



# SITE CHARACTERIZATION AND REMEDIATION PLAN

*Prepared For:*

*Devon Energy Production Company, LP*

*5315 Buena Vista Dr.*

*Carlsbad, NM 88220*

*Site Information:*

**Tomcat 21 Federal 1**

**Incident Number nRM2016146439**

*Unit I, Section 16, Township 23 South, Range 32 East*

*Lea County, New Mexico*

*(32.30251 °, -103.67111 °)*

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## SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Devon Energy Production Company, LP (Devon), presents the following Site Characterization and Remediation Plan (SCRP) detailing delineation soil sampling activities, associated with an inadvertent release of produced water at the Tomcat 21 Federal 1 (Site). Based on laboratory analytical results, Devon proposes this SCR, which summarizes initial response efforts, sampling activities and details remediation objectives to rectify environmental impacts at the Site.

## SITE LOCATION AND RELEASE 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 could be 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.

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

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, was submitted by Etech on March 24, 2025, and subsequently approved by the NMOCD on March 26, 2025.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

As previously described in the CVR, the Site was characterized according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC) considering depth to ground water and the proximity to:

- 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 fresh water 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.

All potential receptors are not 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 well records are included in **Appendix B**.

Based on the CVR previously approved by the NMOCD, the following closure criteria was applied:



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

<sup>†</sup>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.

## CULTURAL PROPERTIES PROTECTION RULE

Per the requirements set forth by 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) to perform an intensive pedestrian survey on undisturbed areas on the NMSLO-managed land on January 16, 2025. The pedestrian survey yielded negative with no archaeological sites and/or historic properties observed during the investigation. As a result, it was determined that Devon had authorization to proceed with remediation activities without cultural resource concerns. A copy of the New Mexico Cultural Resources Information System (NMCRIS) Cultural Resources Cover Sheet (Activity Number: 157605) is included in **Appendix C**.

## BIOLOGICAL SENSITIVE AREAS

Based on a desktop review, the Site overlays the Lesser Prairie Chicken Habitat (Isolated Population Area). Under the established Timing Limitation Stipulation, to minimize potential impacts on this species, all work activities on the Site will be restricted during the critical nesting and breeding period from March 1<sup>st</sup> to June 15<sup>th</sup>. During this period, no work will occur between the hours of 0300 to 0900 to reduce disturbances caused by noise and/or human activity.

Given the AOC proximity to a Federal Land boundary, Etech, on behalf of Devon, consulted with a Bureau of Land Management (BLM) botanist for an assessment of 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 I**. According to the U.S Fish and Wildlife Service (USFWS) and National Marine Fisheries Services (NMFS), no critical habitats that support threatened or endangered (T/E) species were identified within the Area of Potential Effect (APE) (**Appendix D**).

## DELINEATION SOIL SAMPLING ACTIVITIES

From April to June 2025, Etech conducted delineation activities to assess the presence or absence of residual soil impacts associated with the AOC, based on the information provided in the Form C-141. Thirty-four delineation boreholes (BH01 through BH34) were advanced via hand auger within and around the AOC, which were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two soil samples were collected from each delineation soil sampling location, representing the highest observed field screening concentration(s) and the greatest depth. Field screening results and soil observations are included on soil sampling logs in **Appendix E**. The delineation soil sample locations are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix F**.



Delineation soil samples were placed directly into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Envirotech, Inc. Laboratories (Envirotech) in Farmington, New Mexico, for analysis of COCs.

## LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples surrounding the AOC were compliant with the Site Closure Criteria and/or reclamation standard. Additionally, BTEX concentrations were below the Site Closure Criteria for all delineation soil samples.

Laboratory analytical results for soil samples within the AOC indicated that chloride concentrations exceed the Site Closure Criteria and/or reclamation standard up to 4 feet bgs. Elevated chloride concentrations were characterized by concentrations ranging from 826 mg/kg to 6,130 mg/kg.

Laboratory analytical results are summarized in **Table 1** included in **Appendix G**. The executed chain-of-custody form and laboratory reports are provided in **Appendix H**.

## PROPOSED REMEDIATION WORK PLAN

Residual soil impacts have been sufficiently vertically and horizontally delineated as defined by the Site Closure Criteria. Chloride concentrations exceedances above the Site Closure Criteria were presented within the AOC, for more than half of the delineation soil sample locations. Further remedial action is required to address residual soil impacts.

Based on the delineation soil sampling analytical results, the following conclusions regarding the inadvertent release are presented:

- The horizontal periphery of the AOC has been sufficiently defined, and
- Residual impacts have been identified within the AOC up to 4 feet bgs.

Based on the conclusions drawn above, Devon proposes to the following corrective actions:

- Excavation(s) will be advanced laterally and vertically until the Site Closure Criteria and/or reclamation standard is met. Based on current delineation soil sampling results, a minimum of 716 cubic yards (4,831 square feet up to 4 feet bgs) will be excavated based on delineation analytical results. The proposed excavation extents are shown on **Figure 3** in **Appendix A**.
- Impacted soil will be transported to a nearby landfill facility for disposal under approved Devon waste manifests.
- It is noted that a delineation soil sample notification was not submitted for soil samples collected on April 28, 2025, for delineation soil samples BH01 through BH05. Vertical and horizontal delineation will be achieved through the collection of confirmation floor and side wall soil samples. It is anticipated that these confirmation soil samples, collected within the vicinity of BH01 through BH05, will meet the applicable closure criteria and/or reclamation standard per 19.15.29.12 NMAC.
- Following the completion of excavation activities, 5-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at a frequency not to exceed 200 square feet per soil sample. Confirmation soil samples will be handled and analyzed for COCs by an accredited laboratory as previously described. Prior to "final" confirmation soil sampling event, a 48-hour sampling notification will be submitted to the NMOC and NMSLO in accordance with 19.15.29.12D(1(a)) NMAC, to provide the opportunity to witness the sampling event.





- Upon receipt of confirmation soil sample laboratory analytical results indicating compliance with the applicable Site Closure Criteria, Devon will backfill the excavation(s) with clean, locally sourced soil and restored to "as close to its original state as possible". The total disturbed area will be reseeded with the appropriate NMSLO and BLM seed mix according to NMSLO and BLM guidelines.

### PROPOSED SCHEDULE

Upon notice of NMOCD approval of this SCRP, Devon will begin the proposed remediation activities as outlined above within 90 days. Devon believes this SCRP meets the requirements set forth in NMAC 19.15.29.13 and to be protective of human health, the environment, and groundwater. As such, Devon respectfully requests to proceed with the proposed remediation outline.

If you have any questions or comments, please do not hesitate to contact Erick Herrera at (432) 305-6416 or [erick@etechenv.com](mailto:erick@etechenv.com) or Joseph S. Hernandez at (432) 305-6413 or [joseph@etechenv.com](mailto:joseph@etechenv.com). **Appendix I** provides correspondence and email notification receipts associated with the subject release. The approved CVR is provided in **Appendix J**.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

Erick Herrera  
Project Geologist

Joseph S. Hernandez  
Senior Managing Geologist

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



**Appendices:**

- Appendix A:** Figure 1: Site Map  
Figure 1A: Site Characterization – Groundwater  
Figure 1B: Site Characterization – Surface Receptors  
Figure 1C: Site Characterization – Subsurface Receptors  
Figure 2: Proposed Delineation Locations  
Figure 3: Proposed Excavation Areas
- Appendix B:** Referenced Well Records
- Appendix C:** NMSLO Cultural Resources Cover Sheet
- Appendix D:** U. S Fish & Wildlife Service Threatened and Endangered Species Report
- Appendix E:** Soil Sampling Logs
- Appendix F:** Photographic Log
- Appendix G:** Tables
- Appendix H:** Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix I:** Correspondence & Notifications
- Appendix J:** Approved Characterization Variance Request

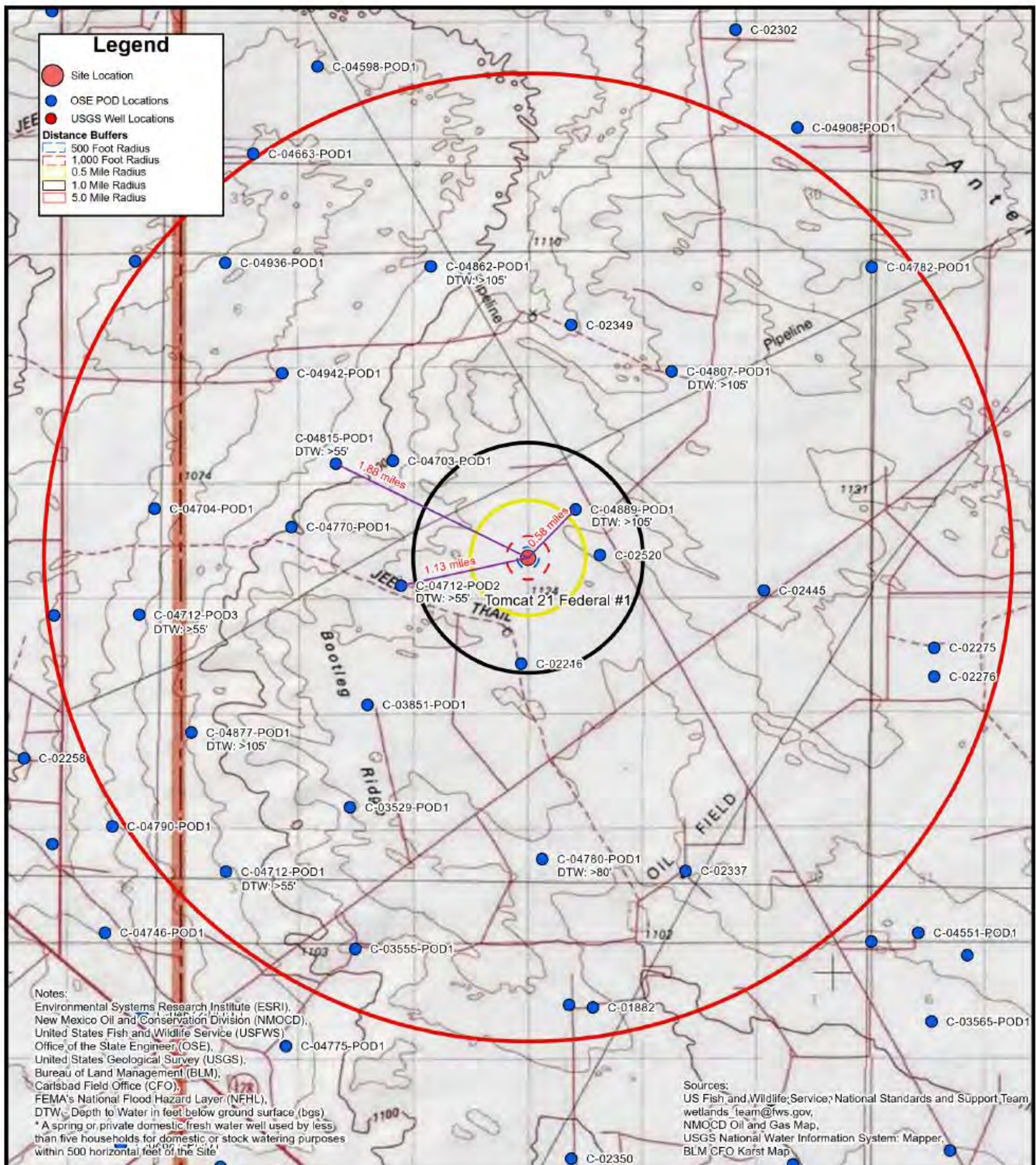
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# APPENDIX A

## Figures



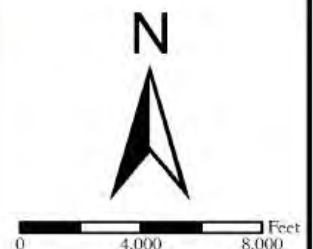




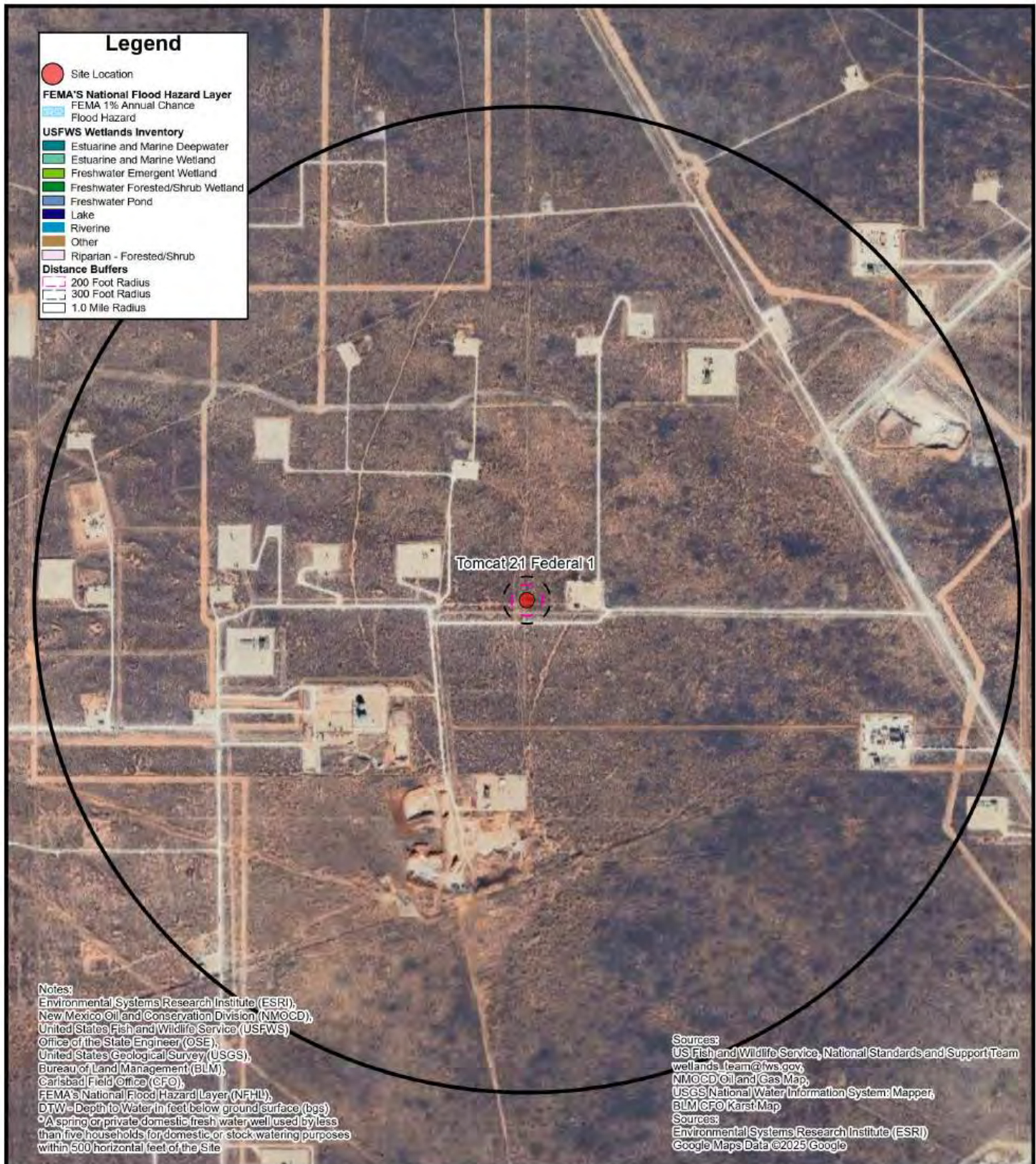
**FIGURE 1A**  
**Site Characterization Map**  
**Ground Water**

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

**eTECH**





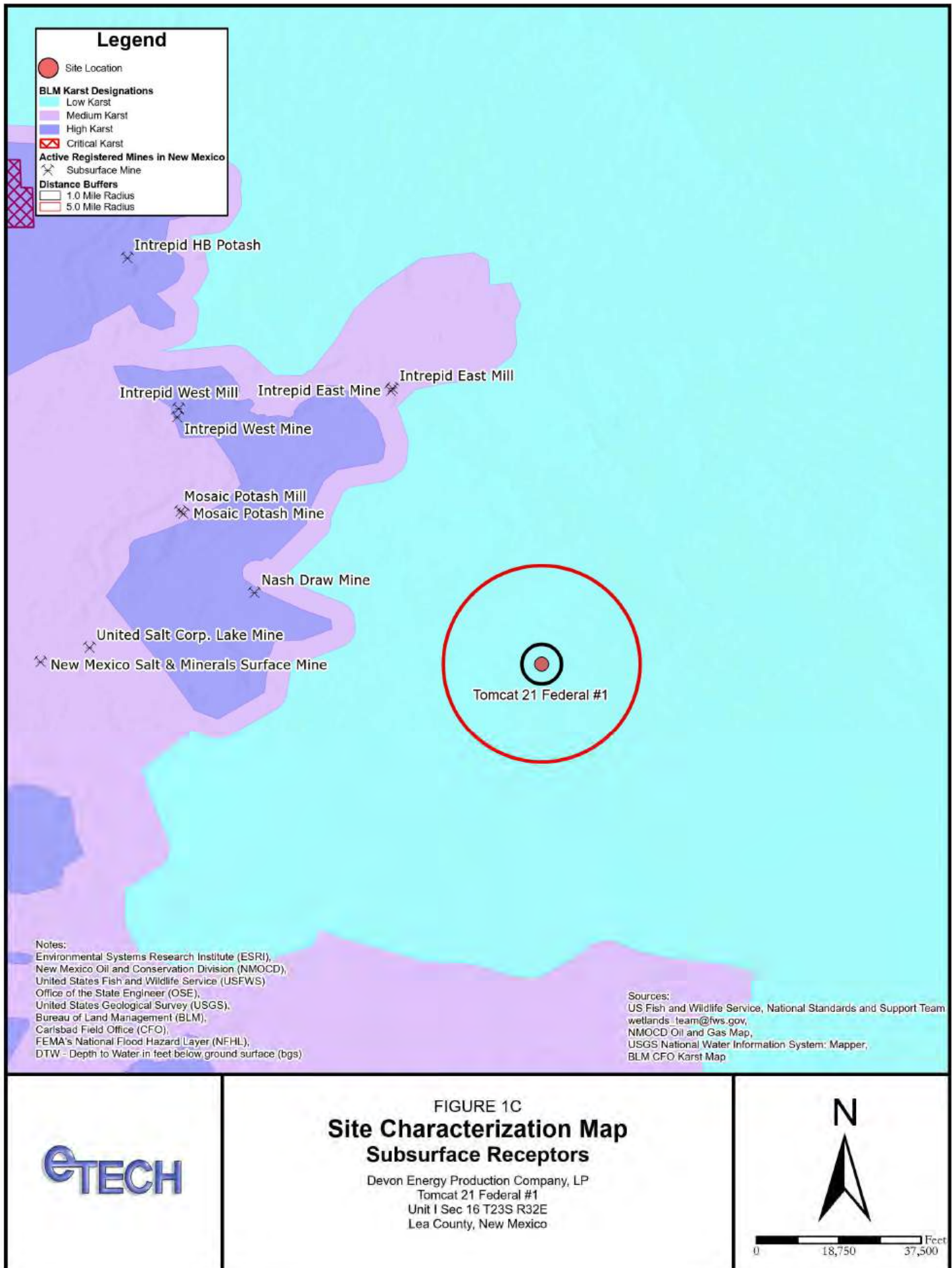


**FIGURE 1B**  
**Site Characterization Map**  
**Surficial Receptors**

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









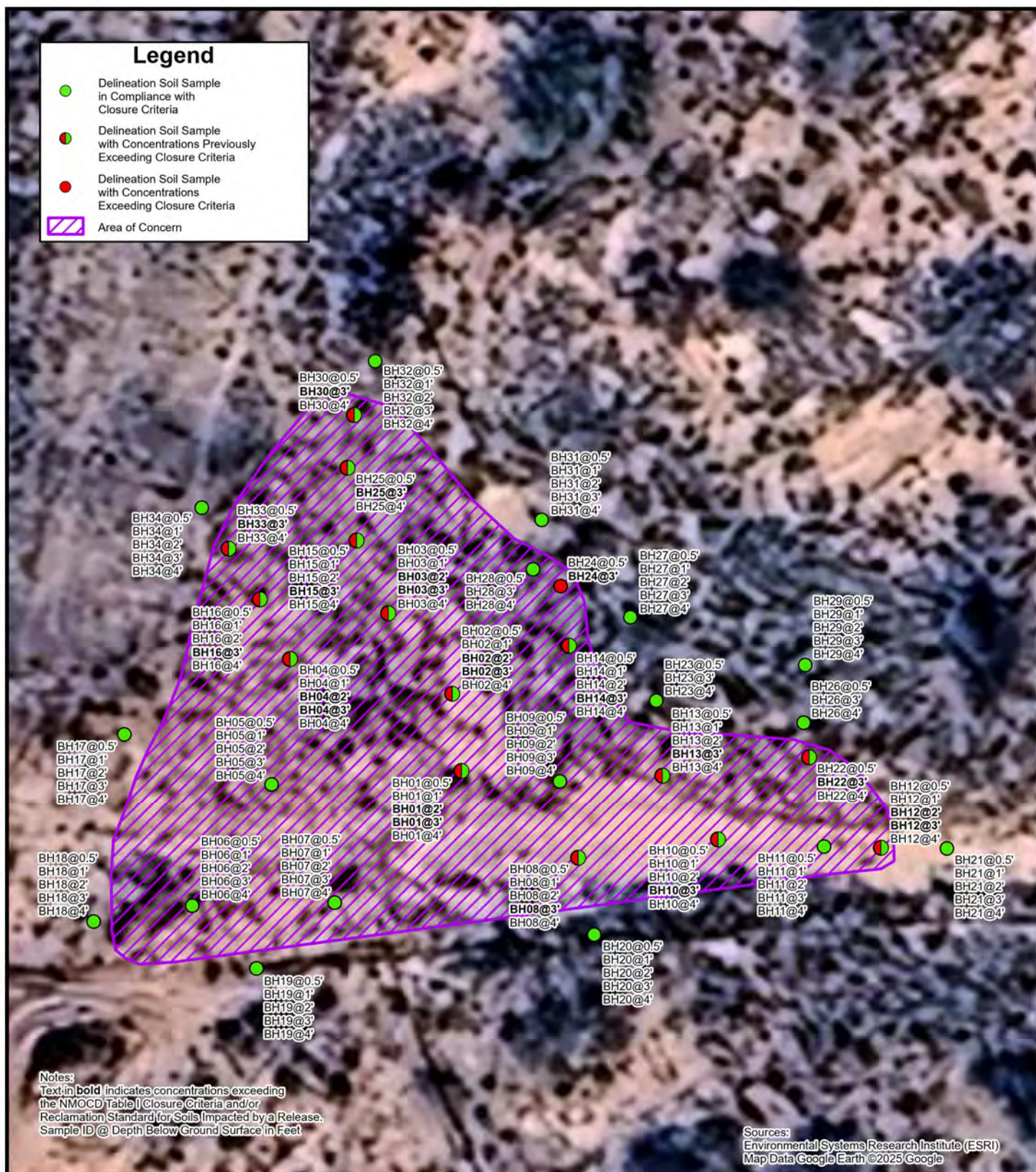


FIGURE 2

## Delineation Soil Sample Locations

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



0 16 32 Feet



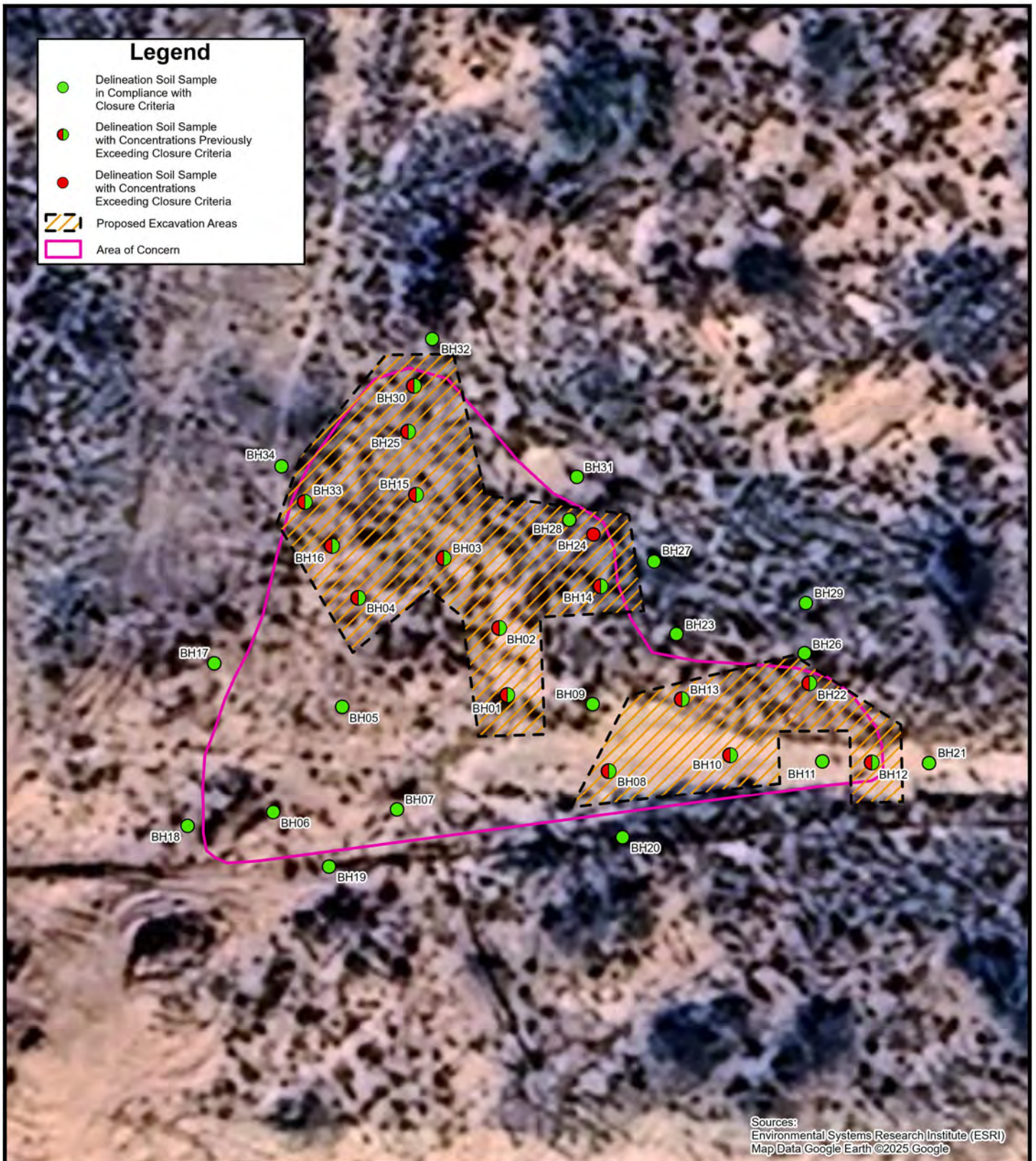
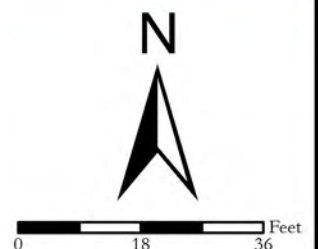


FIGURE 3

### Proposed Excavation Areas

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



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## APPENDIX B

### Referenced Well Records



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)

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





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) PODI		WELL TAG ID NO. N/A		OSE FILE NO(S) C-04889 PODI			
	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		
		LONGITUDE 103	39	50.45	W	* DATUM REQUIRED- WGS 84		
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) FROM TO		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)
	0	105	5.00	Soil Boring				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

FOR OSE INTERNAL USE:

WR-20 WELL RECORD & LOG (Version 04/06/19)

FILE NO

POD NO

TRN NO

LOCATION

WELL TAG ID NO

PAGE 1 OF 2

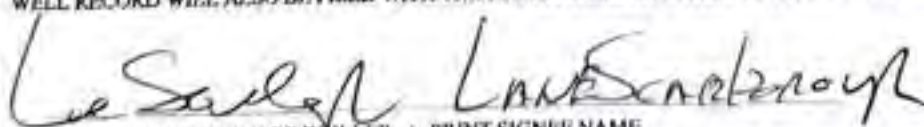


4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
	FROM	TO				
	0	10	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	
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): 0.00	

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.
	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.	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	
	12/13/2024 DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	



# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.)		WELL TAG ID NO.		OSE FILE NO(S)		
	C-4712 Pod 2				C-4712		
	WELL OWNER NAME(S)				PIRINE (OPTIONAL)		
	Harwood Petroleum Company						
WELL OWNER MAILING ADDRESS		CITY		STATE	ZIP		
P.O. Box 936		Roswell		NM	88202		
WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS		* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LATITUDE	32	17	56.4	N	* DATUM REQUIRED: WGS 84	
	LONGITUDE	-103	44	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.		NAME OF LICENSED DRILLER		NAME OF WELL DRILLING COMPANY		
	1833		Jason Maley		Vision Resources		
	DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)		
	3-9-2023	3-9-2023	55	55	Dry		
	COMPLETED WELL IS:			STATIC WATER LEVEL IN COMPLETED WELL (FT)		DATE STATIC MEASURED	
	<input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)			Dry		Dry	
	DRILLING FLUID:			ADDITIONS - SPECIFY:			
	<input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> OTHER - SPECIFY:						
	DRILLING METHOD:			CHECK HERE IF PITLESS ADAPTER IS INSTALLED			
	<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						
			None				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE - RANGE BY INTERVAL *(If using Centralizers for Artesian wells, indicate the spacing below)	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



*Released to Imaging: 9/5/2025 2:58:07 PM*

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, appearing to read "Maret Thompson".

Maret Thompson  
(575) 622-6521

drywell



## WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.osc.state.nm.us](http://www.osc.state.nm.us)

1. GENERAL AND WELL LOCATION	USE POD NO. (WELL NO.) <del>C-4815</del> <b>POD /</b>		WELL TAG ID NO.		USE FILE NO(S) C-4815- <del>PDSB</del>	
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)	
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE ZIP NM 88240
	WELL LOCATION FROM GPS:	DEGREES LATITUDE LONGITUDE	MINUTES 18	SECONDS 51.8 N 59.4 W	* ACCURACY REQUIRED - ONE TENTH OF A SECOND. * DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHEN AVAILABLE:						
2. DRILLING & CASING INFORMATION	LICENSE NO. 1833		NAME OF LICENSED DRILLER Jason Maley		NAME OF WELL DRILLING COMPANY Visum 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 <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED) <i><small>Centralizers info below</small></i>				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)
FROM	TO					
0	45	6"	PVC 2" SCH40	Thread	2"	SCH40
45	55	6"	PVC 2" SCH40	Thread	2"	SCH40
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 holes)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
				None pulled and plugged		

FOR USE INTERNAL USE

WR-26 WELL RECORD &amp; LOG (Version 09/22/2022)

FILE NO C-04815

POD NO	
--------	--

TRN NO 757440

LOCATION 235.32E.08-143

WELL TAG ID NO

PAGE 1 OF 2



#### 4. HYDROGEOLOGIC LOG OF WELL.

#### C. TEST: RIG SUPERVISION

6. SIGNATURE \_\_\_\_\_

FOR USE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO	C-04815	POD NO.	1
LOCATION		TRN NO	757440
735 37E.08.143		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: 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 black ink, appearing to read "Rodolfo Chavez".

Rodolfo Chavez  
(505) 622-6521

drywell

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## APPENDIX C

### NMSLO Cultural Resources Cover Sheet



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

## NMSLO Cultural Resources Cover Sheet Exhibit

**NMCRIS Activity Number:**

(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):

Cultural Resources Consultant:

Project Proponent (Applicant):

Project Title/Description:

**Project Location:**

County(ies):

PLSS/Section/Township/Range):

---

**For NMSLO Agency Use Only:**

NMSLO Lease Number:

Acknowledgment-Only:

Lease Analyst:

Date Exhibit Routed to Cultural Resources Office:

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*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

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## APPENDIX D

### U.S Fish & Wildlife Service Threatened and Endangered Species Report

**IPaC****U.S. Fish & Wildlife Service**

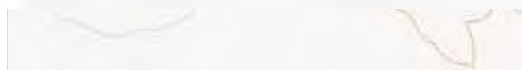
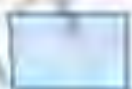
# IPaC resource list

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 species<sup>1</sup> 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 Fisheries<sup>2</sup>).

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. <a href="https://ecos.fws.gov/ecp/species/1924">https://ecos.fws.gov/ecp/species/1924</a>	Endangered
Northern Aplomado Falcon <i>Falco femoralis septentrionalis</i> No critical habitat has been designated for this species. <a href="https://ecos.fws.gov/ecp/species/1923">https://ecos.fws.gov/ecp/species/1923</a>	<a href="#">EXPN</a>

## Clams

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

## Insects

NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i> Wherever found There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical habitat. <a href="https://ecos.fws.gov/ecp/species/9743">https://ecos.fws.gov/ecp/species/9743</a>	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 <sup>2</sup> and the Migratory Bird Treaty Act (MBTA) <sup>1</sup>. 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-incidental-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) <sup>1</sup> 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-incidental-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.

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## APPENDIX E

### Soil Sampling Logs



Sample Name: BH01

Date: 04/28/2025

Site Name: Tomcat 21 Federal #001 ROW

Incident Number: nRM20116146439

Job Number: 19304

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: HB

Method: Hand Auger

Delineation Soil Sample Coordinates: 32.302439, -103.671164

Hole Diameter: 3.75"

Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Moist	<116	1.6	No	BH01	0.5	0.5	SP-SM	(0-4') SAND with some silt, moist, reddish brown, poorly graded with silt, very fine to fine grain, some clay, low cohesiveness, no staining or odor.  @ 2' Decrease in clay from some to trace.  @ 2.5' Increase in cohesiveness from low to some.  @ 3' Decrease in clay from trace to none.  @ 4' Increase in clay from none to trace, increase in cohesiveness from some to high.
Moist	<116	0.8	No	BH01	1	1		
Moist	976	0.8	No	BH01	2	2		
Moist	1,816	0.2	No	BH01	3	3		
Moist	1,640	0.3	No	BH01	4	4		

Total Depth





Sample Name: BH02 Date: 04/28/2025

Site Name: Tomcat 21 Federal #001 ROW

Incident Number: nRM20116146439

Job Number: 19304

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: HB

Method: Hand Auger

Delineation Soil Sample Coordinates: 32.302484, -103.671169

Hole Diameter: 3.75"

Total Depth: 4'

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Moist	228	0.4	No	BH02	0.5	0.5	SP-SM	(0-4') SAND with some silt, moist, reddish brown, poorly graded with silt, very fine to fine grain, trace clay, low cohesiveness, no staining or odor.
Moist	332	0.3	No	BH02	1	1		
Moist	2,372	0.4	No	BH02	2	2		@2' Color change from reddish brown to red, decrease in clay from trace to none, increase in silt from some to abundant.
Moist	5,888	0.4	No	BH02	3	3		@4' Refusal, color change from red to brown, decrease in silt from abundant to some, increase in gravel from none to trace, increase in cohesiveness from low to some.
Dry	3,088	0.3	No	BH02	4	4		

Total Depth



Sample Name: BH03

Date: 04/28/2025

Site Name: Tomcat 21 Federal #001 ROW

Incident Number: nRM20116146439

Job Number: 19304

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: HB

Method: Hand Auger

Delineation Soil Sample Coordinates: 32.302530, -103.671206


Hole Diameter: 3.75"

Total Depth: 4'


Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.


Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.4	No	BH03	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, trace clay, low cohesiveness, no staining or odor.  @2' Color change from reddish brown to red, decrease in clay from trace to none, increase in silt from some to abundant.  @4' Increase in cohesiveness from low to some.
Dry	168	0.3	No	BH03	1	1		
Dry	1,216	0.2	No	BH03	2	2		
Dry	4,640	0.3	No	BH03	3	3		
Dry	5,888	0.2	No	BH03	4	4		


Total Depth

					Sample Name: BH04		Date: 04/28/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302504, -103.671263					Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.3	No	BH04	0.5	0.5	SP-SM	(0-4') SAND with trace silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, trace clay, low cohesiveness, no staining or odor.
Dry	168	0.3	No	BH04	1	1		
Dry	1,216	0.2	No	BH04	2	2		@2' Color change from reddish brown to red, decrease in clay from trace to none, increase in silt from trace to some.
Dry	3,952	0.3	No	BH04	3	3		@3' Increase in silt from some to abundant.
Dry	3,952	0.2	No	BH04	4	4		@4' Increase in cohesiveness from low to some.
Total Depth								




								Sample Name: BH05		Date: 04/28/2025			
								Site Name: Tomcat 21 Federal #001 ROW					
								Incident Number: nRM20116146439					
								Job Number: 19304					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger			
Delineation Soil Sample Coordinates: 32.302431, -103.671274								Hole Diameter: 3.75"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
Dry	<116	0.3	No	BH05	0.5	0.5	SP-SM	(0-4') SAND with trace silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, trace clay, low cohesiveness, no staining or odor.  @3' Color change from reddish brown to red, increase in clay from trace to some.  @4' Increase in cohesiveness from low to some.					
Dry	<116	0.8	No	BH05	1	1							
Dry	<116	0.8	No	BH05	2	2							
Dry	332	1.1	No	BH05	3	3							
Dry	836	0.6	No	BH05	4	4							
Total Depth													

								Sample Name: BH06		Date: 05/01/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302361, -103.671320								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	1.5	No	BH06	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.			
Dry	<116	0.6	No	BH06	1	1					
Dry	<116	0.6	No	BH06	2	2					
Dry	<116	0.4	No	BH06	3	3		@3' Color change from reddish brown to red, increase in silt from some to abundant, increase in clay from none to trace.			
Dry	<116	0.7	No	BH06	4	4		@4' Increase in cohesiveness from low to some.			
Total Depth											

								Sample Name: BH07		Date: 05/01/2025			
								Site Name: Tomcat 21 Federal #001 ROW					
								Incident Number: nRM20116146439					
								Job Number: 19304					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger			
Delineation Soil Sample Coordinates: 32.302363, -103.671237								Hole Diameter: 3.75"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
Dry	<116	1.3	No	BH07	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @4' Color change from reddish brown to red, increase in silt from some to abundant, increase in clay from none to trace, increase in cohesiveness from low to some.					
Dry	<116	1.7	No	BH07	1	1							
Dry	<116	2.1	No	BH07	2	2							
Dry	<116	1.3	No	BH07	3	3							
Dry	<116	1.2	No	BH07	4	4							
Total Depth													



								Sample Name: BH08		Date: 05/01/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302389, -103.671096								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	1.6	No	BH08	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, trace clay, low cohesiveness, no staining or odor.  @3' Color change from reddish brown to red, increase in silt from some to abundant, decrease in clay from trace to none.  @ 4' Increase in cohesiveness from low to some.			
Dry	<116	1	No	BH08	1	1					
Dry	656	1.3	No	BH08	2	2					
Dry	5,248	0.4	No	BH08	3	3					
Dry	6,144	0.5	No	BH08	4	4					
Total Depth											



Sample Name: BH09

Date: 05/01/2025

Site Name: Tomcat 21 Federal #001 ROW

Incident Number: nRM20116146439

Job Number: 19304

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: HB

Method: Hand Auger

Delineation Soil Sample Coordinates: 32.302433, -103.671107


Hole Diameter: 3.75"

Total Depth: 4'


Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.


Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	1.3	No	BH09	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.
Dry	<116	1.3	No	BH09	1	1		
Dry	<116	1.0	No	BH09	2	2		@2' increase in clay from none to trace.
Dry	228	1.6	No	BH09	3	3		@3' Color change from reddish brown to red, increase in silt from some to abundant, increase in clay from trace to some.
Dry	836	2.0	No	BH09	4	4		@4' Increase in cohesiveness from low to some.


Total Depth

					Sample Name: BH10		Date: 05/01/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302399, -103.671016					Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	1.4	No	BH10	0.5	0.5	SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, some clay, low cohesiveness, no staining or odor.
Dry	140	1.4	No	BH10	1	1		@1' Color change to red, increase in clay.
Dry	412	2.0	No	BH10	2	2		
Dry	904	1.2	No	BH10	3	3		@3' Increase in silt from some to abundant, increase in clay from some to abundant, increase in cohesiveness from low to some.
Dry	1,224	0.9	No	BH10	4	4		
Total Depth								





								Sample Name: BH11		Date: 05/01/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302395, -103.670954								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	1.1	No	BH11	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, red, poorly graded with silt, very fine to fine grain, some clay, low cohesiveness, no staining or odor.			
Dry	<116	1.2	No	BH11	1	1					
Dry	<116	0.9	No	BH11	2	2					
Dry	168	1.1	No	BH11	3	3					
Dry	712	0.3	No	BH11	4	4					
Total Depth											

					Sample Name: BH12		Date: 05/01/2025, 05/08/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.30239, -103.670921					Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.8	No	BH12	0.5	0.5	SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @2' Color change to red, increase in clay from none to some, increase in cohesiveness from none to low.  @4' Increase in cohesiveness from low to some.
Dry	<116	1.1	No	BH12	1	1		
Dry	968	1.4	No	BH12	2	2		
Dry	1,540	1.5	No	BH12	3	3		
Dry	896	1.0	No	BH12	4	4		
Total Depth								

								Sample Name: BH13		Date: 05/01/2025, 05/08/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302436, -103.671048								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0.6	No	BH13	0.5	0.5	SP-SM	(0-1') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.			
Dry	<116	1.0	No	BH13	1	1					
Dry	<116	1.0	No	BH13	2	2					
Dry	1,128	0.7	No	BH13	3	3		@3' Color change to red.			
Dry	1,540	0.7	No	BH13	4	4					
Total Depth											



								Sample Name: BH14	Date: 05/01/2025, 05/09/2025
								Site Name: Tomcat 21 Federal #001 ROW	
								Incident Number: nRM20116146439	
								Job Number: 19304	
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB	Method: Hand Auger
Delineation Soil Sample Coordinates: 32.302511, -103.671102								Hole Diameter: 3.75"	Total Depth: 4'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes	
Dry	<116	0.5	No	BH14	0.5	0.5	SP-SM	(0-1') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.    @ 3' Increase in clay from none to trace.	
Dry	<116	0.8	No	BH14	1	1			
Dry	<116	0.3	No	BH14	2	2			
Dry	1,052	0.2	No	BH14	3	3			
Dry	1,524	0.2	No	BH14	4	4			
Total Depth									

					Sample Name: BH15		Date: 05/01/2025, 05/09/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302572, -103.671225					Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.9	No	BH15	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @ 3' Increase in clay from none to trace.
Dry	<116	0.6	No	BH15	1	1		
Dry	260	2.6	No	BH15	2	2		
Dry	1,460	2.8	No	BH15	3	3		
Dry	2,564	0.2	No	BH15	4	4		
Total Depth								



Sample Name: BH16

Date: 05/01/2025, 05/09/2025

Site Name: Tomcat 21 Federal #001 ROW

Incident Number: nRM20116146439

Job Number: 19304

**LITHOLOGIC / SOIL SAMPLING LOG**

Logged By: HB

Method: Hand Auger

Delineation Soil Sample Coordinates: 32.302538, -103.671281

Hole Diameter: 3.75 inches


Total Depth: 4 feet


Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.


Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.5	No	BH16	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @ 3' Increase in clay from none to trace.
Dry	<116	0.6	No	BH16	1	1		
Dry	228	1	No	BH16	2	2		
Dry	1,416	1.9	No	BH16	3	3		
Dry	1,524	1.4	No	BH16	4	4		


Total Depth




								Sample Name: BH17		Date: 05/01/2025, 06/24/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302460, -103.671359								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0.3	No	BH17	0.5	0.5	SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @2' Increase in clay from none to trace.  @3' Increase in clay from trace to some.			
Dry	<116	0.3	No	BH17	1	1					
Dry	<116	0.0	No	BH17	2	2					
Dry	116	0.0	No	BH17	3	3					
Dry	188	0.0	No	BH17	4	4					
Total Depth											


					Sample Name: BH18		Date: 05/01/2025, 06/24/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302352, -103.671377					Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.2	No	BH18	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.
Dry	<116	0.2	No	BH18	1	1		
Dry	<116	0.0	No	BH18	2	2		@ 2' Increase in clay from none to trace.
Dry	<116	0.0	No	BH18	3	3		@ 3' Increase in clay from trace to some.
Dry	<116	0.0	No	BH18	4	4		
Total Depth								


					Sample Name: BH19		Date: 05/01/2025, 06/24/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302325, -103.671282					Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.3	No	BH19	0.5	0.5	SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @2' Increase in clay from none to trace.  @3' Increase in clay from trace to some.
Dry	<116	0.1	No	BH19	1	1		
Dry	<116	0.0	No	BH19	2	2		
Dry	<116	0.0	No	BH19	3	3		
Dry	<116	0.0	No	BH19	4	4		
Total Depth								


								Sample Name: BH20		Date: 05/01/2025, 06/24/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302344, -103.671087								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0.3	No	BH20	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.			
Dry	<116	0.2	No	BH20	1	1					
Dry	188	0.0	No	BH20	2	2		@ 2' Increase in clay from none to trace.			
Dry	140	0.0	No	BH20	3	3		@ 3' Increase in clay from trace to some.			
Dry	<116	0.0	No	BH20	4	4					
Total Depth											




					Sample Name: BH21		Date: 05/08/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302394, -103.670883					Hole Diameter: 3.75"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.5	No	BH21	0.5	0.5	SM	(0-3') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, trace clay, low cohesiveness, no staining or odor.  @3' Color change to red, increase in clay from trace to some, refusal.
Dry	<116	0.7	No	BH21	1	1		
Dry	368	0.6	No	BH21	2	2		
Dry	412	0.7	No	BH21	3	3		
Total Depth								


								Sample Name: BH22		Date: 06/23/2025			
								Site Name: Tomcat 21 Federal #001 ROW					
								Incident Number: nRM20116146439					
								Job Number: 19304					
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger			
Delineation Soil Sample Coordinates: 32.302447, -103.670963								Hole Diameter: 3.75"		Total Depth: 4'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.													
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes					
Dry	<116	0.0	No	BH22	0.5	0.5	SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, some sit, trace clay and organic					
Dry	<116	0.0	No	BH22	1	1							
Dry	<116	0.0	No	BH22	2	2							
Dry	1,164	0.0	No	BH22	3	3							
Dry	1,964	0.0	No	BH22	4	4							
Total Depth													


					Sample Name: BH23		Date: 06/23/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302480, -103.671051					Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.0	No	BH23	0.5	0.5	SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, some sit, trace clay and organic
Dry	<116	0.0	No	BH23	1	1		
Dry	<116	0.0	No	BH23	2	2		
Dry	664	0.2	No	BH23	3	3		
Dry	900	0.1	No	BH23	4	4		
Total Depth								


					Sample Name: BH24		Date: 06/23/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302546, -103.671107					Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0	No	BH24	0.5	0.5	SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, some sit, trace clay and organic  @3' Refusal
Dry	<116	0.0	No	BH24	1	1		
Dry	<116	0.0	No	BH24	2	2		
Dry	2,420	0.3	No	BH24	3	3		
Total Depth								




								Sample Name: BH25		Date: 06/23/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302614, -103.671230								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0.0	No	BH25	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, some sit, trace clay and organic.			
Dry	<116	0.0	No	BH25	1	1					
Dry	<116	0.0	No	BH25	2	2					
Dry	2,420	0.1	No	BH25	3	3					
Dry	2,420	0.1	No	BH25	4	4					
Total Depth											


								Sample Name: BH26		Date: 06/23/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302467, -103.670966								Hole Diameter: 3.75"		Total Depth: 3'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0.0	No	BH26	0.5	0.5	SP-SM	(0-3') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, some sit, trace clay and organic.  @3' Refusal			
Dry	<116	0.0	No	BH26	1	1					
Dry	<116	0.0	No	BH26	2	2					
Dry	396	0.0	No	BH26	3	3					
Total Depth											


								Sample Name: BH27		Date: 06/23/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302528, -103.671066								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0.0	No	BH27	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, some sit, trace clay and organic.			
Dry	<116	0.0	No	BH27	1	1					
Dry	<116	0.0	No	BH27	2	2					
Dry	<116	0.0	No	BH27	3	3					
Dry	284	0.1	No	BH27	4	4					
Total Depth											


					Sample Name: BH28		Date: 06/23/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302556, -103.67112					Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.0	No	BH28	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, some sit, trace clay and organic.
Dry	<116	0.0	No	BH28	1	1		
Dry	<116	0.0	No	BH28	2	2		
Dry	664	0.1	No	BH28	3	3		
Dry	972	0.2	No	BH28	4	4		
Total Depth								




					Sample Name: BH29		Date: 06/23/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302500, -103.670965					Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0.0	No	BH29	0.5	0.5	SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, some sit, trace clay and organic.
Dry	<116	0.0	No	BH29	1	1		
Dry	<116	0.0	No	BH29	2	2		
Dry	<116	0.0	No	BH29	3	3		
Dry	664	0.0	No	BH29	4	4		
Total Depth								


								Sample Name: BH30		Date: 06/23/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302645, -103.671226								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0	No	BH30	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, some sit, trace clay and organic.			
Dry	<116	0.0	No	BH30	1	1					
Dry	<116	0.0	No	BH30	2	2					
Dry	346	0.1	No	BH30	3	3					
Dry	2,256	0.3	No	BH30	4	4					
Total Depth											

								Sample Name: BH31		Date: 06/23/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302584, -103.671118								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0	No	BH31	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, some sit, trace clay and organic			
Dry	<116	0.0	No	BH31	1	1					
Dry	<116	0.0	No	BH31	2	2					
Dry	<116	0.0	No	BH31	3	3					
Dry	<116	0.0	No	BH31	4	4					
Total Depth											

								Sample Name: BH32		Date: 06/24/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302676, -103.671214								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0	No	BH32	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, abundant silt, trace clay and organic.			
Dry	<116	0.0	No	BH32	1	1					
Dry	<116	0.0	No	BH32	2	2					
Dry	<116	0.0	No	BH32	3	3					
Dry	284	0.0	No	BH32	4	4					
Total Depth											



								Sample Name: BH33		Date: 06/24/2025	
								Site Name: Tomcat 21 Federal #001 ROW			
								Incident Number: nRM20116146439			
								Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302568, -103.671299								Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes			
Dry	<116	0.0	No	BH33	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, abundant silt, trace clay and organic.			
Dry	188	0.1	No	BH33	1	1					
Dry	536	0.3	No	BH33	2	2					
Dry	3,644	0.4	No	BH33	3	3					
Dry	6,372	0.5	No	BH33	4	4					
Total Depth											

					Sample Name: BH34		Date: 06/24/2025	
					Site Name: Tomcat 21 Federal #001 ROW			
					Incident Number: nRM20116146439			
					Job Number: 19304			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>					Logged By: HB		Method: Hand Auger	
Delineation Soil Sample Coordinates: 32.302591, -103.671314					Hole Diameter: 3.75"		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<116	0	No	BH34	0.5	0.5	SP-SM	(0-4') SAND with some silt, dry, reddish brown, poorly graded with silt, very fine to fine grain, low cohesiveness, no staining or odor.  @3' Color change to red brown, abundant silt, trace clay and organic
Dry	<116	0.1	No	BH34	1	1		
Dry	116	0.3	No	BH34	2	2		
Dry	224	0.4	No	BH34	3	3		
Dry	356	0.5	No	BH34	4	4		
Total Depth								

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# APPENDIX F

## Photographic Log

**PHOTOGRAPHIC LOG**

Devon Energy Production Company, LP

Tomcat 21 Federal 1

Incident Number: nRM2016146439

**Photograph 1****Date: 04/28/2025**

Description: Southwestern view of delineation activities near, BH04.

**Photograph 2****Date: 05/01/2025**

Description: Northeastern view of delineation activities near, BH08.

**Photograph 3****Date: 05/09/2025**

Description: Southeastern view of delineation activities near, BH16.

**Photograph 4****Date: 06/23/2025**

Description: Southwestern view of delineation activities near, BH27.

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# APPENDIX G

## Tables





**Table 1**  
**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
Delineation Soil Samples - Incident Number nRM2016146439										
BH01*	04/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01*	04/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	80.8
BH01*	04/28/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>884</b>
BH01*	04/28/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>2,110</b>
BH01	04/28/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,440
BH02*	04/28/2025	0.5	<0.0250	0.0334	<20.0	<25.0	<50.0	<25.0	<50.0	160
BH02*	04/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	295
BH02*	04/28/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>2,420</b>
BH02*	04/28/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>6,130</b>
BH02	04/28/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,500
BH03*	04/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	54.9
BH03*	04/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	89.6
BH03*	04/28/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>1,420</b>
BH03*	04/28/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>4,410</b>
BH03	04/28/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,720
BH04*	04/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	24.6
BH04*	04/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	113
BH04*	04/28/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>1,130</b>
BH04*	04/28/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<b>3,720</b>
BH04	04/28/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,800
BH05*	04/28/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH05*	04/28/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH05*	04/28/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	61.3
BH05*	04/28/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	250
BH05	04/28/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,270



**Table 1**  
**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
Delineation Soil Samples - Incident Number nRM2016146439										
BH06*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH06*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH06*	05/01/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH06*	05/01/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	20.9
BH06	05/01/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	80.3
BH07*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH07*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH07*	05/01/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH07*	05/01/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH07	05/01/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH08*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH08*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	63.6
BH08*	05/01/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	487
BH08*	05/01/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,140
BH08	05/01/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,660
BH09*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH09*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH09*	05/01/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH09*	05/01/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	209
BH09	05/01/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	816
BH10*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH10*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	123
BH10*	05/01/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	408
BH10*	05/01/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	862
BH10	05/01/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,060



**Table 1**  
**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
Delineation Soil Samples - Incident Number nRM2016146439										
BH11*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	30.9
BH11*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	62.0
BH11*	05/01/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	84.0
BH11*	05/01/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	159
BH11	05/01/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	687
BH12*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH12*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH12*	05/08/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	998
BH12*	05/08/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,590
BH12	05/08/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	925
BH13*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH13*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH13*	05/08/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH13*	05/08/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,020
BH13	05/08/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,710
BH14*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	49.9
BH14*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	59.8
BH14*	05/09/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH14*	05/09/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	826
BH14	05/09/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,500
BH15*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	47.1
BH15*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	58.7
BH15*	05/09/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	320
BH15*	05/09/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,310
BH15	05/09/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,700



**Table 1**  
**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
Delineation Soil Samples - Incident Number nRM2016146439										
BH16*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH16*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH16*	05/09/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	286
BH16*	05/09/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,520
BH16	05/09/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,870
BH17*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH17*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	20.5
BH17*	06/24/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	70.3
BH17*	06/24/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	93.7
BH17	06/24/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	188
BH18*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH18*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH18*	06/24/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH18*	06/24/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH18	06/24/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH19*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH19*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH19*	06/24/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH19*	06/24/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH19	06/24/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH20*	05/01/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH20*	05/01/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH20*	06/24/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	150
BH20*	06/24/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	133
BH20	06/24/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	43.4



**Table 1**  
**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
Delineation Soil Samples - Incident Number nRM2016146439										
BH21*	05/08/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH21*	05/08/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH21*	05/08/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	270
BH21*	05/08/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	303
BH22*	06/23/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH22*	06/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,530
BH22	06/23/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,920
BH23*	06/23/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH23*	06/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	121
BH23	06/23/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	614
BH24*	06/23/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH24*	06/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,680
BH25*	06/23/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH25*	06/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,080
BH25	06/23/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	4,690
BH26*	06/23/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH26*	06/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	378
BH26	06/23/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,860
BH27*	06/23/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH27*	06/23/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH27*	06/23/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH27*	06/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	71.5
BH27	06/23/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	307
BH28*	06/23/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH28*	06/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	66.6





**Table 1**  
**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
Delineation Soil Samples - Incident Number nRM2016146439										
BH28	06/23/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,140
BH29*	06/23/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH29*	06/23/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH29*	06/23/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH29*	06/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	30.7
BH29	06/23/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	81.7
BH30*	06/23/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH30*	06/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	839
BH30	06/23/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,790
BH31*	06/23/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH31*	06/23/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH31*	06/23/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH31*	06/23/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH31	06/23/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH32*	06/24/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH32*	06/24/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH32*	06/24/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH32*	06/24/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH32	06/24/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	158
BH33*	06/24/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	53.3
BH33*	06/24/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,860
BH33	06/24/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	6,140
BH34*	06/24/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH34*	06/24/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH34*	06/24/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	123



**Table 1**  
**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
Delineation Soil Samples - Incident Number nRM2016146439										
BH34*	06/24/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	323
BH34	06/24/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	386

## 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<sup>1</sup> for Soils Impacted by a Release

<sup>1</sup> \* "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.

---

## APPENDIX H

### Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E504293

Job Number: 01058-0007

Received: 4/30/2025

Revision: 4

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/6/25

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: 5/6/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E504293  
Date Received: 4/30/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/30/2025 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/06/25 13:40

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E504293-01A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH01 1'	E504293-02A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH01 2'	E504293-03A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH01 3'	E504293-04A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH01 4'	E504293-05A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:40:01PM

**BH01 0.5'**

**E504293-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		88.4 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	ND	20.0	1	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:40:01PM

## BH01 1'

## E504293-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.7 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		92.4 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	80.8	20.0	1	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:40:01PM

## BH01 2'

## E504293-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		95.7 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	884	20.0	1	04/30/25	04/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:40:01PM

BH01 3'

E504293-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.4 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
		96.7 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	2110	20.0	1	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:40:01PM

## BH01 4'

## E504293-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		95.3 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	1440	20.0	1	04/30/25	04/30/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:40:01PM

## 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 (2518053-BLK1)

Prepared: 04/30/25 Analyzed: 05/01/25

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	8.12		8.00		102	70-130			

## LCS (2518053-BS1)

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.71	0.0250	5.00		114	70-130			
Ethylbenzene	5.63	0.0250	5.00		113	70-130			
Toluene	5.69	0.0250	5.00		114	70-130			
o-Xylene	5.56	0.0250	5.00		111	70-130			
p,m-Xylene	11.3	0.0500	10.0		113	70-130			
Total Xylenes	16.9	0.0250	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			

## Matrix Spike (2518053-MS1)

Source: E504293-04

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.46	0.0250	5.00	ND	109	70-130			
Ethylbenzene	5.34	0.0250	5.00	ND	107	70-130			
Toluene	5.42	0.0250	5.00	ND	108	70-130			
o-Xylene	5.28	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130			
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			

## Matrix Spike Dup (2518053-MSD1)

Source: E504293-04

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.36	0.0250	5.00	ND	107	70-130	1.80	27	
Ethylbenzene	5.26	0.0250	5.00	ND	105	70-130	1.44	26	
Toluene	5.33	0.0250	5.00	ND	107	70-130	1.61	20	
o-Xylene	5.20	0.0250	5.00	ND	104	70-130	1.57	25	
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	1.25	23	
Total Xylenes	15.8	0.0250	15.0	ND	105	70-130	1.36	26	
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:40:01PM

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 (2518053-BLK1) Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			

LCS (2518053-BS2) Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		92.9	70-130			

Matrix Spike (2518053-MS2) Source: E504293-04 Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			

Matrix Spike Dup (2518053-MSD2) Source: E504293-04 Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0	ND	83.1	70-130	0.870	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:40:01PM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2518063-BLK1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.7		50.0		93.4	61-141			

LCS (2518063-BS1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	254	25.0	250		101	66-144			
Surrogate: n-Nonane	47.1		50.0		94.2	61-141			

Matrix Spike (2518063-MS1)					Source: E504292-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	56-156			
Surrogate: n-Nonane	47.9		50.0		95.8	61-141			

Matrix Spike Dup (2518063-MSD1)					Source: E504292-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	56-156	0.554	20	
Surrogate: n-Nonane	48.5		50.0		97.1	61-141			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:40:01PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2518061-BLK1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	ND	20.0							
LCS (2518061-BS1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2518061-MS1)					Source: E504294-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	540	20.0	250	295	98.0	80-120			
Matrix Spike Dup (2518061-MSD1)					Source: E504294-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	548	20.0	250	295	101	80-120	1.49	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.



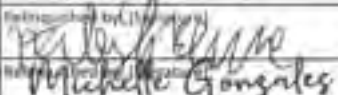


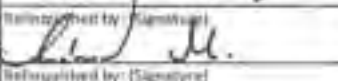
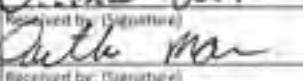
Definitions and Notes

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/06/25 13:40

- 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.

Client Information				Invoice Information				Lab Use Only				TAT				State							
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.				Lab WDA		Job Number		1D	2D	3D	Std	NM	CO	UT	TX				
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.				E504293		10581007						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: IN: nRM2003860041																			
Email: NMTXGeoGroup@etechny.com				PN: 19304: Collected By: Hitesh Illume																			
Sample Information										Analysis and Method										EPA Program			
Time Collected	Date Sampled	Matrix	Depth (m)	Sample ID	Height (m)	Lab Number	(H <sub>2</sub> O) by (M1)	STB by (M2)	PTB by (M3)	VOC by (M4)	Chloride (M5)	TC by (M6)	SCA by (M7)	SR by (M8)	SR by (M9)	SDWA	CWA	RCRA					
10:08	4/28/2025	S	1	BH01	0.5'	1									X								
10:10	4/28/2025	S	1	BH01	1'	2									X								
10:15	4/28/2025	S	1	BH01	2'	3									X								
10:20	4/28/2025	S	1	BH01	3'	4									X								
10:25	4/28/2025	S	1	BH01	4'	5									X								
Additional Instructions:																							
I, (Field collector), attest to the validity and authenticity of this sample. I am aware that tampering with or concealingly excluding this process may result in state or federal prosecution and/or civil action.																							
Collected by: JRD																							
Requisitioned by: (Signature) 				Date: 04/29/2025		Time: 1700		Received by: (Signature) 				Date: 4/29/25		Time: 1700		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.  <b>Lab Use Only</b> Received on ice: 							
Requisitioned by: (Signature) 				Date: 4/29/25		Time: 2330		Received by: (Signature) 				Date: 4/30/25		Time: 800									
Requisitioned by: (Signature)				Date:		Time:		Received by: (Signature)				Date:		Time:									
Requisitioned by: (Signature)				Date:		Time:		Received by: (Signature)				Date:		Time:									
Sample Name: S - Soil, SL - Solid, LG - Sludge, A - Aquifer, 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 this sample 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 an analysis.																							

## Envirotech Analytical Laboratory

Printed: 4/30/2025 10:38:56AM

## 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:	04/30/25 08:00	Work Order ID:	E504293
Phone:	(575) 748-0176	Date Logged In:	04/29/25 14:51	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	05/06/25 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

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

Carrier: CourierComments/ResolutionSample 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

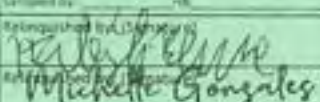
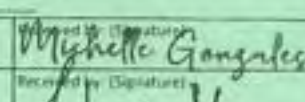
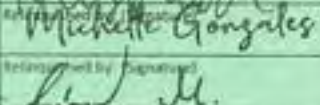
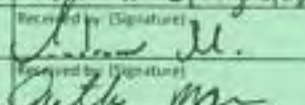
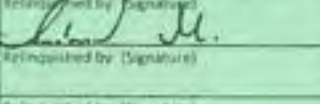
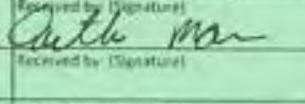
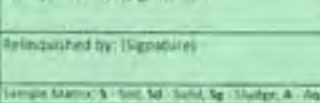
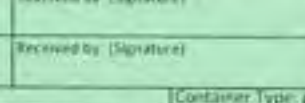
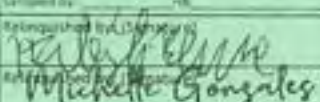
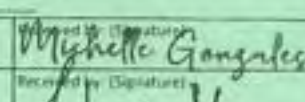
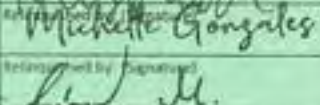
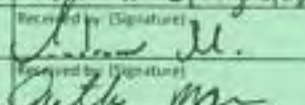
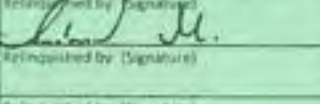
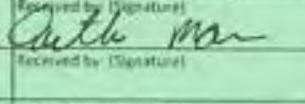
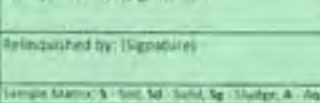
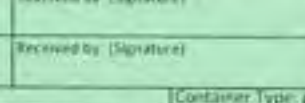
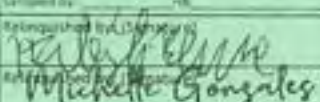
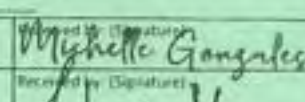
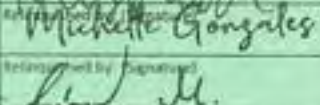
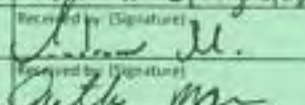
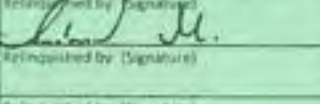
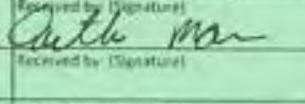
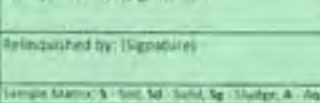
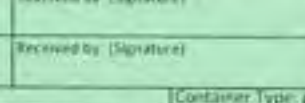
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



Client Information				Invoice Information		Lab Use Only		TAT				State																																															
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.		Lab WO#		1D				NM CO UT TX																																															
Project: TOMCAT 21 FEDERAL W001				Address: 5315 Buena Vista Dr.		Job Number		2D				X																																															
Project Manager: Anna Byers				City, State, Zip: Carlisbad, NM, 88220		E51A293 1058-007		3D																																																			
Address: 13000 W County Rd 100				Phone: 575-885-7502				Std																																																			
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Phone: 432-305-6415				Miscellaneous: IN: nRM2003860041																																																							
Email: NMTXGeoGroup@etechemv.com				PN: 19304, Collected By: Haleigh Blume																																																							
				IN: nRM20040439																																																							
				1061476201																																																							
Sample Information				Depth	Lab Number	Analysis and Method								EPA Program																																													
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID		100% by O/C/O/C	90% by O/C/O/C	80% by O/C/O/C	70% by O/C/O/C	60% by O/C/O/C	50% by O/C/O/C	40% by O/C/O/C	30% by O/C/O/C	20% by O/C/O/C	10% by O/C/O/C	SDWA	CWA	RCRA																																									
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10:10	4/28/2025	S	1	BH01	1'	2										X																																											
10:15	4/28/2025	S	1	BH01	2'	3										X																																											
10:20	4/28/2025	S	1	BH01	3'	4										X																																											
10:25	4/28/2025	S	1	BH01	4'	5										X																																											
Additional Instructions:																																																											
<small>I, (Print Name), affirm 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.</small>																																																											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">Relinquished by: (Signature)</th> <th>Date</th> <th>Time</th> <th colspan="2">Received by: (Signature)</th> <th>Date</th> <th>Time</th> <th rowspan="5">                 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.  <b>Lab Use Only</b>                  Received on ice:                  (X) N             </th> </tr> </thead> <tbody> <tr> <td colspan="2">  </td> <td>4/29/2025</td> <td>1700</td> <td colspan="2">  </td> <td>4/29/25</td> <td>1035</td> </tr> <tr> <td colspan="2">  </td> <td>4.29.25</td> <td>1700</td> <td colspan="2">  </td> <td>4.29.25</td> <td>1700</td> </tr> <tr> <td colspan="2">  </td> <td>4.29.25</td> <td>2330</td> <td colspan="2">  </td> <td>4.30.25</td> <td>800</td> </tr> <tr> <td colspan="2">  </td> <td></td> <td></td> <td colspan="2">  </td> <td></td> <td></td> </tr> </tbody> </table>																			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. <b>Lab Use Only</b> Received on ice: (X) N			4/29/2025	1700			4/29/25	1035			4.29.25	1700			4.29.25	1700			4.29.25	2330			4.30.25	800								
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		4.29.25	2330			4.30.25	800																																																				
																																																											
<small>Sample Matrix: S - Soil, SD - Solid, SG - Sludge, A - Aquifer, O - Other</small>																																																											
<small>Container Type: g - glass, p - poly/plastic, ag - amber glass, v - vial</small>																																																											
<small>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.</small>																																																											



Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E504294

Job Number: 01058-0007

Received: 4/30/2025

Revision: 3

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/6/25

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: 5/6/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E504294  
Date Received: 4/30/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/30/2025 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/06/25 12:35

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 0.5'	E504294-01A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH02 1'	E504294-02A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH02 2'	E504294-03A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH02 3'	E504294-04A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH02 4'	E504294-05A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	<b>Reported:</b> 5/6/2025 12:35:01PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	

**BH02 0.5'**

**E504294-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	<b>0.0334</b>	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.1 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		93.2 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	<b>160</b>	20.0	1	04/30/25	04/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 12:35:01PM

## BH02 1'

## E504294-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		90.6 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
		92.2 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	295	20.0	1	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 12:35:01PM

## BH02 2'

## E504294-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.8 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		94.5 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	2420	20.0	1	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 12:35:01PM

## BH02 3'

## E504294-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.2 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		98.6 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	6130	100	5	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 12:35:01PM

## BH02 4'

## E504294-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.9 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		93.3 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	3500	40.0	2	04/30/25	04/30/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 12:35:01PM

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 (2518053-BLK1) Prepared: 04/30/25 Analyzed: 05/01/25

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	8.12		8.00		102	70-130			

LCS (2518053-BS1) Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.71	0.0250	5.00		114	70-130			
Ethylbenzene	5.63	0.0250	5.00		113	70-130			
Toluene	5.69	0.0250	5.00		114	70-130			
o-Xylene	5.56	0.0250	5.00		111	70-130			
p,m-Xylene	11.3	0.0500	10.0		113	70-130			
Total Xylenes	16.9	0.0250	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			

Matrix Spike (2518053-MS1) Source: E504293-04 Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.46	0.0250	5.00	ND	109	70-130			
Ethylbenzene	5.34	0.0250	5.00	ND	107	70-130			
Toluene	5.42	0.0250	5.00	ND	108	70-130			
o-Xylene	5.28	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130			
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			

Matrix Spike Dup (2518053-MSD1) Source: E504293-04 Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.36	0.0250	5.00	ND	107	70-130	1.80	27	
Ethylbenzene	5.26	0.0250	5.00	ND	105	70-130	1.44	26	
Toluene	5.33	0.0250	5.00	ND	107	70-130	1.61	20	
o-Xylene	5.20	0.0250	5.00	ND	104	70-130	1.57	25	
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	1.25	23	
Total Xylenes	15.8	0.0250	15.0	ND	105	70-130	1.36	26	
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 12:35:01PM

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 (2518053-BLK1) Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			

LCS (2518053-BS2) Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		92.9	70-130			

Matrix Spike (2518053-MS2) Source: E504293-04 Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			

Matrix Spike Dup (2518053-MSD2) Source: E504293-04 Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0	ND	83.1	70-130	0.870	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 12:35:01PM

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 (2518063-BLK1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.7		50.0		93.4	61-141			

LCS (2518063-BS1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	254	25.0	250		101	66-144			
Surrogate: n-Nonane	47.1		50.0		94.2	61-141			

Matrix Spike (2518063-MS1)					Source: E504292-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	56-156			
Surrogate: n-Nonane	47.9		50.0		95.8	61-141			

Matrix Spike Dup (2518063-MSD1)					Source: E504292-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	56-156	0.554	20	
Surrogate: n-Nonane	48.5		50.0		97.1	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 12:35:01PM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2518061-BLK1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	ND	20.0							
LCS (2518061-BS1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2518061-MS1)					Source: E504294-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	540	20.0	250	295	98.0	80-120			
Matrix Spike Dup (2518061-MSD1)					Source: E504294-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	548	20.0	250	295	101	80-120	1.49	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/06/25 12:35

- 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.



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 4D							
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.				E504294				00580007				NM CO UT TX							
Project Manager: Anna Byers				City, State, Zip: Carlsbad, NM, 88220												X							
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: IN: nRM2003860041																			
Email: NMTXGeoGroup@etechnw.com				PN: 19104; Collected By: Haleigh Blume																			
Sample Information								Analysis and Method								EPA Program							
Time Sampled	Date Sampled	Method	Field Comments	Sample ID	Field Filter	Lab Number	plu/duo by 8021	duo/pdu by 8012	duo by 8021	VOC by 8022	Chlorides by 8023	IC by 8024	IC by 8025	IC by 8026	IC by 8027	IC by 8028	IC by 8029	SDWA	CWA	RCRA			
11:10	4/28/2025	S	1	BH02	0.1	1																	
11:15	4/28/2025	S	1	BH02	1	2																	
11:20	4/28/2025	S	1	BH02	2	3																	
11:25	4/28/2025	S	1	BH02	3	4																	
11:50	4/28/2025	S	1	BH02	4	5																	
Additional Instructions:																							
I, (Print Name), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally misrepresenting the sample location, date or time of collection is considered fraud and may be grounds for legal action.																							
Sampled by: <u>Michelle Gonzales</u>																							
Requisitioned by (Signature)				Date				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 temperature above 0 but less than 6°C on subsequent days. Lab Use Only Resolved on ice: <u>Y</u> N			
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							
Requisitioned by (Signature)				Date				Received by (Signature)				Date				Time							
<u>Michelle Gonzales</u>				4/29/25				<u>Michelle Gonzales</u>				4/29/25				1700							

## Envirotech Analytical Laboratory

Printed: 4/30/2025 10:40:25AM

## 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:	04/30/25 08:00	Work Order ID:	E504294
Phone:	(575) 748-0176	Date Logged In:	04/29/25 14:55	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	05/06/25 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

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

Carrier: CourierComments/ResolutionSample 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.



<b>Client Information</b>				<b>Invoice Information</b>				<b>Lab Use Only</b>				<b>TAT</b>				<b>State</b>											
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 0001				Address: 5315 Buena Vista Dr.				E504294		2058-007										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@dev.com																							
Phone: 432-305-6415				Miscellaneous: IN: <del>MM200300001</del>																							
Email: NMTXGeoGroup@etechnv.com				PN: 19304: Collected By: Heinrich Blume																							
				<b>Sample Information</b>																							
				<b>IN: NPM2016140439</b>																							
				<b>1601476201</b>																							

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E504295

Job Number: 01058-0007

Received: 4/30/2025

Revision: 3

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/6/25

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: 5/6/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E504295  
Date Received: 4/30/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/30/2025 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/06/25 12:32

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 0.5'	E504295-01A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH03 1'	E504295-02A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH03 2'	E504295-03A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH03 3'	E504295-04A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH03 4'	E504295-05A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	<b>Reported:</b> 5/6/2025 12:32:59PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	

**BH03 0.5'**

**E504295-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.1 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		92.6 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	54.9	20.0	1	04/30/25	04/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 12:32:59PM

BH03 1'

E504295-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.1 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		91.8 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	89.6	20.0	1	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 12:32:59PM

BH03 2'

E504295-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		89.5 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	1420	20.0	1	04/30/25	05/01/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 12:32:59PM

BH03 3'

E504295-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.0 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		94.8 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	4410	40.0	2	04/30/25	05/01/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 12:32:59PM

## BH03 4'

## E504295-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518053	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.2 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518063	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		94.9 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2518061	
Chloride	5720	40.0	2	04/30/25	05/01/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 12:32:59PM

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 (2518053-BLK1) Prepared: 04/30/25 Analyzed: 05/01/25

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	8.12		8.00		102	70-130			

LCS (2518053-BS1) Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.71	0.0250	5.00		114	70-130			
Ethylbenzene	5.63	0.0250	5.00		113	70-130			
Toluene	5.69	0.0250	5.00		114	70-130			
o-Xylene	5.56	0.0250	5.00		111	70-130			
p,m-Xylene	11.3	0.0500	10.0		113	70-130			
Total Xylenes	16.9	0.0250	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			

Matrix Spike (2518053-MS1) Source: E504293-04 Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.46	0.0250	5.00	ND	109	70-130			
Ethylbenzene	5.34	0.0250	5.00	ND	107	70-130			
Toluene	5.42	0.0250	5.00	ND	108	70-130			
o-Xylene	5.28	0.0250	5.00	ND	106	70-130			
p,m-Xylene	10.7	0.0500	10.0	ND	107	70-130			
Total Xylenes	16.0	0.0250	15.0	ND	107	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.17		8.00		102	70-130			

Matrix Spike Dup (2518053-MSD1) Source: E504293-04 Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.36	0.0250	5.00	ND	107	70-130	1.80	27	
Ethylbenzene	5.26	0.0250	5.00	ND	105	70-130	1.44	26	
Toluene	5.33	0.0250	5.00	ND	107	70-130	1.61	20	
o-Xylene	5.20	0.0250	5.00	ND	104	70-130	1.57	25	
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130	1.25	23	
Total Xylenes	15.8	0.0250	15.0	ND	105	70-130	1.36	26	
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 12:32:59PM

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 (2518053-BLK1) Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.3	70-130			

LCS (2518053-BS2) Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0		89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.44		8.00		92.9	70-130			

Matrix Spike (2518053-MS2) Source: E504293-04 Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.41		8.00		92.6	70-130			

Matrix Spike Dup (2518053-MSD2) Source: E504293-04 Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0	ND	83.1	70-130	0.870	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			





## QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 5/6/2025 12:32:59PM
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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 (2518063-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.7		50.0		93.4	61-141			

## LCS (2518063-BS1)

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	254	25.0	250		101	66-144			
Surrogate: n-Nonane	47.1		50.0		94.2	61-141			

## Matrix Spike (2518063-MS1)

Source: E504292-02

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	56-156			
Surrogate: n-Nonane	47.9		50.0		95.8	61-141			

## Matrix Spike Dup (2518063-MSD1)

Source: E504292-02

Prepared: 04/30/25 Analyzed: 04/30/25

Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	56-156	0.554	20	
Surrogate: n-Nonane	48.5		50.0		97.1	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 12:32:59PM

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 (2518061-BLK1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	ND	20.0							
LCS (2518061-BS1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2518061-MS1)					Source: E504294-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	540	20.0	250	295	98.0	80-120			
Matrix Spike Dup (2518061-MSD1)					Source: E504294-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	548	20.0	250	295	101	80-120	1.49	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/06/25 12:32

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.



Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.		Lab WO#		1D 2D 3D Std				NM CO UT TX						
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.		E-504295						X						
Project Manager: Anna Byers				City, State, Zip: Carlsbad, NM, 88220		Job Number												
Address: 13000 W County Rd 100				Phone: 575-885-7502		61058-1007												
City, State, Zip: Odessa, TX, 79765				Email: jim.raley@devn.com														
Phone: 432-305-6415				Miscellaneous: IN: NRM2003860041														
Email: NMTXGeoGroup@etechnv.com				PN: 19304; Collected By: Haleigh Blume														
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	Vol. (L)	Sample ID	Field #	Lab Number	TOC by TOC	TOC by TOC	VOC by ASU	Chloroform	Fluoride	Ammonia	NO3-N	NO2-N	SDWA	CWA	RCRA	
12:40	4/28/2025	S	L	BH03	0.5	1							X		2.1			
12:45	4/28/2025	S	L	BH03	1	2							X		1.6			
12:50	4/28/2025	S	L	BH03	2	3							X		1.8			
12:55	4/28/2025	S	L	BH03	3	4							X		1.9			
13:00	4/28/2025	S	L	BH03	4	5							X		2.0			
Additional Instructions:																		
I, (Field collector) affirm to the validity and authenticity of this sample. I am aware that tampering with or intentionally misrepresenting this sample information, data or time to collection is considered fraud and may be grounds for legal action.																		
Sampled by: _____																		
Retrieved by (Signature)		Date	Time	Retrieved by (Signature)		Date	Time	Samples requiring thermal preservation must be received on the day they are sampled or refrigerated (packed on ice at a temp above 0 but less than 5°C on subsequent days). Lab Use Only Retrieved on ice: 										
Retrieved by (Signature)		Date	Time	Retrieved by (Signature)		Date	Time											
Retrieved by (Signature)		Date	Time	Retrieved by (Signature)		Date	Time											
Retrieved by (Signature)		Date	Time	Retrieved by (Signature)		Date	Time											
Retrieved by (Signature)		Date	Time	Retrieved by (Signature)		Date	Time											
Samples (Steam, S; Soil, Sd; Solid, Sg; Sludge, A; Asbestos, B; 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 this laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																		

## Envirotech Analytical Laboratory

Printed: 4/30/2025 10:41:47AM

## 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:	04/30/25 08:00	Work Order ID:	E504295
Phone:	(575) 748-0176	Date Logged In:	04/29/25 14:58	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	05/06/25 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

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

Carrier: CourierComments/ResolutionSample 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

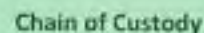
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



[illegible]



[illegible]

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E504296

Job Number: 01058-0007

Received: 4/30/2025

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/6/25

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: 5/6/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E504296  
Date Received: 4/30/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/30/2025 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/06/25 13:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 0.5'	E504296-01A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH04 1'	E504296-02A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH04 2'	E504296-03A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH04 3'	E504296-04A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH04 4'	E504296-05A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:15:05PM

BH04 0.5'

E504296-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		82.2 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518064	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
		80.7 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2518068	
Chloride	24.6	20.0	1	04/30/25	04/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:15:05PM

BH04 1'

E504296-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		79.7 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518064	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		85.2 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2518068	
Chloride	113	20.0	1	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:15:05PM

BH04 2'

E504296-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		80.5 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518064	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		85.0 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2518068	
Chloride	1130	20.0	1	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:15:05PM

BH04 3'

E504296-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		79.3 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518064	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
		85.4 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2518068	
Chloride	3720	40.0	2	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:15:05PM

## BH04 4'

## E504296-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2518054	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.3 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2518064	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	04/30/25	
<i>Surrogate: n-Nonane</i>		88.8 %	61-141	04/30/25	04/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2518068	
Chloride	3800	40.0	2	04/30/25	04/30/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:15:05PM

## 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 (2518054-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

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	8.22		8.00		103	70-130			

## LCS (2518054-BS1)

Prepared: 04/30/25 Analyzed: 04/30/25

Benzene	4.75	0.0250	5.00		94.9	70-130			
Ethylbenzene	4.77	0.0250	5.00		95.4	70-130			
Toluene	4.75	0.0250	5.00		95.0	70-130			
o-Xylene	4.74	0.0250	5.00		94.8	70-130			
p,m-Xylene	9.27	0.0500	10.0		92.7	70-130			
Total Xylenes	14.0	0.0250	15.0		93.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.70		8.00		109	70-130			

## Matrix Spike (2518054-MS1)

Source: E504296-01

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.85	0.0250	5.00	ND	117	70-130			
Ethylbenzene	5.87	0.0250	5.00	ND	117	70-130			
Toluene	5.85	0.0250	5.00	ND	117	70-130			
o-Xylene	5.84	0.0250	5.00	ND	117	70-130			
p,m-Xylene	11.4	0.0500	10.0	ND	114	70-130			
Total Xylenes	17.2	0.0250	15.0	ND	115	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.41		8.00		105	70-130			

## Matrix Spike Dup (2518054-MSD1)

Source: E504296-01

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	5.88	0.0250	5.00	ND	118	70-130	0.590	27	
Ethylbenzene	5.94	0.0250	5.00	ND	119	70-130	1.31	26	
Toluene	5.90	0.0250	5.00	ND	118	70-130	0.849	20	
o-Xylene	5.90	0.0250	5.00	ND	118	70-130	0.970	25	
p,m-Xylene	11.5	0.0500	10.0	ND	115	70-130	1.31	23	
Total Xylenes	17.4	0.0250	15.0	ND	116	70-130	1.20	26	
Surrogate: 4-Bromochlorobenzene-PID	8.06		8.00		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:15:05PM

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 (2518054-BLK1) Prepared: 04/30/25 Analyzed: 04/30/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.11		8.00		76.4	70-130			

LCS (2518054-BS2) Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.48		8.00		81.0	70-130			

Matrix Spike (2518054-MS2) Source: E504296-01 Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.96		8.00		87.1	70-130			

Matrix Spike Dup (2518054-MSD2) Source: E504296-01 Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	47.8	20.0	50.0	ND	95.7	70-130	5.56	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.67		8.00		83.4	70-130			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:15:05PM

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 (2518064-BLK1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.9		50.0		81.9	61-141			

LCS (2518064-BS1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	213	25.0	250		85.0	66-144			
Surrogate: n-Nonane	40.5		50.0		81.0	61-141			

Matrix Spike (2518064-MS1)					Source: E504299-03		Prepared: 04/30/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	277	25.0	250	98.7	71.4	56-156			
Surrogate: n-Nonane	44.1		50.0		88.2	61-141			

Matrix Spike Dup (2518064-MSD1)					Source: E504299-03		Prepared: 04/30/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	275	25.0	250	98.7	70.4	56-156	0.919	20	
Surrogate: n-Nonane	45.1		50.0		90.1	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:15:05PM

Anions by EPA 300.0/9056A

Analyst: JM

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 (2518068-BLK1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	ND	20.0							
LCS (2518068-BS1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	252	20.0	250		101	90-110			
Matrix Spike (2518068-MS1)					Source: E504296-03		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	1030	20.0	250	1130	NR	80-120			M4
Matrix Spike Dup (2518068-MSD1)					Source: E504296-03		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	875	20.0	250	1130	NR	80-120	16.5	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	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/06/25 13:15

- 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.

Client Information				Invoice Information				Lab Use Only				TAT				State											
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.				Lab WOH				Job Number				<div> <div>1D</div> <div>2D</div> <div>3D</div> <div>Std</div> </div>											
Project: TOMCAT 23 FEDERAL R001				Address: 5315 Buena Vista Dr.				E5H296				1051-0057				<div> <div>NM</div> <div>CO</div> <div>UT</div> <div>TX</div> </div>											
Project Manager: Anna Byers				City, State, Zip: Carlsbad, NM, 88220																							
Address: 13000 W County Rd 100				Phone: 575-885-7503																							
City, State, Zip: Odessa, TX, 79765				Email: jlm.raley@dev.com																							
Phone: 432-305-5415				Miscellaneous: IN: nRAM2003860041																							
Email: NMTXGeoGroup@ebesherw.com				PN: 19304, Collected By: Haleigh Blum																							
Sample Information												Analysis and Method												EPA Program			
Time	Date	Name	Depth	Sample ID	Field	Lab	100% by 4/12	100% by 4/12	100% by 4/12	100% by 4/12	100% by 4/12	100% by 4/12	100% by 4/12	100% by 4/12	100% by 4/12	100% by 4/12	100% by 4/12	SDWA	CWA	RCRA							
13:40	4/28/2025	S	1	BH04	0.5'	1																					
13:45	4/28/2025	S	1	BH04	1'	2																					
13:48	4/28/2025	S	1	BH04	2'	3																					
13:55	4/28/2025	S	1	BH04	3'	4																					
14:00	4/28/2025	S	1	BH04	4'	5																					
Additional Instructions:																											
<p>L (Field sensor), must be the validity and reliability of this sample. Users agree that sampling with this instrument is not intended for use in the collection of samples for legal action.</p> <p>Sampled by: JLM</p>																											
Relinquished by: (Signature)				Date: 4/29/25				Time: 1700				Relinquished by: (Signature)				Date: 4/29/25				Time: 1700				<p>Samples requiring thermal preservation must be received on ice the day they are sampled or retrieved packed on ice at a temperature above 0 but less than 6°C on subsequent days.</p> <p>Lab Use Only</p> <p>Received on ice:</p> <p>Y/N</p>			
Relinquished by: (Signature)				Date: 4.29.25				Time: 2330				Relinquished by: (Signature)				Date: 4.30.25				Time: 800							
Relinquished by: (Signature)				Date:				Time:				Relinquished by: (Signature)				Date:				Time:							
Relinquished by: (Signature)				Date:				Time:				Relinquished by: (Signature)				Date:				Time:							
<p>Sample Matrix: L - Liquid, S - Solid, G - Gas, A - Aqueous, O - Other</p> <p>Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA</p> <p>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 this report.</p>																											

## Envirotech Analytical Laboratory

Printed: 4/30/2025 10:42:53AM

## 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:	04/30/25 08:00	Work Order ID:	E504296
Phone:	(575) 748-0176	Date Logged In:	04/29/25 15:01	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	05/06/25 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

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

Carrier: CourierComments/ResolutionSample 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

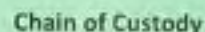
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



[illegible]



Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E504297

Job Number: 01058-0007

Received: 4/30/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/6/25

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: 5/6/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E504297  
Date Received: 4/30/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/30/2025 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/06/25 13:26

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 0.5'	E504297-01A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH05 1'	E504297-02A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH05 2'	E504297-03A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH05 3'	E504297-04A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.
BH05 4'	E504297-05A	Soil	04/28/25	04/30/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:26:38PM

**BH05 0.5'**

**E504297-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518055	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518073	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		85.2 %	61-141	04/30/25	05/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2518076	
Chloride	ND	20.0	1	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:26:38PM

BH05 1'

E504297-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518055
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518055
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.8 %	70-130		04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518073
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
	85.4 %	61-141		04/30/25	05/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518076
Chloride	ND	20.0	1	04/30/25	04/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:26:38PM

BH05 2'

E504297-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518055
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518055
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.0 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518073
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		83.8 %	61-141	04/30/25	05/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518076
Chloride	61.3	20.0	1	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:26:38PM

BH05 3'

E504297-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518055
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518055
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.7 %	70-130		04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518073
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
	82.4 %	61-141		04/30/25	05/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2518076
Chloride	250	20.0	1	04/30/25	04/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/6/2025 1:26:38PM

## BH05 4'

## E504297-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518055	
Benzene	ND	0.0250	1	04/30/25	05/01/25	
Ethylbenzene	ND	0.0250	1	04/30/25	05/01/25	
Toluene	ND	0.0250	1	04/30/25	05/01/25	
o-Xylene	ND	0.0250	1	04/30/25	05/01/25	
p,m-Xylene	ND	0.0500	1	04/30/25	05/01/25	
Total Xylenes	ND	0.0250	1	04/30/25	05/01/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518055	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/30/25	05/01/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.2 %	70-130	04/30/25	05/01/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518073	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/30/25	05/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/30/25	05/01/25	
<i>Surrogate: n-Nonane</i>						
		85.6 %	61-141	04/30/25	05/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2518076	
Chloride	1270	20.0	1	04/30/25	04/30/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:26:38PM

## 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 (2518055-BLK1)

Prepared: 04/30/25 Analyzed: 04/30/25

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	7.92		8.00		98.9	70-130			

## LCS (2518055-BS1)

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	4.27	0.0250	5.00		85.5	70-130			
Ethylbenzene	4.27	0.0250	5.00		85.5	70-130			
Toluene	4.30	0.0250	5.00		86.1	70-130			
o-Xylene	4.30	0.0250	5.00		86.0	70-130			
p,m-Xylene	8.57	0.0500	10.0		85.7	70-130			
Total Xylenes	12.9	0.0250	15.0		85.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			

## Matrix Spike (2518055-MS1)

Source: E504302-01

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	4.44	0.0250	5.00	ND	88.8	70-130			
Ethylbenzene	4.43	0.0250	5.00	ND	88.6	70-130			
Toluene	4.46	0.0250	5.00	ND	89.3	70-130			
o-Xylene	4.44	0.0250	5.00	ND	88.8	70-130			
p,m-Xylene	8.85	0.0500	10.0	ND	88.5	70-130			
Total Xylenes	13.3	0.0250	15.0	ND	88.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			

## Matrix Spike Dup (2518055-MSD1)

Source: E504302-01

Prepared: 04/30/25 Analyzed: 05/01/25

Benzene	4.34	0.0250	5.00	ND	86.7	70-130	2.38	27	
Ethylbenzene	4.30	0.0250	5.00	ND	86.0	70-130	2.92	26	
Toluene	4.35	0.0250	5.00	ND	86.9	70-130	2.70	20	
o-Xylene	4.31	0.0250	5.00	ND	86.2	70-130	2.98	25	
p,m-Xylene	8.58	0.0500	10.0	ND	85.8	70-130	3.07	23	
Total Xylenes	12.9	0.0250	15.0	ND	85.9	70-130	3.04	26	
Surrogate: 4-Bromochlorobenzene-PID	8.03		8.00		100	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:26:38PM

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 (2518055-BLK1) Prepared: 04/30/25 Analyzed: 04/30/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.3	70-130			

LCS (2518055-BS2) Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	44.7	20.0	50.0		89.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		8.00		100	70-130			

Matrix Spike (2518055-MS2) Source: E504302-01 Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	46.7	20.0	50.0	ND	93.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		8.00		101	70-130			

Matrix Spike Dup (2518055-MSD2) Source: E504302-01 Prepared: 04/30/25 Analyzed: 05/01/25

Gasoline Range Organics (C6-C10)	42.7	20.0	50.0	ND	85.4	70-130	8.91	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.91		8.00		98.9	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	<b>Reported:</b>
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:26:38PM

## 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 (2518073-BLK1)

Prepared: 04/30/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	40.7		50.0		81.4	61-141			

## LCS (2518073-BS1)

Prepared: 04/30/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	209	25.0	250		83.5	66-144			
Surrogate: <i>n</i> -Nonane	40.4		50.0		80.8	61-141			

## Matrix Spike (2518073-MS1)

Source: E504302-04

Prepared: 04/30/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	225	25.0	250	ND	90.1	56-156			
Surrogate: <i>n</i> -Nonane	43.6		50.0		87.3	61-141			

## Matrix Spike Dup (2518073-MSD1)

Source: E504302-04

Prepared: 04/30/25 Analyzed: 05/01/25

Diesel Range Organics (C10-C28)	228	25.0	250	ND	91.1	56-156	1.04	20	
Surrogate: <i>n</i> -Nonane	42.8		50.0		85.7	61-141			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/6/2025 1:26:38PM

Anions by EPA 300.0/9056A

Analyst: JM

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 (2518076-BLK1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	ND	20.0							
LCS (2518076-BS1)					Prepared: 04/30/25 Analyzed: 04/30/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2518076-MS1)					Source: E504302-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	6380	200	250	5000	551	80-120			M4
Matrix Spike Dup (2518076-MSD1)					Source: E504302-02		Prepared: 04/30/25 Analyzed: 04/30/25		
Chloride	6120	200	250	5000	445	80-120	4.25	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	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/06/25 13:26

- 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.



Client Information				Invoice Information		Lab Use Only		TAT				State					
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.		Lab WDA	Job Number	1D	2D	3D	Std	NM	CO	UT	TX		
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.		ESCH297	0058-0007					X					
Project Manager: Anna Byers				City, State, Zip: Carlstadt, NM, 88270													
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: IN: nRM2003860041													
Email: NMTXGeoGroup@etechnv.com				PIN: 19304; Collected By: Haleigh Rums													
Sample Information						Analysis and Method						EPA Program					
Time Sampled	Date/Time	Matrix	Vol. of Sample	Sample ID	Field Label	Lab Number	STC (HPLC/MS)	STC (HPLC/MS)	STC (HPLC/MS)	STC (HPLC/MS)	STC (HPLC/MS)	STC (HPLC/MS)	STC (HPLC/MS)	SDWA	CWA	RCRA	
14:40	4/28/2025	S	1	BH05	0.5	1											
14:43	4/28/2025	S	1	BH05	1	2											
14:45	4/28/2025	S	1	BH05	2	3											
14:50	4/28/2025	S	1	BH05	3	4											
14:55	4/28/2025	S	1	BH05	4	5											
Additional Instructions:																	
I (I/We) warrant, attest to the quality and integrity of this sample. I acknowledge that tampering with or intentionally misrepresenting the sample location, date or time of collection is considered fraud and may be grounds for legal action.																	
Sample ID: BH05																	
Received by: (Signature)		Date: 4/24/2025		Time: 1035		Received by: (Signature)		Date: 4-24-25		Time: 1035		Samples requiring thermal preservation must be received on ice the day they are sampled or (cooled) packed on ice at a temp above 0 but less than 6°C on subsequent days.					
Received by: (Signature)		Date: 4-24-25		Time: 1700		Received by: (Signature)		Date: 4-24-25		Time: 1700							
Received by: (Signature)		Date: 4-24-25		Time: 2330		Received by: (Signature)		Date: 4-30-25		Time: 900							
Received by: (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:							
Received by: (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:		Lab Use Only Received on Ice: <input checked="" type="radio"/> Y <input type="radio"/> N					
Received 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 30 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 this report.																	

## Envirotech Analytical Laboratory

Printed: 4/30/2025 10:44:11AM

## 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:	04/30/25 08:00	Work Order ID:	E504297
Phone:	(575) 748-0176	Date Logged In:	04/29/25 15:02	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	05/06/25 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

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

Carrier: CourierComments/ResolutionSample 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

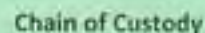
Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



[illegible]

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E505034

Job Number: 01058-0007

Received: 5/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/8/25

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: 5/8/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505034  
Date Received: 5/5/2025 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 09:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH06 0.5'	E505034-01A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH06 1'	E505034-02A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH06 2'	E505034-03A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH06 3'	E505034-04A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH06 4'	E505034-05A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:20:16AM

BH06 0.5'

E505034-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519019	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.0 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		100 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2519037	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		96.2 %	61-141	05/06/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2519030	
Chloride	ND	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:20:16AM

BH06 1'

E505034-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519019	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.4 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	100 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2519037	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/06/25	
<i>Surrogate: n-Nonane</i>	95.6 %	61-141		05/06/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2519030	
Chloride	ND	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:20:16AM

BH06 2'

E505034-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519019	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519019	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2519037	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/06/25	
<i>Surrogate: n-Nonane</i>		97.6 %	61-141	05/06/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2519030	
Chloride	ND	20.0	1	05/05/25	05/06/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:20:16AM

BH06 3'

E505034-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519019
Benzene	ND	0.0250	1	05/05/25	05/07/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/07/25	
Toluene	ND	0.0250	1	05/05/25	05/07/25	
o-Xylene	ND	0.0250	1	05/05/25	05/07/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/07/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	05/05/25	05/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519019
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		103 %	70-130	05/05/25	05/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519037
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		97.6 %	61-141	05/06/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2519030
Chloride	20.9	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:20:16AM

## BH06 4'

## E505034-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519019
Benzene	ND	0.0250	1	05/05/25	05/07/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/07/25	
Toluene	ND	0.0250	1	05/05/25	05/07/25	
o-Xylene	ND	0.0250	1	05/05/25	05/07/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/07/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/07/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/05/25	05/07/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519019
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/07/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	05/05/25	05/07/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519037
Diesel Range Organics (C10-C28)	ND	25.0	1	05/06/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/06/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		97.9 %	61-141	05/06/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2519030
Chloride	80.3	20.0	1	05/05/25	05/06/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:20:16AM

## 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 (2519019-BLK1)

Prepared: 05/05/25 Analyzed: 05/06/25

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	7.46		8.00		93.2	70-130			

## LCS (2519019-BS1)

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	3.87	0.0250	5.00		77.5	70-130			
Ethylbenzene	3.86	0.0250	5.00		77.2	70-130			
Toluene	3.89	0.0250	5.00		77.8	70-130			
o-Xylene	3.86	0.0250	5.00		77.3	70-130			
p,m-Xylene	7.74	0.0500	10.0		77.4	70-130			
Total Xylenes	11.6	0.0250	15.0		77.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.97		8.00		99.6	70-130			

## Matrix Spike (2519019-MS1)

Source: E505032-04

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	3.99	0.0250	5.00	ND	79.8	70-130			
Ethylbenzene	3.92	0.0250	5.00	ND	78.4	70-130			
Toluene	3.98	0.0250	5.00	ND	79.7	70-130			
o-Xylene	3.96	0.0250	5.00	ND	79.3	70-130			
p,m-Xylene	7.85	0.0500	10.0	ND	78.5	70-130			
Total Xylenes	11.8	0.0250	15.0	ND	78.7	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.2	70-130			

## Matrix Spike Dup (2519019-MSD1)

Source: E505032-04

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	4.42	0.0250	5.00	ND	88.3	70-130	10.1	27	
Ethylbenzene	4.39	0.0250	5.00	ND	87.9	70-130	11.4	26	
Toluene	4.44	0.0250	5.00	ND	88.7	70-130	10.7	20	
o-Xylene	4.41	0.0250	5.00	ND	88.1	70-130	10.6	25	
p,m-Xylene	8.80	0.0500	10.0	ND	88.0	70-130	11.5	23	
Total Xylenes	13.2	0.0250	15.0	ND	88.1	70-130	11.2	26	
Surrogate: 4-Bromochlorobenzene-PID	7.91		8.00		98.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:20:16AM

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 (2519019-BLK1) Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.26		8.00		103	70-130			

LCS (2519019-BS2) Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	52.6	20.0	50.0		105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.51		8.00		106	70-130			

Matrix Spike (2519019-MS2) Source: E505032-04 Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	54.7	20.0	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.07		8.00		101	70-130			

Matrix Spike Dup (2519019-MSD2) Source: E505032-04 Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	7.80	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.47		8.00		106	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:20:16AM

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 (2519037-BLK1)					Prepared: 05/06/25 Analyzed: 05/06/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	49.2		50.0		98.4	61-141			

LCS (2519037-BS1)					Prepared: 05/06/25 Analyzed: 05/06/25				
Diesel Range Organics (C10-C28)	263	25.0	250		105	66-144			
Surrogate: n-Nonane	49.1		50.0		98.2	61-141			

Matrix Spike (2519037-MS1)					Source: E505034-01		Prepared: 05/06/25 Analyzed: 05/06/25		
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	48.7		50.0		97.4	61-141			

Matrix Spike Dup (2519037-MSD1)					Source: E505034-01		Prepared: 05/06/25 Analyzed: 05/06/25		
Diesel Range Organics (C10-C28)	264	25.0	250	ND	106	56-156	1.64	20	
Surrogate: n-Nonane	49.1		50.0		98.2	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:20:16AM

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 (2519030-BLK1)					Prepared: 05/05/25 Analyzed: 05/06/25				
Chloride	ND	20.0							
LCS (2519030-BS1)					Prepared: 05/05/25 Analyzed: 05/06/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2519030-MS1)					Source: E505032-02		Prepared: 05/05/25 Analyzed: 05/06/25		
Chloride	303	20.0	250	46.3	103	80-120			
Matrix Spike Dup (2519030-MSD1)					Source: E505032-02		Prepared: 05/05/25 Analyzed: 05/06/25		
Chloride	302	20.0	250	46.3	102	80-120	0.322	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 09:20

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

Page 1 of 1

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.		E 505034	01058-2007				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@devn.com															
Phone: 432-305-6415				Miscellaneous:															
Email: NMTXGeoGroup@etechnv.com				PN: 19304															
Sample Information						Analysis and Method						EPA Program							
Time Sampled	Date Sampled	Matrix	Well Completion	Sample ID	Field Filter	Lab Number	5108 by ORO/ODD	5015 by ORO/ODD	8021 by 8021	VOC by 8260	Chloride by 3000	TOTAL by 105-TX	RCRA by Metals	NIH by 1000-NH	NIH by 1000-TX	SDWA	CWA	RCRA	
9:00	5/1/2025	S	1	BH06	0.5'	1										X			
9:05	5/1/2025	S	1	BH06	1'	2										X			
9:08	5/1/2025	S	1	BH06	2'	3										X			
9:12	5/1/2025	S	1	BH06	3'	4										X			
9:20	5/1/2025	S	1	BH06	4'	5										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: Haleigh Blume																			
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			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
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: 5/5/2025 9:23:22AM

## 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:	05/05/25 07:45	Work Order ID:	E505034
Phone:	(575) 748-0176	Date Logged In:	05/05/25 09:19	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	05/09/25 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

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

Carrier: CourierComments/ResolutionSample 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? No

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.





## Chain of Custody

Page 1 of 1

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.		E 505034	01059-007				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@dev.com														
Phone: 432-305-6415				Miscellaneous: <i>For 2016 2D</i>														
Email: NMTXGeoGroup@etechemv.com				PN: 19304 <i>2016 M4439</i>														
Sample Information				Analysis and Method										EPA Program				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRG/DRO by 8015	GRG/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride by 8000	TCED 1009 - TX	PCRA & Metals	Residual - MA	Residual - TX	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
9:00	5/1/2025	S	1	BH06	0.5' 1								X		3.6			Added FO #
9:05	5/1/2025	S	1	BH06	1' 2								X		3.0			and Jettisoned per 1110
9:08	5/1/2025	S	1	BH06	2' 3								X		2.8			changed field
9:12	5/1/2025	S	1	BH06	3' 4								X		2.6			Filtered to sample depth
9:20	5/1/2025	S	1	BH06	4' 5								X		2.4			NS 5.5-20
Additional Instructions: <i>VOC 106147620</i>																		
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: Haleigh Blum																		
Relinquished by: (Signature) <i>Haleigh Blum</i>		Date: <i>05/1/2025</i>		Time: <i>1030</i>		Received by: (Signature) <i>Michelle Gonzales</i>		Date: <i>5.2.25</i>		Time: <i>1030</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 5°C on subsequent days.						
Relinquished by: (Signature) <i>Michelle Gonzales</i>		Date: <i>5.2.25</i>		Time: <i>1745</i>		Received by: (Signature) <i>L.H.</i>		Date: <i>5.2.23</i>		Time: <i>1743</i>								
Relinquished by: (Signature) <i>L.H.</i>		Date: <i>5.2.25</i>		Time: <i>2345</i>		Received by: (Signature) <i>Carla M.</i>		Date: <i>5.5.25</i>		Time: <i>745</i>								
Relinquished by: (Signature)		Date:		Time:		Received by: (Signature)		Date:		Time:								
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 CDC. The liability of the laboratory is limited to the amount paid for on the report.																		

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E505025

Job Number: 01058-0007

Received: 5/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/8/25

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: 5/8/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505025  
Date Received: 5/5/2025 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 08:47

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH07 0.5'	E505025-01A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH07 1'	E505025-02A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH07 2'	E505025-03A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH07 3'	E505025-04A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH07 4'	E505025-05A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 8:47:35AM

**BH07 0.5'**

**E505025-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519012	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.0 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2519004	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>		94.2 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2519016	
Chloride	ND	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 8:47:35AM

BH07 1'

E505025-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.6 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2519004
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		92.3 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519016
Chloride	ND	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 8:47:35AM

BH07 2'

E505025-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519012	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.9 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2519004	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>		94.6 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2519016	
Chloride	ND	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 8:47:35AM

BH07 3'

E505025-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.1 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2519004
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		94.1 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519016
Chloride	ND	20.0	1	05/05/25	05/05/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 8:47:35AM

BH07 4'

E505025-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	101 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2519004
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
	97.0 %	61-141		05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519016
Chloride	ND	20.0	1	05/05/25	05/05/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 8:47:35AM

## 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 (2519012-BLK1)

Prepared: 05/05/25 Analyzed: 05/06/25

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	8.21		8.00		103	70-130			

## LCS (2519012-BS1)

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	4.34	0.0250	5.00		86.9	70-130			
Ethylbenzene	4.26	0.0250	5.00		85.2	70-130			
Toluene	4.33	0.0250	5.00		86.6	70-130			
o-Xylene	4.30	0.0250	5.00		86.0	70-130			
p,m-Xylene	8.52	0.0500	10.0		85.2	70-130			
Total Xylenes	12.8	0.0250	15.0		85.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			

## Matrix Spike (2519012-MS1)

Source: E505023-02

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	3.84	0.0250	5.00	ND	76.8	70-130			
Ethylbenzene	3.83	0.0250	5.00	ND	76.7	70-130			
Toluene	3.87	0.0250	5.00	ND	77.3	70-130			
o-Xylene	3.88	0.0250	5.00	ND	77.6	70-130			
p,m-Xylene	7.71	0.0500	10.0	ND	77.1	70-130			
Total Xylenes	11.6	0.0250	15.0	ND	77.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			

## Matrix Spike Dup (2519012-MSD1)

Source: E505023-02

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	4.20	0.0250	5.00	ND	83.9	70-130	8.92	27	
Ethylbenzene	4.17	0.0250	5.00	ND	83.4	70-130	8.36	26	
Toluene	4.21	0.0250	5.00	ND	84.1	70-130	8.45	20	
o-Xylene	4.19	0.0250	5.00	ND	83.8	70-130	7.63	25	
p,m-Xylene	8.36	0.0500	10.0	ND	83.6	70-130	8.14	23	
Total Xylenes	12.6	0.0250	15.0	ND	83.7	70-130	7.97	26	
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 8:47:35AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2519012-BLK1) Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			

LCS (2519012-BS2) Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			

Matrix Spike (2519012-MS2) Source: E505023-02 Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		8.00		101	70-130			

Matrix Spike Dup (2519012-MSD2) Source: E505023-02 Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	98.9	70-130	0.891	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 8:47:35AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2519004-BLK1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.1		50.0		94.1	61-141			

LCS (2519004-BS1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Diesel Range Organics (C10-C28)	251	25.0	250		100	66-144			
Surrogate: n-Nonane	46.4		50.0		92.9	61-141			

Matrix Spike (2519004-MS1)					Source: E505022-02		Prepared: 05/05/25 Analyzed: 05/05/25		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156			
Surrogate: n-Nonane	48.0		50.0		95.9	61-141			

Matrix Spike Dup (2519004-MSD1)					Source: E505022-02		Prepared: 05/05/25 Analyzed: 05/05/25		
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156	0.409	20	
Surrogate: n-Nonane	48.6		50.0		97.1	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 8:47:35AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2519016-BLK1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Chloride	ND	20.0							
LCS (2519016-BS1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Chloride	261	20.0	250		104	90-110			
Matrix Spike (2519016-MS1)					Source: E505024-25		Prepared: 05/05/25 Analyzed: 05/05/25		
Chloride	1190	200	250	986	81.8	80-120			
Matrix Spike Dup (2519016-MSD1)					Source: E505024-25		Prepared: 05/05/25 Analyzed: 05/05/25		
Chloride	1120	200	250	986	53.5	80-120	6.10	20	M2

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	
6488 7 Rivers Hwy	Project Number:	01058-0007	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 08:47

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.





Client Information				Invoice Information				Lab Use Only				TAT				State																																																																																																																																																																																																																													
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.				Lab WOI#		Job Number		1D	2D	3D	Std	NM	CO	UT	TX																																																																																																																																																																																																																										
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.				E505025		0115870007						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@devn.com																																																																																																																																																																																																																																									
Phone: 432-305-6415				Miscellaneous:																																																																																																																																																																																																																																									
Email: NMTXGenGroup@earthenv.com				PN: 19304																																																																																																																																																																																																																																									
Sample Information						Analysis and Method										EPA Program																																																																																																																																																																																																																													
Time Sampled	Date Sampled	Matrix	Count (Duplicates)	Sample ID	Field Effect	Lab Number	GC/MS by A013	GC/MS by A015	GC/MS by A016	VOC by A016	Chlorine by A016	SVOC by A016	GC/MS by A017	GC/MS by A018	GC/MS by A019	GC/MS by A020	GC/MS by A021	GC/MS by A022	GC/MS by A023	GC/MS by A024	GC/MS by A025	GC/MS by A026	GC/MS by A027	GC/MS by A028	GC/MS by A029	GC/MS by A030	GC/MS by A031	GC/MS by A032	GC/MS by A033	GC/MS by A034	GC/MS by A035	GC/MS by A036	GC/MS by A037	GC/MS by A038	GC/MS by A039	GC/MS by A040	GC/MS by A041	GC/MS by A042	GC/MS by A043	GC/MS by A044	GC/MS by A045	GC/MS by A046	GC/MS by A047	GC/MS by A048	GC/MS by A049	GC/MS by A050	GC/MS by A051	GC/MS by A052	GC/MS by A053	GC/MS by A054	GC/MS by A055	GC/MS by A056	GC/MS by A057	GC/MS by A058	GC/MS by A059	GC/MS by A060	GC/MS by A061	GC/MS by A062	GC/MS by A063	GC/MS by A064	GC/MS by A065	GC/MS by A066	GC/MS by A067	GC/MS by A068	GC/MS by A069	GC/MS by A070	GC/MS by A071	GC/MS by A072	GC/MS by A073	GC/MS by A074	GC/MS by A075	GC/MS by A076	GC/MS by A077	GC/MS by A078	GC/MS by A079	GC/MS by A080	GC/MS by A081	GC/MS by A082	GC/MS by A083	GC/MS by A084	GC/MS by A085	GC/MS by A086	GC/MS by A087	GC/MS by A088	GC/MS by A089	GC/MS by A090	GC/MS by A091	GC/MS by A092	GC/MS by A093	GC/MS by A094	GC/MS by A095	GC/MS by A096	GC/MS by A097	GC/MS by A098	GC/MS by A099	GC/MS by A100	GC/MS by A101	GC/MS by A102	GC/MS by A103	GC/MS by A104	GC/MS by A105	GC/MS by A106	GC/MS by A107	GC/MS by A108	GC/MS by A109	GC/MS by A110	GC/MS by A111	GC/MS by A112	GC/MS by A113	GC/MS by A114	GC/MS by A115	GC/MS by A116	GC/MS by A117	GC/MS by A118	GC/MS by A119	GC/MS by A120	GC/MS by A121	GC/MS by A122	GC/MS by A123	GC/MS by A124	GC/MS by A125	GC/MS by A126	GC/MS by A127	GC/MS by A128	GC/MS by A129	GC/MS by A130	GC/MS by A131	GC/MS by A132	GC/MS by A133	GC/MS by A134	GC/MS by A135	GC/MS by A136	GC/MS by A137	GC/MS by A138	GC/MS by A139	GC/MS by A140	GC/MS by A141	GC/MS by A142	GC/MS by A143	GC/MS by A144	GC/MS by A145	GC/MS by A146	GC/MS by A147	GC/MS by A148	GC/MS by A149	GC/MS by A150	GC/MS by A151	GC/MS by A152	GC/MS by A153	GC/MS by A154	GC/MS by A155	GC/MS by A156	GC/MS by A157	GC/MS by A158	GC/MS by A159	GC/MS by A160	GC/MS by A161	GC/MS by A162	GC/MS by A163	GC/MS by A164	GC/MS by A165	GC/MS by A166	GC/MS by A167	GC/MS by A168	GC/MS by A169	GC/MS by A170	GC/MS by A171	GC/MS by A172	GC/MS by A173	GC/MS by A174	GC/MS by A175	GC/MS by A176	GC/MS by A177	GC/MS by A178	GC/MS by A179	GC/MS by A180	GC/MS by A181	GC/MS by A182	GC/MS by A183	GC/MS by A184	GC/MS by A185	GC/MS by A186	GC/MS by A187	GC/MS by A188	GC/MS by A189	GC/MS by A190	GC/MS by A191	GC/MS by A192	GC/MS by A193	GC/MS by A194	GC/MS by A195	GC/MS by A196	GC/MS by A197	GC/MS by A198	GC/MS by A199	GC/MS by A200	GC/MS by A201	GC/MS by A202	GC/MS by A203	GC/MS by A204	GC/MS by A205	GC/MS by A206	GC/MS by A207	GC/MS by A208	GC/MS by A209	GC/MS by A210	GC/MS by A211	GC/MS by A212	GC/MS by A213	GC/MS by A214	GC/MS by A215	GC/MS by A216	GC/MS by A217	GC/MS by A218	GC/MS by A219	GC/MS by A220	GC/MS by A221	GC/MS by A222	GC/MS by A223	GC/MS by A224	GC/MS by A225	GC/MS by A226	GC/MS by A227	GC/MS by A228	GC/MS by A229	GC/MS by A230	GC/MS by A231	GC/MS by A232	GC/MS by A233	GC/MS by A234	GC/MS by A235	GC/MS by A236	GC/MS by A237	GC/MS by A238	GC/MS by A239	GC/MS by A240	GC/MS by A241</

## Envirotech Analytical Laboratory

Printed: 5/5/2025 9:25:39AM

## 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:	05/05/25 07:45	Work Order ID:	E505025
Phone:	(575) 748-0176	Date Logged In:	05/02/25 16:00	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	05/09/25 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

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

Carrier: CourierComments/ResolutionSample 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? No

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.





## Chain of Custody

Page 1 of 1

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.		E505025	010580007					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: Incident ID:														
Email: NMTXGeoGroup@etechnv.com				PN: 19304														
Sample Information						Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Matrix	Vol. (L)	Sample ID	Lab Number	DRUG by 8015	TOB by 8015	BTX by 8021	VOC by 8260	Chloride 300 G	HCLO 300 G	HCRA 8 Metals	MSDC 8M	8. SCOD	SDWA	CWA	RCRA	
9:55	5/1/2025	S	1	BH07	0.5								X		2.8			
10:00	5/1/2025	S	1	BH07	1								X		3.6			
10:05	5/1/2025	S	1	BH07	2								X		3.4			
10:10	5/1/2025	S	1	BH07	3								X		3.2			
10:15	5/1/2025	S	1	BH07	4								X		3.8			
					5								X					
												Sample Temp				Remarks		
																Added PO 3 incident		
																ID.		
																Changed Field		
																Filtered to		
																Sample		
																Depth.		
																Per client		
																NS 5-5-25		
Additional Instructions: WO: 1061476 201																		
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: Haleigh Byrne																		
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 5°C on subsequent days.						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Received on Ice:						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Y/N						
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.																		

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E505026

Job Number: 01058-0007

Received: 5/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/8/25

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: 5/8/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505026  
Date Received: 5/5/2025 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 15:22

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH08 0.5'	E505026-01A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH08 1'	E505026-02A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH08 2'	E505026-03A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH08 3'	E505026-04A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH08 4'	E505026-05A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:22:19PM

**BH08 0.5'**

**E505026-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2519012	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2519012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.4 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2519020	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
<i>Surrogate: n-Nonane</i>						
		94.6 %	61-141	05/05/25	05/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2519016	
Chloride	ND	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:22:19PM

BH08 1'

E505026-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.0 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	96.5 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
<i>Surrogate: n-Nonane</i>						
	95.0 %	61-141		05/05/25	05/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519016
Chloride	63.6	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:22:19PM

BH08 2'

E505026-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.5 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
<i>Surrogate: n-Nonane</i>						
		94.9 %	61-141	05/05/25	05/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519016
Chloride	487	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:22:19PM

BH08 3'

E505026-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.1 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/05/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/05/25	
<i>Surrogate: n-Nonane</i>						
		98.3 %	61-141	05/05/25	05/05/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519016
Chloride	4140	40.0	2	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:22:19PM

BH08 4'

E505026-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.5 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519016
Chloride	5660	100	5	05/05/25	05/05/25	





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 3:22:19PM

## 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 (2519012-BLK1)

Prepared: 05/05/25 Analyzed: 05/06/25

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	8.21		8.00		103	70-130			

## LCS (2519012-BS1)

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	4.34	0.0250	5.00		86.9	70-130			
Ethylbenzene	4.26	0.0250	5.00		85.2	70-130			
Toluene	4.33	0.0250	5.00		86.6	70-130			
o-Xylene	4.30	0.0250	5.00		86.0	70-130			
p,m-Xylene	8.52	0.0500	10.0		85.2	70-130			
Total Xylenes	12.8	0.0250	15.0		85.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			

## Matrix Spike (2519012-MS1)

Source: E505023-02

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	3.84	0.0250	5.00	ND	76.8	70-130			
Ethylbenzene	3.83	0.0250	5.00	ND	76.7	70-130			
Toluene	3.87	0.0250	5.00	ND	77.3	70-130			
o-Xylene	3.88	0.0250	5.00	ND	77.6	70-130			
p,m-Xylene	7.71	0.0500	10.0	ND	77.1	70-130			
Total Xylenes	11.6	0.0250	15.0	ND	77.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			

## Matrix Spike Dup (2519012-MSD1)

Source: E505023-02

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	4.20	0.0250	5.00	ND	83.9	70-130	8.92	27	
Ethylbenzene	4.17	0.0250	5.00	ND	83.4	70-130	8.36	26	
Toluene	4.21	0.0250	5.00	ND	84.1	70-130	8.45	20	
o-Xylene	4.19	0.0250	5.00	ND	83.8	70-130	7.63	25	
p,m-Xylene	8.36	0.0500	10.0	ND	83.6	70-130	8.14	23	
Total Xylenes	12.6	0.0250	15.0	ND	83.7	70-130	7.97	26	
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 3:22:19PM

## 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 (2519012-BLK1)

Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			

## LCS (2519012-BS2)

Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			

## Matrix Spike (2519012-MS2)

Source: E505023-02

Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		8.00		101	70-130			

## Matrix Spike Dup (2519012-MSD2)

Source: E505023-02

Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	98.9	70-130	0.891	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 3:22:19PM

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 (2519020-BLK1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.5		50.0		95.0	61-141			

LCS (2519020-BS1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Diesel Range Organics (C10-C28)	254	25.0	250		101	66-144			
Surrogate: n-Nonane	47.8		50.0		95.5	61-141			

Matrix Spike (2519020-MS1)					Source: E505028-02		Prepared: 05/05/25 Analyzed: 05/05/25		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	47.7		50.0		95.5	61-141			

Matrix Spike Dup (2519020-MSD1)					Source: E505028-02		Prepared: 05/05/25 Analyzed: 05/05/25		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156	0.609	20	
Surrogate: n-Nonane	48.3		50.0		96.5	61-141			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	<b>Reported:</b>
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 3:22:19PM

## 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 (2519016-BLK1)

Prepared: 05/05/25 Analyzed: 05/05/25

Chloride ND 20.0

## LCS (2519016-BS1)

Prepared: 05/05/25 Analyzed: 05/05/25

Chloride 261 20.0 250 104 90-110

## Matrix Spike (2519016-MS1)

Source: E505024-25

Prepared: 05/05/25 Analyzed: 05/05/25

Chloride 1190 200 250 986 81.8 80-120

## Matrix Spike Dup (2519016-MSD1)

Source: E505024-25

Prepared: 05/05/25 Analyzed: 05/05/25

Chloride 1120 200 250 986 53.5 80-120 6.10 20 M2

## 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	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 15:22

- 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

Page 1 of 1

Received by OCD: 8/20/2025 6:29:44 AM

L1 fo 51 pageD

Page 217 of 543

Client Information				Invoice Information		Lab Use Only		TAT				State			
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.		Lab WOB#	Job Number	1D	2D	3D	Std	NM	CO	UT	TX
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.		E-505026	01058-0057				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:											
Email: NMTXGeoGroup@etechnv.com				PN: 19304											
Sample Information						Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Field Volume	Lab Number	100% Meq/100g Chlor	100% Meq/100g Chlor	100% Meq/100g Chlor	100% Meq/100g Chlor	100% Meq/100g Chlor	100% Meq/100g Chlor	SDWA	CWA	RCRA
10:50	5/1/2025	S	1	BH08	0.5	1									
10:55	5/1/2025	S	1	BH08	1"	2									
11:00	5/1/2025	S	1	BH08	2"	3									
11:05	5/1/2025	S	1	BH08	3"	4									
11:10	5/1/2025	S	1	BH08	4"	5									
Additional Instructions:															
(I/We, the undersigned, attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling this sample, false or fraudulent collection is considered fraud and may be grounds for legal action.															
Sampled by: Aleah Byers															
Requisitioned 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: <b>Y/N</b>							
Requisitioned by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Requisitioned by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Requisitioned by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Requisitioned by: (Signature)		Date	Time	Received by: (Signature)		Date	Time								
Sample Matrix: S - Soil, SD - Solid, LG - Liquid, W - Residue, O - Other															
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA															
Note: Samples are discarded 34 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client's 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: 5/5/2025 9:26:33AM

## 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:	05/05/25 07:45	Work Order ID:	E505026
Phone:	(575) 748-0176	Date Logged In:	05/02/25 16:07	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	05/09/25 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/ResolutionSample 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?	No

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.



## Chain of Custody

Page 1 of 1

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.		E505026	01058-0057				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@devn.com															
Phone: 432-305-6415				Miscellaneous: Incident ID:															
Email: NMTXGeoGroup@etechnv.com				PN: 19304 nRM 2016146439															
Sample Information					Analysis and Method										EPA Program				
Time Sampled	Date Sampled	Matrix	Bottle Contention	Sample ID	Sample Depth	Lab Number	PH/DRD by 8015	GR/DRD by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	Fluoride by TX	PCBs & Metals	SR/DOC: NM	SR/DOC: TX	SDWA	CWA	RCRA	
10:50	5/1/2025	S	1	BH08	0.5'	1								X		3.8			changed Field
10:55	5/1/2025	S	1	BH08	1'	2								X		36			Filtered to Sample Depth
11:00	5/1/2025	S	1	BH08	2'	3								X		30			
11:05	5/1/2025	S	1	BH08	3'	4								X		31			Added Incident ID
11:10	5/1/2025	S	1	BH08	4'	5								X		32			3 PO per client NS 5-5-25
Additional Instructions: PO: 1061476201																			
(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: Haleigh Blume																			
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			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
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.																			

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E505027

Job Number: 01058-0007

Received: 5/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/8/25

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: 5/8/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505027  
Date Received: 5/5/2025 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 09:01

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH09 0.5'	E505027-01A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH09 1'	E505027-02A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH09 2'	E505027-03A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH09 3'	E505027-04A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH09 4'	E505027-05A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:01:17AM

BH09 0.5'

E505027-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519012	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.8 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.7 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2519020	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>		98.0 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2519021	
Chloride	ND	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:01:17AM

BH09 1'

E505027-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		94.8 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519021
Chloride	ND	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:01:17AM

BH09 2'

E505027-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.1 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
	96.5 %	61-141		05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519021
Chloride	ND	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:01:17AM

BH09 3'

E505027-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519012
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		101 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		98.0 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519021
Chloride	209	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:01:17AM

BH09 4'

E505027-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519012	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.7 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519012	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	101 %	70-130		05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2519020	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>	99.2 %	61-141		05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2519021	
Chloride	816	20.0	1	05/05/25	05/05/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:01:17AM

## 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 (2519012-BLK1)

Prepared: 05/05/25 Analyzed: 05/06/25

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	8.21		8.00		103	70-130			

## LCS (2519012-BS1)

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	4.34	0.0250	5.00		86.9	70-130			
Ethylbenzene	4.26	0.0250	5.00		85.2	70-130			
Toluene	4.33	0.0250	5.00		86.6	70-130			
o-Xylene	4.30	0.0250	5.00		86.0	70-130			
p,m-Xylene	8.52	0.0500	10.0		85.2	70-130			
Total Xylenes	12.8	0.0250	15.0		85.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			

## Matrix Spike (2519012-MS1)

Source: E505023-02

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	3.84	0.0250	5.00	ND	76.8	70-130			
Ethylbenzene	3.83	0.0250	5.00	ND	76.7	70-130			
Toluene	3.87	0.0250	5.00	ND	77.3	70-130			
o-Xylene	3.88	0.0250	5.00	ND	77.6	70-130			
p,m-Xylene	7.71	0.0500	10.0	ND	77.1	70-130			
Total Xylenes	11.6	0.0250	15.0	ND	77.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			

## Matrix Spike Dup (2519012-MSD1)

Source: E505023-02

Prepared: 05/05/25 Analyzed: 05/06/25

Benzene	4.20	0.0250	5.00	ND	83.9	70-130	8.92	27	
Ethylbenzene	4.17	0.0250	5.00	ND	83.4	70-130	8.36	26	
Toluene	4.21	0.0250	5.00	ND	84.1	70-130	8.45	20	
o-Xylene	4.19	0.0250	5.00	ND	83.8	70-130	7.63	25	
p,m-Xylene	8.36	0.0500	10.0	ND	83.6	70-130	8.14	23	
Total Xylenes	12.6	0.0250	15.0	ND	83.7	70-130	7.97	26	
Surrogate: 4-Bromochlorobenzene-PID	8.14		8.00		102	70-130			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:01:17AM

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 (2519012-BLK1) Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.70		8.00		96.2	70-130			

LCS (2519012-BS2) Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	48.7	20.0	50.0		97.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.75		8.00		96.8	70-130			

Matrix Spike (2519012-MS2) Source: E505023-02 Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	49.0	20.0	50.0	ND	98.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.11		8.00		101	70-130			

Matrix Spike Dup (2519012-MSD2) Source: E505023-02 Prepared: 05/05/25 Analyzed: 05/06/25

Gasoline Range Organics (C6-C10)	49.5	20.0	50.0	ND	98.9	70-130	0.891	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:01:17AM

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 (2519020-BLK1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.5		50.0		95.0	61-141			

LCS (2519020-BS1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Diesel Range Organics (C10-C28)	254	25.0	250		101	66-144			
Surrogate: n-Nonane	47.8		50.0		95.5	61-141			

Matrix Spike (2519020-MS1)					Source: E505028-02		Prepared: 05/05/25 Analyzed: 05/05/25		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	47.7		50.0		95.5	61-141			

Matrix Spike Dup (2519020-MSD1)					Source: E505028-02		Prepared: 05/05/25 Analyzed: 05/05/25		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156	0.609	20	
Surrogate: n-Nonane	48.3		50.0		96.5	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:01:17AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2519021-BLK1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Chloride	ND	20.0							
LCS (2519021-BS1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2519021-MS1)					Source: E505027-03		Prepared: 05/05/25 Analyzed: 05/05/25		
Chloride	265	20.0	250	ND	106	80-120			
Matrix Spike Dup (2519021-MSD1)					Source: E505027-03		Prepared: 05/05/25 Analyzed: 05/05/25		
Chloride	266	20.0	250	ND	106	80-120	0.308	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 09:01

- 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.



Page 234 of 543

## Envirotech Analytical Laboratory

Printed: 5/5/2025 9:27:27AM

## 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:	05/05/25 07:45	Work Order ID:	E505027
Phone:	(575) 748-0176	Date Logged In:	05/02/25 16:11	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	05/09/25 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

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

Carrier: Courier**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? No

**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.





## Chain of Custody

Page 1 of 1

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.		505027	01058-0007				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@devn.com														
Phone: 432-305-6415				Miscellaneous: Incident ID.														
Email: NMTXGeoGroup@etechnv.com				PN: 19304		ARM2016146439												
Sample Information						Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Matrix	Acid Concentration	Sample ID	Lab Number	DRD/DRD by 8015	DRD/DRD by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	ICED 1000 TX	RCRA 8 Metals	ESD/ES by 8020	ESD/ES by 8020	SDWA	CWA	RCRA	
11:15	5/1/2025	S	1	BH09	0.5'	1									X			
11:20	5/1/2025	S	1	BH09	1'	2									X			
11:25	5/1/2025	S	1	BH09	2'	3									X			
11:30	5/1/2025	S	1	BH09	3'	4									X			
11:35	5/1/2025	S	1	BH09	4'	5									X			
Additional Instructions: PO: 1061476201																		
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: Haleigh Blum																		
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. <b>Lab Use Only</b> Received on ice: Y/N		
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time				
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time				
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.																		

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E505028

Job Number: 01058-0007

Received: 5/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/8/25

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: 5/8/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505028  
Date Received: 5/5/2025 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 08:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH10 0.5'	E505028-01A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH10 1'	E505028-02A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH10 2'	E505028-03A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH10 3'	E505028-04A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH10 4'	E505028-05A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 8:56:22AM

**BH10 0.5'**

**E505028-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2519013	
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2519013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.4 %	70-130		05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2519020	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
	98.1 %	61-141		05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2519021	
Chloride	ND	20.0	1	05/05/25	05/05/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 8:56:22AM

BH10 1'

E505028-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519013
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519013
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.7 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		95.7 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519021
Chloride	123	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 8:56:22AM

## BH10 2'

## E505028-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519013
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519013
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.5 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		98.9 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519021
Chloride	408	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 8:56:22AM

BH10 3'

E505028-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519013
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519013
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	98.1 %	70-130		05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
	100 %	61-141		05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519021
Chloride	862	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 8:56:22AM

## BH10 4'

## E505028-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519013	
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.2 %	70-130		05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	103 %	70-130		05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2519020	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>	100 %	61-141		05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2519021	
Chloride	1060	20.0	1	05/05/25	05/05/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 8:56:22AM

## 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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

## Blank (2519013-BLK1)

Prepared: 05/05/25 Analyzed: 05/05/25

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	7.63		8.00		95.4	70-130			

## LCS (2519013-BS1)

Prepared: 05/05/25 Analyzed: 05/05/25

Benzene	4.10	0.0250	5.00		82.0	70-130			
Ethylbenzene	4.04	0.0250	5.00		80.8	70-130			
Toluene	4.10	0.0250	5.00		81.9	70-130			
o-Xylene	4.06	0.0250	5.00		81.1	70-130			
p,m-Xylene	8.10	0.0500	10.0		81.0	70-130			
Total Xylenes	12.2	0.0250	15.0		81.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.7	70-130			

## Matrix Spike (2519013-MS1)

Source: E505028-05

Prepared: 05/05/25 Analyzed: 05/05/25

Benzene	4.69	0.0250	5.00	ND	93.8	70-130			
Ethylbenzene	4.64	0.0250	5.00	ND	92.9	70-130			
Toluene	4.70	0.0250	5.00	ND	93.9	70-130			
o-Xylene	4.67	0.0250	5.00	ND	93.4	70-130			
p,m-Xylene	9.30	0.0500	10.0	ND	93.0	70-130			
Total Xylenes	14.0	0.0250	15.0	ND	93.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			

## Matrix Spike Dup (2519013-MSD1)

Source: E505028-05

Prepared: 05/05/25 Analyzed: 05/05/25

Benzene	4.28	0.0250	5.00	ND	85.6	70-130	9.15	27	
Ethylbenzene	4.24	0.0250	5.00	ND	84.9	70-130	8.98	26	
Toluene	4.29	0.0250	5.00	ND	85.8	70-130	9.10	20	
o-Xylene	4.25	0.0250	5.00	ND	85.1	70-130	9.25	25	
p,m-Xylene	8.50	0.0500	10.0	ND	85.0	70-130	8.99	23	
Total Xylenes	12.8	0.0250	15.0	ND	85.0	70-130	9.08	26	
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 8:56:22AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2519013-BLK1) Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.40		8.00		105	70-130			

LCS (2519013-BS2) Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0		99.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.09		8.00		101	70-130			

Matrix Spike (2519013-MS2) Source: E505028-05 Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.99		8.00		99.9	70-130			

Matrix Spike Dup (2519013-MSD2) Source: E505028-05 Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0	ND	86.9	70-130	15.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.07		8.00		101	70-130			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 8:56:22AM

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
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2519020-BLK1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.5		50.0		95.0	61-141			

LCS (2519020-BS1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Diesel Range Organics (C10-C28)	254	25.0	250		101	66-144			
Surrogate: n-Nonane	47.8		50.0		95.5	61-141			

Matrix Spike (2519020-MS1)					Source: E505028-02		Prepared: 05/05/25 Analyzed: 05/05/25		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	47.7		50.0		95.5	61-141			

Matrix Spike Dup (2519020-MSD1)					Source: E505028-02		Prepared: 05/05/25 Analyzed: 05/05/25		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156	0.609	20	
Surrogate: n-Nonane	48.3		50.0		96.5	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 8:56:22AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2519021-BLK1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Chloride	ND	20.0							
LCS (2519021-BS1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2519021-MS1)					Source: E505027-03		Prepared: 05/05/25 Analyzed: 05/05/25		
Chloride	265	20.0	250	ND	106	80-120			
Matrix Spike Dup (2519021-MSD1)					Source: E505027-03		Prepared: 05/05/25 Analyzed: 05/05/25		
Chloride	266	20.0	250	ND	106	80-120	0.308	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 08:56

- 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

Page 1 of 1

Received by OCD: 8/20/2025 6:29:44 AM

L1 fo 51 egaD

Page 251 of 543

Client Information				Invoice Information		Lab Use Only		TAT				State						
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.		Lab WOB	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.		E-15028	10580001					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:														
Email: NMTXGeoGroup@etechnv.com				PN: 19304														
Sample Information						Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Volume	Depth	Sample ID	Field #	Lab Number	TECH ANALYST	TECH ASST	TECH W/ST	VOC by ATO	Chloride by TOC	TOC by TOC	TOC by TOC	TOC by TOC	TOC by TOC	SDWA	CWA	RCRA
11:45	5/1/2025	5	1	BH10	0.5	1												
11:50	5/1/2025	5	1	BH10	1	2												
11:55	5/1/2025	5	1	BH10	2	3												
12:00	5/1/2025	5	1	BH10	3	4												
12:05	5/1/2025	5	1	BH10	4	5												
Additional Instructions:																		
I, (Name and Title), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally misrepresenting the sample location, date or time of collection is considered fraud and may be grounds for legal action.																		
Sample ID: 10580001																		
Collected 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 4°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y/N												
Collected by: (Signature)	Date	Time	Received by: (Signature)	Date	Time													
Collected by: (Signature)	Date	Time	Received by: (Signature)	Date	Time													
Collected by: (Signature)	Date	Time	Received by: (Signature)	Date	Time													
Collected by: (Signature)	Date	Time	Received by: (Signature)	Date	Time													
Sample Matrix: S - Soil, SE - 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 sample 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: 5/5/2025 9:28:20AM

## 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:	05/05/25 07:45	Work Order ID:	E505028
Phone:	(575) 748-0176	Date Logged In:	05/02/25 16:14	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	05/09/25 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

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

Carrier: CourierComments/ResolutionSample 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? No

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.





## Chain of Custody

Page 1 of 1

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.		E-55028	1058 C007					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@devn.com														
Phone: 432-305-6415				Miscellaneous: Incident ID:														
Email: NMTXGeoGroup@etechnv.com				PN: 19304 ARM 2016146439														
Sample Information						Analysis and Method						EPA Program						
Time Sampled	Date Sampled	Matrix	Vol of Container	Sample ID	Lab Number	DIRD by 8015	GRD/GRD by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCED 1005-TN	RCRA 8 Metals	RODUC-NM	RODUC-TN	SDWA	CWA	RCRA	
															Compliance	Y	or	N
															PWSID #			
															Sample Temp			Remarks
11:45	5/1/2025	S	1	BH10	0.5'								X		4.2			Changed Field Filtered
11:50	5/1/2025	S	1	BH10	1'								X		3.8			to sample depth
11:55	5/1/2025	S	1	BH10	2'								X		3.5			Added
12:00	5/1/2025	S	1	BH10	3'								X		3.2			PO Incident ID
12:05	5/1/2025	S	1	BH10	4'								X		2.8			Per client
																		NS 5-5-25
Additional Instructions: PO: 1061476201																		
I, (their 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: Haleigh Blum																		
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="radio"/> Y / <input type="radio"/> N						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
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.																		



Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E505029

Job Number: 01058-0007

Received: 5/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/8/25

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: 5/8/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505029  
Date Received: 5/5/2025 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 09:03

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH11 0.5'	E505029-01A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH11 1'	E505029-02A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH11 2'	E505029-03A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH11 3'	E505029-04A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH11 4'	E505029-05A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:03:35AM

**BH11 0.5'**

**E505029-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2519013	
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: SL		Batch: 2519013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.1 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2519020	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		94.4 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2519021	
Chloride	30.9	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:03:35AM

BH11 1'

E505029-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519013	
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.0 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2519020	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>		96.3 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2519021	
Chloride	62.0	20.0	1	05/05/25	05/05/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:03:35AM

BH11 2'

E505029-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519013	
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2519013	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.8 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2519020	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>		97.4 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2519021	
Chloride	84.0	20.0	1	05/05/25	05/05/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:03:35AM

BH11 3'

E505029-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519013
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
Surrogate: 4-Bromochlorobenzene-PID	98.3 %	70-130		05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519013
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	101 %	70-130		05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
Surrogate: n-Nonane	97.3 %	61-141		05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519021
Chloride	159	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 9:03:35AM

BH11 4'

E505029-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519013
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2519013
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		98.1 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2519020
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		98.4 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2519021
Chloride	687	20.0	1	05/05/25	05/06/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:03:35AM

## 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 (2519013-BLK1)

Prepared: 05/05/25 Analyzed: 05/05/25

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	7.63		8.00		95.4	70-130			

## LCS (2519013-BS1)

Prepared: 05/05/25 Analyzed: 05/05/25

Benzene	4.10	0.0250	5.00		82.0	70-130			
Ethylbenzene	4.04	0.0250	5.00		80.8	70-130			
Toluene	4.10	0.0250	5.00		81.9	70-130			
o-Xylene	4.06	0.0250	5.00		81.1	70-130			
p,m-Xylene	8.10	0.0500	10.0		81.0	70-130			
Total Xylenes	12.2	0.0250	15.0		81.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.58		8.00		94.7	70-130			

## Matrix Spike (2519013-MS1)

Source: E505028-05

Prepared: 05/05/25 Analyzed: 05/05/25

Benzene	4.69	0.0250	5.00	ND	93.8	70-130			
Ethylbenzene	4.64	0.0250	5.00	ND	92.9	70-130			
Toluene	4.70	0.0250	5.00	ND	93.9	70-130			
o-Xylene	4.67	0.0250	5.00	ND	93.4	70-130			
p,m-Xylene	9.30	0.0500	10.0	ND	93.0	70-130			
Total Xylenes	14.0	0.0250	15.0	ND	93.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.21		8.00		103	70-130			

## Matrix Spike Dup (2519013-MSD1)

Source: E505028-05

Prepared: 05/05/25 Analyzed: 05/05/25

Benzene	4.28	0.0250	5.00	ND	85.6	70-130	9.15	27	
Ethylbenzene	4.24	0.0250	5.00	ND	84.9	70-130	8.98	26	
Toluene	4.29	0.0250	5.00	ND	85.8	70-130	9.10	20	
o-Xylene	4.25	0.0250	5.00	ND	85.1	70-130	9.25	25	
p,m-Xylene	8.50	0.0500	10.0	ND	85.0	70-130	8.99	23	
Total Xylenes	12.8	0.0250	15.0	ND	85.0	70-130	9.08	26	
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:03:35AM

## 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 (2519013-BLK1)

Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.40		8.00		105	70-130			

## LCS (2519013-BS2)

Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	49.9	20.0	50.0		99.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.09		8.00		101	70-130			

## Matrix Spike (2519013-MS2)

Source: E505028-05

Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.99		8.00		99.9	70-130			

## Matrix Spike Dup (2519013-MSD2)

Source: E505028-05

Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	43.5	20.0	50.0	ND	86.9	70-130	15.3	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.07		8.00		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:03:35AM

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 (2519020-BLK1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	47.5		50.0		95.0	61-141			

LCS (2519020-BS1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Diesel Range Organics (C10-C28)	254	25.0	250		101	66-144			
Surrogate: n-Nonane	47.8		50.0		95.5	61-141			

Matrix Spike (2519020-MS1)					Source: E505028-02		Prepared: 05/05/25 Analyzed: 05/05/25		
Diesel Range Organics (C10-C28)	261	25.0	250	ND	104	56-156			
Surrogate: n-Nonane	47.7		50.0		95.5	61-141			

Matrix Spike Dup (2519020-MSD1)					Source: E505028-02		Prepared: 05/05/25 Analyzed: 05/05/25		
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	56-156	0.609	20	
Surrogate: n-Nonane	48.3		50.0		96.5	61-141			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 9:03:35AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2519021-BLK1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Chloride	ND	20.0							
LCS (2519021-BS1)					Prepared: 05/05/25 Analyzed: 05/05/25				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2519021-MS1)					Source: E505027-03		Prepared: 05/05/25 Analyzed: 05/05/25		
Chloride	265	20.0	250	ND	106	80-120			
Matrix Spike Dup (2519021-MSD1)					Source: E505027-03		Prepared: 05/05/25 Analyzed: 05/05/25		
Chloride	266	20.0	250	ND	106	80-120	0.308	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 09:03

- 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.



[illegible]

## Envirotech Analytical Laboratory

Printed: 5/5/2025 9:29:11AM

## 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:	05/05/25 07:45	Work Order ID:	E505029
Phone:	(575) 748-0176	Date Logged In:	05/02/25 16:18	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	05/09/25 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

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

Carrier: CourierComments/ResolutionSample 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? No

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.





## Chain of Custody

Page 1 of 1

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.		E505029	0058-0007					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@devn.com														
Phone: 432-305-6415				Miscellaneous: Incident ID:														
Email: NMTXGeoGroup@etechnv.com				PN: 19304 ARM 2016146439														
Sample Information					Analysis and Method										EPA Program			
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DETO/ORO by 8015	STOP by 8015	BTX by 8021	VOC by 8160	Chloride 300.0	TCEO 1000 - TX	RCRA 8 Metals	8000C - NH	8000C - TX	SDWA	CWA	RCRA	
12:40	5/1/2025	S	1	BH11	0.5'								X		3.6			Changed Field
12:45	5/1/2025	S	1	BH11	1'								X		3.8			Filtered to sample
12:50	5/1/2025	S	1	BH11	2'								X		3.0			Depth.
12:55	5/1/2025	S	1	BH11	3'								X		3.2			Added PO
13:00	5/1/2025	S	1	BH11	4'								X		2.9			Incident ID.
																		Per client.
																		NS S-S-25
Additional Instructions: PO: 1061476201																		
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: Halleigh Blume																		
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						
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time								
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.																		

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E505030

Job Number: 01058-0007

Received: 5/5/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/8/25

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: 5/8/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505030  
Date Received: 5/5/2025 7:45:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/5/2025 7:45:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 15:24

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH12 0.5'	E505030-01A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH12 1'	E505030-02A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH13 0.5'	E505030-03A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH13 1'	E505030-04A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH14 0.5'	E505030-05A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH14 1'	E505030-06A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH15 0.5'	E505030-07A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH15 1'	E505030-08A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH16 0.5'	E505030-09A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH16 1'	E505030-10A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH17 0.5'	E505030-11A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH17 1'	E505030-12A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH18 0.5'	E505030-13A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH18 1'	E505030-14A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH19 0.5'	E505030-15A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH19 1'	E505030-16A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH20 0.5'	E505030-17A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.
BH20 1'	E505030-18A	Soil	05/01/25	05/05/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

BH12 0.5'

E505030-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.5 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: HM		Batch: 2519022	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>		93.9 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2519023	
Chloride	ND	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

## BH12 1'

## E505030-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.8 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: HM		Batch: 2519022	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		92.2 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2519023	
Chloride	ND	20.0	1	05/05/25	05/06/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

BH13 0.5'

E505030-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.6 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		95.1 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2519023
Chloride	ND	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

## BH13 1'

## E505030-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.8 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: HM		Batch: 2519022	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>		92.1 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2519023	
Chloride	ND	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

BH14 0.5'

E505030-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
Surrogate: 4-Bromochlorobenzene-PID		109 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.6 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
Surrogate: n-Nonane		94.7 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2519023
Chloride	49.9	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

## BH14 1'

## E505030-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2519017
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		110 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>		mg/kg	mg/kg	Analyst: BA		Batch: 2519017
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.8 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>		mg/kg	mg/kg	Analyst: HM		Batch: 2519022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>		95.9 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>		mg/kg	mg/kg	Analyst: IY		Batch: 2519023
Chloride	59.8	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

BH15 0.5'

E505030-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		110 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		92.5 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2519023
Chloride	47.1	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

## BH15 1'

## E505030-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
Surrogate: 4-Bromochlorobenzene-PID		106 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		92.7 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
Surrogate: n-Nonane		95.4 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2519023
Chloride	58.7	20.0	1	05/05/25	05/06/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

BH16 0.5'

E505030-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Benzene	ND	0.0250	1	05/05/25	05/05/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/05/25	
Toluene	ND	0.0250	1	05/05/25	05/05/25	
o-Xylene	ND	0.0250	1	05/05/25	05/05/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/05/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/05/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/05/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.3 %	70-130	05/05/25	05/05/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		94.2 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2519023
Chloride	ND	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

## BH16 1'

## E505030-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.1 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: HM		Batch: 2519022	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>		94.3 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2519023	
Chloride	ND	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

BH17 0.5'

E505030-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.8 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		94.0 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2519023
Chloride	ND	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

BH17 1'

E505030-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		112 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.4 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		95.5 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2519023
Chloride	20.5	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

BH18 0.5'

E505030-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.2 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>						
		92.6 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2519023
Chloride	ND	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

## BH18 1'

## E505030-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.1 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: HM		Batch: 2519022	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/06/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/06/25	
<i>Surrogate: n-Nonane</i>		94.0 %	61-141	05/05/25	05/06/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2519023	
Chloride	ND	20.0	1	05/05/25	05/06/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

BH19 0.5'

E505030-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		113 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2519017
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2519022
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/07/25	
<i>Surrogate: n-Nonane</i>						
		94.2 %	61-141	05/05/25	05/07/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2519023
Chloride	ND	20.0	1	05/05/25	05/06/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/8/2025 3:24:21PM

## BH19 1'

## E505030-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.1 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: HM		Batch: 2519022	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/07/25	
<i>Surrogate: n-Nonane</i>		94.6 %	61-141	05/05/25	05/07/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2519023	
Chloride	ND	20.0	1	05/05/25	05/06/25	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 5/8/2025 3:24:21PM
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BH20 0.5'

E505030-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		114 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.8 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: HM		Batch: 2519022	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/07/25	
<i>Surrogate: n-Nonane</i>						
		92.8 %	61-141	05/05/25	05/07/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2519023	
Chloride	ND	20.0	1	05/05/25	05/06/25	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 5/8/2025 3:24:21PM
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BH20 1'

E505030-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Benzene	ND	0.0250	1	05/05/25	05/06/25	
Ethylbenzene	ND	0.0250	1	05/05/25	05/06/25	
Toluene	ND	0.0250	1	05/05/25	05/06/25	
o-Xylene	ND	0.0250	1	05/05/25	05/06/25	
p,m-Xylene	ND	0.0500	1	05/05/25	05/06/25	
Total Xylenes	ND	0.0250	1	05/05/25	05/06/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		111 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2519017	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/05/25	05/06/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.6 %	70-130	05/05/25	05/06/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: HM		Batch: 2519022	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/05/25	05/07/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/05/25	05/07/25	
<i>Surrogate: n-Nonane</i>						
		93.9 %	61-141	05/05/25	05/07/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2519023	
Chloride	ND	20.0	1	05/05/25	05/06/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 3:24:21PM

## 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 (2519017-BLK1)

Prepared: 05/05/25 Analyzed: 05/05/25

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	8.57		8.00		107	70-130			

## LCS (2519017-BS1)

Prepared: 05/05/25 Analyzed: 05/05/25

Benzene	5.24	0.0250	5.00		105	70-130			
Ethylbenzene	5.19	0.0250	5.00		104	70-130			
Toluene	5.23	0.0250	5.00		105	70-130			
o-Xylene	5.11	0.0250	5.00		102	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.50		8.00		106	70-130			

## Matrix Spike (2519017-MS1)

Source: E505030-08

Prepared: 05/05/25 Analyzed: 05/05/25

Benzene	5.71	0.0250	5.00	ND	114	70-130			
Ethylbenzene	5.62	0.0250	5.00	ND	112	70-130			
Toluene	5.68	0.0250	5.00	ND	114	70-130			
o-Xylene	5.54	0.0250	5.00	ND	111	70-130			
p,m-Xylene	11.3	0.0500	10.0	ND	113	70-130			
Total Xylenes	16.8	0.0250	15.0	ND	112	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.44		8.00		105	70-130			

## Matrix Spike Dup (2519017-MSD1)

Source: E505030-08

Prepared: 05/05/25 Analyzed: 05/05/25

Benzene	5.26	0.0250	5.00	ND	105	70-130	8.18	27	
Ethylbenzene	5.21	0.0250	5.00	ND	104	70-130	7.59	26	
Toluene	5.25	0.0250	5.00	ND	105	70-130	7.91	20	
o-Xylene	5.12	0.0250	5.00	ND	102	70-130	7.73	25	
p,m-Xylene	10.5	0.0500	10.0	ND	105	70-130	7.31	23	
Total Xylenes	15.6	0.0250	15.0	ND	104	70-130	7.45	26	
Surrogate: 4-Bromochlorobenzene-PID	8.47		8.00		106	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 3:24:21PM

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 (2519017-BLK1) Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		8.00		94.6	70-130			

LCS (2519017-BS2) Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	43.9	20.0	50.0		87.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.4	70-130			

Matrix Spike (2519017-MS2) Source: E505030-08 Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	48.8	20.0	50.0	ND	97.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

Matrix Spike Dup (2519017-MSD2) Source: E505030-08 Prepared: 05/05/25 Analyzed: 05/05/25

Gasoline Range Organics (C6-C10)	50.2	20.0	50.0	ND	100	70-130	2.76	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	<b>Reported:</b>
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 3:24:21PM

## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2519022-BLK1)

Prepared: 05/05/25 Analyzed: 05/06/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: <i>n</i> -Nonane	44.3		50.0		88.7	61-141			

## LCS (2519022-BS1)

Prepared: 05/05/25 Analyzed: 05/06/25

Diesel Range Organics (C10-C28)	236	25.0	250		94.4	66-144			
Surrogate: <i>n</i> -Nonane	43.5		50.0		86.9	61-141			

## Matrix Spike (2519022-MS1)

Source: E505030-11

Prepared: 05/05/25 Analyzed: 05/06/25

Diesel Range Organics (C10-C28)	243	25.0	250	ND	97.1	56-156			
Surrogate: <i>n</i> -Nonane	44.0		50.0		87.9	61-141			

## Matrix Spike Dup (2519022-MSD1)

Source: E505030-11

Prepared: 05/05/25 Analyzed: 05/06/25

Diesel Range Organics (C10-C28)	252	25.0	250	ND	101	56-156	3.79	20	
Surrogate: <i>n</i> -Nonane	45.7		50.0		91.3	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/8/2025 3:24:21PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2519023-BLK1)					Prepared: 05/05/25 Analyzed: 05/06/25				
Chloride	ND	20.0							
LCS (2519023-BS1)					Prepared: 05/05/25 Analyzed: 05/06/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2519023-MS1)					Source: E505030-03		Prepared: 05/05/25 Analyzed: 05/06/25		
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2519023-MSD1)					Source: E505030-03		Prepared: 05/05/25 Analyzed: 05/06/25		
Chloride	252	20.0	250	ND	101	80-120	0.0349	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/08/25 15:24

- 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.





Analytical Lab				Client Information				Invoice Information				Lab Use Only				TAT				State																																																																																																																																																																																																																																																																																				
Client: Devon Energy Production Company, LP Project: TOMCAT 21 FEDERAL #001 Project Manager: Anna Byers Address: 13000 W County Rd 100 City, State, Zip: Odessa, TX, 79765 Phone: 432-305-6415 Email: NMTXGeoGroup@etechnv.com				Company: Devon Energy Production Co. Address: 5315 Buena Vista Dr. City, State, Zip: Carlsbad, NM, 88220 Phone: 575-885-7502 Email: jim.raley@devn.com Miscellaneous: PN: 19304				Lab WO# <b>E-505030</b> Job Number <b>110580007</b>				1D 2D 3D Std <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>				NM CO UT TX <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>																																																																																																																																																																																																																																																																																								
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## Envirotech Analytical Laboratory

Printed: 5/5/2025 9:30:08AM

## 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:	05/05/25 07:45	Work Order ID:	E505030
Phone:	(575) 748-0176	Date Logged In:	05/02/25 16:22	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	05/09/25 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

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

Carrier: CourierComments/ResolutionSample 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? No

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.





## Chain of Custody

Page 1 of 2

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.		E-505030	010580007					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@dev.com													
Phone: 432-305-6415				Miscellaneous: Incident ID:													
Email: NMTXGeoGroup@etechnv.com				PN: 19304													
				Incident ID: NM 2016146439													
Sample Information				Analysis and Method										EPA Program			
Time Sampled	Date Sampled	Matrix	Vol of Container	Sample ID	Lab Number	STC As Cnd D/D	STC As Cnd D/D	STC As Cnd D/D	VOC by 8221	VOC by 8250	Chloride 800 D	TEK 1005 - TX	RCRA 8 Metals	SWA	CWA	RCRA	
														Compliance	Y	or	N
														PWSID #			
														Sample Temp			Remarks
13:30	5/1/2025	S	1	BH12	0.5' 1									X			2.8 Changed field filtered to sample depth.
13:35	5/1/2025	S	1	BH12	1' 2									X			2.6
13:40	5/1/2025	S	1	BH13	0.5' 3									X			3.0 Added PO
13:45	5/1/2025	S	1	BH13	1' 4									X			3.4 Incident ID.
13:50	5/1/2025	S	1	BH14	0.5' 5									X			3.6 Per client
13:55	5/1/2025	S	1	BH14	1' 6									X			4.0 NS. 5-5-25
14:00	5/1/2025	S	1	BH15	0.5' 7									X			2.8
14:05	5/1/2025	S	1	BH15	1' 8									X			2.2
14:10	5/1/2025	S	1	BH16	0.5' 9									X			2.0
14:15	5/1/2025	S	1	BH16	1' 10									X			2.6
Additional Instructions: PO: 1061476201																	
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: Haligh Blume																	
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.					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
Lab Use Only																	
Received on ice: (Y/N)																	
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.																	





## Chain of Custody

Page 2 of 2

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.		E505030	0058-007					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@dev.com													
Phone: 432-305-6415				Miscellaneous: Incident ID:													
Email: NMTXGeoGroup@etechnv.com				PN: 19304		NRM2016146439											
Sample Information				Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DETO/DETO/CO	STO/STO/CO	RTX by 80.21	VOC by 82.60	Chloride 300.0	TCO/TCO/ TX	BCRA 3 Metals	BCRO/BCRO/ TX	SDWA	CWA	RCRA	
14:25	5/1/2025	S	1	BH17	0.5'									X			
14:30	5/1/2025	S	1	BH17	1'									X			
14:35	5/1/2025	S	1	BH18	0.5'									X			
14:40	5/1/2025	S	1	BH18	1'									X			
14:45	5/1/2025	S	1	BH19	0.5'									X			
14:50	5/1/2025	S	1	BH19	1'									X			
14:55	5/1/2025	S	1	BH20	0.5'									X			
15:00	5/1/2025	S	1	BH20	1'									X			
Additional Instructions: PO: 1061476201																	
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: Haleigh Blume																	
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 5°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							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time							
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.																	

Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E505115

Job Number: 01058-0007

Received: 5/12/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/16/25

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.  
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 5/16/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505115  
Date Received: 5/12/2025 8:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/12/2025 8:30:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/16/25 11:56

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH12 2'	E505115-01A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.
BH12 3'	E505115-02A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.
BH12 4'	E505115-03A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.
BH13 2'	E505115-04A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.
BH13 3'	E505115-05A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.
BH13 4'	E505115-06A	Soil	05/08/25	05/12/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/16/2025 11:56:37AM

BH12 2'

E505115-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2520005	
Benzene	ND	0.0250	1	05/12/25	05/14/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/14/25	
Toluene	ND	0.0250	1	05/12/25	05/14/25	
o-Xylene	ND	0.0250	1	05/12/25	05/14/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/14/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	83.3 %	70-130		05/12/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2520005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	97.0 %	70-130		05/12/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2520019	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>	68.2 %	61-141		05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2520053	
Chloride	998	20.0	1	05/13/25	05/13/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/16/2025 11:56:37AM

## BH12 3'

## E505115-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520005
Benzene	ND	0.0250	1	05/12/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/15/25	
Toluene	ND	0.0250	1	05/12/25	05/15/25	
o-Xylene	ND	0.0250	1	05/12/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.3 %	70-130		05/12/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520005
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.2 %	70-130		05/12/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520019
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>						
	99.8 %	61-141		05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520053
Chloride	2590	40.0	2	05/13/25	05/13/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/16/2025 11:56:37AM

## BH12 4'

## E505115-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2520005	
Benzene	ND	0.0250	1	05/12/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/15/25	
Toluene	ND	0.0250	1	05/12/25	05/15/25	
o-Xylene	ND	0.0250	1	05/12/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	85.8 %	70-130		05/12/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2520005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.3 %	70-130		05/12/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2520019	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>	94.8 %	61-141		05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2520053	
Chloride	925	20.0	1	05/13/25	05/14/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/16/2025 11:56:37AM

## BH13 2'

## E505115-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2520005	
Benzene	ND	0.0250	1	05/12/25	05/14/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/14/25	
Toluene	ND	0.0250	1	05/12/25	05/14/25	
o-Xylene	ND	0.0250	1	05/12/25	05/14/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/14/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		81.1 %	70-130	05/12/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2520005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		97.5 %	70-130	05/12/25	05/14/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2520019	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>		95.8 %	61-141	05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2520053	
Chloride	ND	20.0	1	05/13/25	05/14/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/16/2025 11:56:37AM

## BH13 3'

## E505115-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2520005	
Benzene	ND	0.0250	1	05/12/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/15/25	
Toluene	ND	0.0250	1	05/12/25	05/15/25	
o-Xylene	ND	0.0250	1	05/12/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	85.4 %	70-130		05/12/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2520005	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	96.0 %	70-130		05/12/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2520019	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>	101 %	61-141		05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: RAS		Batch: 2520053	
Chloride	1020	20.0	1	05/13/25	05/14/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/16/2025 11:56:37AM

## BH13 4'

## E505115-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520005
Benzene	ND	0.0250	1	05/12/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/12/25	05/15/25	
Toluene	ND	0.0250	1	05/12/25	05/15/25	
o-Xylene	ND	0.0250	1	05/12/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/12/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/12/25	05/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	87.3 %	70-130		05/12/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2520005
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/12/25	05/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	97.8 %	70-130		05/12/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2520019
Diesel Range Organics (C10-C28)	ND	25.0	1	05/12/25	05/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/12/25	05/13/25	
<i>Surrogate: n-Nonane</i>						
	100 %	61-141		05/12/25	05/13/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520053
Chloride	2710	40.0	2	05/13/25	05/14/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/16/2025 11:56:37AM

## 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 (2520005-BLK1)

Prepared: 05/12/25 Analyzed: 05/14/25

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	6.74		8.00		84.2	70-130			

## LCS (2520005-BS1)

Prepared: 05/12/25 Analyzed: 05/14/25

Benzene	4.98	0.0250	5.00		99.5	70-130			
Ethylbenzene	5.01	0.0250	5.00		100	70-130			
Toluene	5.03	0.0250	5.00		101	70-130			
o-Xylene	4.93	0.0250	5.00		98.6	70-130			
p,m-Xylene	10.1	0.0500	10.0		101	70-130			
Total Xylenes	15.0	0.0250	15.0		100	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.64		8.00		83.0	70-130			

## Matrix Spike (2520005-MS1)

Source: E505115-04

Prepared: 05/12/25 Analyzed: 05/14/25

Benzene	4.79	0.0250	5.00	ND	95.8	70-130			
Ethylbenzene	4.82	0.0250	5.00	ND	96.3	70-130			
Toluene	4.84	0.0250	5.00	ND	96.8	70-130			
o-Xylene	4.72	0.0250	5.00	ND	94.5	70-130			
p,m-Xylene	9.72	0.0500	10.0	ND	97.2	70-130			
Total Xylenes	14.4	0.0250	15.0	ND	96.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.50		8.00		81.3	70-130			

## Matrix Spike Dup (2520005-MSD1)

Source: E505115-04

Prepared: 05/12/25 Analyzed: 05/14/25

Benzene	4.58	0.0250	5.00	ND	91.7	70-130	4.45	27	
Ethylbenzene	4.64	0.0250	5.00	ND	92.8	70-130	3.75	26	
Toluene	4.63	0.0250	5.00	ND	92.6	70-130	4.42	20	
o-Xylene	4.55	0.0250	5.00	ND	91.0	70-130	3.75	25	
p,m-Xylene	9.37	0.0500	10.0	ND	93.7	70-130	3.65	23	
Total Xylenes	13.9	0.0250	15.0	ND	92.8	70-130	3.69	26	
Surrogate: 4-Bromochlorobenzene-PID	6.68		8.00		83.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/16/2025 11:56:37AM

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 (2520005-BLK1) Prepared: 05/12/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.80		8.00		97.5	70-130			

LCS (2520005-BS2) Prepared: 05/12/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	37.3	20.0	50.0		74.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.87		8.00		98.3	70-130			

Matrix Spike (2520005-MS2) Source: E505115-04 Prepared: 05/12/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	82.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			

Matrix Spike Dup (2520005-MSD2) Source: E505115-04 Prepared: 05/12/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130	3.54	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.94		8.00		99.2	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/16/2025 11:56:37AM

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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<b>Blank (2520019-BLK1)</b>					Prepared: 05/12/25 Analyzed: 05/13/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.3		50.0		96.6	61-141			

<b>LCS (2520019-BS1)</b>					Prepared: 05/12/25 Analyzed: 05/13/25				
Diesel Range Organics (C10-C28)	261	25.0	250		104	66-144			
Surrogate: n-Nonane	48.4		50.0		96.8	61-141			

<b>Matrix Spike (2520019-MS1)</b>					<b>Source: E505116-07</b>		Prepared: 05/12/25 Analyzed: 05/13/25		
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	56-156			
Surrogate: n-Nonane	48.3		50.0		96.6	61-141			

<b>Matrix Spike Dup (2520019-MSD1)</b>					<b>Source: E505116-07</b>		Prepared: 05/12/25 Analyzed: 05/13/25		
Diesel Range Organics (C10-C28)	260	25.0	250	ND	104	56-156	0.885	20	
Surrogate: n-Nonane	48.1		50.0		96.3	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/16/2025 11:56:37AM

Anions by EPA 300.0/9056A

Analyst: RAS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2520053-BLK1)					Prepared: 05/13/25 Analyzed: 05/13/25				
Chloride	ND	20.0							
LCS (2520053-BS1)					Prepared: 05/13/25 Analyzed: 05/13/25				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2520053-MS1)					Source: E505111-02		Prepared: 05/13/25 Analyzed: 05/13/25		
Chloride	597	20.0	250	372	90.2	80-120			
Matrix Spike Dup (2520053-MSD1)					Source: E505111-02		Prepared: 05/13/25 Analyzed: 05/13/25		
Chloride	631	20.0	250	372	103	80-120	5.41	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/16/25 11:56

- 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.





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.		ES05115	0058-0007				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@devn.com															
Phone: 432-305-6415				Miscellaneous: WO: 1007085301; PN: 19304;															
Email: NMTXGeoGroup@etechnv.com				IN: nRM2016146439															
Sample Information							Analysis and Method					EPA Program							
Time Sampled	Date Sampled	Matrix	Vol. of Container	Sample ID	Depth	Lab Number	DRUG by 8015	GRQ/DRQ by 8015	BTEX by 8021	VOC by 8060	Chloride 300 D	TRIC 100% NR	RCRA 5 Metals	NO <sub>3</sub> DOC	NO <sub>2</sub> DOC	SDWA	CWA	RCRA	
10:25	5/8/2025	S	1	BH12	2'	1													
10:30	5/8/2025	S	1	BH12	3'	2													
10:35	5/8/2025	S	1	BH12	4'	3													
10:40	5/8/2025	S	1	BH13	2'	4													
10:45	5/8/2025	S	1	BH13	3'	5													
10:50	5/8/2025	S	1	BH13	4'	6													
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: Haleigh Bume																			
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													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time														
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: 5/12/2025 12:56:18PM

## 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:	05/12/25 08:30	Work Order ID:	E505115
Phone:	(575) 748-0176	Date Logged In:	05/09/25 14:15	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	05/16/25 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

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

Carrier: CourierComments/ResolutionSample 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: E505213

Job Number: 01058-0007

Received: 5/19/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/23/25

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: 5/23/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505213  
Date Received: 5/19/2025 7:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/19/2025 7:30:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/23/25 11:48

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH14 2'	E505213-01A	Soil	05/09/25	05/19/25	Glass Jar, 2 oz.
BH14 3'	E505213-02A	Soil	05/09/25	05/19/25	Glass Jar, 2 oz.
BH14 4'	E505213-03A	Soil	05/09/25	05/19/25	Glass Jar, 2 oz.





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/23/2025 11:48:35AM

BH14 2'

E505213-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2521036	
Benzene	ND	0.0250	1	05/20/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/21/25	
Toluene	ND	0.0250	1	05/20/25	05/21/25	
o-Xylene	ND	0.0250	1	05/20/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/20/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		99.0 %	70-130	05/20/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2521036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	05/20/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: HM		Batch: 2521056	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/20/25	05/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/20/25	05/22/25	
<i>Surrogate: n-Nonane</i>						
		117 %	61-141	05/20/25	05/22/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2521055	
Chloride	ND	20.0	1	05/20/25	05/20/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/23/2025 11:48:35AM

## BH14 3'

## E505213-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2521036
Benzene	ND	0.0250	1	05/20/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/21/25	
Toluene	ND	0.0250	1	05/20/25	05/21/25	
o-Xylene	ND	0.0250	1	05/20/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/20/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/20/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2521036
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		109 %	70-130	05/20/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2521056
Diesel Range Organics (C10-C28)	ND	25.0	1	05/20/25	05/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/20/25	05/22/25	
<i>Surrogate: n-Nonane</i>						
		117 %	61-141	05/20/25	05/22/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: DT		Batch: 2521055
Chloride	826	20.0	1	05/20/25	05/20/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/23/2025 11:48:35AM

## BH14 4'

## E505213-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2521036	
Benzene	ND	0.0250	1	05/20/25	05/21/25	
Ethylbenzene	ND	0.0250	1	05/20/25	05/21/25	
Toluene	ND	0.0250	1	05/20/25	05/21/25	
o-Xylene	ND	0.0250	1	05/20/25	05/21/25	
p,m-Xylene	ND	0.0500	1	05/20/25	05/21/25	
Total Xylenes	ND	0.0250	1	05/20/25	05/21/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.4 %	70-130	05/20/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2521036	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/20/25	05/21/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %	70-130	05/20/25	05/21/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: HM		Batch: 2521056	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/20/25	05/22/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/20/25	05/22/25	
<i>Surrogate: n-Nonane</i>		115 %	61-141	05/20/25	05/22/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2521055	
Chloride	1500	20.0	1	05/20/25	05/20/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 11:48:35AM

## Volatile Organics by EPA 8021B

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 (2521036-BLK1)

Prepared: 05/20/25 Analyzed: 05/21/25

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	8.07		8.00		101	70-130			

## LCS (2521036-BS1)

Prepared: 05/20/25 Analyzed: 05/21/25

Benzene	4.77	0.0250	5.00		95.4	70-130			
Ethylbenzene	4.74	0.0250	5.00		94.9	70-130			
Toluene	4.75	0.0250	5.00		95.0	70-130			
o-Xylene	4.70	0.0250	5.00		93.9	70-130			
p,m-Xylene	9.62	0.0500	10.0		96.2	70-130			
Total Xylenes	14.3	0.0250	15.0		95.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.78		8.00		97.3	70-130			

## Matrix Spike (2521036-MS1)

Source: E505206-06

Prepared: 05/20/25 Analyzed: 05/21/25

Benzene	4.78	0.0250	5.00	ND	95.6	70-130			
Ethylbenzene	4.75	0.0250	5.00	ND	94.9	70-130			
Toluene	4.75	0.0250	5.00	ND	95.0	70-130			
o-Xylene	4.69	0.0250	5.00	ND	93.7	70-130			
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	70-130			
Total Xylenes	14.3	0.0250	15.0	ND	95.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.8	70-130			

## Matrix Spike Dup (2521036-MSD1)

Source: E505206-06

Prepared: 05/20/25 Analyzed: 05/21/25

Benzene	4.73	0.0250	5.00	ND	94.6	70-130	1.07	27	
Ethylbenzene	4.72	0.0250	5.00	ND	94.4	70-130	0.624	26	
Toluene	4.70	0.0250	5.00	ND	94.1	70-130	0.951	20	
o-Xylene	4.65	0.0250	5.00	ND	93.0	70-130	0.754	25	
p,m-Xylene	9.56	0.0500	10.0	ND	95.6	70-130	0.543	23	
Total Xylenes	14.2	0.0250	15.0	ND	94.7	70-130	0.612	26	
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 11:48:35AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2521036-BLK1) Prepared: 05/20/25 Analyzed: 05/21/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		8.00		107	70-130			

LCS (2521036-BS2) Prepared: 05/20/25 Analyzed: 05/21/25

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0		110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.79		8.00		110	70-130			

Matrix Spike (2521036-MS2) Source: E505206-06 Prepared: 05/20/25 Analyzed: 05/21/25

Gasoline Range Organics (C6-C10)	52.4	20.0	50.0	ND	105	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.88		8.00		111	70-130			

Matrix Spike Dup (2521036-MSD2) Source: E505206-06 Prepared: 05/20/25 Analyzed: 05/21/25

Gasoline Range Organics (C6-C10)	54.2	20.0	50.0	ND	108	70-130	3.41	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.86		8.00		111	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 11:48:35AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

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 (2521056-BLK1)					Prepared: 05/20/25 Analyzed: 05/21/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.0		50.0		116	61-141			

LCS (2521056-BS1)					Prepared: 05/20/25 Analyzed: 05/21/25				
Diesel Range Organics (C10-C28)	282	25.0	250		113	66-144			
Surrogate: n-Nonane	56.2		50.0		112	61-141			

Matrix Spike (2521056-MS1)					Source: E505206-07		Prepared: 05/20/25 Analyzed: 05/23/25		
Diesel Range Organics (C10-C28)	1020	25.0	250	888	51.8	56-156			M4
Surrogate: n-Nonane	70.5		50.0		141	61-141			

Matrix Spike Dup (2521056-MSD1)					Source: E505206-07		Prepared: 05/20/25 Analyzed: 05/21/25		
Diesel Range Organics (C10-C28)	1090	25.0	250	888	82.0	56-156	7.16	20	
Surrogate: n-Nonane	66.9		50.0		134	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 11:48:35AM

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 (2521055-BLK1)					Prepared: 05/20/25 Analyzed: 05/20/25				
Chloride	ND	20.0							
LCS (2521055-BS1)					Prepared: 05/20/25 Analyzed: 05/20/25				
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2521055-MS1)					Source: E505213-02		Prepared: 05/20/25 Analyzed: 05/20/25		
Chloride	1100	20.0	250	826	110	80-120			
Matrix Spike Dup (2521055-MSD1)					Source: E505213-02		Prepared: 05/20/25 Analyzed: 05/20/25		
Chloride	1120	20.0	250	826	119	80-120	1.83	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/23/25 11:48

- 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

E505213 CMI

[illegible]

## Envirotech Analytical Laboratory

Printed: 5/19/2025 10:54:12AM

## 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:	05/19/25 07:30	Work Order ID:	E505213
Phone:	(575) 748-0176	Date Logged In:	05/19/25 09:25	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	05/23/25 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

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

Carrier: CourierComments/ResolutionSample 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: E505196

Job Number: 01058-0007

Received: 5/19/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/23/25

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: 5/23/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505196  
Date Received: 5/19/2025 7:30:17AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/19/2025 7:30:17AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/23/25 08:41

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH15 2'	E505196-01A	Soil	05/09/25	05/19/25	Glass Jar, 2 oz.
BH15 3'	E505196-02A	Soil	05/09/25	05/19/25	Glass Jar, 2 oz.
BH15 4'	E505196-03A	Soil	05/09/25	05/19/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/23/2025 8:41:34AM

BH15 2'

E505196-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		102 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521026	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		99.7 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2521017	
Chloride	320	20.0	1	05/19/25	05/20/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/23/2025 8:41:34AM

## BH15 3'

## E505196-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.9 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521026	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		103 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2521017	
Chloride	1310	20.0	1	05/19/25	05/20/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/23/2025 8:41:34AM

## BH15 4'

## E505196-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2521026	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2521017	
Chloride	3700	40.0	2	05/19/25	05/19/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 8:41:34AM

## Volatile Organics by EPA 8021B

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 (2521004-BLK1)

Prepared: 05/19/25 Analyzed: 05/19/25

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	7.87		8.00		98.3	70-130			

## LCS (2521004-BS1)

Prepared: 05/19/25 Analyzed: 05/19/25

Benzene	4.05	0.0250	5.00		81.0	70-130			
Ethylbenzene	4.13	0.0250	5.00		82.5	70-130			
Toluene	4.09	0.0250	5.00		81.8	70-130			
o-Xylene	4.11	0.0250	5.00		82.3	70-130			
p,m-Xylene	8.39	0.0500	10.0		83.9	70-130			
Total Xylenes	12.5	0.0250	15.0		83.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.1	70-130			

## Matrix Spike (2521004-MS1)

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	4.29	0.0250	5.00	ND	85.7	70-130			
Ethylbenzene	4.36	0.0250	5.00	ND	87.1	70-130			
Toluene	4.33	0.0250	5.00	ND	86.6	70-130			
o-Xylene	4.33	0.0250	5.00	ND	86.7	70-130			
p,m-Xylene	8.85	0.0500	10.0	ND	88.5	70-130			
Total Xylenes	13.2	0.0250	15.0	ND	87.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			

## Matrix Spike Dup (2521004-MSD1)

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	4.41	0.0250	5.00	ND	88.2	70-130	2.93	27	
Ethylbenzene	4.52	0.0250	5.00	ND	90.5	70-130	3.79	26	
Toluene	4.47	0.0250	5.00	ND	89.5	70-130	3.26	20	
o-Xylene	4.51	0.0250	5.00	ND	90.2	70-130	3.95	25	
p,m-Xylene	9.19	0.0500	10.0	ND	91.9	70-130	3.78	23	
Total Xylenes	13.7	0.0250	15.0	ND	91.3	70-130	3.84	26	
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 8:41:34AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2521004-BLK1) Prepared: 05/19/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		8.00		102	70-130			

LCS (2521004-BS2) Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		107	70-130			

Matrix Spike (2521004-MS2) Source: E505194-02 Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.67		8.00		108	70-130			

Matrix Spike Dup (2521004-MSD2) Source: E505194-02 Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130	4.44	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 8:41:34AM

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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<b>Blank (2521026-BLK1)</b>					Prepared: 05/19/25 Analyzed: 05/19/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.8		50.0		104	61-141			

<b>LCS (2521026-BS1)</b>					Prepared: 05/19/25 Analyzed: 05/19/25				
Diesel Range Organics (C10-C28)	260	25.0	250		104	66-144			
Surrogate: n-Nonane	47.8		50.0		95.6	61-141			

<b>Matrix Spike (2521026-MS1)</b>					<b>Source: E505185-02</b>		Prepared: 05/19/25 Analyzed: 05/19/25		
Diesel Range Organics (C10-C28)	809	25.0	250	582	91.0	56-156			
Surrogate: n-Nonane	52.8		50.0		106	61-141			

<b>Matrix Spike Dup (2521026-MSD1)</b>					<b>Source: E505185-02</b>		Prepared: 05/19/25 Analyzed: 05/19/25		
Diesel Range Organics (C10-C28)	903	25.0	250	582	129	56-156	11.0	20	
Surrogate: n-Nonane	55.2		50.0		110	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 8:41:34AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2521017-BLK1)					Prepared: 05/19/25 Analyzed: 05/19/25				
Chloride	ND	20.0							
LCS (2521017-BS1)					Prepared: 05/19/25 Analyzed: 05/19/25				
Chloride	264	20.0	250		106	90-110			
Matrix Spike (2521017-MS1)					Source: E505196-03		Prepared: 05/19/25 Analyzed: 05/19/25		
Chloride	3860	40.0	250	3700	67.3	80-120			M4
Matrix Spike Dup (2521017-MSD1)					Source: E505196-03		Prepared: 05/19/25 Analyzed: 05/19/25		
Chloride	3640	40.0	250	3700	NR	80-120	5.97	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	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/23/25 08:41

- 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

[illegible]

## Envirotech Analytical Laboratory

Printed: 5/19/2025 10:13:55AM

## 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:	05/19/25 07:30	Work Order ID:	E505196
Phone:	(575) 748-0176	Date Logged In:	05/16/25 16:02	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	05/23/25 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

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

Carrier: CourierComments/ResolutionSample 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: E505194

Job Number: 01058-0007

Received: 5/19/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/23/25

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: 5/23/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505194  
Date Received: 5/19/2025 7:30:17AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/19/2025 7:30:17AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/23/25 07:33

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH16 2'	E505194-01A	Soil	05/09/25	05/19/25	Glass Jar, 2 oz.
BH16 3'	E505194-02A	Soil	05/09/25	05/19/25	Glass Jar, 2 oz.
BH16 4'	E505194-03A	Soil	05/09/25	05/19/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	<b>Reported:</b> 5/23/2025 7:33:34AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	

**BH16 2'**

**E505194-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.7 %	70-130		05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2521026	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/19/25	
<i>Surrogate: n-Nonane</i>						
	100 %	61-141		05/19/25	05/19/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: DT		Batch: 2521011	
Chloride	286	20.0	1	05/19/25	05/20/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/23/2025 7:33:34AM

## BH16 3'

## E505194-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Benzene	ND	0.0250	1	05/19/25	05/19/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/19/25	
Toluene	ND	0.0250	1	05/19/25	05/19/25	
o-Xylene	ND	0.0250	1	05/19/25	05/19/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/19/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/19/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/19/25	05/19/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/19/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		106 %	70-130	05/19/25	05/19/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521026	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/19/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/19/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	05/19/25	05/19/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2521011	
Chloride	1520	20.0	1	05/19/25	05/20/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/23/2025 7:33:34AM

## BH16 4'

## E505194-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Benzene	ND	0.0250	1	05/19/25	05/20/25	
Ethylbenzene	ND	0.0250	1	05/19/25	05/20/25	
Toluene	ND	0.0250	1	05/19/25	05/20/25	
o-Xylene	ND	0.0250	1	05/19/25	05/20/25	
p,m-Xylene	ND	0.0500	1	05/19/25	05/20/25	
Total Xylenes	ND	0.0250	1	05/19/25	05/20/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2521004	
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/19/25	05/20/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		104 %	70-130	05/19/25	05/20/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: NV		Batch: 2521026	
Diesel Range Organics (C10-C28)	ND	25.0	1	05/19/25	05/20/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/19/25	05/20/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	05/19/25	05/20/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: DT		Batch: 2521011	
Chloride	1870	20.0	1	05/19/25	05/20/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 7:33:34AM

## Volatile Organics by EPA 8021B

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 (2521004-BLK1)

Prepared: 05/19/25 Analyzed: 05/19/25

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	7.87		8.00		98.3	70-130			

## LCS (2521004-BS1)

Prepared: 05/19/25 Analyzed: 05/19/25

Benzene	4.05	0.0250	5.00		81.0	70-130			
Ethylbenzene	4.13	0.0250	5.00		82.5	70-130			
Toluene	4.09	0.0250	5.00		81.8	70-130			
o-Xylene	4.11	0.0250	5.00		82.3	70-130			
p,m-Xylene	8.39	0.0500	10.0		83.9	70-130			
Total Xylenes	12.5	0.0250	15.0		83.3	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.76		8.00		97.1	70-130			

## Matrix Spike (2521004-MS1)

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	4.29	0.0250	5.00	ND	85.7	70-130			
Ethylbenzene	4.36	0.0250	5.00	ND	87.1	70-130			
Toluene	4.33	0.0250	5.00	ND	86.6	70-130			
o-Xylene	4.33	0.0250	5.00	ND	86.7	70-130			
p,m-Xylene	8.85	0.0500	10.0	ND	88.5	70-130			
Total Xylenes	13.2	0.0250	15.0	ND	87.9	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.87		8.00		98.3	70-130			

## Matrix Spike Dup (2521004-MSD1)

Source: E505194-02

Prepared: 05/19/25 Analyzed: 05/20/25

Benzene	4.41	0.0250	5.00	ND	88.2	70-130	2.93	27	
Ethylbenzene	4.52	0.0250	5.00	ND	90.5	70-130	3.79	26	
Toluene	4.47	0.0250	5.00	ND	89.5	70-130	3.26	20	
o-Xylene	4.51	0.0250	5.00	ND	90.2	70-130	3.95	25	
p,m-Xylene	9.19	0.0500	10.0	ND	91.9	70-130	3.78	23	
Total Xylenes	13.7	0.0250	15.0	ND	91.3	70-130	3.84	26	
Surrogate: 4-Bromochlorobenzene-PID	7.86		8.00		98.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 7:33:34AM

Nonhalogenated Organics by EPA 8015D - GRO

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 (2521004-BLK1) Prepared: 05/19/25 Analyzed: 05/19/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.20		8.00		102	70-130			

LCS (2521004-BS2) Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	53.5	20.0	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.52		8.00		107	70-130			

Matrix Spike (2521004-MS2) Source: E505194-02 Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	53.3	20.0	50.0	ND	107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.67		8.00		108	70-130			

Matrix Spike Dup (2521004-MSD2) Source: E505194-02 Prepared: 05/19/25 Analyzed: 05/20/25

Gasoline Range Organics (C6-C10)	51.0	20.0	50.0	ND	102	70-130	4.44	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.45		8.00		106	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 7:33:34AM

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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<b>Blank (2521026-BLK1)</b>					Prepared: 05/19/25 Analyzed: 05/19/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.8		50.0		104	61-141			

<b>LCS (2521026-BS1)</b>					Prepared: 05/19/25 Analyzed: 05/19/25				
Diesel Range Organics (C10-C28)	260	25.0	250		104	66-144			
Surrogate: n-Nonane	47.8		50.0		95.6	61-141			

<b>Matrix Spike (2521026-MS1)</b>					<b>Source: E505185-02</b>		Prepared: 05/19/25 Analyzed: 05/19/25		
Diesel Range Organics (C10-C28)	809	25.0	250	582	91.0	56-156			
Surrogate: n-Nonane	52.8		50.0		106	61-141			

<b>Matrix Spike Dup (2521026-MSD1)</b>					<b>Source: E505185-02</b>		Prepared: 05/19/25 Analyzed: 05/19/25		
Diesel Range Organics (C10-C28)	903	25.0	250	582	129	56-156	11.0	20	
Surrogate: n-Nonane	55.2		50.0		110	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/23/2025 7:33:34AM

Anions by EPA 300.0/9056A

Analyst: DT

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2521011-BLK1)					Prepared: 05/19/25 Analyzed: 05/19/25				
Chloride	ND	20.0							
LCS (2521011-BS1)					Prepared: 05/19/25 Analyzed: 05/19/25				
Chloride	261	20.0	250		104	90-110			
Matrix Spike (2521011-MS1)					Source: E505182-04		Prepared: 05/19/25 Analyzed: 05/19/25		
Chloride	1390	20.0	250	1120	106	80-120			
Matrix Spike Dup (2521011-MSD1)					Source: E505182-04		Prepared: 05/19/25 Analyzed: 05/19/25		
Chloride	1370	20.0	250	1120	101	80-120	0.860	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/23/25 07:33

- 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

[illegible]

## Envirotech Analytical Laboratory

Printed: 5/19/2025 10:11:50AM

## 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:	05/19/25 07:30	Work Order ID:	E505194
Phone:	(575) 748-0176	Date Logged In:	05/16/25 15:57	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	05/23/25 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

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

Carrier: CourierComments/ResolutionSample 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: E506249

Job Number: 01058-0007

Received: 6/27/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/2/25

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: 7/2/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E506249  
Date Received: 6/27/2025 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/27/2025 7:00:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 07/02/25 11:48
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH17 2'	E506249-01A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH17 3'	E506249-02A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH17 4'	E506249-03A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH18 2'	E506249-04A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH18 3'	E506249-05A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH18 4'	E506249-06A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH19 2'	E506249-07A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH19 3'	E506249-08A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH19 4'	E506249-09A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH20 2'	E506249-10A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH20 3'	E506249-11A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH20 4'	E506249-12A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:48:36AM

**BH17 2'**

**E506249-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.8 %	70-130	06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.8 %	70-130	06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2527033	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527015	
Chloride	70.3	20.0	1	06/30/25	06/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:48:36AM

BH17 3'

E506249-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.2 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	82.8 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2527033	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>	105 %	61-141		06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527015	
Chloride	93.7	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:48:36AM

BH17 4'

E506249-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526142
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
Surrogate: 4-Bromochlorobenzene-PID	93.3 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526142
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	82.7 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2527033
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
Surrogate: n-Nonane	99.4 %	61-141		06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2527015
Chloride	188	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:48:36AM

BH18 2'

E506249-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.2 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.2 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2527033	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>	101 %	61-141		06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527015	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:48:36AM

BH18 3'

E506249-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.8 %	70-130	06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		84.7 %	70-130	06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2527033	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>		104 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527015	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:48:36AM

BH18 4'

E506249-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.4 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.3 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2527033	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>	101 %	61-141		06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527015	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:48:36AM

## BH19 2'

## E506249-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.4 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	85.4 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2527033	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>	100 %	61-141		06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527015	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:48:36AM

BH19 3'

E506249-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526142
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
Surrogate: 4-Bromochlorobenzene-PID	91.7 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526142
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	87.6 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2527033
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
Surrogate: n-Nonane	105 %	61-141		06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2527015
Chloride	ND	20.0	1	06/30/25	06/30/25	





Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 7/2/2025 11:48:36AM
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BH19 4'

E506249-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
Surrogate: 4-Bromochlorobenzene-PID	98.1 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	83.7 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2527033	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
Surrogate: n-Nonane	109 %	61-141		06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527015	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:48:36AM

## BH20 2'

## E506249-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.2 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.0 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2527033	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>	102 %	61-141		06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527015	
Chloride	150	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:48:36AM

BH20 3'

E506249-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.5 %	70-130	06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		85.4 %	70-130	06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2527033	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527015	
Chloride	133	20.0	1	06/30/25	07/01/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:48:36AM

BH20 4'

E506249-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Benzene	ND	0.0250	1	06/27/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/28/25	
Toluene	ND	0.0250	1	06/27/25	06/28/25	
o-Xylene	ND	0.0250	1	06/27/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.9 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526142	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	82.1 %	70-130		06/27/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2527033	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>	106 %	61-141		06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527015	
Chloride	43.4	20.0	1	06/30/25	07/01/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 11:48:36AM

## 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 (2526142-BLK1)

Prepared: 06/27/25 Analyzed: 06/27/25

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	7.46		8.00		93.2	70-130			

## LCS (2526142-BS1)

Prepared: 06/27/25 Analyzed: 06/27/25

Benzene	5.29	0.0250	5.00		106	70-130			
Ethylbenzene	5.20	0.0250	5.00		104	70-130			
Toluene	5.25	0.0250	5.00		105	70-130			
o-Xylene	5.23	0.0250	5.00		105	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.7	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.59		8.00		94.8	70-130			

## Matrix Spike (2526142-MS1)

Source: E506249-03

Prepared: 06/27/25 Analyzed: 06/28/25

Benzene	4.98	0.0250	5.00	ND	99.6	70-130			
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	70-130			
Toluene	4.94	0.0250	5.00	ND	98.8	70-130			
o-Xylene	4.90	0.0250	5.00	ND	98.0	70-130			
p,m-Xylene	9.80	0.0500	10.0	ND	98.0	70-130			
Total Xylenes	14.7	0.0250	15.0	ND	98.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.72		8.00		96.4	70-130			

## Matrix Spike Dup (2526142-MSD1)

Source: E506249-03

Prepared: 06/27/25 Analyzed: 06/28/25

Benzene	5.01	0.0250	5.00	ND	100	70-130	0.665	27	
Ethylbenzene	4.94	0.0250	5.00	ND	98.8	70-130	1.14	26	
Toluene	4.99	0.0250	5.00	ND	99.7	70-130	0.911	20	
o-Xylene	4.96	0.0250	5.00	ND	99.2	70-130	1.25	25	
p,m-Xylene	9.92	0.0500	10.0	ND	99.2	70-130	1.29	23	
Total Xylenes	14.9	0.0250	15.0	ND	99.2	70-130	1.27	26	
Surrogate: 4-Bromochlorobenzene-PID	7.62		8.00		95.2	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 11:48:36AM

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 (2526142-BLK1) Prepared: 06/27/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.62		8.00		82.7	70-130			

LCS (2526142-BS2) Prepared: 06/27/25 Analyzed: 07/02/25

Gasoline Range Organics (C6-C10)	43.4	20.0	50.0		86.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.00		8.00		87.5	70-130			

Matrix Spike (2526142-MS2) Source: E506249-03 Prepared: 06/27/25 Analyzed: 07/02/25

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0	ND	86.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		8.00		86.8	70-130			

Matrix Spike Dup (2526142-MSD2) Source: E506249-03 Prepared: 06/27/25 Analyzed: 06/28/25

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.2	70-130	10.6	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.12		8.00		89.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 11:48:36AM

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 (2527033-BLK1)					Prepared: 06/30/25 Analyzed: 07/01/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	50.2		50.0		100	61-141			

LCS (2527033-BS1)					Prepared: 06/30/25 Analyzed: 07/01/25				
Diesel Range Organics (C10-C28)	274	25.0	250		110	66-144			
Surrogate: n-Nonane	50.5		50.0		101	61-141			

Matrix Spike (2527033-MS1)					Source: E506249-02		Prepared: 06/30/25 Analyzed: 07/01/25		
Diesel Range Organics (C10-C28)	281	25.0	250	ND	112	56-156			
Surrogate: n-Nonane	52.3		50.0		105	61-141			

Matrix Spike Dup (2527033-MSD1)					Source: E506249-02		Prepared: 06/30/25 Analyzed: 07/01/25		
Diesel Range Organics (C10-C28)	280	25.0	250	ND	112	56-156	0.422	20	
Surrogate: n-Nonane	51.9		50.0		104	61-141			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 11:48:36AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2527015-BLK1)					Prepared: 06/30/25 Analyzed: 06/30/25				
Chloride	ND	20.0							
LCS (2527015-BS1)					Prepared: 06/30/25 Analyzed: 06/30/25				
Chloride	258	20.0	250		103	90-110			
Matrix Spike (2527015-MS1)					Source: E506249-05		Prepared: 06/30/25 Analyzed: 06/30/25		
Chloride	258	20.0	250	ND	103	80-120			
Matrix Spike Dup (2527015-MSD1)					Source: E506249-05		Prepared: 06/30/25 Analyzed: 06/30/25		
Chloride	258	20.0	250	ND	103	80-120	0.0194	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	07/02/25 11:48

- 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.



Client Information				Invoice Information		Lab Use Only		TAT				State							
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.		Lab WO#		1D 2D 3D Std				NM CO UT TX							
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.		E561249		Job Number				01058007							
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@devn.com															
Phone: 432-305-6415				Miscellaneous: WO: 1007085301; PN: 19304;															
Email: NMTXGeoGroup@etechnv.com				IN: nRM2016146439															
Sample Information						Analysis and Method								EPA Program					
Time Sampled	Date Sampled	Matrix	Rel. Mt. Container	Sample ID	Depth	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride by 8090	TC by 1000	ICRA 8 Metals	ICRA 4 Metals	ICRA 6 Metals	SDWA	CWA	RCRA	
12:30	6/24/2025	S	1	BH17	2'	1													
12:35	6/24/2025	S	1	BH17	3'	2													
12:40	6/24/2025	S	1	BH17	4'	3													
12:55	6/24/2025	S	1	BH18	2'	4													
13:00	6/24/2025	S	1	BH18	3'	5													
13:05	6/24/2025	S	1	BH18	4'	6													
13:25	6/24/2025	S	1	BH19	2'	7													
13:30	6/24/2025	S	1	BH19	3'	8													
13:35	6/24/2025	S	1	BH19	4'	9													
13:45	6/24/2025	S	1	BH20	2'	10													
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: Christopher Inman																			
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: Q/N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
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.																			



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.		EE0249	01058-0007				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@etechnv.com				IN: nBM2016146439														
Sample Information						Analysis and Method								EPA Program				
Time Sampled	Date Sampled	Matrix	Type of Container	Sample ID	Depth	Lab Number	DRG/ORG by 8015	URG/ORG by 8015	BTEX by 8022	VOC by 8060	Chloride by 8020	Fluoride by 8020	PCB by 8020	PCB & Metals	SWA	CWA	RCRA	
13:50	6/24/2025	S	1	BH20	3'	11												
13:55	6/24/2025	S	1	BH20	4'	12												
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: Christopher Inman																		
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="radio"/> Y <input type="radio"/> N												
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time													
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time													
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: 6/27/2025 12:37:12PM

## 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:	06/27/25 07:00	Work Order ID:	E506249
Phone:	(575) 748-0176	Date Logged In:	06/26/25 13:57	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	07/02/25 17:00 (3 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

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

Carrier: CourierComments/ResolutionSample 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: E505138

Job Number: 01058-0007

Received: 5/13/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
5/19/25

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: 5/19/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E505138  
Date Received: 5/13/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 5/13/2025 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/19/25 14:05

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH21 0.5'	E505138-01A	Soil	05/08/25	05/13/25	Glass Jar, 2 oz.
BH21 1'	E505138-02A	Soil	05/08/25	05/13/25	Glass Jar, 2 oz.
BH21 2'	E505138-03A	Soil	05/08/25	05/13/25	Glass Jar, 2 oz.
BH21 3'	E505138-04A	Soil	05/08/25	05/13/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/19/2025 2:05:22PM

BH21 0.5'

E505138-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520038
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
Surrogate: Bromofluorobenzene		93.6 %	70-130	05/13/25	05/15/25	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	05/13/25	05/15/25	
Surrogate: Toluene-d8		105 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
Surrogate: Bromofluorobenzene		93.6 %	70-130	05/13/25	05/15/25	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	05/13/25	05/15/25	
Surrogate: Toluene-d8		105 %	70-130	05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520033
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/16/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/16/25	
Surrogate: n-Nonane		97.9 %	61-141	05/13/25	05/16/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520086
Chloride	ND	20.0	1	05/14/25	05/15/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/19/2025 2:05:22PM

## BH21 1'

## E505138-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520038
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
Surrogate: Bromofluorobenzene	92.3 %	70-130		05/13/25	05/15/25	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/13/25	05/15/25	
Surrogate: Toluene-d8	99.6 %	70-130		05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
Surrogate: Bromofluorobenzene	92.3 %	70-130		05/13/25	05/15/25	
Surrogate: 1,2-Dichloroethane-d4	103 %	70-130		05/13/25	05/15/25	
Surrogate: Toluene-d8	99.6 %	70-130		05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520033
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
Surrogate: n-Nonane	113 %	61-141		05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520086
Chloride	ND	20.0	1	05/14/25	05/15/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/19/2025 2:05:22PM

## BH21 2'

## E505138-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520038
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
Surrogate: Bromofluorobenzene	91.7 %	70-130		05/13/25	05/15/25	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		05/13/25	05/15/25	
Surrogate: Toluene-d8	99.4 %	70-130		05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
Surrogate: Bromofluorobenzene	91.7 %	70-130		05/13/25	05/15/25	
Surrogate: 1,2-Dichloroethane-d4	107 %	70-130		05/13/25	05/15/25	
Surrogate: Toluene-d8	99.4 %	70-130		05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520033
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
Surrogate: n-Nonane	117 %	61-141		05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520086
Chloride	270	20.0	1	05/14/25	05/15/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
5/19/2025 2:05:22PM

## BH21 3'

## E505138-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organic Compounds by EPA 8260B</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520038
Benzene	ND	0.0250	1	05/13/25	05/15/25	
Ethylbenzene	ND	0.0250	1	05/13/25	05/15/25	
Toluene	ND	0.0250	1	05/13/25	05/15/25	
o-Xylene	ND	0.0250	1	05/13/25	05/15/25	
p,m-Xylene	ND	0.0500	1	05/13/25	05/15/25	
Total Xylenes	ND	0.0250	1	05/13/25	05/15/25	
Surrogate: Bromofluorobenzene	91.8 %	70-130		05/13/25	05/15/25	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		05/13/25	05/15/25	
Surrogate: Toluene-d8	99.2 %	70-130		05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: RKS		Batch: 2520038
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/13/25	05/15/25	
Surrogate: Bromofluorobenzene	91.8 %	70-130		05/13/25	05/15/25	
Surrogate: 1,2-Dichloroethane-d4	110 %	70-130		05/13/25	05/15/25	
Surrogate: Toluene-d8	99.2 %	70-130		05/13/25	05/15/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: HM		Batch: 2520033
Diesel Range Organics (C10-C28)	ND	25.0	1	05/13/25	05/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	05/13/25	05/15/25	
Surrogate: n-Nonane	122 %	61-141		05/13/25	05/15/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2520086
Chloride	303	20.0	1	05/14/25	05/15/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/19/2025 2:05:22PM

## Volatile Organic Compounds by EPA 8260B

Analyst: RKS

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 (2520038-BLK1)

Prepared: 05/13/25 Analyzed: 05/14/25

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: Bromofluorobenzene	0.452		0.500		90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			

## LCS (2520038-BS1)

Prepared: 05/13/25 Analyzed: 05/14/25

Benzene	2.42	0.0250	2.50		96.9	70-130			
Ethylbenzene	2.46	0.0250	2.50		98.3	70-130			
Toluene	2.33	0.0250	2.50		93.0	70-130			
o-Xylene	2.38	0.0250	2.50		95.3	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.3	70-130			
Total Xylenes	7.15	0.0250	7.50		95.3	70-130			
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.513		0.500		103	70-130			
Surrogate: Toluene-d8	0.478		0.500		95.6	70-130			

## Matrix Spike (2520038-MS1)

Source: E505139-01

Prepared: 05/13/25 Analyzed: 05/15/25

Benzene	2.36	0.0250	2.50	ND	94.2	48-131			
Ethylbenzene	2.46	0.0250	2.50	ND	98.2	45-135			
Toluene	2.34	0.0250	2.50	ND	93.8	48-130			
o-Xylene	2.42	0.0250	2.50	ND	96.8	43-135			
p,m-Xylene	4.87	0.0500	5.00	ND	97.3	43-135			
Total Xylenes	7.29	0.0250	7.50	ND	97.1	43-135			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		0.500		99.4	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.1	70-130			

## Matrix Spike Dup (2520038-MSD1)

Source: E505139-01

Prepared: 05/13/25 Analyzed: 05/15/25

Benzene	2.31	0.0250	2.50	ND	92.3	48-131	2.08	23	
Ethylbenzene	2.53	0.0250	2.50	ND	101	45-135	2.93	27	
Toluene	2.41	0.0250	2.50	ND	96.4	48-130	2.71	24	
o-Xylene	2.41	0.0250	2.50	ND	96.3	43-135	0.538	27	
p,m-Xylene	4.75	0.0500	5.00	ND	95.0	43-135	2.38	27	
Total Xylenes	7.16	0.0250	7.50	ND	95.4	43-135	1.77	27	
Surrogate: Bromofluorobenzene	0.519		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.516		0.500		103	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/19/2025 2:05:22PM

## Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

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 (2520038-BLK1)

Prepared: 05/13/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.452		0.500		90.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.515		0.500		103	70-130			
Surrogate: Toluene-d8	0.488		0.500		97.5	70-130			

## LCS (2520038-BS2)

Prepared: 05/13/25 Analyzed: 05/14/25

Gasoline Range Organics (C6-C10)	46.7	20.0	50.0		93.3	70-130			
Surrogate: Bromofluorobenzene	0.495		0.500		99.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.5	70-130			
Surrogate: Toluene-d8	0.490		0.500		97.9	70-130			

## Matrix Spike (2520038-MS2)

Source: E505139-01

Prepared: 05/13/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	52.3	20.0	50.0	ND	105	70-130			
Surrogate: Bromofluorobenzene	0.470		0.500		94.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		0.500		100	70-130			
Surrogate: Toluene-d8	0.505		0.500		101	70-130			

## Matrix Spike Dup (2520038-MSD2)

Source: E505139-01

Prepared: 05/13/25 Analyzed: 05/15/25

Gasoline Range Organics (C6-C10)	54.6	20.0	50.0	ND	109	70-130	4.31	20	
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.1	70-130			
Surrogate: Toluene-d8	0.514		0.500		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/19/2025 2:05:22PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: HM

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
---------	-----------------	-----------------------------	-------------------------	---------------------------	----------	--------------------	----------	-------------------	-------

Blank (2520033-BLK1)					Prepared: 05/13/25 Analyzed: 05/15/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.4		50.0		113	61-141			

LCS (2520033-BS1)					Prepared: 05/13/25 Analyzed: 05/15/25				
Diesel Range Organics (C10-C28)	300	25.0	250		120	66-144			
Surrogate: n-Nonane	56.6		50.0		113	61-141			

Matrix Spike (2520033-MS1)					Source: E505135-01		Prepared: 05/13/25 Analyzed: 05/15/25		
Diesel Range Organics (C10-C28)	309	25.0	250	ND	124	56-156			
Surrogate: n-Nonane	57.5		50.0		115	61-141			

Matrix Spike Dup (2520033-MSD1)					Source: E505135-01		Prepared: 05/13/25 Analyzed: 05/15/25		
Diesel Range Organics (C10-C28)	315	25.0	250	ND	126	56-156	1.79	20	
Surrogate: n-Nonane	48.5		50.0		97.1	61-141			



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/19/2025 2:05:22PM

## Anions by EPA 300.0/9056A

Analyst: RAS

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 (2520086-BLK1)

Prepared: 05/14/25 Analyzed: 05/15/25

Chloride ND 20.0

## LCS (2520086-BS1)

Prepared: 05/14/25 Analyzed: 05/15/25

Chloride 253 20.0 250 101 90-110

## Matrix Spike (2520086-MS1)

Source: E505134-05

Prepared: 05/14/25 Analyzed: 05/15/25

Chloride 295 20.0 250 41.9 101 80-120

## Matrix Spike Dup (2520086-MSD1)

Source: E505134-05

Prepared: 05/14/25 Analyzed: 05/15/25

Chloride 289 20.0 250 41.9 98.8 80-120 2.00 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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/19/25 14:05

- 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.



Client Information				Invoice Information				Lab Use Only				TAT				State																																																																																																																																																																																																																															
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.				Lab WDA#				Job Number				1D 2D 3D Std																																																																																																																																																																																																																															
Project: TOMCAT 21 FEDERAL 0001				Address: 5315 Buena Vista Dr.				E505138				010578-0007				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@dev.com																																																																																																																																																																																																																																											
Phone: 432-305-6415				Miscellaneous: WO: 1007085301; PN: 19304																																																																																																																																																																																																																																											
Email: NMTXGeoGroup@petechenv.com				IN: nRM2016146439																																																																																																																																																																																																																																											
Sample Information						Analysis and Method										EPA Program																																																																																																																																																																																																																															
Time	Date	Matrix	Depth	Lab Number	Sample ID	GC/MS by 812	GC/MS by 813	GC/MS by 814	GC/MS by 815	GC/MS by 816	GC/MS by 817	GC/MS by 818	GC/MS by 819	GC/MS by 820	GC/MS by 821	GC/MS by 822	GC/MS by 823	GC/MS by 824	GC/MS by 825	GC/MS by 826	GC/MS by 827	GC/MS by 828	GC/MS by 829	GC/MS by 830	GC/MS by 831	GC/MS by 832	GC/MS by 833	GC/MS by 834	GC/MS by 835	GC/MS by 836	GC/MS by 837	GC/MS by 838	GC/MS by 839	GC/MS by 840	GC/MS by 841	GC/MS by 842	GC/MS by 843	GC/MS by 844	GC/MS by 845	GC/MS by 846	GC/MS by 847	GC/MS by 848	GC/MS by 849	GC/MS by 850	GC/MS by 851	GC/MS by 852	GC/MS by 853	GC/MS by 854	GC/MS by 855	GC/MS by 856	GC/MS by 857	GC/MS by 858	GC/MS by 859	GC/MS by 860	GC/MS by 861	GC/MS by 862	GC/MS by 863	GC/MS by 864	GC/MS by 865	GC/MS by 866	GC/MS by 867	GC/MS by 868	GC/MS by 869	GC/MS by 870	GC/MS by 871	GC/MS by 872	GC/MS by 873	GC/MS by 874	GC/MS by 875	GC/MS by 876	GC/MS by 877	GC/MS by 878	GC/MS by 879	GC/MS by 880	GC/MS by 881	GC/MS by 882	GC/MS by 883	GC/MS by 884	GC/MS by 885	GC/MS by 886	GC/MS by 887	GC/MS by 888	GC/MS by 889	GC/MS by 890	GC/MS by 891	GC/MS by 892	GC/MS by 893	GC/MS by 894	GC/MS by 895	GC/MS by 896	GC/MS by 897	GC/MS by 898	GC/MS by 899	GC/MS by 900	GC/MS by 901	GC/MS by 902	GC/MS by 903	GC/MS by 904	GC/MS by 905	GC/MS by 906	GC/MS by 907	GC/MS by 908	GC/MS by 909	GC/MS by 910	GC/MS by 911	GC/MS by 912	GC/MS by 913	GC/MS by 914	GC/MS by 915	GC/MS by 916	GC/MS by 917	GC/MS by 918	GC/MS by 919	GC/MS by 920	GC/MS by 921	GC/MS by 922	GC/MS by 923	GC/MS by 924	GC/MS by 925	GC/MS by 926	GC/MS by 927	GC/MS by 928	GC/MS by 929	GC/MS by 930	GC/MS by 931	GC/MS by 932	GC/MS by 933	GC/MS by 934	GC/MS by 935	GC/MS by 936	GC/MS by 937	GC/MS by 938	GC/MS by 939	GC/MS by 940	GC/MS by 941	GC/MS by 942	GC/MS by 943	GC/MS by 944	GC/MS by 945	GC/MS by 946	GC/MS by 947	GC/MS by 948	GC/MS by 949	GC/MS by 950	GC/MS by 951	GC/MS by 952	GC/MS by 953	GC/MS by 954	GC/MS by 955	GC/MS by 956	GC/MS by 957	GC/MS by 958	GC/MS by 959	GC/MS by 960	GC/MS by 961	GC/MS by 962	GC/MS by 963	GC/MS by 964	GC/MS by 965	GC/MS by 966	GC/MS by 967	GC/MS by 968	GC/MS by 969	GC/MS by 970	GC/MS by 971	GC/MS by 972	GC/MS by 973	GC/MS by 974	GC/MS by 975	GC/MS by 976	GC/MS by 977	GC/MS by 978	GC/MS by 979	GC/MS by 980	GC/MS by 981	GC/MS by 982	GC/MS by 983	GC/MS by 984	GC/MS by 985	GC/MS by 986	GC/MS by 987	GC/MS by 988	GC/MS by 989	GC/MS by 990	GC/MS by 991	GC/MS by 992	GC/MS by 993	GC/MS by 994	GC/MS by 995	GC/MS by 996	GC/MS by 997	GC/MS by 998	GC/MS by 999	GC/MS by 1000	GC/MS by 1001	GC/MS by 1002	GC/MS by 1003	GC/MS by 1004	GC/MS by 1005	GC/MS by 1006	GC/MS by 1007	GC/MS by 1008	GC/MS by 1009	GC/MS by 1010	GC/MS by 1011	GC/MS by 1012	GC/MS by 1013	GC/MS by 1014	GC/MS by 1015	GC/MS by 1016	GC/MS by 1017	GC/MS by 1018	GC/MS by 1019	GC/MS by 1020	GC/MS by 1021	GC/MS by 1022	GC/MS by 1023	GC/MS by 1024	GC/MS by 1025	GC/MS by 1026	GC/MS by 1027	GC/MS by 1028	GC/MS by 1029	GC/MS by 1030	GC/MS by 1031	GC/MS by 1032	GC/MS by 1033	GC/MS by 1034	GC/MS by 1035	GC/MS by 1036	GC/MS by 1037	GC/MS by 1038	GC/MS by 1039	GC/MS by 1040	GC/MS by 1041	GC/MS by 1042	GC/MS by 1043	GC/MS by 1044	GC/MS by 1045

## Envirotech Analytical Laboratory

Printed: 5/13/2025 9:24:39AM

## 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:	05/13/25 08:00	Work Order ID:	E505138
Phone:	(575) 748-0176	Date Logged In:	05/12/25 16:04	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	05/19/25 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

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

Carrier: CourierComments/ResolutionSample 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: E506230

Job Number: 01058-0007

Received: 6/25/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/1/25

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: 7/1/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E506230  
Date Received: 6/25/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/25/2025 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 07/01/25 15:31
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH22 0.5'	E506230-01A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH22 3'	E506230-02A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH22 4'	E506230-03A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH23 0.5'	E506230-04A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH23 3'	E506230-05A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH23 4'	E506230-06A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH24 0.5'	E506230-07A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH24 3'	E506230-08A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH25 0.5'	E506230-09A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH25 3'	E506230-10A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH25 4'	E506230-11A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH26 0.5'	E506230-12A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH26 3'	E506230-13A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH26 4'	E506230-14A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH28 0.5'	E506230-15A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH28 3'	E506230-16A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH28 4'	E506230-17A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH30 0.5'	E506230-18A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH30 3'	E506230-19A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH30 4'	E506230-20A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

BH22 0.5'

E506230-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		96.6 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.7 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/27/25	
<i>Surrogate: n-Nonane</i>						
		116 %	61-141	06/26/25	06/27/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

## BH22 3'

## E506230-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.6 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	86.3 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/27/25	
<i>Surrogate: n-Nonane</i>						
	117 %	61-141		06/26/25	06/27/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	1530	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

## BH22 4'

## E506230-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.3 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	88.9 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/27/25	
<i>Surrogate: n-Nonane</i>	125 %	61-141		06/26/25	06/27/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	2920	40.0	2	06/30/25	06/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

BH23 0.5'

E506230-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.2 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.1 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/27/25	
<i>Surrogate: n-Nonane</i>						
	129 %	61-141		06/26/25	06/27/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

BH23 3'

E506230-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.2 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.5 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>	124 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	121	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

## BH23 4'

## E506230-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.3 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.7 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>	130 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	614	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

BH24 0.5'

E506230-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.4 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.2 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526122
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>						
	121 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2527012
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

BH24 3'

E506230-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.1 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	82.9 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526122
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>						
	131 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2527012
Chloride	2680	40.0	2	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

BH25 0.5'

E506230-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	84.6 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>						
	116 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

## BH25 3'

## E506230-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.0 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	88.8 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526122
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>						
	135 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2527012
Chloride	3080	40.0	2	06/30/25	06/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

## BH25 4'

## E506230-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	93.7 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	83.0 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>	122 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	4690	40.0	2	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

BH26 0.5'

E506230-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
Surrogate: 4-Bromochlorobenzene-PID	95.9 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.0 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526122
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
Surrogate: n-Nonane	121 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2527012
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

## BH26 3'

## E506230-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.2 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.5 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>	118 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	378	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

## BH26 4'

## E506230-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	92.2 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.5 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>	122 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	1860	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

BH28 0.5'

E506230-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
Surrogate: 4-Bromochlorobenzene-PID	99.2 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	86.7 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526122
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
Surrogate: n-Nonane	113 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2527012
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

BH28 3'

E506230-16

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	94.9 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.9 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526122
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>						
	116 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2527012
Chloride	66.6	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

BH28 4'

E506230-17

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	97.0 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	86.1 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>	122 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	1140	20.0	1	06/30/25	06/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

BH30 0.5'

E506230-18

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
Surrogate: 4-Bromochlorobenzene-PID	96.1 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	85.1 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526122
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
Surrogate: n-Nonane	116 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2527012
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

## BH30 3'

## E506230-19

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		97.0 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526078
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		84.1 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526122
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2527012
Chloride	839	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 3:31:01PM

## BH30 4'

## E506230-20

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.3 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526078	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	87.7 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2526122	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/28/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/28/25	
<i>Surrogate: n-Nonane</i>						
	118 %	61-141		06/26/25	06/28/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: IY		Batch: 2527012	
Chloride	2790	40.0	2	06/30/25	06/30/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/1/2025 3:31:01PM

## 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 (2526078-BLK1)

Prepared: 06/24/25 Analyzed: 06/27/25

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	7.61		8.00		95.1	70-130			

## LCS (2526078-BS1)

Prepared: 06/24/25 Analyzed: 06/27/25

Benzene	5.63	0.0250	5.00		113	70-130			
Ethylbenzene	5.54	0.0250	5.00		111	70-130			
Toluene	5.59	0.0250	5.00		112	70-130			
o-Xylene	5.57	0.0250	5.00		111	70-130			
p,m-Xylene	11.1	0.0500	10.0		111	70-130			
Total Xylenes	16.7	0.0250	15.0		111	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.79		8.00		97.4	70-130			

## Matrix Spike (2526078-MS1)

Source: E506230-03

Prepared: 06/24/25 Analyzed: 06/27/25

Benzene	4.99	0.0250	5.00	ND	99.9	70-130			
Ethylbenzene	4.91	0.0250	5.00	ND	98.2	70-130			
Toluene	4.96	0.0250	5.00	ND	99.2	70-130			
o-Xylene	4.94	0.0250	5.00	ND	98.9	70-130			
p,m-Xylene	9.87	0.0500	10.0	ND	98.7	70-130			
Total Xylenes	14.8	0.0250	15.0	ND	98.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			

## Matrix Spike Dup (2526078-MSD1)

Source: E506230-03

Prepared: 06/24/25 Analyzed: 06/27/25

Benzene	5.08	0.0250	5.00	ND	102	70-130	1.79	27	
Ethylbenzene	5.02	0.0250	5.00	ND	100	70-130	2.19	26	
Toluene	5.06	0.0250	5.00	ND	101	70-130	2.05	20	
o-Xylene	5.06	0.0250	5.00	ND	101	70-130	2.40	25	
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130	2.33	23	
Total Xylenes	15.2	0.0250	15.0	ND	101	70-130	2.35	26	
Surrogate: 4-Bromochlorobenzene-PID	7.71		8.00		96.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/1/2025 3:31:01PM

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 (2526078-BLK1) Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.99		8.00		87.3	70-130			

LCS (2526078-BS2) Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		8.00		87.2	70-130			

Matrix Spike (2526078-MS2) Source: E506230-03 Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		8.00		88.0	70-130			

Matrix Spike Dup (2526078-MSD2) Source: E506230-03 Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	48.6	20.0	50.0	ND	97.3	70-130	0.155	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.88		8.00		86.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/1/2025 3:31:01PM

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 (2526122-BLK1)					Prepared: 06/26/25 Analyzed: 06/27/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	58.2		50.0		116	61-141			

LCS (2526122-BS1)					Prepared: 06/26/25 Analyzed: 06/27/25				
Diesel Range Organics (C10-C28)	336	25.0	250		135	66-144			
Surrogate: n-Nonane	62.3		50.0		125	61-141			

Matrix Spike (2526122-MS1)					Source: E506230-14		Prepared: 06/26/25 Analyzed: 06/27/25		
Diesel Range Organics (C10-C28)	341	25.0	250	ND	136	56-156			
Surrogate: n-Nonane	63.9		50.0		128	61-141			

Matrix Spike Dup (2526122-MSD1)					Source: E506230-14		Prepared: 06/26/25 Analyzed: 06/27/25		
Diesel Range Organics (C10-C28)	342	25.0	250	ND	137	56-156	0.532	20	
Surrogate: n-Nonane	65.1		50.0		130	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/1/2025 3:31:01PM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2527012-BLK1)					Prepared: 06/30/25 Analyzed: 06/30/25				
Chloride	ND	20.0							
LCS (2527012-BS1)					Prepared: 06/30/25 Analyzed: 06/30/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2527012-MS1)					Source: E506230-07		Prepared: 06/30/25 Analyzed: 06/30/25		
Chloride	253	20.0	250	ND	101	80-120			
Matrix Spike Dup (2527012-MSD1)					Source: E506230-07		Prepared: 06/30/25 Analyzed: 06/30/25		
Chloride	253	20.0	250	ND	101	80-120	0.0424	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	07/01/25 15:31

- 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.



Client Information				Invoice Information		Lab Use Only		TAT				State			
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.		Lab WQH	Job Number	1D	2D	3D	Std	NM	CO	UT	TX
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.		E506230	01058-0001				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.riley@devn.com											
Phone: 432-305-6415				Miscellaneous: WO: 1007085301; PN: 19304											
Email: NMTXGeoGroup@etechnv.com				IN: 08M2016146439											
Sample Information						Analysis and Method						EPA Program			
Time Sampled	Date Sampled	Matrix	Well (Location)	Sample ID	Depth	Lab Number	100% by Devcon	100% by Devcon	100% by Devcon	100% by Devcon	100% by Devcon	100% by Devcon	100% by Devcon	100% by Devcon	100% by Devcon
10:03	6/23/2025	S	1	BH22	0.5'	1								X	
10:06	6/23/2025	S	1	BH22	3'	2								X	
10:09	6/23/2025	S	1	BH22	4'	3								X	
10:12	6/23/2025	S	1	BH23	0.5'	4								X	
10:15	6/23/2025	S	1	BH23	3'	5								X	
10:18	6/23/2025	S	1	BH23	4'	6								X	
10:21	6/23/2025	S	1	BH24	0.5'	7								X	
10:24	6/23/2025	S	1	BH24	3'	8								X	
10:27	6/23/2025	S	1	BH25	0.5'	9								X	
10:30	6/23/2025	S	1	BH25	3'	10								X	
Additional Instructions:															
1. (Field sample), stored to the vicinity and authenticity of the sample. 1.4m waste well becoming with or monitoring monitoring (the sample location, date or time of collection is considered final and may be grounds for legal action).															
Sampled by: Christopher Imman															
Retrieved 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			
Retrieved by: (Signature)		Date		Time		Received by: (Signature)		Date		Time					
Retrieved by: (Signature)		Date		Time		Received by: (Signature)		Date		Time					
Retrieved by: (Signature)		Date		Time		Received by: (Signature)		Date		Time					
Retrieved by: (Signature)		Date		Time		Received by: (Signature)		Date		Time					
Retrieved 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 30 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 excess 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.															

Client Information				Invoice Information		Lab Use Only		TAT		State								
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.		Lab WCH	Job Number	1D	2D	3D	Std	NM	CO	UT	TX			
Project: TOMCAT 21 FEDERAL RD01				Address: 5315 Buena Vista Dr.		E5002220	11058-0001				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: WD; 1007085301; PN: 19304;														
Email: NMTXGeoGroup@etechemv.com				IN: nBM2016146439														
Sample Information						Analysis and Method						EPA Program						
Time	Date Sampled	MW	Depth	Sample ID	Lab Number	11058-0001	11058-0002	11058-0003	11058-0004	11058-0005	11058-0006	11058-0007	11058-0008	11058-0009	11058-0010	SDWA	CWA	RCRA
10:33	6/23/2025	S	1	BH25	11													
10:42	6/23/2025	S	1	BH26	12													
10:45	6/23/2025	S	1	BH26	13													
10:46	6/23/2025	S	1	BH25	14													
11:06	6/23/2025	S	1	BH28	15													
11:09	6/23/2025	S	1	BH28	16													
11:12	6/23/2025	S	1	BH28	17													
11:30	6/23/2025	S	1	BH30	18													
11:33	6/23/2025	S	1	BH30	19													
11:36	6/23/2025	S	1	BH30	20													
Additional Instructions:																		
<p>1. (For samples) Attach to the vial(s) and vial(s) of this number. Use appropriate labeling with no unnecessary processing the sample location date for time of collection is considered final and may be grounds for legal action.</p> <p>2. (For samples) Attach to the vial(s) and vial(s) of this number. Use appropriate labeling with no unnecessary processing the sample location date for time of collection is considered final and may be grounds for legal action.</p>																		
Relinquished by: (Signature)				Date		Received by: (Signature)				Date		Samples requiring thermal preservation must be received on ice the day they are sampled or retrieved packed on ice at a temp above 0 but less than 5°C on subsequent days. Lab Use Only Received on ice: <input checked="" type="checkbox"/> N						
Relinquished by: (Signature)				Date		Received by: (Signature)				Date								
Relinquished by: (Signature)				Date		Received by: (Signature)				Date								
Relinquished by: (Signature)				Date		Received by: (Signature)				Date								
Relinquished by: (Signature)				Date		Received by: (Signature)				Date								
Relinquished by: (Signature)				Date		Received by: (Signature)				Date								
Relinquished by: (Signature)				Date		Received by: (Signature)				Date								
Relinquished by: (Signature)				Date		Received by: (Signature)				Date								
Sample Matrix: S - Soil, Sd - Solid, Ig - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 18 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: 6/25/2025 9:27:17AM

## 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:	06/25/25 08:00	Work Order ID:	E506230
Phone:	(575) 748-0176	Date Logged In:	06/24/25 14:53	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	07/01/25 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

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

Carrier: CourierComments/ResolutionSample 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: E506229

Job Number: 01058-0007

Received: 6/25/2025

Revision: 2

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/2/25

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.  
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Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 7/2/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E506229  
Date Received: 6/25/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/25/2025 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	07/02/25 11:34

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH27 0.5'	E506229-01A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH27 1'	E506229-02A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH27 2'	E506229-03A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH27 3'	E506229-04A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH27 4'	E506229-05A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH29 0.5'	E506229-06A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH29 1'	E506229-07A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH29 2'	E506229-08A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH29 3'	E506229-09A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH29 4'	E506229-10A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH31 0.5'	E506229-11A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH31 1'	E506229-12A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH31 2'	E506229-13A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH31 3'	E506229-14A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.
BH31 4'	E506229-15A	Soil	06/23/25	06/25/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH27 0.5'

E506229-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.8 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/29/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	06/26/25	06/29/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2527010	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH27 1'

E506229-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.6 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/29/25	
<i>Surrogate: n-Nonane</i>		117 %	61-141	06/26/25	06/29/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2527010	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH27 2'

E506229-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		99.5 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526123
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>						
		109 %	61-141	06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527010
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH27 3'

E506229-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.3 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %	70-130	06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>		110 %	61-141	06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2527010	
Chloride	71.5	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH27 4'

E506229-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	98.0 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	105 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>	109 %	61-141		06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2527010	
Chloride	307	20.0	1	06/30/25	06/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH29 0.5'

E506229-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.6 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	103 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526123
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>						
	107 %	61-141		06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527010
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH29 1'

E506229-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.2 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526123
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>						
	116 %	61-141		06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527010
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

## BH29 2'

## E506229-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Benzene	ND	0.0250	1	06/24/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/27/25	
Toluene	ND	0.0250	1	06/24/25	06/27/25	
o-Xylene	ND	0.0250	1	06/24/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	102 %	70-130		06/24/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526123
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>						
	107 %	61-141		06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527010
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH29 3'

E506229-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Benzene	ND	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/28/25	
Toluene	ND	0.0250	1	06/24/25	06/28/25	
o-Xylene	ND	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	95.6 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	105 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>	111 %	61-141		06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2527010	
Chloride	30.7	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

## BH29 4'

## E506229-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Benzene	ND	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/28/25	
Toluene	ND	0.0250	1	06/24/25	06/28/25	
o-Xylene	ND	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.9 %	70-130	06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %	70-130	06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>		114 %	61-141	06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2527010	
Chloride	81.7	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH31 0.5'

E506229-11

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Benzene	ND	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/28/25	
Toluene	ND	0.0250	1	06/24/25	06/28/25	
o-Xylene	ND	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/28/25	
Surrogate: 4-Bromochlorobenzene-PID	97.0 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	102 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526123
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
Surrogate: n-Nonane	111 %	61-141		06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527010
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH31 1'

E506229-12

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Benzene	ND	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/28/25	
Toluene	ND	0.0250	1	06/24/25	06/28/25	
o-Xylene	ND	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.0 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	104 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526123
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527010
Chloride	ND	20.0	1	06/30/25	06/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH31 2'

E506229-13

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Benzene	ND	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/28/25	
Toluene	ND	0.0250	1	06/24/25	06/28/25	
o-Xylene	ND	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.9 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526077	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	105 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2526123	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>	109 %	61-141		06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2527010	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH31 3'

E506229-14

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Benzene	ND	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/28/25	
Toluene	ND	0.0250	1	06/24/25	06/28/25	
o-Xylene	ND	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	96.4 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	105 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526123
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
<i>Surrogate: n-Nonane</i>						
	114 %	61-141		06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527010
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 11:34:55AM

BH31 4'

E506229-15

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Benzene	ND	0.0250	1	06/24/25	06/28/25	
Ethylbenzene	ND	0.0250	1	06/24/25	06/28/25	
Toluene	ND	0.0250	1	06/24/25	06/28/25	
o-Xylene	ND	0.0250	1	06/24/25	06/28/25	
p,m-Xylene	ND	0.0500	1	06/24/25	06/28/25	
Total Xylenes	ND	0.0250	1	06/24/25	06/28/25	
Surrogate: 4-Bromochlorobenzene-PID	95.4 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526077
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/24/25	06/28/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	107 %	70-130		06/24/25	06/28/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2526123
Diesel Range Organics (C10-C28)	ND	25.0	1	06/26/25	06/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/26/25	06/30/25	
Surrogate: n-Nonane	116 %	61-141		06/26/25	06/30/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527010
Chloride	ND	20.0	1	06/30/25	06/30/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 11:34:55AM

## 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 (2526077-BLK1)

Prepared: 06/24/25 Analyzed: 06/29/25

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	8.11		8.00		101	70-130			

## LCS (2526077-BS1)

Prepared: 06/24/25 Analyzed: 06/29/25

Benzene	4.66	0.0250	5.00		93.3	70-130			
Ethylbenzene	4.75	0.0250	5.00		95.1	70-130			
Toluene	4.73	0.0250	5.00		94.7	70-130			
o-Xylene	4.76	0.0250	5.00		95.1	70-130			
p,m-Xylene	9.68	0.0500	10.0		96.8	70-130			
Total Xylenes	14.4	0.0250	15.0		96.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.49		8.00		93.6	70-130			

## Matrix Spike (2526077-MS1)

Source: E506229-02

Prepared: 06/24/25 Analyzed: 06/27/25

Benzene	4.93	0.0250	5.00	ND	98.6	70-130			
Ethylbenzene	4.91	0.0250	5.00	ND	98.3	70-130			
Toluene	4.94	0.0250	5.00	ND	98.7	70-130			
o-Xylene	4.92	0.0250	5.00	ND	98.4	70-130			
p,m-Xylene	9.99	0.0500	10.0	ND	99.9	70-130			
Total Xylenes	14.9	0.0250	15.0	ND	99.4	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.94		8.00		99.2	70-130			

## Matrix Spike Dup (2526077-MSD1)

Source: E506229-02

Prepared: 06/24/25 Analyzed: 06/29/25

Benzene	4.49	0.0250	5.00	ND	89.7	70-130	9.44	27	
Ethylbenzene	4.56	0.0250	5.00	ND	91.3	70-130	7.41	26	
Toluene	4.54	0.0250	5.00	ND	90.9	70-130	8.31	20	
o-Xylene	4.61	0.0250	5.00	ND	92.2	70-130	6.47	25	
p,m-Xylene	9.31	0.0500	10.0	ND	93.1	70-130	6.99	23	
Total Xylenes	13.9	0.0250	15.0	ND	92.8	70-130	6.82	26	
Surrogate: 4-Bromochlorobenzene-PID	7.92		8.00		99.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 11:34:55AM

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 (2526077-BLK1) Prepared: 06/24/25 Analyzed: 06/29/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.79		8.00		97.4	70-130			

LCS (2526077-BS2) Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	46.8	20.0	50.0		93.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.02		8.00		100	70-130			

Matrix Spike (2526077-MS2) Source: E506229-02 Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	51.9	20.0	50.0	ND	104	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.28		8.00		104	70-130			

Matrix Spike Dup (2526077-MSD2) Source: E506229-02 Prepared: 06/24/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	53.2	20.0	50.0	ND	106	70-130	2.42	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.38		8.00		105	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 11:34:55AM

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 (2526123-BLK1)					Prepared: 06/26/25 Analyzed: 06/29/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	55.8		50.0		112	61-141			

LCS (2526123-BS1)					Prepared: 06/26/25 Analyzed: 06/29/25				
Diesel Range Organics (C10-C28)	312	25.0	250		125	66-144			
Surrogate: n-Nonane	55.0		50.0		110	61-141			

Matrix Spike (2526123-MS1)					Source: E506229-04		Prepared: 06/26/25 Analyzed: 06/29/25		
Diesel Range Organics (C10-C28)	312	25.0	250	ND	125	56-156			
Surrogate: n-Nonane	53.5		50.0		107	61-141			

Matrix Spike Dup (2526123-MSD1)					Source: E506229-04		Prepared: 06/26/25 Analyzed: 06/29/25		
Diesel Range Organics (C10-C28)	313	25.0	250	ND	125	56-156	0.458	20	
Surrogate: n-Nonane	55.8		50.0		112	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 11:34:55AM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2527010-BLK1)					Prepared: 06/30/25 Analyzed: 06/30/25				
Chloride	ND	20.0							
LCS (2527010-BS1)					Prepared: 06/30/25 Analyzed: 06/30/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2527010-MS1)					Source: E506229-04		Prepared: 06/30/25 Analyzed: 06/30/25		
Chloride	324	20.0	250	71.5	101	80-120			
Matrix Spike Dup (2527010-MSD1)					Source: E506229-04		Prepared: 06/30/25 Analyzed: 06/30/25		
Chloride	321	20.0	250	71.5	100	80-120	0.809	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	07/02/25 11:34

- 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

01058-0007 CM

Client Information				Invoice Information		Lab Use Only		TAT				State							
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.		Lab WOW		ID 2D 3D Std				NM CO UT TX							
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.		Job Number		E500229 7203002				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@dev.com															
Phone: 432-305-6415				Miscellaneous: WO: 1007085301; PN: 19304															
Email: NMTXGeoGroup@etechnw.com				IN: nRM2016146439															
Sample Information										Analysis and Method				EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	None by decision	DET/DOC by GC/MS	PTC by GC/MS	VOC by GC/MS	Chloride by GC/MS	Field Test: pH	Field Test: VOA	Field Test: TOC	Field Test: TSS	SDWA	CWA	RCRA	
																Compliance	Y	or	FE
																PWSID #			
																Sample Temp			Remarks
10:52	6/23/2025	S	1	BH27	0.5'	1										X			21
10:54	6/23/2025	S	1	BH27	1'	2										X			2.2
10:56	6/23/2025	S	1	BH27	2'	3										X			2.0
10:58	6/23/2025	S	1	BH27	3'	4										X			2.1
11:00	6/23/2025	S	1	BH27	4'	5										X			2.1
11:18	6/23/2025	S	1	BH29	0.5'	6										X			0.8
11:20	6/23/2025	S	1	BH29	1'	7										X			1.3
11:22	6/23/2025	S	1	BH29	2'	8										X			0.6
11:24	6/23/2025	S	1	BH29	3'	9										X			1.0
11:26	6/23/2025	S	1	BH29	4'	10										X			1.2
Additional Instructions:																			
I, (field samples), attest to the validity and authenticity of this sample. I am aware that sampling without intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action.																			
Sampled by: Christopher Iman																			
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: O/N							
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time									
Sample Matrix: S - Soil, SF - Solid, SG - Sludge, A - Aqueous, O - Other																			
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOC																			
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 request 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.																			

[illegible]

## Envirotech Analytical Laboratory

Printed: 6/25/2025 9:25:54AM

## 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:	06/25/25 08:00	Work Order ID:	E506229
Phone:	(575) 748-0176	Date Logged In:	06/24/25 14:48	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	07/01/25 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

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

Carrier: CourierComments/ResolutionSample 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.





## Chain of Custody

Page 1 of 2

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.				E500229		2203-0002					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@etechnv.com				IN: nRM2016146439															
Sample Information							Analysis and Method							EPA Program					
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Depth	Lab Number	DRG/DRO by 8015	GRG/DRO by 8015	BTEX by 8021	VOC by 8260	Chloride 300.0	TCO 1000-TX	RCRA 8 Metals	RODUC-TM	RODUC-TX	SDWA	CWA	RCRA	
																Compliance	Y	or	N
																PWSID #			
																Sample Temp			Remarks
10:52	6/23/2025	S	1	BH27	0.5'	1								X		2.1			
10:54	6/23/2025	S	1	BH27	1'	2								X		2.2			
10:56	6/23/2025	S	1	BH27	2'	3								X		2.0			
10:58	6/23/2025	S	1	BH27	3'	4								X		2.1			
11:00	6/23/2025	S	1	BH27	4'	5								X		2.1			
11:18	6/23/2025	S	1	BH29	0.5'	6								X		0.8			
11:20	6/23/2025	S	1	BH29	1'	7								X		1.3			
11:22	6/23/2025	S	1	BH29	2'	8								X		0.6			
11:24	6/23/2025	S	1	BH29	3'	9								X		1.0			
11:26	6/23/2025	S	1	BH29	4'	10								X		1.2			
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: Christopher Inman																			
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.			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Lab Use Only			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Received on ice:			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time		Y/N			
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other																			
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.																			



## Page 2 of 2

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Report to:  
Anna Byers



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E506246

Job Number: 01058-0007

Received: 6/27/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/2/25

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: 7/2/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E506246  
Date Received: 6/27/2025 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/27/2025 7:00:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzales@envirotech-inc.com](mailto:mgonzales@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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## Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 21 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 07/02/25 12:03
---	---	-----------------------------

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH32 0.5'	E506246-01A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH32 1'	E506246-02A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH32 2'	E506246-03A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH32 3'	E506246-04A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH32 4'	E506246-05A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH34 0.5'	E506246-06A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH34 1'	E506246-07A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH34 2'	E506246-08A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH34 3'	E506246-09A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH34 4'	E506246-10A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	<b>Reported:</b> 7/2/2025 12:03:15PM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	

**BH32 0.5'**

**E506246-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526139	
Benzene	ND	0.0250	1	06/27/25	06/29/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/29/25	
Toluene	ND	0.0250	1	06/27/25	06/29/25	
o-Xylene	ND	0.0250	1	06/27/25	06/29/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/29/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: BA		Batch: 2526139	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.9 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2527020	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>		124 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: JM		Batch: 2527013	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 12:03:15PM

BH32 1'

E506246-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526139	
Benzene	ND	0.0250	1	06/27/25	06/29/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/29/25	
Toluene	ND	0.0250	1	06/27/25	06/29/25	
o-Xylene	ND	0.0250	1	06/27/25	06/29/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/29/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526139	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		97.0 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2527020	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2527013	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 12:03:15PM

BH32 2'

E506246-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Benzene	ND	0.0250	1	06/27/25	06/29/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/29/25	
Toluene	ND	0.0250	1	06/27/25	06/29/25	
o-Xylene	ND	0.0250	1	06/27/25	06/29/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/29/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2527020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>						
		107 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527013
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 12:03:15PM

BH32 3'

E506246-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Benzene	ND	0.0250	1	06/27/25	06/29/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/29/25	
Toluene	ND	0.0250	1	06/27/25	06/29/25	
o-Xylene	ND	0.0250	1	06/27/25	06/29/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/29/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		106 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.6 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2527020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527013
Chloride	ND	20.0	1	06/30/25	06/30/25	





## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 12:03:15PM

BH32 4'

E506246-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Benzene	ND	0.0250	1	06/27/25	06/29/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/29/25	
Toluene	ND	0.0250	1	06/27/25	06/29/25	
o-Xylene	ND	0.0250	1	06/27/25	06/29/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/29/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		104 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.6 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2527020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527013
Chloride	158	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 12:03:15PM

BH34 0.5'

E506246-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Benzene	ND	0.0250	1	06/27/25	06/29/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/29/25	
Toluene	ND	0.0250	1	06/27/25	06/29/25	
o-Xylene	ND	0.0250	1	06/27/25	06/29/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/29/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/29/25	
Surrogate: 4-Bromochlorobenzene-PID		105 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/29/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.8 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2527020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
Surrogate: n-Nonane		116 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527013
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 12:03:15PM

BH34 1'

E506246-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526139	
Benzene	ND	0.0250	1	06/27/25	06/29/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/29/25	
Toluene	ND	0.0250	1	06/27/25	06/29/25	
o-Xylene	ND	0.0250	1	06/27/25	06/29/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/29/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		105 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg	Analyst: BA		Batch: 2526139	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.6 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg	Analyst: KH		Batch: 2527020	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>						
		114 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg	Analyst: JM		Batch: 2527013	
Chloride	ND	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 12:03:15PM

BH34 2'

E506246-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Benzene	ND	0.0250	1	06/27/25	06/29/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/29/25	
Toluene	ND	0.0250	1	06/27/25	06/29/25	
o-Xylene	ND	0.0250	1	06/27/25	06/29/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/29/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		107 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2527020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>						
		120 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527013
Chloride	123	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 12:03:15PM

BH34 3'

E506246-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Benzene	ND	0.0250	1	06/27/25	06/29/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/29/25	
Toluene	ND	0.0250	1	06/27/25	06/29/25	
o-Xylene	ND	0.0250	1	06/27/25	06/29/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/29/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		108 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.7 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2527020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>						
		110 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527013
Chloride	323	20.0	1	06/30/25	06/30/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/2/2025 12:03:15PM

BH34 4'

E506246-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Benzene	ND	0.0250	1	06/27/25	06/29/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/29/25	
Toluene	ND	0.0250	1	06/27/25	06/29/25	
o-Xylene	ND	0.0250	1	06/27/25	06/29/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/29/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/29/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		109 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: BA		Batch: 2526139
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/29/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		96.8 %	70-130	06/27/25	06/29/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: KH		Batch: 2527020
Diesel Range Organics (C10-C28)	ND	25.0	1	06/30/25	07/01/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/30/25	07/01/25	
<i>Surrogate: n-Nonane</i>						
		121 %	61-141	06/30/25	07/01/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: JM		Batch: 2527013
Chloride	386	20.0	1	06/30/25	06/30/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 12:03:15PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2526139-BLK1) Prepared: 06/27/25 Analyzed: 06/29/25

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	8.21		8.00		103	70-130			

LCS (2526139-BS1) Prepared: 06/27/25 Analyzed: 06/29/25

Benzene	4.80	0.0250	5.00		95.9	70-130			
Ethylbenzene	4.44	0.0250	5.00		88.7	70-130			
Toluene	4.64	0.0250	5.00		92.7	70-130			
o-Xylene	4.41	0.0250	5.00		88.1	70-130			
p,m-Xylene	8.81	0.0500	10.0		88.1	70-130			
Total Xylenes	13.2	0.0250	15.0		88.1	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.18		8.00		102	70-130			

Matrix Spike (2526139-MS1) Source: E506246-03 Prepared: 06/27/25 Analyzed: 06/29/25

Benzene	5.43	0.0250	5.00	ND	109	70-130			
Ethylbenzene	5.30	0.0250	5.00	ND	106	70-130			
Toluene	5.39	0.0250	5.00	ND	108	70-130			
o-Xylene	5.21	0.0250	5.00	ND	104	70-130			
p,m-Xylene	10.6	0.0500	10.0	ND	106	70-130			
Total Xylenes	15.8	0.0250	15.0	ND	106	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.30		8.00		104	70-130			

Matrix Spike Dup (2526139-MSD1) Source: E506246-03 Prepared: 06/27/25 Analyzed: 06/29/25

Benzene	4.88	0.0250	5.00	ND	97.6	70-130	10.7	27	
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	70-130	10.5	26	
Toluene	4.84	0.0250	5.00	ND	96.8	70-130	10.8	20	
o-Xylene	4.69	0.0250	5.00	ND	93.7	70-130	10.6	25	
p,m-Xylene	9.59	0.0500	10.0	ND	95.9	70-130	10.2	23	
Total Xylenes	14.3	0.0250	15.0	ND	95.2	70-130	10.3	26	
Surrogate: 4-Bromochlorobenzene-PID	8.28		8.00		104	70-130			





## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 12:03:15PM

## 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 (2526139-BLK1)

Prepared: 06/27/25 Analyzed: 06/29/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.67		8.00		95.9	70-130			

## LCS (2526139-BS2)

Prepared: 06/27/25 Analyzed: 06/29/25

Gasoline Range Organics (C6-C10)	42.3	20.0	50.0		84.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.78		8.00		97.3	70-130			

## Matrix Spike (2526139-MS2)

Source: E506246-03

Prepared: 06/27/25 Analyzed: 06/29/25

Gasoline Range Organics (C6-C10)	43.3	20.0	50.0	ND	86.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.7	70-130			

## Matrix Spike Dup (2526139-MSD2)

Source: E506246-03

Prepared: 06/27/25 Analyzed: 06/29/25

Gasoline Range Organics (C6-C10)	42.9	20.0	50.0	ND	85.9	70-130	0.744	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		8.00		96.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 12:03:15PM

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 (2527020-BLK1)					Prepared: 06/30/25 Analyzed: 07/01/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.1		50.0		102	61-141			

LCS (2527020-BS1)					Prepared: 06/30/25 Analyzed: 07/01/25				
Diesel Range Organics (C10-C28)	287	25.0	250		115	66-144			
Surrogate: n-Nonane	51.4		50.0		103	61-141			

Matrix Spike (2527020-MS1)					Source: E506245-01		Prepared: 06/30/25 Analyzed: 07/01/25		
Diesel Range Organics (C10-C28)	329	25.0	250	ND	132	56-156			
Surrogate: n-Nonane	54.7		50.0		109	61-141			

Matrix Spike Dup (2527020-MSD1)					Source: E506245-01		Prepared: 06/30/25 Analyzed: 07/01/25		
Diesel Range Organics (C10-C28)	340	25.0	250	ND	136	56-156	3.32	20	
Surrogate: n-Nonane	58.2		50.0		116	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/2/2025 12:03:15PM

Anions by EPA 300.0/9056A

Analyst: JM

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2527013-BLK1)					Prepared: 06/30/25 Analyzed: 06/30/25				
Chloride	ND	20.0							
LCS (2527013-BS1)					Prepared: 06/30/25 Analyzed: 06/30/25				
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2527013-MS1)					Source: E506246-04		Prepared: 06/30/25 Analyzed: 06/30/25		
Chloride	252	20.0	250	ND	101	80-120			
Matrix Spike Dup (2527013-MSD1)					Source: E506246-04		Prepared: 06/30/25 Analyzed: 06/30/25		
Chloride	252	20.0	250	ND	101	80-120	0.0626	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	07/02/25 12:03

- 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.



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.		E5016246	010580007				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: iim.raley@devn.com																
Phone: 432-305-6415				Miscellaneous: WO: 1007085301; PN: 19304;																
Email: NMTXGeoGroup@etechnv.com				IN: nRM2016146439																
Sample Information						Analysis and Method						EPA Program								
Time Sampled	Date Sampled	Matrix	Is in Container	Sample ID	Depth	Lab Number	5102 by OMO/ID	5102/5103 by 8015	MTX by 8021	VOC by 8250	Chloride 100.0	FFC by 8211	RCRA 8 VECs	8030c / 8030	8030c / 8030	SDWA	CWA	RCRA		
																	Compliance	Y	or	N
																	PWSID #			
																	Sample Temp			Remarks
10:00	6/24/2025	S	1	BH32	0.5'	1								X			2.6			
10:05	6/24/2025	S	1	BH32	1'	2								X			2.0			
10:10	6/24/2025	S	1	BH32	2'	3								X			2.3			
10:15	6/24/2025	S	1	BH32	3'	4								X			3.0			
10:20	6/24/2025	S	1	BH32	4'	5								X			3.1			
11:55	6/24/2025	S	1	BH34	0.5'	6								X			2.4			
12:00	6/24/2025	S	1	BH34	1'	7								X			2.1			
12:05	6/24/2025	S	1	BH34	2'	8								X			2.6			
12:10	6/24/2025	S	1	BH34	3'	9								X			2.8			
12:15	6/24/2025	S	1	BH34	4'	10								X			2.4			
<b>Additional Instructions:</b>																				
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: Christopher Iriman																				
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: Y/N								
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time										
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: 6/27/2025 12:06:00PM

## 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:	06/27/25 07:00	Work Order ID:	E506246
Phone:	(575) 748-0176	Date Logged In:	06/26/25 13:44	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	07/02/25 17:00 (3 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

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

Carrier: CourierComments/ResolutionSample 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: E506242

Job Number: 01058-0007

Received: 6/27/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
7/1/25

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: 7/1/25



Anna Byers  
6488 7 Rivers Hwy  
Artesia, NM 88210

Project Name: TOMCAT 21 FEDERAL #001  
Workorder: E506242  
Date Received: 6/27/2025 7:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 6/27/2025 7:00:00AM, 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](mailto:whinchman@envirotech-inc.com)

**Raina Schwanz**  
Laboratory Administrator  
Office: 505-632-1881  
[rainaschwanz@envirotech-inc.com](mailto:rainaschwanz@envirotech-inc.com)

Field Offices:

**Southern New Mexico Area**

**Lynn Jarboe**  
Laboratory Technical Representative  
Office: 505-421-LABS(5227)  
Cell: 505-320-4759  
[ljjarboe@envirotech-inc.com](mailto:ljjarboe@envirotech-inc.com)

**Michelle Gonzales**  
Client Representative  
Office: 505-421-LABS(5227)  
Cell: 505-947-8222  
[mgonzaless@envirotech-inc.com](mailto:mgonzaless@envirotech-inc.com)

Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)

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Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	07/01/25 09:18

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH33 0.5'	E506242-01A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH33 3'	E506242-02A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.
BH33 4'	E506242-03A	Soil	06/24/25	06/27/25	Glass Jar, 2 oz.



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 9:18:16AM

**BH33 0.5'**

**E506242-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526137	
Benzene	ND	0.0250	1	06/27/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/27/25	
Toluene	ND	0.0250	1	06/27/25	06/27/25	
o-Xylene	ND	0.0250	1	06/27/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		82.1 %	70-130	06/27/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2526137	
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.5 %	70-130	06/27/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: NV		Batch: 2526134	
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/25	06/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/25	06/27/25	
<i>Surrogate: n-Nonane</i>		97.6 %	61-141	06/27/25	06/27/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2526141	
Chloride	53.3	20.0	1	06/27/25	06/27/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 9:18:16AM

BH33 3'

E506242-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526137
Benzene	ND	0.0250	1	06/27/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/27/25	
Toluene	ND	0.0250	1	06/27/25	06/27/25	
o-Xylene	ND	0.0250	1	06/27/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/27/25	
Surrogate: 4-Bromochlorobenzene-PID	82.3 %	70-130		06/27/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526137
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/27/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	93.5 %	70-130		06/27/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2526134
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/25	06/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/25	06/27/25	
Surrogate: n-Nonane	102 %	61-141		06/27/25	06/27/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526141
Chloride	2860	40.0	2	06/27/25	06/27/25	



## Sample Data

Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: TOMCAT 21 FEDERAL #001  
Project Number: 01058-0007  
Project Manager: Anna Byers

**Reported:**  
7/1/2025 9:18:16AM

BH33 4'

E506242-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526137
Benzene	ND	0.0250	1	06/27/25	06/27/25	
Ethylbenzene	ND	0.0250	1	06/27/25	06/27/25	
Toluene	ND	0.0250	1	06/27/25	06/27/25	
o-Xylene	ND	0.0250	1	06/27/25	06/27/25	
p,m-Xylene	ND	0.0500	1	06/27/25	06/27/25	
Total Xylenes	ND	0.0250	1	06/27/25	06/27/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	82.3 %	70-130		06/27/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>						
	mg/kg	mg/kg		Analyst: SL		Batch: 2526137
Gasoline Range Organics (C6-C10)	ND	20.0	1	06/27/25	06/27/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.5 %	70-130		06/27/25	06/27/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>						
	mg/kg	mg/kg		Analyst: NV		Batch: 2526134
Diesel Range Organics (C10-C28)	ND	25.0	1	06/27/25	06/27/25	
Oil Range Organics (C28-C36)	ND	50.0	1	06/27/25	06/27/25	
<i>Surrogate: n-Nonane</i>						
	101 %	61-141		06/27/25	06/27/25	
<b>Anions by EPA 300.0/9056A</b>						
	mg/kg	mg/kg		Analyst: IY		Batch: 2526141
Chloride	6140	100	5	06/27/25	06/27/25	



## QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/1/2025 9:18:16AM

## 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 (2526137-BLK1)

Prepared: 06/27/25 Analyzed: 06/27/25

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	6.54		8.00		81.7	70-130			

## LCS (2526137-BS1)

Prepared: 06/27/25 Analyzed: 06/27/25

Benzene	5.78	0.0250	5.00		116	70-130			
Ethylbenzene	5.70	0.0250	5.00		114	70-130			
Toluene	5.77	0.0250	5.00		115	70-130			
o-Xylene	5.60	0.0250	5.00		112	70-130			
p,m-Xylene	11.5	0.0500	10.0		115	70-130			
Total Xylenes	17.1	0.0250	15.0		114	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.57		8.00		82.1	70-130			

## Matrix Spike (2526137-MS1)

Source: E506242-01

Prepared: 06/27/25 Analyzed: 06/27/25

Benzene	5.11	0.0250	5.00	ND	102	70-130			
Ethylbenzene	5.02	0.0250	5.00	ND	100	70-130			
Toluene	5.09	0.0250	5.00	ND	102	70-130			
o-Xylene	4.97	0.0250	5.00	ND	99.4	70-130			
p,m-Xylene	10.1	0.0500	10.0	ND	101	70-130			
Total Xylenes	15.1	0.0250	15.0	ND	101	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.56		8.00		82.0	70-130			

## Matrix Spike Dup (2526137-MSD1)

Source: E506242-01

Prepared: 06/27/25 Analyzed: 06/27/25

Benzene	5.66	0.0250	5.00	ND	113	70-130	10.2	27	
Ethylbenzene	5.55	0.0250	5.00	ND	111	70-130	10.1	26	
Toluene	5.63	0.0250	5.00	ND	113	70-130	10.1	20	
o-Xylene	5.45	0.0250	5.00	ND	109	70-130	9.25	25	
p,m-Xylene	11.2	0.0500	10.0	ND	112	70-130	9.83	23	
Total Xylenes	16.6	0.0250	15.0	ND	111	70-130	9.64	26	
Surrogate: 4-Bromochlorobenzene-PID	6.51		8.00		81.4	70-130			





QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/1/2025 9:18:16AM

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 (2526137-BLK1) Prepared: 06/27/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.56		8.00		94.5	70-130			

LCS (2526137-BS2) Prepared: 06/27/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	45.2	20.0	50.0		90.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.4	70-130			

Matrix Spike (2526137-MS2) Source: E506242-01 Prepared: 06/27/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.64		8.00		95.5	70-130			

Matrix Spike Dup (2526137-MSD2) Source: E506242-01 Prepared: 06/27/25 Analyzed: 06/27/25

Gasoline Range Organics (C6-C10)	46.5	20.0	50.0	ND	93.0	70-130	3.58	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		8.00		95.3	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/1/2025 9:18:16AM

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 (2526134-BLK1) Prepared: 06/27/25 Analyzed: 06/27/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.5		50.0		107	61-141			

LCS (2526134-BS1) Prepared: 06/27/25 Analyzed: 06/27/25

Diesel Range Organics (C10-C28)	396	25.0	250		158	66-144			LS
Surrogate: n-Nonane	67.1		50.0		134	61-141			

Matrix Spike (2526134-MS1) Source: E506240-01 Prepared: 06/27/25 Analyzed: 06/27/25

Diesel Range Organics (C10-C28)	331	25.0	250	ND	132	56-156			
Surrogate: n-Nonane	56.6		50.0		113	61-141			

Matrix Spike Dup (2526134-MSD1) Source: E506240-01 Prepared: 06/27/25 Analyzed: 06/27/25

Diesel Range Organics (C10-C28)	332	25.0	250	ND	133	56-156	0.345	20	
Surrogate: n-Nonane	56.3		50.0		113	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	7/1/2025 9:18:16AM

Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	

Blank (2526141-BLK1)					Prepared: 06/27/25 Analyzed: 06/27/25				
Chloride	ND	20.0							
LCS (2526141-BS1)					Prepared: 06/27/25 Analyzed: 06/27/25				
Chloride	250	20.0	250		100	90-110			
Matrix Spike (2526141-MS1)					Source: E506240-01		Prepared: 06/27/25 Analyzed: 06/27/25		
Chloride	254	20.0	250	ND	101	80-120			
Matrix Spike Dup (2526141-MSD1)					Source: E506240-01		Prepared: 06/27/25 Analyzed: 06/27/25		
Chloride	254	20.0	250	ND	102	80-120	0.222	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	Project Name:	TOMCAT 21 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	<b>Reported:</b>
Artesia NM, 88210	Project Manager:	Anna Byers	07/01/25 09:18

L5 The LCS spike recovery was outside acceptance limits. The MS and/or MSD is within the LCS acceptance limits.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

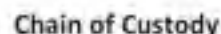
DNI Did Not Ignite

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.





Client Information				Invoice Information				Lab Use Only				TAT				State			
Client: Devon Energy Production Company, LP				Company: Devon Energy Production Co.				Lab WOI#				Job Number				1D 2D 3D Std			
Project: TOMCAT 21 FEDERAL #001				Address: 5315 Buena Vista Dr.				E5010242				01058-0007				NM CO UT TX			
Project Manager: Anna Byers				City, State, Zip: Carlsbad, NM, 88220												X			
Address: 13000 W County Rd 100				Phone: 575-885-7502															
City, State, Zip: Odessa, TX, 79765				Email: jim.railey@dvn.com															
Phone: 432-305-6415				Miscellaneous: WD: 1007085301; PN: 19304;															
Email: NMTXGeoGroup@etechnv.com				IN: nRM2016146439															
Sample Information						Analysis and Method										EPA Program			
Time Sampled	Date Sampled	Matrix	Lab. #	Sample ID	Depth	Lab Number	DET/DET by 8215	DET/DET by 8015	BTX by 8021	VOC by 8150	CHLORIDE by 8150	ICL/ICL by 8150	ICL/ICL by 8150	ICL/ICL by 8150	ICL/ICL by 8150	ICL/ICL by 8150	SDWA	CWA	RCRA
10:30	6/24/2015	S	1	BH33	0.5'	1													
10:45	6/24/2015	S	1	BH33	3'	2													
10:50	6/24/2015	S	1	BH33	4'	3													
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: Christopher Inman																			
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			
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
Relinquished by: (Signature)				Date		Time		Received by: (Signature)				Date		Time					
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: 6/27/2025 11:02:24AM

## 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:	06/27/25 07:00	Work Order ID:	E506242
Phone:	(575) 748-0176	Date Logged In:	06/26/25 13:24	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	07/02/25 17:00 (3 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

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

Carrier: CourierComments/ResolutionSample 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.

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# APPENDIX I

## Correspondence & Notifications



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 456208

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 456208
	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	Initial C-141 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	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/01/2025
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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Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 456208

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 456208
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	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.	4/28/2025

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

QUESTIONS

Action 459081

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 459081
	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	Initial C-141 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	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/08/2025
Time sampling will commence	10:00 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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Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 459081

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 459081
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jraleay	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.	5/6/2025

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS

Action 459084

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 459084
	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	Initial C-141 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	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/09/2025
Time sampling will commence	08:00 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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Energy, Minerals and Natural Resources  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 459084

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 459084
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	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.	5/6/2025

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

QUESTIONS

Action 476393

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 476393
	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	Initial C-141 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	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/23/2025
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  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 476393

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 476393
	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.	6/18/2025
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.	6/18/2025

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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 454295

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 454295
	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	Initial C-141 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	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	1,000
What is the estimated number of samples that will be gathered	20
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/24/2025
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  
Oil Conservation Division  
1220 S. St Francis Dr.  
Santa Fe, NM 87505

CONDITIONS

Action 454295

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 454295
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	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.	4/22/2025

**Erick Herrera**

---

**From:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Sent:** Wednesday, July 23, 2025 4:43 PM  
**To:** Erick Herrera  
**Cc:** jim.raley@dmn.com; NM TX Geo Group; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Enviro, OCD, EMNRD  
**Subject:** Re: [EXTERNAL] Request for Variance for Delineation Soil Sampling Notification Tomcat 21 Federal #001 - Incident Number nRM2016146439

Hi Erick,

Thank you for the correspondence.

The variance requested to accept these samples without the sampling notification is denied.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

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](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oed>



---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>  
**Sent:** Tuesday, July 22, 2025 2:56 PM  
**To:** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>  
**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>  
**Subject:** FW: [EXTERNAL] Request for Variance for Delineation Soil Sampling Notification Tomcat 21 Federal #001 - Incident Number nRM2016146439

---

**From:** Erick Herrera <erick@etechenv.com>  
**Sent:** Tuesday, July 22, 2025 2:29 PM  
**To:** Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; ocdonline, emnrd, EMNRD <emnrd.ocdonline@emnrd.nm.gov>  
**Cc:** Raley, Jim <jim.raley@dmn.com>; NM TX Geo Group <NMTXGeoGroup@etechenv.com>  
**Subject:** [EXTERNAL] Request for Variance for Delineation Soil Sampling Notification Tomcat 21 Federal #001 - Incident Number nRM2016146439

**CAUTION:** This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Good afternoon,

Etech Environmental & Safety Solutions (Etech), on behalf of Devon Energy Production Company, LP. is reaching out regarding our ongoing remediation efforts for the Tomcat 21 Federal 1 (Site) associated with Incident Number nRM2016146439. Unfortunately, we inadvertently overlooked to notify Mr. Jim Raley with Devon Energy to include a sampling notification for a delineation sampling event. This oversight occurred due to a miscommunication within our internal team during the scheduling and coordination of the delineation sampling activities. Etech collected delineation soil samples on April 28<sup>th</sup>, 2025, which have since been submitted for laboratory analysis.

Etech fully understands that a sampling notification must be submitted at least two (2) business days prior to a sampling event. Etech on behalf of Devon requests a variance to accept the delineation soil samples collected on April 28<sup>th</sup>, 2025, for Incident Number nRM2016146439. With your approval, a soil sampling notification would be submitted as soon as possible for the respective date, and this email notification will be included in a subsequent Site Characterization and Remediation Plan report for Incident Number nRM2016146439. Please be assured that all future final confirmation soil sampling notifications will be submitted for any confirmation closure sampling.

Please let us know if you have any questions or require further information.

Thank you,



**Erick Herrera**  
Lead Project Geologist/GIS Manager  
**Etech Environmental & Safety Solutions, Inc.**  
W: (432) 305-6416  
C: (281) 777-4152



Outlook

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**Re: [EXTERNAL] Devon Characterization Variance Request - Tomcat 21 Federal 1 (nRM2016146439)**

---

**From** Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>**Date** Wed 3/26/2025 7:51 AM**To** Erick Herrera <erick@etechenv.com>**Cc** Raley, Jim <jim.ralej@dm.com>; NM TX Geo Group <NMTXGeoGroup@etechenv.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

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](mailto:nelson.velez@emnrd.nm.gov)  
<http://www.emnrd.nm.gov/oed>



---

**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@dmn.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



## 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 <rfflynncox@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](mailto:erick@etechenv.com)>  
**Sent:** Thursday, February 27, 2025 11:01 AM  
**To:** Flynn-Cox, Renae C <[rfflynncox@blm.gov](mailto:rfflynncox@blm.gov)>  
**Cc:** NM TX Geo Group <[NMTXGeoGroup@etechenv.com](mailto: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

---

## APPENDIX J

### Approved Characterization Variation Request



# CHARACTERIZATION VARIANCE REQUEST

*Prepared For:*

*Devon Energy Production Company, LP*

*5315 Buena Vista Dr.*

*Carlsbad, NM 88220*

*Site Information:*

**Tomcat 21 Federal 1**

**Incident Number nRM2016146439**

*Unit I, Section 16, Township 23 South, Range 32 East*

*Lea County, New Mexico*

*(32.30250°, -103.67110°)*

Carlsbad • Houston • Midland • San Antonio • Lubbock • Hobbs • Lafayette

## SYNOPSIS

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Devon Energy Production Company, LP (Devon), presents the following Characterization Variance Request (CVR) detailing the assessment of potential sensitive receptors relative to the Tomcat 21 Federal 1 (Site) location. Based on the results of the desktop review according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC), Devon requests the proposed Site Closure Criteria to drive remediation efforts based on the regional depth to groundwater assessment.

## SITE BACKGROUND

The Site is associated with oil and gas exploration and production operations and intersects both State Land managed by the New Mexico State Land Office (NMSLO), and Federal Land managed by the Bureau of Land Management (BLM) surface boundaries. The subject release occurred approximately 1 mile northeast of production well, assigned (API 30-025-33356) in Unit I, Section 16, Township 23 South, Range 32 East, in Lea County, New Mexico (32.30250°, -103.67110°) (**Figure 1 in Appendix A**), as provided on a Corrective Action Form C-141 (Form C-141). 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). Due to the remote location of the release, no fluids could be recovered. Devon immediately notified the New Mexico Oil and Conservation Division (NMOCD) via email on May 25, 2020, and reported the release on a Form C-141, which was received by the NMOCD June 9, 2020, and was assigned Incident Number nRM2016146439.

## SITE CHARACTERIZATION AND PROPOSED CLOSURE CRITERIA

Etech characterized the Site 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 fresh water 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.

An initial desktop review referencing the *NMOCD Oil and Gas Map* and/or the *USGS National Water Information System: Mapper* indicated a New Mexico Office of the State Engineer (NMOSE) permitted soil boring was drilled by John Scarborough Drilling Inc. (Scarborough Drilling) for Devon on October 21, 2024, located approximately 0.58 miles northeast of the Site (**Figure 1A in Appendix A**). The boring was assigned NMOSE file number C-04889 POD 1. Using a truck mounted drill rig equipped with air rotary, the soil boring was advanced to a total depth of 105 feet below ground surface (bgs). No fluids were observed throughout the drilling process. Following the observation period, the boring was plugged and abandoned per the appropriate NMOSE regulations. The boring log is provided in **Appendix B**.

Based on recent (defined by less than 25 years ago from the current year) depth to groundwater measurements of multiple wells and/or soil borings located within approximately 5 miles surrounding the

Site (**Figure 1A** in **Appendix A**), regional depth to groundwater is estimated to be greater than 100 feet bgs. The next closest permitted boring with recent depth to groundwater data is NMOSE permitted boring C-04712 POD 2, located approximately 1.13 miles southwest of the Site. The boring was advanced to a total depth of 55 feet bgs on March 9, 2023. No fluids were observed through the drilling process, or after the 72-hr observation period. The next closest well with recent available data is NMOSE permitted boring C-4815 POD 1, located 1.88 miles northwest of the Site. The boring was advanced to a total depth of 55 feet bgs on April 16, 2024. No fluids were observed through the drilling process, or after the 72-hr observation period. Based on the desktop well review, a total of 15 recent borings including USGS wells, were utilized to estimate depth to groundwater for the Site within a 5-mile radius. The findings indicate that none of these borings show a depth to groundwater of less than 55 feet bgs.

Additional wells and/or soil borings with recent depth to groundwater data supporting a regional depth to groundwater greater than 100 feet bgs exist within the same 5-mile radius of the Site. All referenced boring and/or well records are included in **Appendix B**.

The Site is located within a low karst potential area and all other potential receptors are not within the established buffers defined in NMAC 19.15.29.12. Receptor details from the site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review and the estimated depth to groundwater at the Site, Devon proposes the following Closure Criteria:

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

<sup>†</sup>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.

## **DEPTH TO GROUNDWATER VARIANCE REQUEST**

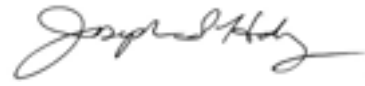
The closest depth to groundwater data for determining the proposed Site Closure Criteria is a dry boring located 0.58 miles, which is 0.08 miles (422 feet) outside the NMOC accepted buffer for depth to groundwater determination for Site Characterization. If a boring were to be advanced within a 0.5-mile of the Site, depth to groundwater is anticipated to be greater than 100 feet bgs based on regional depth to groundwater data. Scheduling a soil boring would likely increase the timeline for remediation due to the permitting process and the limited availability of drillers.

Devon believes this proposed variance to accept NMOSE permitted boring C-04889 POD 1 and regional groundwater data for the affiliated Site Closure Criteria is equally protective of groundwater, public health, and the environment. If you have any questions or comments, please do not hesitate to contact Erick Herrera at (432) 305-6416 or [erick@etechenv.com](mailto:erick@etechenv.com) or Joseph S. Hernandez at (432) 305-6413 or [joseph@etechenv.com](mailto:joseph@etechenv.com).

Sincerely,  
Etech Environmental and Safety Solutions, Inc.



Erick Herrera  
Project Geologist



Joseph S. Hernandez  
Senior Managing Geologist

cc: Jim Raley, Devon  
New Mexico Oil Conservation Division  
Bureau of Land Management  
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
- Appendix B:** Referenced Well Records



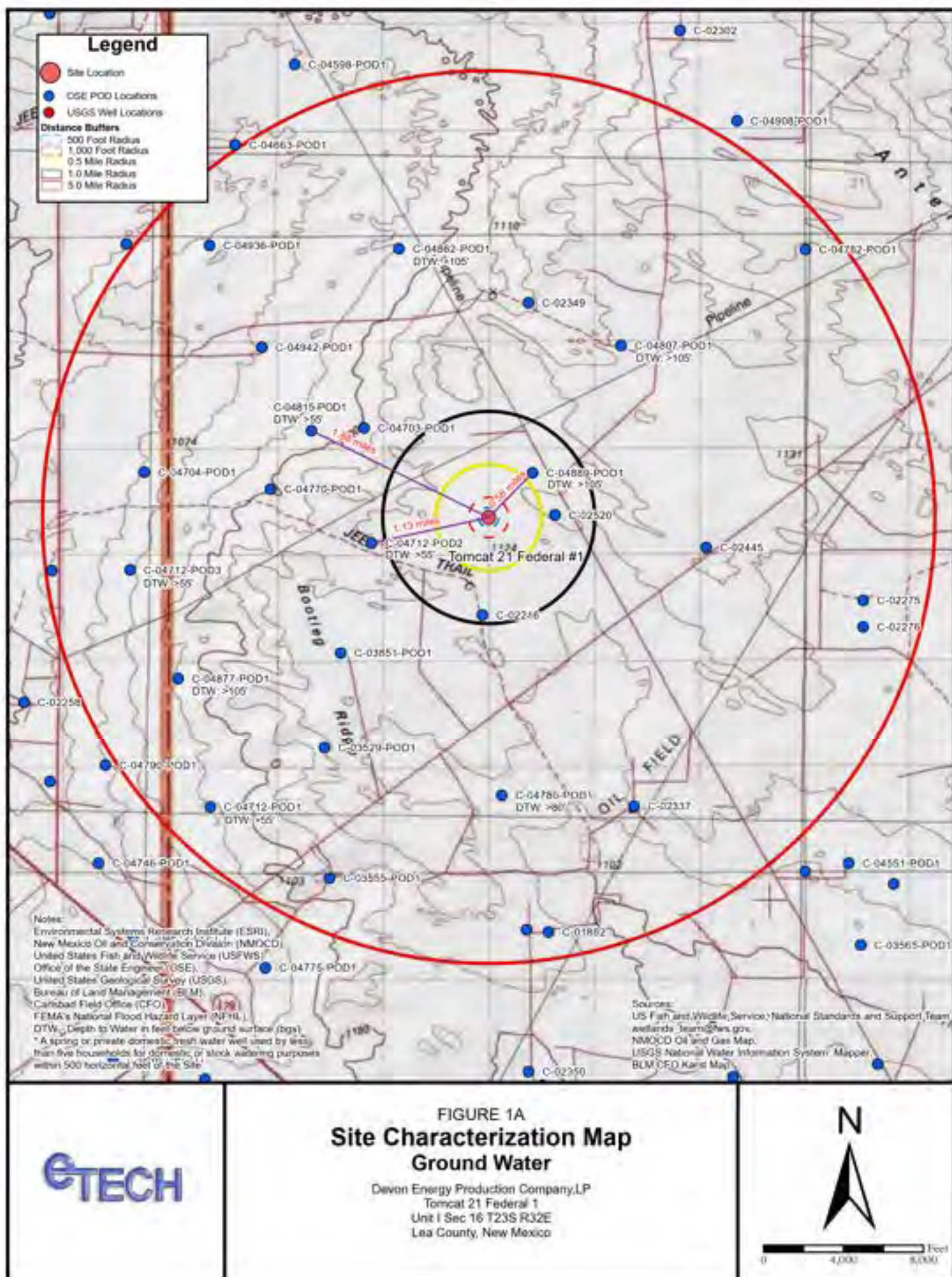
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# APPENDIX A

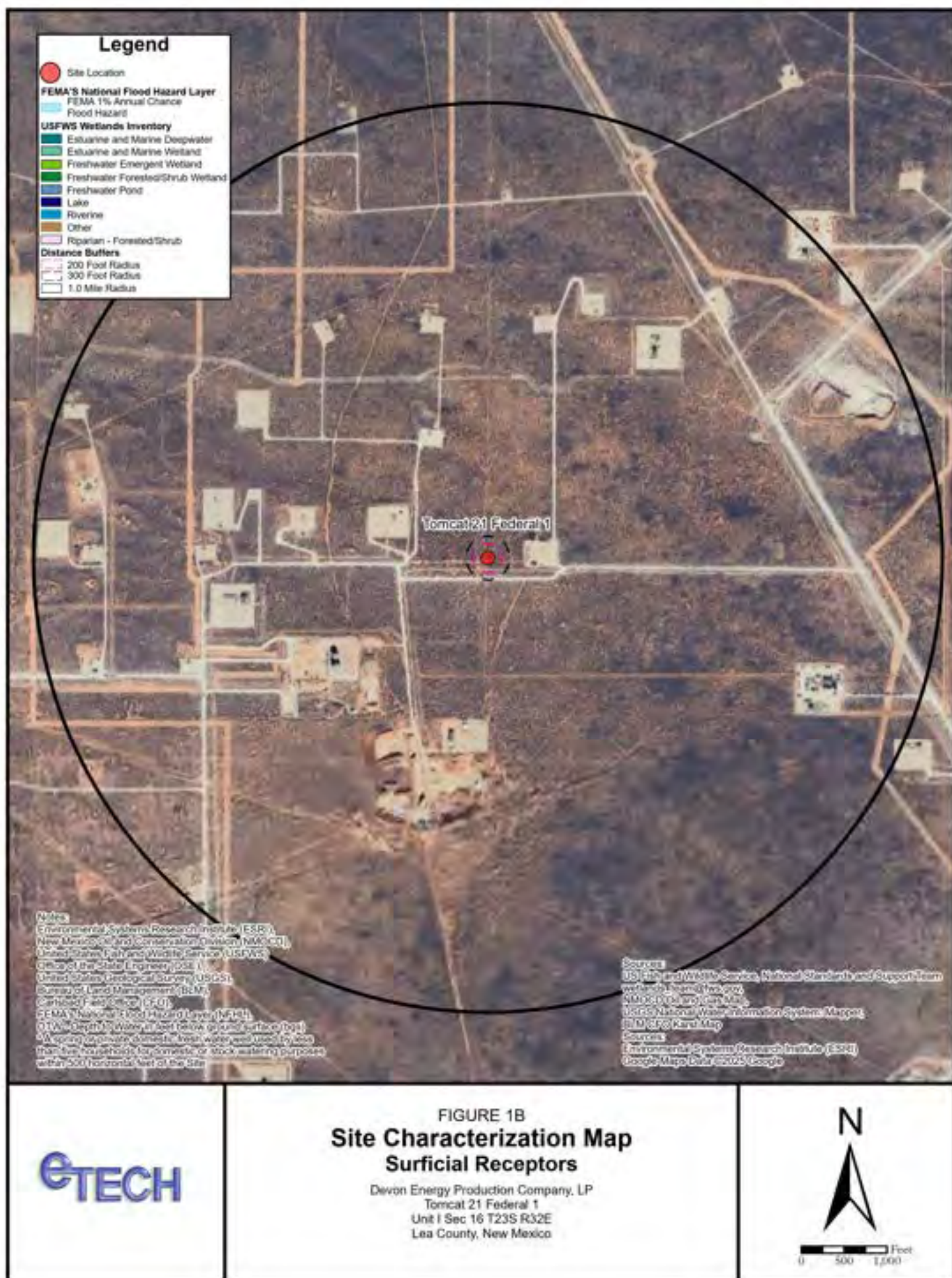
## Figures

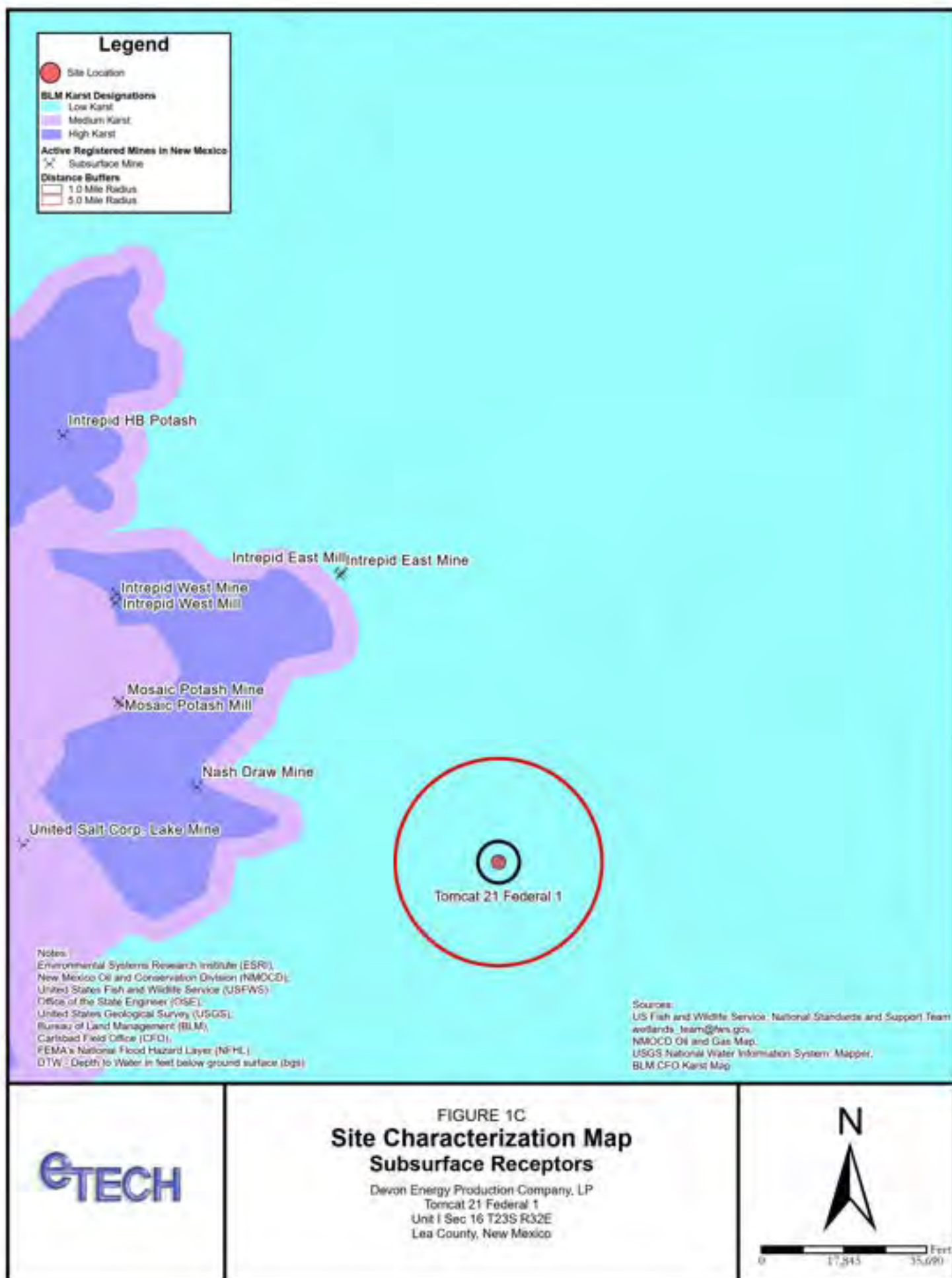












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## APPENDIX B

### Referenced Well Records

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







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





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) PODI		WELL TAG ID NO. N/A		OSE FILE NO(S) C-04889 PODI			
	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		
		LONGITUDE 103	39	50.45	W	* DATUM REQUIRED- WGS 84		
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) FROM TO		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)
	0	105	5.00	Soil Boring				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

FOR OSE INTERNAL USE:

WR-20 WELL RECORD & LOG (Version 04/30/19)

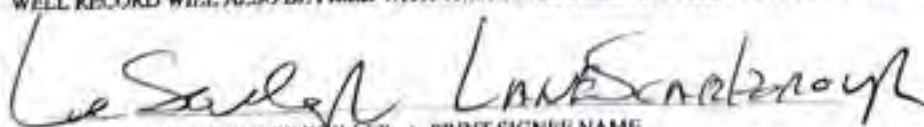
FILE NO	POD NO	TRN NO
LOCATION	WELL TAG ID NO	PAGE 1 OF 2

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				
	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	
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): 0.00	

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.
	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.	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	
	12/13/2024 DATE	

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 04/30/2019)	
FILE NO.	POD NO.	TRN NO.	





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.)		WELL TAG ID NO.		OSE FILE NO(S)		
	C-4712 Pod 2				C-4712		
	WELL OWNER NAME(S)				PIRINE (OPTIONAL)		
	Harwood Petroleum Company						
WELL OWNER MAILING ADDRESS		CITY		STATE	ZIP		
P.O. Box 936		Roswell		NM	88202		
WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS		* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LATITUDE	32	17	56.4 N	* DATUM REQUIRED: WGS 84		
	LONGITUDE	-103	44	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.		NAME OF LICENSED DRILLER		NAME OF WELL DRILLING COMPANY		
	1833		Jason Maley		Vision Resources		
	DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)		
	3-9-2023	3-9-2023	55	55	Dry		
	COMPLETED WELL IS:			STATIC WATER LEVEL IN COMPLETED WELL (FT)		DATE STATIC MEASURED	
	<input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)			Dry		Dry	
	DRILLING FLUID:			ADDITIONS - SPECIFY:			
	<input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> OTHER - SPECIFY:						
	DRILLING METHOD:			CHECK HERE IF FITLESS ADAPTER IS INSTALLED			
	<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						
			None				
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE - RANGE BY INTERVAL *(If using Centralizers for Artesian wells, indicate the spacing below)	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

Released to Imaging: 9/5/2025 2:58:07 PM

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, appearing to read "Maret Thompson".

Maret Thompson  
(575) 622-6521

drywell





# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

[www.ose.state.nm.us](http://www.ose.state.nm.us)

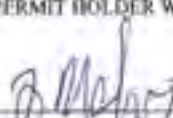
1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4815 <b>POD 1</b>		WELL TAG ID NO.		OSE FILE NO(S) C-4815- <del>POD1</del>			
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE NM		
					ZIP 88240			
2. DRILLING & CASING INFORMATION	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 18	SECONDS 51.8	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
* DATUM REQUIRED: WGS 84								
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHEN AVAILABLE								
3. ANNULAR MATERIAL	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)	
	FROM	TO					SLOT SIZE (inches)	
	0	45	6"	PVC 2" SCH40	Thread	2"	SCH40	N/A
	45	55	6"	PVC 2" SCH40	Thread	2"	SCH40	1/2
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		* (if using Centralizers for Artesian wells - indicate the spacing below)					
			None pulled and plugged					

USE 001 APR 25 2024 #0237

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. <b>C-04815</b>	POD NO. <b>1</b>	TRN NO. <b>757440</b>
LOCATION <b>236.32E.08-143</b>	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 <i>(attach supplemental sheets to fully describe all units)</i>	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
4. HYDROGEOLOGIC LOG OF WELL.	0	10	10'	Brown sand with caliche	Y ✓ N	
	10	30	20'	Tan fine sand with small rock	Y ✓ N	
	30	55	25'	Tan fine sand	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					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: Dry hole					TOTAL ESTIMATED WELL YIELD (gpm): 0
<b>5. TEST; RIG SUPERVISION</b>						
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:						
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Jason Maley						
<b>6. SIGNATURE</b>						
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:						
<div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="text-align: left;">             _____            SIGNATURE OF DRILLER / PRINT SIGNED NAME         </div> <div style="text-align: right;">             Jason Maley              _____              DATE           </div> </div>						



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 dark ink, appearing to read "Rodolfo Chavez".

Rodolfo Chavez  
(505) 622-6521

drywell

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 497402

**QUESTIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 497402
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nRM2016146439
Incident Name	NRM2016146439 TOMCAT 21 FEDERAL #1 @ 30-025-33356
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-33356] TOMCAT 21 FEDERAL #001

**Location of Release Source**

Please answer all the questions in this group.

Site Name	TOMCAT 21 FEDERAL #1
Date Release Discovered	05/24/2020
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	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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QUESTIONS, Page 2

Action 497402

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 497402
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

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

**Initial Response**

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

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

*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@dvni.com Date: 08/20/2025
--	---

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**Santa Fe, NM 87505**

QUESTIONS, Page 3

Action 497402

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 497402
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Site Characterization</b>	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
<b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>	
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

<b>Remediation Plan</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
<b>Soil Contamination Sampling:</b> (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
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	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
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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**Santa Fe, NM 87505**

QUESTIONS, Page 4

Action 497402

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 497402
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Remediation Plan (continued)</b>	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
<b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for <b>off-site</b> disposal	fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL
<b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dv.com Date: 08/20/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 5

Action 497402

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 497402
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

<b>Deferral Requests Only</b>	
<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

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

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Phone: (505) 629-6116

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

QUESTIONS, Page 6

Action 497402

**QUESTIONS (continued)**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 497402
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	476406
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/25/2025
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	1000

**Remediation Closure Request**

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
--	----



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Phone: (505) 476-3441

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**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS

Action 497402

**CONDITIONS**

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 497402
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

**CONDITIONS**

Created By	Condition	Condition Date
nvez	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.	9/5/2025