawns



Fruits & Veggies



Trees & Shrubs

757860

HoldAll[®]
Decorative Plant Accessories

757860

SOIL TEST KIT

Tests Your Soil for a Healthy Garden

• pH • Nitrogen(N) • Phosphorus(P) • Potassium(K) •

PREPARING YOUR SOIL SAMPLES

For lawns, annuals or house plants, take the soil sample from about 2-3" below the surface. For perennials especially shrubs, vegetables and fruit, the sample should be from 4" deep.

Avoid touching the soil with your hands. Test different areas of your soil, as it may differ according to past cultivation, underlying soil differences or a localized condition. It is preferable to make individual tests on several samples from different areas, than to mix the samples together.

Place your soil sample into a clean container. Break the sample up with the trowel or spoon and allow it to dry out naturally. This is not essential, however it makes working with the sample easier. Remove any small stones, organic material such as grass, weeds or roots and hard particles of lime. Then crumble the sample finely and mix it thoroughly.

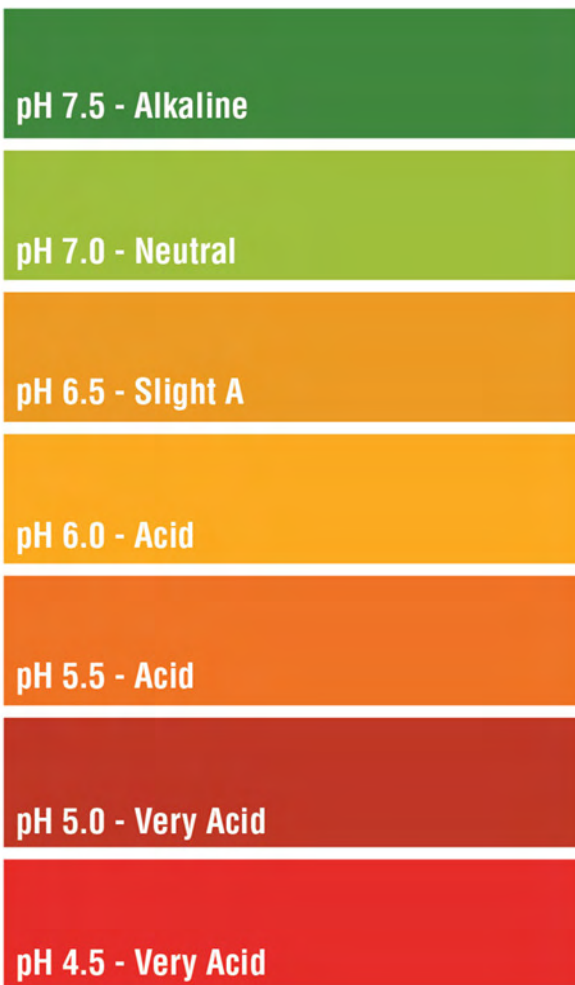
HOW TO TEST YOUR SOIL:

Tube caps and capsules are color-coded for simplicity:

Green = pH **Purple** = Nitrogen
Blue = Phosphorus **Orange** = Potash

pH TEST:

1. Remove cap from the green capped tube.
2. Fill tube with soil to the first line.
3. Carefully open a green capsule and pour powder into the tube.
4. Add water (preferably distilled) to the fourth line.
5. Cap tube and shake thoroughly.
6. Allow soil to settle and color to develop for about a minute.
7. Compare color of solution to the pH color chart. Repeat for remaining capsules.



NITROGEN, PHOSPHORUS & POTASH TESTS:

Fill a clean jar or can with 1 part soil and 5 parts water. Thoroughly shake or stir the soil and water together for at least one minute and then allow the mixture to stand undisturbed until it settles (30 minutes to 24 hours, dependent on soil). A fine clay soil will take much longer to settle out than a coarse sandy soil. The clarity of the solution will also vary, the clearer the better, however cloudiness will not affect the accuracy of the test.

PLANT FOOD CHART		
Nitrogen	Phosphorous	Potash
High	High	High
Medium	Medium	Medium
Low	Low	Low
Very Low	Very Low	Very Low

1. Remove the cap from the tube. (Please note that the color of the capsules should match the color of the tube cap.) Using dropper provided, fill the tube to the fourth line with liquid from your soil mixture. Avoid disturbing the sediment
2. Carefully separate the two halves of one of the capsules. Pour the powder into the tube.
3. Cap the tube and shake thoroughly. Allow color to develop for 10 minutes.
4. Compare color of solution to the appropriate portion of the plant food color chart. For best results allow daylight, not direct sunlight, to illuminate the solution. Note your results. Repeat for remaining capsules.

TO RAISE OR LOWER pH OF YOUR SOIL

Raising and lowering pH is not an exact science & most plants have a reasonably wide tolerance, certainly to within 1 pH point. Consult the pH Preference List and you will see that the majority can manage well on a pH around 6.5 but some need an alkaline soil

and some a particularly acid soil. Altering pH takes time so do not expect rapid changes; rather, work steadily towards giving a plant its ideal conditions.

ADJUSTING pH

pH can be adjusted to provide more suitable growing conditions for the different plants you wish to grow. Or, you can leave the pH of the soil as it is and select plants that like the level revealed by your test. Once you have your pH reading, check the pH Preference List for the pH levels of over 450 popular plants, trees, shrubs, vegetables and fruits. If your pH reading differs significantly from the list's recommended levels, follow instructions below for adjusting soil pH. You can correct pH at any time of the year but it

is best to start in the Fall and check progress in the Spring. After working to adjust your soil, retest for pH level in 40-60 days. If results are still significantly off, retreat your soil, not exceeding recommended application levels. Allow one month to pass between adding lime and adding fertilizers.

SOIL TYPES

Sandy Soils: A light, coarse soil comprised of crumbling and alluvial debris.

Loam Soils: A medium friable soil, consisting of a blend of coarse (sand) alluvium and fine (clay) particles mixed within fairly broad limits with a little lime and humus.

Clay Soils: A heavy, clinging, impermeable

soil, comprised of very fine particles with little lime and humus and tending to be waterlogged in winter and very dry in summer.

ADJUSTING SOIL pH - HOW MUCH TO APPLY

Material	phChange	Sandy	Loamy	Clay
Dolomitic or Calcic Limestone	+0.5 unit (0.5 pH) +1.0 unit (1.0 pH)	2.5 5.0	2.5 5.0	2.5 5.0
Hydrated Lime	+0.5 unit (0.5 pH)	1.25 - 2.0	1.25 - 2.0	1.25 - 2.0
	+1.0 unit (1.0 pH)	3.5 - 4.0	3.5 - 4.0	3.5 - 4.0
Iron Sulfate	-0.5 unit (0.5 pH)	0.75	0.75	0.75
	-1.0 unit (1.0 pH)	1.5	1.5	1.5
Aluminum Sulfate	-0.5 unit (0.5 pH)	0.5 - 0.75	0.5 - 0.75	0.5 - 0.75
	-1.0 unit (1.0 pH)	1 - 1.25	1 - 1.25	1 - 1.25

Amounts listed are pounds per 100 square feet. Do not add more than 5lbs. of lime or sulfur in one application.

FERTILIZER RECOMMENDATIONS

FEEDING PRIOR TO PLANTING

Adequate reserves of plant food should be available in the soil before planting vegetables, preparing a seed or flower bed, sodding or seeding a lawn, or planting shrubs and trees. To make up any deficiencies, apply fertilizers from the following chart according to your soil test result.

TEST RESULTS	Very Low	Low	Medium	High
Nitrogen Fertilizers (%N)				
Dried Blood (11%)	36	19	6	N/A
Nitrate of Soda (16%)	27	14	3	N/A
Phosphate Fertilizers (%P)				
Bone Meal (19%)	27	14	6	N/A
Triple Superphosphate (46%)	10.25	5.25-5.5	2.25	N/A
Potash Fertilizers (%K)				
Muriate of Potash (60%)	8.75-9	4.75-5	2.25-2.5	N/A

Amounts listed are ounces per 100 square feet. (Ounces referred to are by weight)

FEEDING ESTABLISHED PLANTS AND BEDS

Based on your test results, apply the appropriate fertilizer(s) in the amounts recommended in the following chart.

RECOMMENDATIONS FOR N, P AND K RESULTS

	Very Low			Low			Medium		
	N	P	K	N	P	K	N	P	K
Lawn	22.0-22.5	0.75-1.0	4.75-5.0	14.0-14.5	1.0-1.5	2.25-2.5	3.75-4.0	0	0
Fruit	14.0-14.5	6.5	13.5-14.0	7.75-8.0	4.0-4.25	8.75-9.0	3.75-4.0	2.25	4.75-5.0
Flower	14.0-14.25	6.5	13.5-14.0	7.75-8.0	4.0-4.25	8.75-9.0	3.75-4.0	2.25	4.75-5.0
Shrubs (flowering)	14.0-14.25	8.25-8.5	13.5-14.0	7.75-8.0	4.0-4.25	8.75-9.0	3.75-4.0	1.0-1.25	4.75-5.0
Shrubs (foliage)	22.0-22.5	10.5-10.75	8.75-9.0	14.0-14.5	5.25-5.5	4.75-5.0	3.75-4.0	2.25	2.25-2.5
Veggies (root)	14.0-14.25	12.0-12.25	8.75-9.0	14.0-14.5	5.25-5.5	4.75-5.0	3.75-4.0	3.0	2.25-2.5
Veggies (leafy)	28.25-29.0	10.25	8.75-9.0	14.0-14.5	5.25-5.5	4.75-5.0	7.75-8.0	2.25	2.25-2.5
Tree	14.0-14.5	10.25	8.75-9.0	7.75-8.0	5.25-5.5	4.75-5.0	3.75-4.0	2.25	2.25-2.5
General Feed	22.0-22.5	8.25-8.5	8.75-9.0	10.5-11.0	4.0-4.25	4.75-5.0	3.75-4.0	1.0-1.25	2.25-2.5

High

	N	P	K
Lawn	N/A	N/A	N/A
Fruit	N/A	N/A	N/A
Flower	N/A	N/A	N/A
Shrubs (flowering)	N/A	N/A	N/A
Shrubs (foliage)	N/A	N/A	N/A
Veggies (root)	N/A	N/A	N/A
Veggies (leafy)	N/A	N/A	N/A
Tree	N/A	N/A	N/A
General Feed	N/A	N/A	N/A

The recommendations are based on the following fertilizer sources: Nitrate of Soda (16% N), Triple Superphosphate (46% P2O5) and Muriate of Potassium (60% K2O). The amounts listed are in oz. /100 sq. ft. (Ounces referred to are by weight, not volume.) If you wish to use other fertilizer, simply check the package for the percentage of nutrients for N, P, & K and adjust the application level accordingly.

SPECIAL RECOMMENDATIONS FOR LAWNS

For a new lawn, pay special attention to soil preparation before planting. Proper soil preparation for any size lawn will have a significant impact on the amount of water and care it demands in the future. Till the soil to a depth of at least 12" and incorporate plenty of organic material (9" or more). Test your soil for pH and adjust to the levels recommended on pH Preference List for your type of grass. Refer to the Adjusting Soil pH chart for recommended lime or sulfate applications.

For established lawns, Nitrogen is the most essential nutrient to promote lush growth and deep, green color. Phosphorus and Potassium, in lesser quantities, are also important for strong root formation and growth. Compound fertilizers will supply all 3 nutrients, or you can select an individual fertilizer, such as Nitrate of Soda. The following chart gives recommended application levels specifically for lawns, based on your Nitrogen soil test results.

RECOMMENDATIONS FOR LAWNS

Fertilizer Type	Very Low	Low
24-4-4	4.0 lbs.	2.0 lbs.
24-3-4	3.1 lbs.	1.55 lbs.
30-4-4	3.0 lbs.	1.5 lbs.
	Medium	High
24-4-4	1.0 lbs.	N/A
24-3-4	.77 lbs.	N/A
30-4-4	.75 lbs.	N/A

Amounts listed are pounds per 1000 square feet.

SAFETY & HYGIENE

Dispose of test solutions by rinsing down the sink. Empty gelatin capsules should be disposed of immediately with household waste. Wash the test tubes and caps in warm, soapy water immediately after each use. Make sure any sediment or color staining is removed. Rinse well and dry. Each bag of capsules should be stored inside the blister. Fit the caps on each test tube. Place all components back into the package. The blister pack has been specially designed to be reused as a storage container.

Store your kit in clean, dry conditions, indoors. The powders are safe in normal domestic terms but like all chemicals and pharmaceuticals, they should be put away and kept out of reach of children. Try to avoid touching the powders. Always wash your hands thoroughly after making your tests. Do not eat, drink or smoke while using the soil test kit. Keep powders away from food, drink and animal feed. If taken internally, drink copious amounts of water and seek medical advice.

CAUTIONS

Where a lot of fertilizer is needed to correct one plant food, divide the applications over several weeks. Do not add lime and fertilizer together; lime first. Allow at least one month to pass before applying fertilizer. Retest 30 days after applying fertilizer.



Plant pH Preference List

NAME	pH	NAME	pH	NAME	pH	NAME	pH	NAME	pH
FRUIT		VEGETABLES AND HERBS		HOUSE and GREENHOUSE PLANTS		FLOWERS, TREES AND SHRUBS		FLOWERS, TREES AND SHRUBS	
APPLE	5.0 - 6.5	SAGE	5.5 - 6.5	GENISTA	6.5 - 7.5	ASPERULA	6.0 - 8.0	LAUREL	6.5 - 7.5
APRICOT	6.0 - 7.0	SHALLOT	5.5 - 7.0	GERANIUM	6.0 - 8.0	ASPHODOLINE	6.0 - 8.0	LAVENDER	6.5 - 7.5
AVOCADO	6.0 - 7.5	SORGHUM	5.5 - 7.5	GLOXINIA	5.5 - 6.5	ASTER	5.5 - 7.5	LIATRIS	5.5 - 7.5
BANANA	5.0 - 7.0	SOYBEAN	5.5 - 6.5	GRAPE IVY	5.0 - 6.5	AUBRITA	6.0 - 7.5	LIGUSTRUM	5.0 - 7.5
BLACKBERRY	5.0 - 6.0	SPEARMINT	5.5 - 7.5	GRAPE HYACINTH	6.0 - 7.5	AZALEA	4.5 - 6.0	LILAC	6.0 - 7.5
BLUEBERRY	4.0 - 6.0	SPINACH	6.0 - 7.5	GREVILLEA	5.5 - 6.5	BALLOON FLOWER	6.0 - 6.5	LILY OF THE VALLEY	4.5 - 6.0
CANTALOUPE	6.5 - 7.5	SWEDE	5.0 - 7.0	GYNURA	5.5 - 6.5	BAYBERRY	4.0 - 6.0	LITHOSPERMUM	5.0 - 6.5
CHERRY	6.0 - 7.5	THYME	5.5 - 7.0	HEDERA (IVY)	6.0 - 8.0	BERGENIA	6.0 - 7.5	LOBELIA	6.5 - 7.5
CRANBERRY	5.5 - 6.5	TOMATO	5.5 - 7.5	HELIOTROPIUM	5.0 - 6.0	BLEEDING HEART	6.0 - 7.5	LUPINUS	5.5 - 7.0
CURRENT: Black	6.0 - 8.0	TURNIP	5.5 - 7.0	HENS AND CHICKENS	6.0 - 7.0	BLUEBELL	6.0 - 7.6	MAGNOLIA	5.0 - 6.0
Red	5.5 - 7.0	WATER CRESS	6.0 - 8.0	HERRINGBONE PLANT	6.0 - 6.0	BROOM	5.0 - 6.0	MAHONIA	6.0 - 7.0
White	6.0 - 8.0	HOUSE and GREENHOUSE PLANTS		HIBISCUS PLANT	6.0 - 8.0	BUDDLEIA	6.0 - 7.0	MARIGOLD	5.5 - 7.0
DAMSON	6.0 - 7.5	ABUTILON	5.5 - 6.5	HOYA	5.0 - 6.5	BUPHTHALUM	6.0 - 8.0	MOLINIA	4.0 - 5.0
GOOSEBERRY	5.0 - 6.5	ACORUS	5.0 - 6.5	IMPATIENS	5.5 - 6.5	BUTTERFLY BUSH	4.0 - 6.0	MORAEA	5.5 - 6.5
GRAPEVINE	6.0 - 7.0	AECHMEA	5.0 - 5.5	IVY TREE	6.0 - 7.0	CALENDULA	5.5 - 7.0	MORNING GLORY	6.0 - 7.5
GRAPEFRUIT	6.0 - 7.5	AFRICAN VIOLET	6.0 - 7.0	JACARANDA	6.0 - 7.5	CAMASSIA	6.0 - 8.0	MOSS	6.0 - 8.0
HAZELNUT	6.0 - 7.0	AGLAONEMA	5.0 - 6.0	JAPANESE SEDGE	6.0 - 8.0	CANDYTUFT	6.0 - 7.5	MOSS, SPHAGNUM	3.5 - 5.0
HOP	6.0 - 7.5	AMARYLLIS	5.5 - 6.5	JASMINUM	5.5 - 7.0	CANNA	6.0 - 8.0	MYOSOTIS	6.0 - 7.0
HUCKLEBERRY	4.0 - 6.0	ANTHURIUM	5.0 - 6.0	JERUSALEM CHERRY	5.5 - 6.5	CANTERBURY BELLS	7.0 - 7.5	NARCISSUS	6.0 - 8.5
LEMON	6.0 - 7.0	APHELANDRA	5.0 - 6.0	JESSAMONE	5.0 - 6.0	CARDINAL FLOWER	4.0 - 6.0	NASTURTIUM	5.5 - 7.5
LYCHEE	6.0 - 7.0	ARAUCARIA	5.0 - 6.0	KALANCHOE	6.0 - 7.5	CARNATION	6.0 - 7.5	NICOTIANA	5.5 - 6.5
MANGO	5.0 - 6.0	ASPARAGUS FERN	6.0 - 8.0	KANGAROO THORN	6.0 - 8.0	CATALPA	6.0 - 8.0	PACHYSANDRA	5.0 - 8.0
MELON	5.5 - 6.5	ASPIDISTRA	4.0 - 5.5	KANGAROO VINE	5.0 - 6.5	CELOSIA	6.0 - 7.0	PAEONIA	6.0 - 7.5
MULBERRY	6.0 - 7.5	AZAEA	4.5 - 6.0	LANTANA	5.5 - 7.0	CENTAUREA	5.0 - 6.5	PANSY	5.5 - 7.0
NECTARINE	6.0 - 7.5	BABY'S BREATH	6.0 - 7.5	LAURUS (BAY TREE)	5.0 - 6.0	CERASTIUM	6.0 - 7.0	PASSION FLOWER	6.0 - 8.0
PEACH	6.0 - 7.5	BABY'S TEARS	5.0 - 6.0	LEMON PLANT	6.0 - 7.5	CHRYSANTHEMUM	6.0 - 7.0	PASQUE FLOWER	5.0 - 6.0
PEAR	6.0 - 7.5	BEGONIA	5.5 - 7.0	MIMOSA	5.0 - 7.0	CISSUS	6.0 - 7.5	PAULOWNIA	6.0 - 8.0
PINEAPPLE	5.0 - 6.0	BIRD OF PARADISE	6.0 - 6.5	MIND YOUR OWN BUSINESS	5.0 - 5.5	CISTUS	6.0 - 7.5	PENSTEMON	5.5 - 7.0
PLUM	6.0 - 7.5	BISHOP'S CAP	5.0 - 6.0	MONSTERA	5.0 - 6.0	CLARKIA	6.0 - 6.5	PERIWINKLE	6.0 - 7.5
POMEGRANATE	5.5 - 6.5	BLACK-EYED SUSAN	5.5 - 7.5	MYRTLE	6.0 - 8.0	CLIANTHUS	6.0 - 7.5	PETUNIA	6.0 - 7.5
QUINCE	6.0 - 7.5	BLOOD LEAF	5.5 - 6.5	NEVER NEVER PLANT	5.0 - 6.0	CLEMATIS	5.5 - 7.0	PINKS	6.0 - 7.5
RASPBERRY	5.0 - 7.5	BOTTLEBRUSH	6.0 - 7.5	NICODEMIA (INDOOR OAK)	6.0 - 8.0	COLCHICUM	5.5 - 6.5	POLYGONUM	6.0 - 7.5
RHUBARB	5.5 - 7.0	BOUGAINVILLEA	5.5 - 7.5	NORFOLK ISLAND PINE	5.0 - 6.0	COLUMBINE	6.0 - 7.0	POLYANTHUS	6.0 - 7.5
STRAWBERRY	5.0 - 7.5	BOXWOOD	6.0 - 7.5	OLEANDER	6.0 - 7.5	CONVOLVULUS	6.0 - 8.0	POPPY	6.0 - 7.5
WATERMELON	5.5 - 6.5	BROMELIADS	5.0 - 7.5	OPLISMENUS	5.0 - 6.0	COREOPSIS	5.0 - 6.0	PORTULACA	5.5 - 7.5
VEGETABLES AND HERBS		BUTTERFLY FLOWER	6.0 - 7.5	ORCHID	4.5 - 5.5	CORONILLA	6.5 - 7.5	PRIMROSE	5.5 - 6.5
ARTICHOKE	6.5 - 7.5	CACTI	4.5 - 6.0	OXALIS	6.0 - 8.0	CORYDALIS	6.0 - 8.0	PRIMULA	6.0 - 7.5
ASPARAGUS	6.0 - 8.0	CALCAOLARIA	6.0 - 7.0	PALMS	6.0 - 7.5	COSMOS	5.0 - 8.0	PRIVET	5.0 - 7.5
BASIL	5.5 - 6.5	CALADIUM	5.0 - 6.0	PANDANUS	5.0 - 6.0	COTTONEASTER	6.0 - 8.0	PRUNELLA	6.0 - 7.5
BEAN	6.0 - 7.5	CALLA LILY	6.0 - 7.0	PEACOCK PLANT	5.0 - 6.0	CRAB APPLE	6.0 - 7.5	PRUNUS	6.5 - 7.5
(Runner, Broad, French)		CAMELIA	4.5 - 5.5	PELLIONIA	5.0 - 6.0	CROCUS	6.0 - 8.0	PYRETHRUM	6.0 - 7.5
BEETROOT	6.0 - 7.5	CAMPANULA	5.5 - 6.5	PEPEROMIA	5.0 - 6.0	CYNOGLOSSUM	6.0 - 7.5	RED HOT POKER	6.0 - 7.5
BROCCOLI	6.0 - 7.0	CAPSICUM	5.0 - 6.5	PHILODENDRON	5.0 - 6.0	DAFFODIL	6.0 - 6.5	RHODODENDREN	4.5 - 6.0
BRUSSELS SPROUTS	6.0 - 7.5	CARDINAL FLOWER	5.0 - 6.0	PILEA	6.0 - 8.0	DAHLIA	6.0 - 7.5	ROSES:	
CABBAGE	6.0 - 7.5	CASTOR OIL PLANT	5.5 - 6.5	PLUMBAGO	5.5 - 6.5	DAY LILY	6.0 - 8.0	HYBRID TEA	5.5 - 7.0
CALABRESE	6.5 - 7.5	CANTURY PLANT	5.0 - 6.5	PODACARPUS	5.0 - 6.5	DELPHINIUM	6.0 - 7.5	CLIMBING	6.0 - 7.0
CARROT	5.5 - 7.0	CHINESE EVERGREEN	5.0 - 6.0	POINTSETTIA	6.0 - 7.5	DEUTZIA	6.0 - 7.5	RAMBLING	5.5 - 7.0
CAULIFLOWER	5.5 - 7.5	CHINESE PRIMROSE	6.0 - 7.5	POLYSCIAS	6.0 - 7.5	DIANTHUS	6.0 - 7.5	SALVIA	6.0 - 7.5
CELERY	6.0 - 7.0	CHRISTMAS CACTUS	5.0 - 6.5	POTHOS	5.0 - 6.0	DOGWOOD	5.0 - 7.0	SCABIOSA	5.0 - 7.5
CHICORY	5.0 - 6.5	CINERARIA	5.5 - 7.0	PRAYER PLANT	5.0 - 6.0	EDELWEISS	6.5 - 7.5	SEDUM	6.0 - 7.5
CHINESE CABBAGE	6.0 - 7.5	CLERODENDRUM	5.0 - 6.0	PUNICA	5.5 - 6.5	ELAEAGNUS	5.0 - 7.5	SNAPDRAGON	5.5 - 7.0
CHIVES	6.0 - 7.0	CLIVIA	5.5 - 6.5	SANSERIERIA	4.5 - 7.0	ENKIANTHUS	5.0 - 6.0	SNOWDROP	6.0 - 8.0
CORN - SWEET	5.5 - 7.0	COCKSCOMB	6.0 - 7.0	SAXIFRAGA	6.0 - 8.0	ERICA	4.5 - 6.0	SOAPWORT	6.0 - 7.5
CRESS	6.0 - 7.0	COFFEE PLANT	5.0 - 6.0	SCINDAPSUS	5.0 - 6.0	EUPHORBIA	6.0 - 7.0	SPEEDWELL	5.5 - 6.5
CUCURGETTES	5.5 - 7.0	COLEUS	6.0 - 7.0	SHRIMP PLANT	6.0 - 7.0	EVERLASTINGS	5.0 - 6.0	SPIRAEA	6.0 - 7.5
CUCUMBER	5.5 - 7.5	COLUMNNEA	4.5 - 5.5	SPANISH BAYONET	6.0 - 7.5	FIRETHORN	6.0 - 8.0	SPRUCE	4.0 - 5.0
FENNEL	5.0 - 6.0	CORAL BERRY	5.5 - 7.5	SPIDER PLANT	6.0 - 7.5	FORGET-ME-NOTS	6.0 - 7.0	STOCK	6.0 - 7.5
GARLIC	5.5 - 7.5	CRASSULA	5.0 - 6.0	SUCCULENTS	5.0 - 6.5	FORSYTHIA	6.0 - 8.0	STONECROP	6.5 - 7.5
GINGER	6.0 - 8.0	CREEPING FIG	5.0 - 6.0	SYNOGONIUM	5.0 - 6.0	FOXGLOVE	6.0 - 7.5	SUMACK	5.0 - 6.5
HORSERADISH	6.0 - 7.0	CROTON	5.0 - 6.0	TOLMIEA	5.0 - 6.0	FRITILLARIA	6.0 - 7.5	SUNFLOWER	5.0 - 7.0
KALE	6.0 - 7.5	CROWN OF THORNS	6.0 - 7.5	TRADESCANTIA	5.0 - 6.0	FUCHSIA	5.5 - 7.5	SWEET PEA	6.0 - 7.5
KOHLRABI	6.0 - 7.5	CUPHEA	6.0 - 7.5	UMBRELLA TREE	5.0 - 7.5	GAILLARDIA	6.0 - 7.5	SWEET WILLIAM	6.0 - 7.5
LEEK	6.0 - 8.0	CYCLAMEN	6.0 - 7.0	VENUS FLYTRAP	4.0 - 5.0	GAZANIA	5.5 - 7.0	TAMARIX	6.5 - 8.0
LENTIL	5.5 - 7.0	CYPERUS	5.0 - 7.5	WEeping FIG	5.0 - 6.0	GENTIANA	5.0 - 7.5	TRILLIUM	5.0 - 6.5
LETTUCE	6.0 - 7.0	DIEFFENBACHIA	5.0 - 6.0	YUCCA	6.0 - 7.5	GEUM	6.0 - 7.5	TULIP	6.0 - 7.0
MARJORAM	6.0 - 8.0	DIPLADENIA	6.0 - 7.5	ZEBRINA	5.0 - 6.0	GLADIOOLI	6.0 - 7.0	VIBERNUM	5.0 - 7.5
MARROW	6.0 - 7.5	DIZGOTHECA	6.0 - 7.5	FLOWERS, TREES AND SHRUBS		LOBULARIA	5.5 - 7.0	VIOLA	5.5 - 6.5
MILLET	6.0 - 6.5	DRACAENA	5.0 - 6.0	ABELIA	6.0 - 8.0	GODETIA	6.0 - 7.5	VIRGINIA CREEPER	5.0 - 7.5
MINT	7.0 - 8.0	EASTER LILY	6.0 - 7.0	ACACIA	6.0 - 8.0	GOLDEN ROD	5.0 - 7.0	WALLFLOWER	5.5 - 7.5
MUSHROOM	6.5 - 7.5	ELEPHANT'S EAR	5.0 - 6.0	ACANTHUS	6.0 - 7.0	GYPSOPHILIA	6.0 - 7.5	WATER LILY	5.5 - 6.5
MUSTARD	6.0 - 7.5	EPISCIA	6.0 - 7.0	ACONITUM	5.0 - 6.0	HAWTHORN	6.0 - 7.0	WEIGELIA	6.0 - 7.5
OLIVE	5.5 - 6.5	EUONYMUS	6.0 - 8.0	ADONIS	6.0 - 8.0	HEATHER	4.0 - 6.0	WISTARIA	6.0 - 8.0
ONION	6.0 - 7.0	FERNs:		AGERATUM	6.0 - 7.5	HELIANTHUS	5.0 - 7.0	ZINNIA	5.5 - 7.5
PAPRIKA	7.0 - 8.5	BIRD'S NEST	5.0 - 5.5	AILANTHUS	6.0 - 7.5	HELLEBORUS	6.0 - 7.5	TURF AND ORNAMENTAL GRASSES	
PARSLEY	5.0 - 7.0	BOSTON	5.5 - 6.5	AJUGA	4.0 - 6.0	HOLLY	5.0 - 6.5	BAHAI	6.5 - 7.5
PARSNIP	5.5 - 7.5	BUTTON	6.0 - 8.0	ALTHEA	6.0 - 7.5	HOLLYHOCK	6.0 - 7.5	BENT	5.5 - 6.5
PEA	6.0 - 7.5	CHRISTMAS	6.0 - 7.5	ALYSSUM	6.0 - 7.5	HONEYSUCKLE	6.0 - 7.5	BERMUDA	6.0 - 7.0
PEANUT	5.0 - 6.5	CLOAK	6.0 - 7.5	AMARANTHUS	6.0 - 6.5	HYACINTH	6.5 - 7.5	CANADA BLUE	4.5 - 6.4
PECAN	4.0 - 6.0	FEATHER	5.5 - 6.5	ANCHUSA	6.0 - 7.5	HYDRANGEA (Blue)	4.0 - 5.0	CLOVER	6.0 - 7.0
PEPPER	5.5 - 7.0	HART'S TONGUE	7.0 - 8.0	ANDROSACE	5.0 - 6.0	HYDRANGEA (Pink)	6.0 - 7.0	KENTUCKY BLUE	6.0 - 7.5
PEPPERMINT	6.0 - 7.5	HOLLY	4.5 - 6.0	ANEMONE	6.0 - 7.5	HYDRANGEA (White)	6.5 - 8.0	MEADOWY	6.0 - 7.5
PISTACHIO	5.0 - 6.0	MAIDENHAIR	6.0 - 8.0	ANTHYLLIS	5.0 - 6.0	HYPERICUM	5.5 - 7.0	PAMPAS	6.0 - 8.0
POTATO	4.5 - 6.0	RABBITS FOOT	6.0 - 7.5	ARBUTUS	4.0 - 6.0	IRIS	5.0 - 6.5	RED TOP	6.0 - 6.5
POTATO - SWEET	5.5 - 6.0	SPLEENWORT	6.0 - 7.5	ARENARIA	6.0 - 8.0	IVY	6.0 - 7.5	RYE	6.0 - 7.0
PUMPKIN	5.5 - 7.5	FIG	5.0 - 6.0	ARISTEA	6.0 - 7.5	JUNIPER	5.0 - 6.5	ST. AUGUSTINE	6.5 - 7.5
RADISH	6.0 - 7.0	FITTONIA	5.5 - 6.5	ARMERIA	6.0 - 7.5	KALMIA	4.5 - 5.0	TALL FESCUE	6.0 - 7.0
RICE	5.0 - 6.5	FREESIA	6.0 - 7.5	ARNICA	5.0 - 6.5	KERRIA	6.0 - 7.0	VELVET BENT	5.0 - 6.0
ROSEMARY	5.0 - 6.0	GARDENIA	5.0 - 6.0			LABURNUM	6.0 - 7.0	ZOYSIA	6.0 - 7.0

Soil Test Kit Questions and Answers

Question: I tested my soil, the pH test worked, but the rest of the results are clear. What's wrong?

1. An error has been made in the testing process.
2. Nutrient levels are too low for the test to indicate.
3. The capsules have absorbed too much moisture prior to being used. The reaction has already occurred within the capsule itself.

Question: My pH test result came out dark blue, there is no blue on the pH color chart.

1. The water being used to perform the test is alkaline. Recommend distilled water for the testing process.
2. The soil pH is higher than 7.5. The color results change from greens to blues to purples as the pH rises.

Question: I got results on all but the Nitrogen portion of the kit.

1. Nitrogen leaches out of the soil very quickly, especially in sandy soil.
2. The form of Nitrogen the kit tests for is Nitrate, the form used by plants. Nitrate is formed through the natural Nitrogen cycle within the soil. It is possible to have Nitrogen present in the soil in a non-testable form.

Question: I tested fertilizer with the kit and still got no reaction!

The kit detects only the form of the nutrient used by the plant. These nutrients must break down to the form tested for, through the natural bacterial action and decay processes in the soil. In most cases fertilizers will not test correctly.

Question: I fertilized my soil as recommended in your instructions and then re-tested. My readings didn't change.

Because the nutrients need to break down, we recommend two to four weeks between fertilizing and re-testing.

Question: My soil will not settle to the bottom in the soil/water solution I've mixed.

Although the directions read the soil and water should settle for at least 10 minutes before proceeding, there is no harm in letting the soil settle much longer. Suggest the consumer mix the soil and water the evening or even the day before testing. Some very fine clay soil will not settle. For these few homeowners, the kit will not work.

Question: The testing capsule didn't dissolve.

The capsules must be opened and the testing powder poured into the test tube. There isn't enough water present to dissolve the capsule.

Question: The color result I got doesn't match any on the color chart.

1. If the result is the same "color" but a different "shade" it's a matter of a judgment decision between the different nutrient levels.
2. The consumer may have inadvertently used the wrong capsule for the test in question.

In most cases we offer to send the consumer additional reagent capsules for re-testing. If an error was made in the first testing process, it's generally corrected the second time through.

HoldAll®
Decorative Plant Accessories

40 TESTS
DIRECTIONS INSIDE

SOIL TEST KIT

Tests Your Soil for a Healthy Garden

• pH • Nitrogen(N) • Phosphorus(P) • Potassium(K) •

WHY TEST YOUR SOIL?

Plants need food (nutrients) for healthy growth. Nitrogen, Phosphorus and Potash (N, P and K for short), play a vital role in plant growth just as vitamins, minerals, carbohydrates and protein do in our health.

HOW TO TEST YOUR SOIL

For the new and experienced soil testers alike, you will appreciate this easy, fast and fun way to achieve better growing results from your gardening efforts!

Everything is color-coded, including the tubes and capsules. All you do is take a sample of soil, mix with water, add powder from capsule, shake and watch the color develop. Then, note your test results. Fast, easy and it only takes a few minutes!

WHEN TO TEST YOUR SOIL

Soil should be tested periodically throughout the growing season, but it is especially recommended to test before planting in Spring and when preparing beds in Fall. And, if you feel your plants are not growing well, a soil test may help.

Included in the kit are:

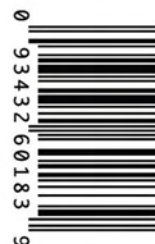
40 test capsules, 10 each for pH, N, P and K, Four (4) Color-coded Test Tubes, Test Tube Storage Dock, complete instructions for adjusting soil pH, fertilization guidelines and pH preference list for over 450 plants for the home, yard and garden.

Soil Test Kit Components
Complete Instruction booklet Inside.



60183L

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Assembled in USA from
Foreign and Domestic parts



757860

| Appendix K

P.O. Box 62228 Midland TX 79711 Tel: 432-563-2200 Fax: 432-563-2213

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 521177

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 521177
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2016146439
Incident Name	NRM2016146439 TOMCAT 21 FEDERAL #1 @ 30-025-33356
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-025-33356] TOMCAT 21 FEDERAL #001

Location of Release Source	
Site Name	TOMCAT 21 FEDERAL #1
Date Release Discovered	05/24/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	4,831
What is the estimated number of samples that will be gathered	37
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/03/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Paduca Breaks Lane and Alisha Lane, go north on Alisha Lane for 1 mile, go west on lease road for 0.92 mile to GPS coordinates (32.30250,103.67110)

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

CONDITIONS

Action 521177

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 521177
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/29/2025
jraley	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	10/29/2025

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

QUESTIONS

Action 521181

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 521181
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2016146439
Incident Name	NRM2016146439 TOMCAT 21 FEDERAL #1 @ 30-025-33356
Incident Type	Produced Water Release
Incident Status	Remediation Plan Approved
Incident Well	[30-025-33356] TOMCAT 21 FEDERAL #001

Location of Release Source	
Site Name	TOMCAT 21 FEDERAL #1
Date Release Discovered	05/24/2020
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	4,831
What is the estimated number of samples that will be gathered	37
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/04/2025
Time sampling will commence	07:00 AM
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From the intersection of Paduca Breaks Lane and Alisha Lane, go north on Alisha Lane for 1 mile, go west on lease road for 0.92 mile to GPS coordinates (32.30250,103.67110)

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CONDITIONS

Action 521181

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 521181
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	10/29/2025
jraley	If confirmation sampling is going to take place over multiple days, individual C-141N applications must be submitted for each sampling date. Date ranges are not currently accepted on the C-141N application.	10/29/2025

Erick Herrera

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Thursday, December 4, 2025 12:46 PM
To: Anna Byers
Cc: geo; Raley, Jim; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD
Subject: Re: [EXTERNAL] Devon Energy Extension Request - Tomcat 21 Federal #1 (nRM2016146439)

Good day Anna,

Thank you for the request. Your 90-day time extension is approved. Remediation Due date has been updated to March 4, 2026.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Senior Environmental Scientist
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, December 4, 2025 10:58 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Devon Energy Extension Request - Tomcat 21 Federal #1 (nRM2016146439)

From: Anna Byers <anna@etechenv.com>
Sent: Wednesday, December 3, 2025 4:54 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; ocdonline, emnrd, EMNRD <emnrd.ocdonline@emnrd.nm.gov>
Cc: geo <geo@etechenv.com>; Jim.Raley@dvn.com
Subject: [EXTERNAL] Devon Energy Extension Request - Tomcat 21 Federal #1 (nRM2016146439)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good evening,

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Devon Energy Production Co., LP (Devon), respectfully requests a 90-day extension for a report due on December 4, 2025, associated with Incident Number nRM2016146439 at the Tomcat 21 Federal #1 (Site). The excavation has been completed as per the approved Site Characterization and Remediation Plan, and confirmation soil samples have been collected from the excavation. To allow sufficient time for review of laboratory results, and prepare a comprehensive Closure and Reclamation Request report, Devon requests a 90-day extension of the current December 4, 2025, deadline to March 4, 2026, for Incident Number nRM2016146439.

Thank you,



Anna Byers
Senior Geologist
Etech Environmental & Safety Solutions, Inc.
C: (432) 305-6415

Abe Valladares

From: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Sent: Wednesday, March 26, 2025 8:51 AM
To: Erick Herrera
Cc: Raley, Jim; NM TX Geo Group; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD
Subject: Re: [EXTERNAL] Devon Characterization Variance Request - Tomcat 21 Federal 1 (nRM2016146439)

Good morning Erick,

Thank you for the correspondence. Your variance request demonstrating groundwater estimation >100 ft. is approved.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

Nelson Velez • Environmental Specialist - Adv
Environmental Bureau | EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87410
(505) 469-6146 | nelson.velez@emnrd.nm.gov
<http://www.emnrd.nm.gov/oecd>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Monday, March 24, 2025 3:47 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Devon Characterization Variance Request - Tomcat 21 Federal 1 (nRM2016146439)

From: Erick Herrera <erick@etechenv.com>
Sent: Monday, March 24, 2025 2:10 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Raley, Jim <jim.raley@dvn.com>; NM TX Geo Group <NMTXGeoGroup@etechenv.com>

Subject: [EXTERNAL] Devon Characterization Variance Request - Tomcat 21 Federal 1 (nRM2016146439)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

Attached, you will find a Characterization Variance Request for the Tomcat 21 Federal 1 (Site) for Incident Number (nRM2016146439) for your review. This request proposes to utilize a Table I depth to ground water (DTW) greater than 100 feet below ground surface (bgs), based on recent OSE POD and USGS data in the vicinity of the Site.

Please let me know if you have any questions or require any additional information.

Thanks,



Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

Ethan Jaso

From: Knight, Tami C. <tknight@nmslo.gov>
Sent: Tuesday, September 23, 2025 8:41 AM
To: Erick Herrera
Cc: Raley, Jim; NM TX Geo Group
Subject: RE: (Remediation Plan Submittal) Tomcat Federal 1 (nRM2016146439) 5-24-2020 - Response Needed

Thank you. I see it in my inbox now...got buried.

Have a great day!

Tami

From: Erick Herrera <erick@etechenv.com>
Sent: Tuesday, September 23, 2025 7:02 AM
To: Knight, Tami C. <tknight@nmslo.gov>
Cc: Raley, Jim <jim.ralej@dv.com>; NM TX Geo Group <NMTXGeoGroup@etechenv.com>
Subject: [EXTERNAL] RE: (Remediation Plan Submittal) Tomcat Federal 1 (nRM2016146439) 5-24-2020 - Response Needed

Good morning Tami,

The response was submitted on September 17th, 2025, by Jim. I've attached the original response email thread.

Please let me know if any additional information is required.

Thank you,



Erick Herrera
Lead Project Geologist/GIS Manager
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Knight, Tami C. <tknight@nmslo.gov>
Sent: Tuesday, September 23, 2025 7:48 AM
To: Raley, Jim <jim.ralej@dv.com>; NM TX Geo Group <NMTXGeoGroup@etechenv.com>
Subject: RE: (Remediation Plan Submittal) Tomcat Federal 1 (nRM2016146439) 5-24-2020 - Response Needed

Following up on the requested response highlighted below.



Tami C. Knight, CHMM
 Senior Environmental Scientist
 Environmental Compliance Office
 Mobile: 505.670.1638
tknight@nmslo.gov
nmstatelands.org



Reminder: All notifications, workplans, and reports must be submitted to eco@nmslo.gov. Submittal of these items to individual ECO staff emails will not be accepted.

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From: Knight, Tami C.
Sent: Tuesday, September 16, 2025 12:18 PM
To: Erick Herrera <erick@etechnv.com>
Cc: Raley, Jim <jim.raleigh@dmv.com>; NM TX Geo Group <NMTXGeoGroup@etechnv.com>; Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>; Griffin, Becky R. <bgriffin@nmslo.gov>; David, Deon W. <ddavid@nmslo.gov>
Subject: RE: (Remediation Plan Submittal) Tomcat Federal 1 (nRM2016146439) 5-24-2020 - Approved with Conditions

This is a reminder to Etech, if you are working on any phase of site assessment/delineation, remediation or reclamation on State Trust Land, you must be working with ECO. Future workplans with missing data or lack of communication with ECO may result in denial and require repeat of field work.

RE: 30-025-33356 (PSR)/Devon; Tomcat Federal 1; R3196 & V043400004/Devon Energy
Incident #: nRM2016146439 (release is associated with flowline in pasture, not at well site or tank battery)
ROE #: RE-7442 due to other ROW impacts...be sure ROE is not expired
Remediation Workplan Received: September 8, 2025
Workplan Status: **Approved with Conditions**

Details regarding the workplan review are provided in the table below. The lessee and/or their contractor are responsible for ensuring that the project manager and field personnel performing the work follow the approved work plan. **Please respond to this email by September 19, 2025, that you understand and agree to the conditions of approval.**

General Scope of Work Topics Addressed in Remediation Workplan In Detail	Included/Approved	Not Included/Not Approved	Not Required
NMOCD Record Review		Workplan introduction states that release occurred at the Tomcat site but site map illustrates release	

		from a pipeline in the pasture not located at the Tomcat site. Later narrative discusses correct location of release. The workplan documents communication w/ OCD regarding a DTW variance request. This was not discussed with ECO and we were not given the opportunity to weigh in. Based on our own desktop review, ECO will agree to the DTW determination of greater than 100 ft	
Historical Aerial Review with Areas of Concern Identified			
CPP/Bio Statements	Included and accepted		
Site Characterization/Closure Criteria	Approved, see comment above		
Site assessment/delineation results	Included		
Remediation Method Detailed	Excavation approved;		
Sampling Protocol	Approved		
Reclamation Workplan/Discussion	ECO agrees with NMOCD conditions of approval for backfill sampling	Backfill must match natural soil horizons. NMSLO seed mix was not proposed and soil profile was not discussed. Based on Web Soil Survey data, Sandy seed mix must be used on State Trust Land	
Schedule of Implementation	ECO agrees to NMOCD's closure deadline of December 4, 2025		

We appreciate the efforts being taken to remediate and reclaim State Trust Land.



Environmental Compliance Office

New Mexico State Land Office

eco@nmslo.gov

nmstatelands.org



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From: Erick Herrera <erick@etechnv.com>
Sent: Monday, September 8, 2025 2:52 PM
To: SLO Spills <spills@nmslo.gov>
Cc: Raley, Jim <jim.ralej@dm.com>; NM TX Geo Group <NMTXGeoGroup@etechnv.com>
Subject: [EXTERNAL] (Remediation Plan Submittal) Tomcat Federal 1 (nRM2016146439) 5-24-2020

Good afternoon Eco,

On behalf of Devon Energy Production Co., LP (Devon), Etech Environmental & Safety Solutions Inc. (Etech), presents a Site Characterization Remediation Plan (SCRP) for the Tomcat 21 Federal 1 (Site). The SCRP assigned application ID ([497402](#)), was recently submitted to the NMOCD and subsequently approved on September 5th, 2025. A Right-of-Entry permit (RE-7442) is currently being renewed.

Please let me know if you have any questions or need additional information to move forward with remediation and subsequent reclamation efforts.

Thank you,



Erick Herrera
Lead Project Geologist/GIS Manager
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

Erick Herrera

From: Erick Herrera
Sent: Thursday, February 27, 2025 3:32 PM
To: Flynn-Cox, Renae C
Cc: NM TX Geo Group
Subject: RE: [EXTERNAL] SSPS Habitat question - Gypsum Wild Buckwheat

Thank you Renae!

Thanks,



Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

From: Flynn-Cox, Renae C <rflynncox@blm.gov>
Sent: Thursday, February 27, 2025 2:55 PM
To: Erick Herrera <erick@etechenv.com>
Cc: NM TX Geo Group <NMTXGeoGroup@etechenv.com>
Subject: Re: [EXTERNAL] SSPS Habitat question - Gypsum Wild Buckwheat

good afternoon.

there is no appropriate habitat associated with this spill. no surveys needed.

thanks,
renae

Renae Cox
Botanist
Bureau of Land Management
Carlsbad Field Office
620 E. Greene Street
Carlsbad, NM 88220
(575)-234-5923

From: Erick Herrera <erick@etechenv.com>
Sent: Thursday, February 27, 2025 11:01 AM
To: Flynn-Cox, Renae C <rflynncox@blm.gov>
Cc: NM TX Geo Group <NMTXGeoGroup@etechenv.com>
Subject: [EXTERNAL] SSPS Habitat question - Gypsum Wild Buckwheat

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Hi Renae,

I hope this message finds you well. I am writing to request your assistance regarding an inadvertent release of produced water that occurred at a site located within both BLM and SLO boundaries, as referenced in the attached kmz file. We have consulted with a third-party biologist who identified a small section of habitat for Gypsum Wild Buckwheat in the area. However, we were informed that third-party biologists are not permitted to conduct surveys for this federally endangered species. Given the importance of protecting this habitat, would you be able to evaluate any potential impacts from our activities for any potential SSPS habitats within our requested area in the kmz?

Thank you,



Erick Herrera
Project Geologist
Etech Environmental & Safety Solutions, Inc.
W: (432) 305-6416
C: (281) 777-4152

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

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Phone: (505) 629-6116

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

QUESTIONS

Action 559205

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 559205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2016146439
Incident Name	NRM2016146439 TOMCAT 21 FEDERAL #1 @ 30-025-33356
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-33356] TOMCAT 21 FEDERAL #001

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	TOMCAT 21 FEDERAL #1
Date Release Discovered	05/24/2020
Surface Owner	Federal

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

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 68 BBL Recovered: 0 BBL Lost: 68 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 559205

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 559205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

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

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

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 03/03/2026
--	--

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

General Information
Phone: (505) 629-6116

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State of New Mexico
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Santa Fe, NM 87505

QUESTIONS, Page 3

Action 559205

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 559205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

Requesting a remediation plan approval with this submission	Yes
<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)	6130
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	10/31/2025
On what date will (or did) the final sampling or liner inspection occur	06/24/2025
On what date will (or was) the remediation complete(d)	10/31/2025
What is the estimated surface area (in square feet) that will be reclaimed	4831
What is the estimated volume (in cubic yards) that will be reclaimed	716
What is the estimated surface area (in square feet) that will be remediated	4831
What is the estimated volume (in cubic yards) that will be remediated	716

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

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

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 4

Action 559205

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 559205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(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	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
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	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 03/03/2026
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 559205

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 559205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 559205

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 559205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	521185
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/05/2025
What was the (estimated) number of samples that were to be gathered	37
What was the sampling surface area in square feet	4831

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	5678
What was the total volume (cubic yards) remediated	1472
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	Remediation Complete

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

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

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 03/03/2026
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QUESTIONS, Page 7

Action 559205

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 559205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 559205

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 559205
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
nvez	None	4/6/2026